



Personal Systems Reference Lenovo® ThinkCentre Desktops

March 2010 - Version 373

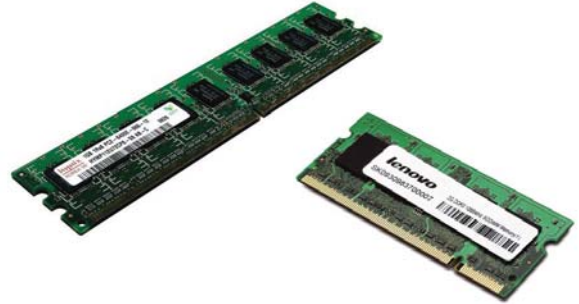


Lenovo ThinkCentre M90/M90p
(Eco Ultra Small, Small, Tower Form Factors)

Visit www.lenovo.com/psref for the latest version



Kensington® MicroSaver® Cable Lock
73P2582
Kensington Twin Head Cable Lock
45K1620



1GB PC2-6400 NP DDR2 UDIMM 41U2977
2GB PC2-6400 NP DDR2 UDIMM 41U2978
1GB PC3-8500 DDR3 UDIMM 45J5434
2GB PC3-8500 DDR3 UDIMM 45J5435
1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987
2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988
(UDIMM for SFF, Tower only; SODIMM for Eco USFF only)



ATI™ Radeon™ HD 3470 256MB (DP, VGA)
45K1636



Lenovo® USB-to-DVI Monitor Adapter
45K5296



Ultralim Wireless Keyboard and Mouse
57Y4700



Lenovo Laser Mouse (USB)
41U3074



Lenovo ThinkCentre M58e Small and
Lenovo ThinkCentre M58e Tower



Lenovo ThinkCentre M58e Small
with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre M58e Small



Lenovo ThinkCentre M58e Small
with Lenovo ThinkVision monitor



Lenovo ThinkCentre M58e Tower



Lenovo ThinkCentre M58e Tower
with Lenovo ThinkVision monitor

ThinkCentre® M58e Small (7259) - TopSeller (XP with Win 7 License)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e	7259-B1U	2x3	Pentium E6300	2.80	2MB	2	1GB	250GB ²	DVD	GMA	XP Pro	None	Nov 09
M58e	7259-B2U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD±RW	GMA	XP Pro	None	Nov 09
M58e	7259-B3U	2x3	Pentium E6300	2.80	2MB	2	3GB	500GB	DVD±RW	GMA	XP Pro	None	Nov 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 1-year limited warranty¹**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, 1066MHz system bus, and 2MB L2 cache Processor in LGA775 socket			Small 	
Implementation	Processor in LGA775 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)	
Memory	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB or 3GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement	
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm, vibration dampening				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7				
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive				
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	One internal speaker for business audio				
IEEE 1394	None				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®				
Intel AMT	None				
Modem	None				
Security chip	None				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	280 watts with variable speed fan, autosensing				
Preloaded operating system²⁰		Accessories		Limited Warranty¹ ⇒ 1-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC2-6400 DDR2 UDIMM 41U2977			
		2GB PC2-6400 DDR2 UDIMM 41U2978			
		250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015			
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918			
		DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618			
		Super Multi-Burner DL DVD±RW SATA Drive 41N5620			
		DisplayPort™ to Single-link DVI-D Cable 45J7915			
		ADD2 DVI-D Monitor Connection (HDCP) 43R1985			
Preloaded applications⁵ (only some listed)		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636			
• Rescue and Recovery™		NVIDIA® Quadro® 256MB FX 370 LP 55Y9275			
• Client Security Solution™		NVIDIA Quadro 256MB NVS 290 43R1765			
• ThinkVantage Productivity Center		More accessories on O-M58E sheet			
• ThinkVantage System Update		Acc Guide in pdf lenovo.com/accessoriesguide			
• ThinkVantage Power Manager		Other accessories at lenovo.com/accessories			
• McAfee® VirusScan® Plus (30 days of virus definitions)					
• Lenovo System Toolbox					
• Adobe® Reader®					
• Windows Live™ Toolbar					
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD, DVD±RW)					

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7259-D3U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7259-D2U	2x3	Pentium E5400	2.70	2MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7259-D1U	2x3	Pentium E5400	2.70	2MB	2	3GB	320GB	DVD±RW	GMA	Pro 32	None	Jan 10

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 1-year limited warranty¹**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Celeron® Processor E3200 with dual-core , 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5400 with dual-core , 800MHz system bus, and 2MB L2 cache			Small optical disk (in rear)																					
Implementation	Processor in LGA775 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)																					
Memory	1GB, 2GB, or 3GB std , 4GB max ^a , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																					
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies																					
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening																								
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																								
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																								
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																								
eSATA port	None																								
Diskette drive	None																								
Media reader	None																								
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																								
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																								
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																								
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																								
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																								
Speaker	One internal speaker for business audio																								
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Modem	None																								
Security chip	None																								
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Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																								
Power supply	280 watts with variable speed fan, autosensing																								
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) Accessories<table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td>NVIDIA Quadro 256MB NVS 290</td><td>43R1765</td></tr></table>More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB FX 370 LP	55Y9275	NVIDIA Quadro 256MB NVS 290	43R1765
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Limited Warranty¹ ⇒ 1-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																									

ThinkCentre® M58e Small (7269) - TopSeller (XP with Win 7 License)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Chassis intr switch	Preload	Global Educ	Avail date
M58e	7269-E5U	2x3	Pentium E5400	2.70	2MB	2	1GB	250GB ²	DVD	GMA		XP Pro	None	Jan 10
M58e	7269-D5U	2x3	Pentium E6300	2.80	2MB	2	1GB	250GB	DVD	GMA	Switch	XP Pro	None	Nov 09
M58e	7269-D6U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD±RW	GMA	Switch	XP Pro	None	Nov 09
M58e	7269-D7U	2x3	Core 2 Duo E7500	2.93	3MB	2	3GB	320GB	DVD±RW	GMA		XP Pro	None	Nov 09
M58e	7269-D8U	2x3	Core 2 Quad Q9400	2.66	6MB	4	3GB	500GB	DVD±RW	GMA		XP Pro	None	Nov 09
M58e	7269-F1U	2x3	Core 2 Quad Q9500	2.83	6MB	4	3GB	500GB	DVD±RW	GMA		XP Pro	None	Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Pentium Processor E6300 with dual-core, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket		Small opticaldisk (in rear) Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																														
Implementation	Processor in LGA775 socket																																
Memory	1GB, 2GB, or 3GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available																																
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB or 3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																																
SATA disk	250GB, 320GB, or 500GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement • <i>Some:</i> Chassis intrusion switch Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																
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SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																
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NVIDIA Quadro 256MB NVS 290	43R1765																																
More accessories on O-M58E sheet																																	
Acc Guide in pdf lenovo.com/accessoriesguide																																	
Other accessories at lenovo.com/accessories																																	

See footnotes for important warranty information

Ⓜ US model announced March 2, 2010; previous models on November 3 or December 15, 2009

Ⓜ US models withdrawn effective January 2010

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(MIAM3-8) March 2010

ThinkCentre® M58e Small (7269) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7269-E6U	2x3	Pentium E5400	2.70	2MB	2	1GB	250GB ²	DVD	GMA	Pro 32	None	Jan 10
M58e	7269-E7U	2x3	Pentium E5400	2.70	2MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7269-E8U	2x3	Core 2 Duo E7500	2.93	3MB	2	3GB	320GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7269-E9U	2x3	Core 2 Quad Q9400	2.66	6MB	4	3GB	500GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7269-F2U	2x3	Core 2 Quad Q9500	2.83	6MB	4	3GB	500GB	DVD±RW	GMA	Pro 32	None	Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5400 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core , 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket		Small opticaldisk (in rear)																														
Implementation			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)																														
Memory	1GB, 2GB, or 3GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																														
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																														
SATA disk	250GB, 320GB, or 500GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																																
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																																
eSATA port	None																																
Diskette drive	None																																
Media reader	None																																
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																
Speaker	One internal speaker for business audio																																
IEEE 1394	None																																
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																																
Intel AMT	None																																
Modem	None																																
Security chip	None																																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																																
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																
Power supply	280 watts with variable speed fan, autosensing																																
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)		Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td>NVIDIA Quadro 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>		1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB FX 370 LP	55Y9275	NVIDIA Quadro 256MB NVS 290	43R1765	More accessories on O-M58E sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
1GB PC2-6400 DDR2 UDIMM	41U2977																																
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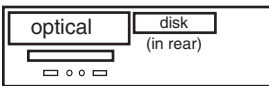
See footnotes for important warranty information

® US model announced March 2, 2010; previous models on January 12, 2010

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(MIAM3-15) March 2010

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
< M58e	7279-B1U	2x3	Pentium E2220	2.40	1MB	2	2GB	160GB ²	DVD±RW	GMA	Business32	Basic	None	Apr 09
< M58e	7279-A9U	2x3	Core 2 Duo E7300	2.66	3MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7279-A8U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09

- *These models have a 1-year limited warranty¹*

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E2220 with dual-core, 800MHz system bus, and 1MB L2 cache or Intel Core™ 2 Duo Processor E7300 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		Small  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 1-year parts and labor ⇒ International Warranty Service ⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations): ⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter		
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	None		
Diskette drive	None		
Media reader	None		
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
IEEE 1394	None		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing		
Preloaded operating system²⁰ - Genuine Windows® Vista® Business 32			
Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)			
Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 160GB SATA 3.0Gb/s Disk (7200 rpm) 09N4254 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB FX 370 LP 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories			

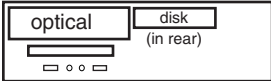
See footnotes for important warranty information
 US models announced March 10, 2009

< US models withdrawn effective June or August 2009

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 (MIAM1-2) March 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Floor stand	Preload	Global Educ	Avail date
☞ M58e	7303-F9U	2x3	Pentium E5200	2.50	2MB	2	1GB	160GB ²	DVD	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-C6U	2x3	Pentium E5300	2.60	2MB	2	1GB	160GB	DVD	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-G8U	2x3	Pentium E5300	2.60	2MB	2	1GB	160GB	DVD±RW	GMA	Stand	XP Pro	Educ	Apr 09
☞ M58e	7303-C7U	2x3	Pentium E5300	2.60	2MB	2	2GB	250GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-C8U	2x3	Core 2 Duo E7400	2.80	3MB	2	1GB	160GB	DVD	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-D1U	2x3	Core 2 Duo E7400	2.80	3MB	2	2GB	160GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-C9U	2x3	Core 2 Duo E7500	2.93	3MB	2	1GB	160GB	DVD	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-D2U	2x3	Core 2 Duo E7500	2.93	3MB	2	2GB	160GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-D3U	2x3	Core 2 Duo E8400	3.00	6MB	2	1GB	160GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-D5U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-G7U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	Stand	XP Pro	Educ	Apr 09
☞ M58e	7303-D4U	2x3	Core 2 Duo E8500	3.16	6MB	2	1GB	250GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-D6U	2x3	Core 2 Duo E8500	3.16	6MB	2	2GB	250GB	DVD±RW	GMA	Stand	XP Pro		Apr 09
☞ M58e	7303-G9U	2x3	Core 2 Quad Q8200	2.33	4MB	4	2GB	250GB	DVD±RW	GMA	Stand	XP Pro		Apr 09

• These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5200 or E5300 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 or E8500 with dual-core , 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q8200 with quad-core , 1333MHz system bus, and 4MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		Small 	
Implementation			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3	
Memory	1GB or 2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • <i>Some</i>: system floor stand for vertical orientation	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max4 Drive			
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	One internal speaker for business audio			
IEEE 1394	None			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing			
Preloaded operating system²⁰		Accessories		
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)		1GB PC2-6400 DDR2 UDIMM 41U2977		
		2GB PC2-6400 DDR2 UDIMM 41U2978		
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
Preloaded applications⁵ (only some listed)		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
• <i>Some</i> : Education software		DisplayPort to Single-link DVI-D Cable 45J7915		
- VitalSource Library School Edition		ADD2 DVI-D Monitor Connection (HDCP) 43R1985		
- Adobe® Elements		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636		
- Photoshop Elements 7		NVIDIA® Quadro® 256MB FX 370 LP 55Y9275		
- Premiere Elements 7		NVIDIA Quadro 256MB NVS 290 43R1765		
• Rescue and Recovery™		More accessories on O-M58E sheet		
• Client Security Solution™				
• Microsoft® Office 2007 Trial (60-day)		Acc Guide in pdf lenovo.com/accessoriesguide		
• Roxio® Creator® Business Edition (DVD±RW)		Other accessories at lenovo.com/accessories		
• Roxio MyDVD® (DVD±RW)				
• Corel® WinDVD® (DVD, DVD±RW)				

Limited Warranty¹	
☞	3-year parts and labor
☞	International Warranty Service⁹
☞	Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
☞	Onsite service upgrade options (in eligible locations):⁷
	• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
	• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
	• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
	• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
☞	Other ThinkPlus services at lenovo.com/thinkplus/warranty
☞	Post warranty maintenance services available
☞	24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

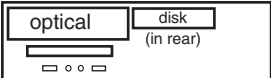
See footnotes for important warranty information
US models announced March 10 or March 24, 2009

☞ US models withdrawn effective October or December 2009

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(MIAM1-3) April 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e	7303-R1U	2x3	Pentium E6300	2.80	2MB	2	1GB	250GB ²	DVD	GMA	XP Pro		Oct 09
M58e	7303-R2U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD±RW	GMA	XP Pro		Oct 09
M58e	7303-R3U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD±RW	GMA	XP Pro	Educ	Oct 09
M58e	7303-Q9U	2x3	Core 2 Quad Q8400	2.66	4MB	4	2GB	250GB	DVD±RW	GMA	XP Pro		Oct 09

• **These models have a 3-year limited warranty¹**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache	Small	
Implementation	Processor in LGA775 socket	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)	
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation	
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar		
eSATA port	None		
Diskette drive	None		
Media reader	None		
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	One internal speaker for business audio		
IEEE 1394	None		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®		
Intel AMT	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing		
Preloaded operating system²⁰		Accessories	
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC2-6400 DDR2 UDIMM	41U2977
		2GB PC2-6400 DDR2 UDIMM	41U2978
		250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015
		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
		DVD-ROM DL SATA 1.5Gb/s 16X-48X Max	41N5618
		Super Multi-Burner DL DVD±RW SATA Drive	41N5620
		DisplayPort™ to Single-link DVI-D Cable	45J7915
		ADD2 DVI-D Monitor Connection (HDCP)	43R1985
		ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636
		NVIDIA® Quadro® 256MB FX 370 LP	55Y9275
		NVIDIA Quadro 256MB NVS 290	43R1765
		More accessories on O-M58E sheet	
		Acc Guide in pdf lenovo.com/accessoriesguide	
		Other accessories at lenovo.com/accessories	
Preloaded applications⁵ (only some listed)			
• <i>Some:</i> Education software			
- VitalSource Library School Edition			
- Adobe® Elements			
- Photoshop Elements 7			
- Premiere Elements 7			
• Rescue and Recovery™			
• Client Security Solution™			
• ThinkVantage Productivity Center			
• ThinkVantage System Update			
• ThinkVantage Power Manager			
• McAfee® VirusScan® Plus			
(30 days of virus definitions)			
• Lenovo System Toolbox			
• Adobe Reader®			
• Windows Live™ Toolbar			
• Microsoft® Office 2007 Trial (60-day)			
• Roxio® Creator® Business Edition			
(DVD±RW)			
• Roxio MyDVD® (DVD±RW)			
• Corel® WinDVD® (DVD, DVD±RW)			
		Security	
		• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement	
		Supports ThinkVantage® technologies	
		GREENGUARD® certified RoHS-compliant	
		Limited Warranty¹	
		⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

See footnotes for important warranty information
US models announced October 22, 2009

⚡ US model withdrawn effective December 2009

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(MIAM3-1) October 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
M58e	7303-D8U	2x3	Pentium E5300	2.60	2MB	2	1GB	160GB ²	DVD	GMA	Business32	Basic	None	Apr 09
M58e	7303-D9U	2x3	Pentium E5300	2.60	2MB	2	2GB	250GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E1U	2x3	Core 2 Duo E7400	2.80	3MB	2	1GB	160GB	DVD	GMA	Business32	Basic	None	Apr 09
M58e	7303-E3U	2x3	Core 2 Duo E7400	2.80	3MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E2U	2x3	Core 2 Duo E7500	2.93	3MB	2	1GB	160GB	DVD	GMA	Business32	Basic	None	Apr 09
M58e	7303-E4U	2x3	Core 2 Duo E7500	2.93	3MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E5U	2x3	Core 2 Duo E8400	3.00	6MB	2	1GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E7U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E6U	2x3	Core 2 Duo E8500	3.16	6MB	2	1GB	250GB	DVD±RW	GMA	Business32	Basic	None	Apr 09
M58e	7303-E8U	2x3	Core 2 Duo E8500	3.16	6MB	2	2GB	250GB	DVD±RW	GMA	Business32	Basic	None	Apr 09

• These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5300 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 or E8500 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Small opticaldisk (in rear)	
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)	
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation	
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening			Security - Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette - Serial port I/O control - Parallel port I/O control - USB port disablement	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7				
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive				
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors				
eSATA port	None			Supports ThinkVantage® technologies	
Diskette drive	None				
Media reader	None				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			GREENGUARD® certified RoHS-compliant	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	One internal speaker for business audio				
IEEE 1394	None				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			Limited Warranty¹ ⇨ 3-year parts and labor ⇨ International Warranty Service⁹ ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Onsite service upgrade options (in eligible locations):⁷ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇨ ThinkPlus services at lenovo.com/thinkplus/warranty ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
Intel AMT	None				
Modem	None				
Security chip	None				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	280 watts with variable speed fan, autosensing				
Preloaded operating system²⁰		Accessories			
- Genuine Windows® Vista® Business 32		1GB PC2-6400 DDR2 UDIMM		41U2977	
Preloaded applications⁵		2GB PC2-6400 DDR2 UDIMM		41U2978	
• Rescue and Recovery™		500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990	
• Client Security Solution™		1TB SATA 3.0Gb/s Disk (7200 rpm)		45J7918	
• ThinkVantage Productivity Center		DVD-ROM DL SATA 1.5Gb/s 16-48X Max		41N5618	
• ThinkVantage System Update		Super Multi-Burner DL DVD±RW SATA Drive		41N5620	
• ThinkVantage Power Manager		DisplayPort to Single-link DVI-D Cable		45J7915	
• McAfee® VirusScan® Plus (30 days of virus definitions)		ADD2 DVI-D Monitor Connection (HDCP)		43R1985	
• Lenovo System Toolbox		ATI™ Radeon™ HD 3470 256MB (DP, VGA)		45K1636	
• Adobe® Reader®		NVIDIA® Quadro® 256MB FX 370 LP		55Y9275	
• Windows Live™ Toolbar		NVIDIA Quadro 256MB NVS 290		43R1765	
• Microsoft® Office 2007 Trial (60-day)		More accessories on O-M58E sheet			
• Roxio® Creator® Business Edition (DVD±RW)		Acc Guide in pdf lenovo.com/accessoriesguide			
• Roxio MyDVD® (DVD±RW)		Other accessories at lenovo.com/accessories			
• Corel® WinDVD® (DVD, DVD±RW)					

See footnotes for important warranty information

US models announced March 10, 2009

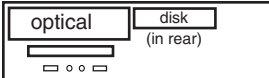
⚠ US models withdrawn effective October or December 2009

ThinkCentre® M58e Small (7303) - Windows 7

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7303-BAU	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB ²	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7303-BBU	2x3	Core 2 Duo E7500	2.93	3MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7303-BCU	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Jan 10

- *These models have a 3-year limited warranty¹*

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core , 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core , 1333MHz system bus, and 6MB L2 cache Implementation Processor in LGA775 socket		Small  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available		Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors None None None		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)		
Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		Supports ThinkVantage® technologies
Mouse Power supply	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing		
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32		Accessories	
Preloaded applications ⁵ (only some listed)		1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB FX 370 LP 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765 More accessories on O-M58E sheet	
		Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	
		Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

See footnotes for important warranty information
US models announced December 15, 2009

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(MIAM3-12) December 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Preload	Global Educ	Avail date
	M58e	7506-C7U	2x3	Pentium E5200	2.50	2MB	2	1GB	160GB ²	DVD	GMA	XP Pro		Apr 09
	M58e	7506-B9U	2x3	Pentium E5300	2.60	2MB	2	1GB	160GB	DVD	GMA	XP Pro		Apr 09
	M58e	7506-C1U	2x3	Core 2 Duo E7400	2.80	3MB	2	2GB	160GB	DVD±RW	GMA	XP Pro		Apr 09
	M58e	7506-C2U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	XP Pro		Apr 09
	M58e	7506-C9U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	XP Pro	Educ	Apr 09

• **These models have a 3-year limited warranty¹**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5200 or E5300 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		Small optical disk (in rear) Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation	
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies Climate Savers®-compliant <i>Some:</i> EPEAT™ Gold rating <i>Some:</i> ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant	
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive			
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	One internal speaker for business audio			
IEEE 1394	None			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, 85% PSU			
Preloaded operating system²⁰		Accessories		
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)		1GB PC2-6400 DDR2 UDIMM 41U2977		
		2GB PC2-6400 DDR2 UDIMM 41U2978		
Preloaded applications⁵ • <i>Some:</i> Education software - VitalSource Library School Edition - Adobe® Elements - Photoshop Elements 7 - Premiere Elements 7		250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015		
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
		DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618		
• Client Security Solution™		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
		DisplayPort to Single-link DVI-D Cable 45J7915		
• ThinkVantage Productivity Center		ADD2 DVI-D Monitor Connection (HDCP) 43R1985		
		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636		
• ThinkVantage System Update		NVIDIA® Quadro® 256MB FX 370 LP 55Y9275		
		NVIDIA Quadro 256MB NVS 290 43R1765		
• McAfee® VirusScan® Plus (30 days of virus definitions)		More accessories on O-M58E sheet		
		Acc Guide in pdf lenovo.com/accessoriesguide		
• Lenovo System Toolbox		Other accessories at lenovo.com/accessories		
• Adobe Reader®				
• Windows Live™ Toolbar				
• Microsoft® Office 2007 Trial (60-day)				
• Roxio® Creator® Business Edition (DVD±RW)				
• Roxio MyDVD® (DVD±RW)				
• Corel® WinDVD® (DVD, DVD±RW)				

See footnotes for important warranty information
US models announced March 10 or March 24, 2009

⚠ US models withdrawn effective June, October, or December 2009

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Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Preload	Global Educ	Avail date
M58e	7506-M2U	2x3	Pentium E5300	2.60	2MB	2	2GB	160GB ²	DVD±RW	GMA	ES50	XP Pro	None	Jul 09
M58e	7506-M1U	2x3	Core 2 Duo E7500	2.93	3MB	2	2GB	160GB	DVD±RW	GMA	ES50	XP Pro	None	Jul 09

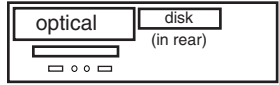
- *These models have a 3-year limited warranty¹*

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5300 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket			Small optical disk (in rear)		
Implementation				Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)		
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3		
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 1GB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation		
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7					
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors					
eSATA port	None					
Diskette drive	None			Supports ThinkVantage® technologies		
Media reader	None					
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	One internal speaker for business audio					
IEEE 1394	None			Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®					
Intel AMT	None					
Modem	None					
Security chip	None					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo					
Power supply	280 watts with variable speed fan, autosensing, 85% PSU					
Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)				Accessories		
Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB FX 370 LP 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765 More accessories on O-M58E sheet		
				Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Preload	Global Educ	Avail date		
M58e	7506-N6U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB ²	DVD±RW	GMA	ES50	XP Pro	None	Oct 09		
• <i>This model has a 3-year limited warranty¹</i>																
Positioning	Mainstream enterprise stability and manageability								Small optical disk (in rear)							
Processor	Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache															
Implementation	Processor in LGA775 socket															
Memory	2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available															
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 1GB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter															
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts								Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7															
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors															
eSATA port	None															
Diskette drive	None								Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement							
Media reader	None															
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)								Supports ThinkVantage® technologies							
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	One internal speaker for business audio															
IEEE 1394	None															
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®															
Intel AMT	None								Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant							
Modem	None															
Security chip	None															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo															
Power supply	280 watts with variable speed fan, autosensing, 85% PSU								Limited Warranty¹ 3-year parts and labor International Warranty Service⁹ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378							
Preloaded operating system²⁰				Accessories												
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional				1GB PC2-6400 DDR2 UDIMM				41U2977								
				2GB PC2-6400 DDR2 UDIMM				41U2978								
				250GB SATA 3.0Gb/s Disk (7200 rpm)				41N3015								
				500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990								
				1TB SATA 3.0Gb/s Disk (7200 rpm)				45J7918								
Preloaded applications⁵ (only some listed)				Super Multi-Burner DL DVD±RW SATA Drive				41N5620								
• Rescue and Recovery™				DisplayPort™ to Single-link DVI-D Cable				45J7915								
• Client Security Solution™				ADD2 DVI-D Monitor Connection (HDCP)				43R1985								
• ThinkVantage Productivity Center				ATI™ Radeon™ HD 3470 256MB (DP, VGA)				45K1636								
• ThinkVantage System Update				NVIDIA® Quadro® 256MB FX 370 LP				55Y9275								
• ThinkVantage Power Manager				NVIDIA Quadro 256MB NVS 290				43R1765								
• McAfee® VirusScan® Plus (30 days of virus definitions)				More accessories on O-M58E sheet												
• Lenovo System Toolbox				Acc Guide in pdf lenovo.com/accessoriesguide												
• Adobe® Reader®				Other accessories at lenovo.com/accessories												
• Windows Live™ Toolbar																
• Microsoft® Office 2007 Trial (60-day)																
• Roxio® Creator® Business Edition (DVD±RW)																
• Roxio MyDVD® (DVD±RW)																
• Corel® WinDVD® (DVD±RW)																

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global (G) GMP (P)	Avail date
M58e	7408-A1U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB ²	DVD±RW	GMA	Business32	Basic	G P	Apr 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		Small 																								
Implementation	Processor in FC-LGA8 package in LGA775 socket																										
Memory	2GB std , 4GB max ^a , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available																										
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																										
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention																								
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																										
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																										
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors																										
eSATA port	None																										
Diskette drive	None																										
Media reader	None																										
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																										
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																										
Speaker	One internal speaker for business audio																										
IEEE 1394	None																										
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																										
Intel AMT	None																										
Modem	None																										
Security chip	None																										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																										
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																										
Power supply	280 watts with variable speed fan, autosensing																										
Preloaded operating system ²⁰ - Genuine Windows® Vista® Business 32			Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td>NVIDIA Quadro 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr></table>	1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB FX 370 LP	55Y9275	NVIDIA Quadro 256MB NVS 290	43R1765	More accessories on O-M58E sheet	
1GB PC2-6400 DDR2 UDIMM	41U2977																										
2GB PC2-6400 DDR2 UDIMM	41U2978																										
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015																										
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Super Multi-Burner DL DVD±RW SATA Drive	41N5620																										
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ADD2 DVI-D Monitor Connection (HDCP)	43R1985																										
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																										
NVIDIA® Quadro® 256MB FX 370 LP	55Y9275																										
NVIDIA Quadro 256MB NVS 290	43R1765																										
More accessories on O-M58E sheet																											
Preloaded applications ⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)																											
Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories																											
Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																											
Supports ThinkVantage® technologies																											
GREENGUARD® certified RoHS-compliant																											
Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																											

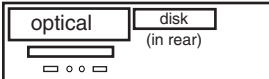
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Win7 preload	Global (G) GMP (P)	Avail date
M58e	7408-A2U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	320GB ²	DVD±RW	GMA	Pro 32	G P	Oct 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Small opticaldisk (in rear)																														
Implementation	Processor in LGA775 socket																																	
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																														
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																														
SATA disk	320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors																																	
eSATA port	None			Supports ThinkVantage® technologies																														
Diskette drive	None																																	
Media reader	None																																	
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																																	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																	
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			GREENGUARD® certified RoHS-compliant																														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																	
Speaker	One internal speaker for business audio																																	
IEEE 1394	None																																	
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																														
Intel AMT	None																																	
Modem	None																																	
Security chip	None																																	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																																	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td>NVIDIA Quadro 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB FX 370 LP	55Y9275	NVIDIA Quadro 256MB NVS 290	43R1765	More accessories on O-M58E sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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Power supply	280 watts with variable speed fan, autosensing																																	
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32																																		
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)																																		

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Vista preload	Vista logo	Global (G) GMP (P)	Avail date
M58e	7514-A2U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB ²	DVD±RW	GMA	ES50	Bus32	Basic	G P	Apr 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Small 
Implementation	Processor in FC-LGA8 package in LGA775 socket			
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX [®] 10, supports dual independent display with optional ADD2 adapter			
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel G41 Express Chipset (PCI Express [®] x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek [®] ALC662 codec			
Speaker	One internal speaker for business audio			
IEEE 1394	None			
Ethernet	Gigabit ethernet on planar, Marvell [®] 88E8057, Wake on LAN [®]			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo [®] logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, 85% PSU			
Preloaded operating system ²⁰ - Genuine Windows [®] Vista [®] Business 32				Security • Security slot (in rear for attachment of optional Kensington [®] MicroSaver [®] cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage [®] technologies Climate Savers [®] -compliant EPEAT [™] Gold rating ENERGY STAR 5.0-compliant GREENGUARD [®] certified RoHS-compliant
Preloaded applications ⁵ • Rescue and Recovery [™] • Client Security Solution [™] • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee [®] VirusScan [®] Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe [®] Reader [®] • Windows Live [™] Toolbar • Microsoft [®] Office 2007 Trial (60-day) • Roxio [®] Creator [®] Business Edition (DVD±RW) • Roxio MyDVD [®] (DVD±RW) • Corel [®] WinDVD [®] (DVD±RW)				
Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI [™] Radeon [™] HD 3470 256MB (DP, VGA) 45K1636 NVIDIA [®] Quadro [®] 256MB FX 370 LP 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765 More accessories on O-M58E sheet				
Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				
Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service ⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations): ⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus [™] part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378				

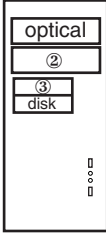
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e	7258-B1U	4x4	Pentium E6300	2.80	2MB	2	1GB	250GB ²	None	DVD	GMA	XP Pro	None	Nov 09
M58e	7258-B2U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	None	Nov 09
M58e	7258-B3U	4x4	Pentium E6300	2.80	2MB	2	3GB	500GB	None	DVD±RW	GMA	XP Pro	None	Nov 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core , 1066MHz system bus, and 2MB L2 cache Processor in LGA775 socket		Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk Bay ① Bay ② Bay ③ Bay ④																													
Implementation																																
Memory	1GB, 2GB, or 3GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available																															
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB or 3GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																															
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm, vibration dampening		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 1-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																															
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																															
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																															
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors																															
eSATA port	None																															
Diskette drive	None																															
Media reader	None																															
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																															
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																															
Speaker	One internal speaker for business audio																															
IEEE 1394	None																															
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																															
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Modem	None																															
Security chip	None																															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																															
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Power supply	280 watts with variable speed fan, manual switch																															
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)																																
Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	More accessories on O-M58E sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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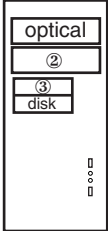
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7258-D3U	4x4	Celeron E3200	2.40	1MB	2	1GB	250GB ²	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7258-D2U	4x4	Pentium E5400	2.70	2MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7258-D1U	4x4	Pentium E5400	2.70	2MB	2	3GB	320GB	None	DVD±RW	GMA	Pro 32	None	Jan 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Celeron® Processor E3200 with dual-core, 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache Processor in LGA775 socket		Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention		
Implementation	Processor in LGA775 socket				
Memory	1GB, 2GB, or 3GB std. , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available				
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 253MB [<i>1GB models</i>], 765MB [<i>2GB models</i>], or 1277MB [<i>3GB models</i>]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3		
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	One internal speaker for business audio				
IEEE 1394	None				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®				
Intel AMT	None				
Modem	None				
Security chip	None				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	280 watts with variable speed fan, manual switch				
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32			Accessories		
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio™ Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)			1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		
			Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement		
			Supports ThinkVantage® technologies		
			GREENGUARD® certified RoHS-compliant		
			Limited Warranty¹ ⇒ 1-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

ThinkCentre® M58e Tower (7268) - TopSeller (XP with Win 7 License)

Personal Systems Reference (PSREF)

	Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	Preload	Global Educ	Avail date	
X	M58e	7268-D2U	4x4	Pentium E5400	2.70	2MB	2	1GB	250GB ²	None	DVD	GMA		XP Pro	None	Jan 10	
	M58e	7268-D1U	4x4	Pentium E5400	2.70	2MB	2	2GB	250GB	None	DVD±RW	GMA		XP Pro	None	Jan 10	
	M58e	7268-C3U	4x4	Pentium E6300	2.80	2MB	2	1GB	250GB	None	DVD	GMA	Switch	XP Pro	None	Nov 09	
	M58e	7268-C4U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	Switch	XP Pro	None	Nov 09	
	M58e	7268-C5U	4x4	Core 2 Duo E7500	2.93	3MB	2	3GB	320GB	None	DVD±RW	GMA		XP Pro	None	Nov 09	
	M58e	7268-C6U	4x4	Core 2 Quad Q9400	2.66	6MB	4	3GB	500GB	None	DVD±RW	GMA		XP Pro	None	Nov 09	
U	M58e	7268-E1U	4x4	Core 2 Quad Q9500	2.83	6MB	4	3GB	500GB	None	DVD±RW	GMA		XP Pro	None	Mar 10	
• These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹																	
Positioning	Mainstream enterprise stability and manageability										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 						
Processor	Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Pentium Processor E6300 with dual-core, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket																
Implementation	Processor in LGA775 socket																
Memory	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-Italics:</i> standard memory in one socket; one socket available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk						
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB or 3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter										Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3						
SATA disk	250GB, 320GB, or 500GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® Microsaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement • Some: Chassis intrusion switch						
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	One internal speaker for business audio																
IEEE 1394	None																
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																
Intel AMT	None																
Modem	None																
Security chip	None																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																
Power supply	280 watts with variable speed fan, manual switch																
Preloaded operating system ²⁰					Accessories												
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional					1GB PC2-6400 DDR2 UDIMM 41U2977												
					2GB PC2-6400 DDR2 UDIMM 41U2978												
Preloaded applications ⁵ (only some listed)					500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990												
					1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918												
• Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)					DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618												
					Super Multi-Burner DL DVD±RW SATA Drive 41N5620												
					Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675												
					DisplayPort™ to Single-link DVI-D Cable 45J7915												
					ADD2 DVI-D Monitor Connection (HDCP) 43R1985												
					ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636												
					NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635												
					NVIDIA Quadro® 256MB NVS 290 43R1765												
					More accessories on O-M58E sheet												
					Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories												
Supports ThinkVantage® technologies																	
GREENGUARD® certified RoHS-compliant																	
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																	

See footnotes for important warranty information

US model announced March 2, 2010; previous models on November 3 or December 15, 2009

US models withdrawn effective January 2010

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(MIAM3-10) March 2010

ThinkCentre® M58e Tower (7268) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7268-D3U	4x4	Pentium E5400	2.70	2MB	2	1GB	250GB ²	None	DVD	GMA	Pro 32	None	Jan 10
M58e	7268-D4U	4x4	Pentium E5400	2.70	2MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7268-D5U	4x4	Core 2 Duo E7500	2.93	3MB	2	3GB	320GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7268-D6U	4x4	Core 2 Quad Q9400	2.66	6MB	4	3GB	500GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7268-E2U	4x4	Core 2 Quad Q9500	2.83	6MB	4	3GB	500GB	None	DVD±RW	GMA	Pro 32	None	Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5400 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core , 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket			Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk																															
Implementation				Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk																															
Memory	1GB, 2GB, or 3GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3																															
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																																		
SATA disk	250GB, 320GB, or 500GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® Microsaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																															
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																																		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																		
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																																		
eSATA port	None																																		
Diskette drive	None																																		
Media reader	None																																		
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																																		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																		
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																																		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																		
Speaker	One internal speaker for business audio																																		
IEEE 1394	None																																		
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																																		
Intel AMT	None																																		
Modem	None																																		
Security chip	None																																		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																																		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																		
Power supply	280 watts with variable speed fan, manual switch																																		
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)			Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	More accessories on O-M58E sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
1GB PC2-6400 DDR2 UDIMM	41U2977																																		
2GB PC2-6400 DDR2 UDIMM	41U2978																																		
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																																		
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																																		
DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618																																		
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																																		
Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675																																		
DisplayPort™ to Single-link DVI-D Cable	45J7915																																		
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																																		
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																																		
NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635																																		
NVIDIA Quadro® 256MB NVS 290	43R1765																																		
More accessories on O-M58E sheet																																			
Acc Guide in pdf lenovo.com/accessoriesguide																																			
Other accessories at lenovo.com/accessories																																			

See footnotes for important warranty information

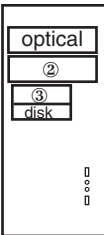
US model announced March 2, 2010; previous models on January 12, 2010

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(MIAM3-16) March 2010

- ***These models have a 1-year limited warranty¹***

See footnotes for important warranty information
US models announced March 10, 2009
%: US models withdrawn effective June, August, or December 2009

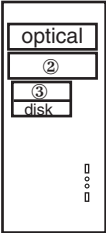
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(MIAM1-9) March 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date	
	M58e	7298-F2U	4x4	Pentium E5200	2.50	2MB	2	1GB	160GB ²	None	DVD	GMA	XP Pro	Apr 09	
	M58e	7298-C3U	4x4	Pentium E5300	2.60	2MB	2	1GB	160GB	None	DVD	GMA	XP Pro	Apr 09	
	M58e	7298-C4U	4x4	Pentium E5300	2.60	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-C5U	4x4	Core 2 Duo E7400	2.80	3MB	2	1GB	160GB	None	DVD	GMA	XP Pro	Apr 09	
	M58e	7298-C6U	4x4	Core 2 Duo E7400	2.80	3MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-C7U	4x4	Core 2 Duo E7500	2.93	3MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-C8U	4x4	Core 2 Duo E8400	3.00	6MB	2	1GB	160GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-D1U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-F8U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Educ Apr 09	
	M58e	7298-C9U	4x4	Core 2 Duo E8500	3.16	6MB	2	1GB	250GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-D2U	4x4	Core 2 Duo E8500	3.16	6MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-F9U	4x4	Core 2 Quad Q8200	2.33	4MB	4	2GB	250GB	None	DVD±RW	GMA	XP Pro	Apr 09	
	M58e	7298-G1U	4x4	Core 2 Quad Q9400	2.66	6MB	4	2GB	250GB	None	DVD±RW	GMA	XP Pro	Apr 09	
• These models have a 3-year limited warranty ¹															
Positioning	Mainstream enterprise stability and manageability									Tower					
Processor	Intel® Pentium® Processor E5200 or E5300 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 or E8500 with dual-core, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q8200 with quad-core, 1333MHz system bus, and 4MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core, 1333MHz system bus, and 6MB L2 cache									• Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention					
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk					
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; Non-italics: standard memory in one socket; one socket available														
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter									Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3					
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7														
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive														
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar														
eSATA port	None									Supports ThinkVantage® technologies					
Diskette drive	None														
Media reader	None														
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									GREENGUARD® certified RoHS-compliant					
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	One internal speaker for business audio														
IEEE 1394	None									Limited Warranty¹ ☞ 3-year parts and labor ☞ International Warranty Service⁹ ☞ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ☞ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ☞ Other ThinkPlus services at lenovo.com/thinkplus/warranty ☞ Post warranty maintenance services available ☞ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	None														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo									Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) Preloaded applications⁵ (only some listed) • Some: Education software - VitalSource Library School Edition - Adobe® Elements - Photoshop Elements 7 - Premiere Elements 7 • Rescue and Recovery™ • McAfee® VirusScan® Plus (30-day) • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)					
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch														
						Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 - Super Multi-Burner DL DVD±RW SATA Drive 41N5620 - Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 - DisplayPort to Single-link DVI-D Cable 45J7915 - ADD2 DVI-D Monitor Connection (HDCP) 43R1985 - ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 - NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635 - NVIDIA Quadro® 256MB NVS 290 43R1765 - More accessories on O-M58E sheet - Acc Guide in pdf lenovo.com/accessoriesguide - Other accessories at lenovo.com/accessories									

See footnotes for important warranty information

☞ US models announced March 24, 2009; previous models on March 10, 2009

☞ US models withdrawn effective October or December 2009

	Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date
⚡	M58e	7298-H9U	4x4	Pentium E5300	2.60	2MB	2	2GB	160GB ²	None	DVD±RW	GMA	XP Pro	Educ	Jul 09
⚡	M58e	7298-H6U	4x4	Core 2 Duo E7500	2.93	3MB	2	1GB	160GB	None	DVD	GMA	XP Pro		Jul 09
⚡	M58e	7298-H8U	4x4	Core 2 Duo E7500	2.93	3MB	2	2GB	160GB	None	DVD±RW	GMA	XP Pro	Educ	Jul 09
	M58e	7298-H7U	4x4	Core 2 Duo E7500	2.93	3MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro		Jul 09
• These models have a 3-year limited warranty¹															
Positioning Processor										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 					
Implementation															
Memory										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk					
Graphics										Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3					
SATA disk										Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement					
SATA controller															
SATA DVD															
SATA DVD±RW															
SATA cables															
eSATA port										Supports ThinkVantage® technologies					
Diskette drive															
Media reader															
Chipset															
Front ports															
Rear ports										GREENGUARD® certified RoHS-compliant					
Rear audio ports															
Audio															
Speaker															
IEEE 1394															
Ethernet										Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					
Intel AMT															
Modem															
Security chip															
Keyboard															
Mouse															
Power supply															
Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) Preloaded applications⁵ • <i>Some:</i> Education software - VitalSource Library School Edition - Adobe® Elements – Photoshop Elements 7 – Premiere Elements 7 • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)										Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 - DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 - Super Multi-Burner DL DVD±RW SATA Drive 41N5620 - Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 - DisplayPort to Single-link DVI-D Cable 45J7915 - ADD2 DVI-D Monitor Connection (HDCP) 43R1985 - ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 - NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635 - NVIDIA Quadro® 256MB NVS 290 43R1765 - More accessories on O-M58E sheet - Acc Guide in pdf lenovo.com/accessoriesguide - Other accessories at lenovo.com/accessories					

See footnotes for important warranty information

US models announced July 7, 2009

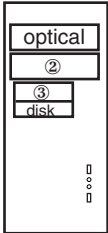
⚡ US models withdrawn effective December 2009

ThinkCentre® M58e Tower (7298) - XP with Win 7 License

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e	7298-N1U	4x4	Pentium E6300	2.80	2MB	2	1GB	250GB ²	None	DVD	GMA	XP Pro		Oct 09
M58e	7298-N2U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro		Oct 09
M58e	7298-N3U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	Educ	Oct 09
M58e	7298-M9U	4x4	Core 2 Quad Q8400	2.66	4MB	4	2GB	250GB	None	DVD±RW	GMA	XP Pro		Oct 09

• These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache Processor in LGA775 socket		Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 	
Implementation				
Memory	1GB or 2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-Italics:</i> standard memory in one socket; one socket available			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCI Express x16 (75w max) Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3	
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive			
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	One internal speaker for business audio			
IEEE 1394	None			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch			
Preloaded operating system²⁰		Accessories		Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC2-6400 DDR2 UDIMM 41U2977		
		2GB PC2-6400 DDR2 UDIMM 41U2978		
		250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015		
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
		DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618		
		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
		Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675		
		DisplayPort™ to Single-link DVI-D Cable 45J7915		
		ADD2 DVI-D Monitor Connection (HDCP) 43R1985		
		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636		
		NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635		
		NVIDIA Quadro® 256MB NVS 290 43R1765		
		More accessories on O-M58E sheet		
		Acc Guide in pdf lenovo.com/accessoriesguide		
		Other accessories at lenovo.com/accessories		
Preloaded applications⁵ (only some listed)				
• <i>Some:</i> Education software				
- VitalSource Library School Edition				
- Adobe® Elements				
- Photoshop Elements 7				
- Premiere Elements 7				
• Rescue and Recovery™				
• Client Security Solution™				
• ThinkVantage Productivity Center				
• ThinkVantage System Update				
• ThinkVantage Power Manager				
• McAfee® VirusScan® Plus (30 days of virus definitions)				
• Lenovo System Toolbox				
• Adobe Reader®				
• Windows Live™ Toolbar				
• Microsoft® Office 2007 Trial (60-day)				
• Roxio® Creator® Business Edition (DVD±RW)				
• Roxio MyDVD® (DVD±RW)				
• Corel® WinDVD® (DVD, DVD±RW)				

See footnotes for important warranty information

US models announced October 22, 2009

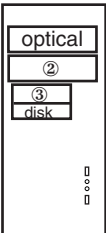
⚡ US model withdrawn effective December 2009

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(MIAM3-4) October 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7298-Q1U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB ²	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7298-Q2U	4x4	Core 2 Duo E7500	2.93	3MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7298-Q3U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10

- *These models have a 3-year limited warranty¹*

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core , 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core , 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket			Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 																																	
Implementation	Processor in LGA775 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk																																	
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																	
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																																	
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																																				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																				
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors																																				
eSATA port	None																																				
Diskette drive	None																																				
Media reader	None																																				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			Supports ThinkVantage® technologies																																	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																				
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)			GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																																	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																				
Speaker	One internal speaker for business audio																																				
IEEE 1394	None																																				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																																				
Intel AMT	None																																				
Modem	None																																				
Security chip	None																																				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																																				
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																				
Power supply	280 watts with variable speed fan, manual switch																																				
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td colspan="2">More accessories on O-M58E sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>				1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	More accessories on O-M58E sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
1GB PC2-6400 DDR2 UDIMM	41U2977																																				
2GB PC2-6400 DDR2 UDIMM	41U2978																																				
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015																																				
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																																				
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																																				
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																																				
Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675																																				
DisplayPort™ to Single-link DVI-D Cable	45J7915																																				
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																																				
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																																				
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More accessories on O-M58E sheet																																					
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Other accessories at lenovo.com/accessories																																					

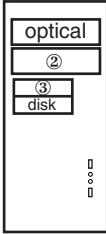
Personal Systems Reference (PSREF)

- *These models have a 3-year limited warranty¹*

See footnotes for important warranty information
US models announced October 22, 2009

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁶	SATA disk	2nd Disk Bay	SATA optical	Graphics	Vista preload	Vista logo	Global (G) GMP (P)	Avail date
M58e	7307-A1U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB ²	None	DVD±RW	GMA	Business32	Basic	G P	Apr 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 																								
Implementation	Processor in FC-LGA8 package in LGA775 socket																											
Memory	2GB std , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available																											
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																											
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Bay ① 5.25", 1.6" high, access, std optical																								
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7			Bay ② 5.25", 1.6" high, access, open																								
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			Bay ③ 3.5", 1" high, access, open (reader/diskette)																								
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors			Bay ④ 3.5", 1" high, no access, std disk																								
eSATA port	None			Slot 1: half-length, full-height, PCI Express x16 (75w max)																								
Diskette drive	None			Slot 2: half-length, full-height, PCI Express x1																								
Media reader	None			Slot 3: half-length, full-height, 32-bit PCI 2.3																								
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			Slot 4: half-length, full-height, 32-bit PCI 2.3																								
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																								
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																											
Speaker	One internal speaker for business audio																											
IEEE 1394	None																											
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																											
Intel AMT	None																											
Modem	None																											
Security chip	None																											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																											
Power supply	280 watts with variable speed fan, manual switch																											
Preloaded operating system²⁰ - Genuine Windows® Vista® Business 32				Supports ThinkVantage® technologies																								
Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				GREENGUARD® certified RoHS-compliant																								
Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr></table> More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
1GB PC2-6400 DDR2 UDIMM	41U2977																											
2GB PC2-6400 DDR2 UDIMM	41U2978																											
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NVIDIA Quadro® 256MB NVS 290	43R1765																											

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁶	SATA disk	2nd Disk Bay	SATA optical	Graphics	ENERGY STAR 5.0	Win7 preload	Global (G) GMP (P)	Avail date
M58e	7843-A1U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	250GB ²	None	DVD±RW	GMA	ES50	Pro 32	G P	Oct 09

- This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket		optical ② ③ disk Bay 1																							
Implementation																										
Memory	2GB std , 4GB max ⁶ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available																									
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter																									
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																									
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																									
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors																									
eSATA port	None																									
Diskette drive	None																									
Media reader	None																									
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																									
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																									
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																									
Speaker	One internal speaker for business audio																									
IEEE 1394	None																									
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																									
Intel AMT	None																									
Modem	None																									
Security chip	None																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																									
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																									
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																									
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) Accessories<table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort™ to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr></table> More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.7 lb (11.2 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCI Express x16 (75w max) Slot 2: half-length, full-height, PCI Express x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement Supports ThinkVantage® technologies Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort™ to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765
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Partial list of accessories supported on ThinkCentre M58e

Memory

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical

All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Tower 7268/7270/7298/7491/7307/7508/7847/7843/7258 support:

Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	ann 03/31/09
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Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

Small 7269/7279/7303/7506/7408/7514/7259 support Low Profile 35 watts max:

DisplayPort™ to Single-link DVI-D Cable ⁵⁰	45J7915	ann 08/05/08
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® Quadro® 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB FX 370 Low-Profile	55Y9275	ann 07/28/09
NVIDIA GeForce® 310 DMS59(2-DVI, 2-VGA)	57Y4167	ann 03/02/10

Tower 7268/7270/7298/7491/7307/7508/7847/7843/7258 support 75 watts max:

DisplayPort to Single-link DVI-D Cable ⁵⁰	45J7915	ann 08/05/08
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA Quadro 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA GeForce 9500GT 512MB (DP, DVI)	45K1635	ann 11/18/08
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

⁵⁰ Attaches to the ThinkCentre compatible DisplayPort graphics card.More information at www.lenovo.com/support/graphiccards**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.More information at www.lenovo.com/support/keyboards**Mouse**

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice**Multimedia**

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.**Monitors**

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision**Monitor Accessories⁴⁶**

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessories**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre M58 Eco Ultra Small



Lenovo ThinkCentre M58 Eco Ultra Small
with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre M58 Small



Lenovo ThinkCentre M58 Small
with Lenovo ThinkVision monitor



Lenovo ThinkCentre M58 Tower



Lenovo ThinkCentre M58 Tower
with dual Lenovo ThinkVision monitors

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date
M58	8820-ANU	1x2	Core 2 Duo E7500	2.93	2	2GB	250GB ^b	DVD±RW	GMA	VGA, DP	None	ES50	None	XP Pro	Nov 09

- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket		Eco Ultra Small		optical disk
Implementation	Processor in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk		
Memory	2GB std, 4GB max®, PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available		Slot 1: Low Profile, 32-bit PCI 2.3		
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display		• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation		
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts				Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec				
Speaker	One internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0				
Intel AMT	None				
Modem	None				
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				Supports ThinkVantage® technologies
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU				EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Preloaded operating system ²⁰		Accessories		Limited Warranty ¹	
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987		⇒ 3-year parts and labor	
		2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988		⇒ International Warranty Service®	
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)	
		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		⇒ Onsite service upgrade options (in eligible locations): ⁷	
Preloaded applications ⁵ (only some listed)		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)	
• Rescue and Recovery™		DisplayPort to Single-link DVI-D Cable 45J7915		• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)	
• Client Security Solution™		DisplayPort to VGA Monitor Cable 57Y4393		• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)	
• ThinkVantage Productivity Center		Lenovo Vertical PC and Monitor Stand II 41R4474		• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)	
• ThinkVantage System Update		ThinkCentre Ultra Small Under Desk Mount 40Y8625		• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)	
• McAfee® VirusScan® Plus (30 days of virus definitions)		More accessories on O-M58 sheet		⇒ ThinkPlus services at lenovo.com/thinkplus/warranty	
• Lenovo System Toolbox		Acc Guide in pdf lenovo.com/accessoriesguide		⇒ Post warranty maintenance services available	
• Adobe® Reader®		Other accessories at lenovo.com/accessories		⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378	
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD±RW)					

ThinkCentre® M58 Eco Ultra Small (8820) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

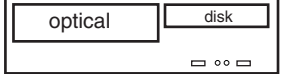
Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
M58	8820-AQU	1x2	Core 2 Duo E7500	2.93	2	2GB	250GB ^b	DVD±RW	GMA	VGA, DP	None	ES50	None	Pro 32	None	Jan 10

- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket			Eco Ultra Small optical disk			
Implementation	Processor in LGA775 socket						
Memory	2GB std, 4GB max ^a , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk			
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display			Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation			
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive						
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar						
eSATA port	None						
Diskette drive	None			Supports ThinkVantage® technologies			
Media reader	None						
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)						
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)						
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec						
Speaker	One internal speaker for business audio						
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0						
Intel AMT	None						
Modem	None						
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo						
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU						
Preloaded operating system²⁰			Accessories				
- Genuine Windows® 7 Professional 32			1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987				
Preloaded applications⁵ (only some listed)			2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988				
• Rescue and Recovery™			500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990				
• Password Manager			1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918				
• ThinkVantage System Update			Super Multi-Burner DL DVD±RW SATA Drive 41N5620				
• ThinkVantage Power Manager			DisplayPort to Single-link DVI-D Cable 45J7915				
• ThinkVantage Toolbox			DisplayPort to VGA Monitor Cable 57Y4393				
• Lenovo Online Data Backup			Lenovo Vertical PC and Monitor Stand II 41R4474				
• Norton™ Internet Security 2009 (30 days of virus definitions)			ThinkCentre Ultra Small Under Desk Mount 40Y8625				
• Adobe® Reader®			More accessories on O-M58 sheet				
• Adobe Flash® Player			Acc Guide in pdf lenovo.com/accessoriesguide				
• Microsoft® Office 2007 Trial (60-day)			Other accessories at lenovo.com/accessories				
• Roxio® Creator® Business Edition (DVD±RW)							
• Roxio MyDVD® (DVD±RW)							

See footnotes for important warranty information
US model announced January 12, 2010

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(MLAN4-23) January 2010

	Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Preload	Educ	Global	Avail date								
  	M58	7359-B5U	1x2	Pentium E5300	2.60	2	2GB	160GB ²	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro			Feb 09								
	M58	7359-B8U	1x2	Pentium E5300	2.60	2	2GB	160GB	DVD±RW	GMA	VGA, DP		ES50	No	XP Pro			Apr 09								
	M58	7359-B1U	1x2	Core 2 Duo E7400	2.80	2	1GB	160GB	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro			Feb 09								
	M58	7359-B2U	1x2	Core 2 Duo E7400	2.80	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro			Feb 09								
	M58	7359-B3U	1x2	Core 2 Duo E7500	2.93	2	1GB	160GB	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro			Feb 09								
	M58	7359-B4U	1x2	Core 2 Duo E7500	2.93	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro			Feb 09								
	M58	7359-B6U	1x2	Core 2 Duo E7400	2.80	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	Bus32	Gbl		Feb 09								
• These models have a 3-year limited warranty ¹																										
Positioning Processor		Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E5300 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										Eco Ultra Small														
Implementation		Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3														
Memory		1GB or 2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available										• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation														
Graphics		Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (<i>XP Pro models</i> : up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]; <i>Vista models</i> : up to 765MB [<i>2GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some</i> : DisplayPort to Single-link DVI-D Cable										Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement														
DP dongle		<i>Some</i> : DisplayPort to Single-link DVI-D Cable																								
SATA disk		160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Supports ThinkVantage® technologies														
SATA controller		Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																								
SATA DVD		<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive										EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant														
SATA DVD±RW		<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																								
SATA cables		Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar										Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378														
eSATA port		None																								
Diskette drive		None																								
Media reader		None																								
Chipset		Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																								
Front ports		Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																								
Rear ports		Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																								
Internal connector		Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																								
Rear audio ports		Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																								
Audio		High Definition (HD) Audio, Analog Devices AD1882 codec																								
Speaker		One internal speaker for business audio																								
Ethernet		Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																								
Intel AMT		None																								
Modem		None																								
Security chip		Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																								
Keyboard		Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																								
Mouse		Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																								
Power supply		External AC/DC adapter, 130 watts, autosensing, 87% PSU																								
Preloaded operating system²⁰				Accessories																						
- <i>Some</i> : Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)				1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987																						
				2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988																						
				500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990																						
				1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918																						
- <i>Some</i> : Genuine Windows Vista Business 32				DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618																						
				Super Multi-Burner DL DVD±RW SATA Drive 41N5620																						
◇ <i>Vista models</i> : Vista Premium logo				DisplayPort to Single-link DVI-D Cable 45J7915																						
				DisplayPort to VGA Monitor Cable 57Y4393																						
				Lenovo Vertical PC and Monitor Stand II 41R4474																						
				ThinkCentre Ultra Small Under Desk Mount 40Y8625																						
				More accessories on O-M58 sheet																						
Preloaded applications⁵ (all OSes)				Acc Guide in pdf lenovo.com/accessoriesguide																						
• Rescue and Recovery™				Other accessories at lenovo.com/accessories																						
• Client Security Solution™																										
• ThinkVantage Productivity Center																										
• ThinkVantage System Update																										
• ThinkVantage Power Manager (Vista)																										
• McAfee® VirusScan® Plus (30 days of virus definitions)																										
• Lenovo System Toolbox																										
• Adobe® Reader®																										
• Microsoft® Office 2007 Trial (60-day)																										
• Roxio® Creator® Business Edition (DVD±RW)																										
• Roxio MyDVD® (DVD±RW)																										
• Corel® WinDVD® (DVD, DVD±RW)																										

See footnotes for important warranty information

 US model announced April 7, 2009; previous models on January 20, 2009 US models withdrawn effective October 2009© Lenovo
(MLAN2-2) April 2009

ThinkCentre® M58 Eco Ultra Small (7359) - XP with Win 7 License

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro Preload	Global Educ	Avail date
M58	7359-DUU	1x2	Pentium E6300	2.80	2	2GB	250GB ²	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Oct 09
M58	7359-DVU	1x2	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP		ES50	No	XP Pro	Oct 09
⚡ M58	7359-DWU	1x2	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro Educ	Oct 09

• *These models have a 3-year limited warranty¹*

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache		Eco Ultra Small		optical disk
Implementation	Processor in LGA775 socket				
Memory	2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3		
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some</i> : DisplayPort to Single-link DVI-D Cable		• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation		
DP dongle					
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1				
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive				
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec				
Speaker	One internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0				
Intel AMT	None				
Modem	None				
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU				
Preloaded operating system ²⁰		Accessories			
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC3-8500 DDR3 SODIMM (notebook)		43R1987	
		2GB PC3-8500 DDR3 SODIMM (notebook)		43R1988	
		500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990	
		1TB SATA 3.0Gb/s Disk (7200 rpm)		45J7918	
		DVD-ROM DL SATA 1.5Gb/s 16X-48X Max		41N5618	
		Super Multi-Burner DL DVD±RW SATA Drive		41N5620	
		Lenovo Vertical PC and Monitor Stand II		41R4474	
		ThinkCentre Ultra Small Under Desk Mount		40Y8625	
		DisplayPort to Single-link DVI-D Cable		45J7915	
		DisplayPort to VGA Monitor Cable		57Y4393	
		More accessories on O-M58 sheet			
		Acc Guide in pdf lenovo.com/accessoriesguide			
		Other accessories at lenovo.com/accessories			
Preloaded applications ⁵ (only some listed)					
• <i>Some</i> : Education software					
- VitalSource™ Library School Edition					
- Adobe® Elements					
- Photoshop Elements 6					
- Premiere Elements 4					
• Rescue and Recovery™					
• Client Security Solution™					
• ThinkVantage Productivity Center					
• ThinkVantage System Update					
• McAfee® VirusScan® Plus					
(30 days of virus definitions)					
• Lenovo System Toolbox					
• Adobe Reader®					
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD, DVD±RW)					
			Security		
			• Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement		
			Supports ThinkVantage® technologies		
			EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant		
			Limited Warranty ¹		
			⇒ 3-year parts and labor		
			⇒ International Warranty Service ⁹		
			⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)		
			⇒ Onsite service upgrade options (in eligible locations): ⁷		
			• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)		
			• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)		
			• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)		
			• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)		
			• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)		
			⇒ ThinkPlus services at lenovo.com/thinkplus/warranty		
			⇒ Post warranty maintenance services available		
			⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378		

Name	Type-model	Slot x bay	Processor	GHz Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
M58	7359-F5U	1x2	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	Pro 32	None Jan 10

- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket			Eco Ultra Small optical disk																									
Implementation	Processor in LGA775 socket																												
Memory	2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk																									
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display			Slot 1: Low Profile, 32-bit PCI 2.3																									
DP dongle	DisplayPort to Single-link DVI-D Cable			• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation																									
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																												
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																												
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																												
eSATA port	None																												
Diskette drive	None																												
Media reader	None																												
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																												
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																												
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																												
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																												
Speaker	One internal speaker for business audio																												
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																												
Intel AMT	None																												
Modem	None																												
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																												
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																												
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			Supports ThinkVantage® technologies																									
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant																									
Preloaded applications ⁵ • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				Accessories <table><tr><td>1GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1987</td></tr><tr><td>2GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1988</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>		1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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				Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																									

Name	Type-model	Slot x bay	Processor	GHz Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win 7 preload	Global (G) GMP (P)	Avail date
M58	7637-A2U	1x2	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	ES50	No	Pro 32	G P Nov 09

- *This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty*

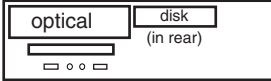
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket			Eco Ultra Small optical disk																				
Implementation																								
Memory	2GB std, 4GB max ⁶ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation																				
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display																							
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																							
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																							
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eSATA port	None																							
Diskette drive	None																							
Media reader	None																							
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																							
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																							
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Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																							
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																							
Speaker	One internal speaker for business audio																							
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																							
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Modem	None																							
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																							
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																							
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																							
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				Supports ThinkVantage® technologies																				
Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				Accessories <table><tr><td>1GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1987</td></tr><tr><td>2GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1988</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr></table> More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories			1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625
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ThinkCentre Ultra Small Under Desk Mount	40Y8625																							
				Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																				

ThinkCentre® M58 Small (8910) - TopSeller (XP with Win 7 License)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHzCores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Chassis intr switch	Intel vPro	Preload	Global Educ	Avail date
M58	8910-APU	2x3	Pentium E5400	2.70	2	2GB	250GB ² DVD±RW	GMA	VGA, DP	None		No	XP Pro	No	Jan 10
M58	8910-ALU	2x3	Pentium E6300	2.80	2	2GB	250GB DVD±RW	GMA	VGA, DP	None	Switch	No	XP Pro	No	Nov 09
M58	8910-AMU	2x3	Core 2 Duo E7500	2.93	2	2GB	250GB DVD±RW	GMA	VGA, DP	None		No	XP Pro	No	Nov 09
M58	8910-ATU	2x3	Core 2 Quad Q9500	2.83	4	4GB	320GB DVD±RW	GMA	VGA, DP	None		No	XP Pro	No	Mar 10

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E5400 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Pentium Processor E6300 with dual-core , 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core , 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket			Small  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
Memory	2GB or 4GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available			
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display			
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar			
eSATA port	One external SATA (eSATA) port			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0			
Intel AMT	None			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs			
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional				
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				
Accessories		1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet		
Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				
Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement • Some: Chassis intrusion switch				
Supports ThinkVantage® technologies				
GREENGUARD® certified RoHS-compliant				
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service ⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations): ⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378				

See footnotes for important warranty information

US model announced February 23, 2010; previous models on November 3 or December 15, 2009

US model withdrawn effective January 2010

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(MLAN4-11) March 2010

ThinkCentre® M58 Small (8910) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58	8910-AQU	2x3	Pentium E5400	2.70	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	None	Pro 32	None	Jan 10
M58	8910-ARU	2x3	Core 2 Duo E7500	2.93	2	2GB	250GB	DVD±RW	GMA	VGA, DP	None	None	Pro 32	None	Jan 10
M58	8910-AUU	2x3	Core 2 Quad Q9500	2.83	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	None	Pro 32	None	Mar 10
M58	8910-ASU	2x3	Core 2 Duo E7500	2.93	2	4GB	320GB	DVD±RW	GMA	VGA, DP	None	None	Pro 64	None	Mar 10

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	Small optical disk (in rear) Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																					
Implementation	Processor in LGA775 socket																						
Memory	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available																						
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display																						
SATA disk	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement																					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																						
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																						
eSATA port	One external SATA (eSATA) port	Supports ThinkVantage® technologies																					
Diskette drive	None																						
Media reader	None																						
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMC® SCH5617 Super I/O																						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	GREENGUARD® certified RoHS-compliant																					
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA																						
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																						
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																					
Speaker	One internal speaker for business audio																						
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																						
Intel AMT	None																						
Modem	None																						
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																						
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																						
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs																						
Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)			Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB FX 370 LP</td><td>55Y9275</td></tr></table> More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370 LP	55Y9275
1GB PC3-8500 DDR3 UDIMM	45J5434																						
2GB PC3-8500 DDR3 UDIMM	45J5435																						
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																						
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																						
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																						
DisplayPort to Single-link DVI-D Cable	45J7915																						
DisplayPort to VGA Monitor Cable	57Y4393																						
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																						
NVIDIA® Quadro® 256MB NVS 290	43R1765																						
NVIDIA Quadro 256MB FX 370 LP	55Y9275																						

See footnotes for important warranty information

US models announced February 23, 2010; previous models on January 12, 2010

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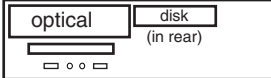
- ***These models have a 3-year limited warranty¹***

See footnotes for important warranty information
US models announced January 20 or April 7, 2009
x US models withdrawn effective October or December 2009

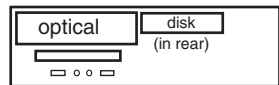
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ThinkCentre® M58 Small (7360) - XP with Win 7 License

Personal Systems Reference (PSREF)

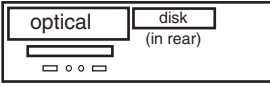
Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58	7360-EFU	2x3	Pentium E6300	2.80	2	1GB	250GB ²	DVD	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro		Nov 09
M58	7360-EDU	2x3	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro		Nov 09
M58	7360-EGU	2x3	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro	Educ	Nov 09
M58	7360-DBU	2x3	Core 2 Quad Q8400	2.66	4	2GB	250GB	DVD±RW	GMA	VGA, DP		None	XP Pro		Nov 09
M58	7360-ECU	2x3	Core 2 Quad Q8400	2.66	4	2GB	250GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	None	XP Pro		Nov 09
• These models have a 3-year limited warranty ¹															
Positioning	Ultimate security, stability, and manageability for the enterprise									Small					
Processor	Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache														
Implementation	Processor in LGA775 socket									Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)					
Memory	1GB or 2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available									Slot 1: Low Profile, PCI Express 2.0 x16* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models					
Graphics	Some: Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display Some: ATI™ Radeon™ HD 3470, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts									• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation					
DP dongle	Some: DisplayPort to Single-link DVI-D Cable														
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support														
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive														
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar														
eSATA port	One external SATA (eSATA) port														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0														
Intel AMT	None														
Modem	None									Supports ThinkVantage® technologies					
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant									GREENGUARD® certified RoHS-compliant					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo									Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo														
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs														
Preloaded operating system²⁰			Accessories												
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional			1GB PC3-8500 DDR3 UDIMM			45J5434									
			2GB PC3-8500 DDR3 UDIMM			45J5435									
			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990									
			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918									
			DVD-ROM DL SATA 1.5Gb/s 16X-48X Max			41N5618									
			Super Multi-Burner DL DVD±RW SATA Drive			41N5620									
			DisplayPort to Single-link DVI-D Cable			45J7915									
			DisplayPort to VGA Monitor Cable			57Y4393									
			ATI Radeon HD 3470 256MB (DP, VGA)			45K1636									
			NVIDIA® Quadro® 256MB NVS 290			43R1765									
			NVIDIA Quadro 256MB FX 370 LP			55Y9275									
			More accessories on O-M58 sheet												
			Acc Guide in pdf lenovo.com/accessoriesguide												
			Other accessories at lenovo.com/accessories												
Preloaded applications⁵ (only some listed)															
• Some: Education software															
- VitalSource™ Library School Edition															
- Adobe® Elements															
- Photoshop Elements 6															
- Premiere Elements 4															
• Rescue and Recovery™															
• Client Security Solution™															
• ThinkVantage Productivity Center															
• ThinkVantage System Update															
• McAfee® VirusScan® Plus (30 days of virus definitions)															
• Lenovo System Toolbox															
• Adobe Reader®															
• Microsoft® Office 2007 Trial (60-day)															
• Roxio® Creator® Business Edition (DVD±RW)															
• Roxio MyDVD® (DVD±RW)															
• Corel® WinDVD® (DVD, DVD±RW)															

See footnotes for important warranty information
 US models announced October 22, 2009
 ⚠ US model withdrawn effective December

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date	
M58	7360-EHU	2x3	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	Pro 32	None	Jan 10	
• This model has a 3-year limited warranty ¹																
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache									Small 		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation				
Implementation	Processor in LGA775 socket															
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available															
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display															
DP dongle	DisplayPort to Single-link DVI-D Cable															
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts															
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1															
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors															
eSATA port	One external SATA (eSATA) port															
Diskette drive	None															
Media reader	None															
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O									Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA															
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec															
Speaker	One internal speaker for business audio															
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0															
Intel AMT	None															
Modem	None															
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo															
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs															
Preloaded operating system ²⁰			Accessories			Supports ThinkVantage® technologies										
- Genuine Windows® 7 Professional 32			1GB PC3-8500 DDR3 UDIMM			45J5434										
Preloaded applications ⁵			2GB PC3-8500 DDR3 UDIMM			45J5435										
• Rescue and Recovery™			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990										
• Password Manager			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918										
• ThinkVantage System Update			Super Multi-Burner DL DVD±RW SATA Drive			41N5620										
• ThinkVantage Power Manager			DisplayPort to Single-link DVI-D Cable			45J7915										
• ThinkVantage Toolbox			DisplayPort to VGA Monitor Cable			57Y4393										
• Lenovo Online Data Backup			ATI™ Radeon™ HD 3470 256MB (DP, VGA)			45K1636										
• Norton™ Internet Security 2009			NVIDIA® Quadro® 256MB NVS 290			43R1765										
(30 days of virus definitions)			NVIDIA Quadro 256MB FX 370 LP			55Y9275										
• Adobe® Reader®			More accessories on O-M58 sheet													
• Adobe Flash® Player			Acc Guide in pdf lenovo.com/accessoriesguide													
• Microsoft® Office 2007 Trial (60-day)			Other accessories at lenovo.com/accessories													
• Roxio® Creator® Business Edition (DVD±RW)																
• Roxio MyDVD® (DVD±RW)																
												GREENGUARD® certified RoHS-compliant				
												Limited Warranty ¹				
												⇒ 3-year parts and labor				
												⇒ International Warranty Service ⁹				
												⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)				
												⇒ Onsite service upgrade options (in eligible locations): ⁷				
												• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)				
												• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)				
												• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)				
												• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)				
												• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)				
												⇒ ThinkPlus services at lenovo.com/thinkplus/warranty				
												⇒ Post warranty maintenance services available				
												⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378				

Name	Type-model	Slot x bay	Processor	GHz Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date
M58	6258-AJU	2x3	Pentium E5300	2.60	2	2GB 160GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Feb 09
M58	6258-AKU	2x3	Core 2 Duo E7400	2.80	2	1GB 160GB	DVD	GMA	VGA, DP		ES50	No	XP Pro	Feb 09
M58	6258-AMU	2x3	Core 2 Duo E7400	2.80	2	2GB 160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Feb 09
M58	6258-APU	2x3	Core 2 Duo E7400	2.80	2	2GB 250GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Feb 09
M58	6258-ALU	2x3	Core 2 Duo E7500	2.93	2	1GB 160GB	DVD	GMA	VGA, DP		ES50	No	XP Pro	Feb 09
M58	6258-ANU	2x3	Core 2 Duo E7500	2.93	2	2GB 160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Feb 09
M58	6258-AQU	2x3	Core 2 Duo E7500	2.93	2	2GB 250GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	Feb 09
M58	6258-ASU	2x3	Pentium E5300	2.60	2	1GB 160GB	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	Bus32	Apr 09
M58	6258-ARU	2x3	Core 2 Duo E7400	2.80	2	2GB 160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	Bus32	Gbl Feb 09

• These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E5300 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache	Small 
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket	
Memory	1GB or 2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models
Graphics	<i>Some:</i> Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (<i>XP Pro:</i> up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]; <i>Vista:</i> up to 253MB [<i>1GB model</i>], 765MB [<i>2GB model</i>]); <i>Some:</i> ATI™ Radeon™ HD 3470 , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display	• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable	
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar	
eSATA port	One external SATA (eSATA) port	
Diskette drive	None	
Media reader	None	
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0	
Intel AMT	None	
Modem	None	
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	

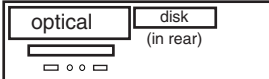
Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) - <i>Some:</i> Genuine Windows Vista Business 32 ♦ <i>Vista models:</i> Vista Premium logo Preloaded applications⁵ (all OSes; only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage System Update • ThinkVantage Power Manager (Vista) • McAfee® VirusScan® Plus (30-day) • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)	Accessories 1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
		Supports ThinkVantage® technologies
		Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant
		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service ⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations): ⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹

See footnotes for important warranty information
 US models announced January 20 or April 7, 2009

✗ US models withdrawn effective October or December 2009

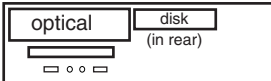
Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date	
M58	6258-B1U	2x3	Pentium E6300	2.80	2	1GB	250GB ²	DVD	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	No	Oct 09
M58	6258-AWU	2x3	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	No	Oct 09
M58	6258-AVU	2x3	Core 2 Quad Q8400	2.66	4	2GB	250GB	DVD±RW	GMA	VGA, DP		ES50	No	XP Pro	No	Oct 09

• *These models have a 3-year limited warranty¹*

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core , Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core , Virtualization Technology, 1333MHz system bus, and 4MB L2 cache Processor in LGA775 socket		Small  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																											
Implementation																														
Memory	1GB or 2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available																													
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some</i> : DisplayPort to Single-link DVI-D Cable																													
DP dongle																														
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																													
SATA DVD	<i>Some</i> : DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																													
SATA DVD±RW	<i>Some</i> : Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																													
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																													
eSATA port	One external SATA (eSATA) port																													
Diskette drive	None																													
Media reader	None																													
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																													
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA																													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																													
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																													
Speaker	One internal speaker for business audio																													
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																													
Intel AMT	None																													
Modem	None																													
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																													
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																													
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																													
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional																														
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)																														
Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16X-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	DVD-ROM DL SATA 1.5Gb/s 16X-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370 LP	55Y9275	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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Supports ThinkVantage® technologies																														
Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant																														
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹																														

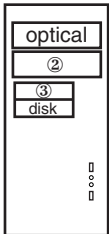
Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
M58	7638-A2U	2x3	Core 2 Duo E7500	2.93	2	1GB	160GB ²	DVD	GMA	VGA, DP	None	None	Bus32	G P	Aug 09

- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache		Small 
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	1GB std , 8GB max ⁶ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 253MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display		Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD	DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	One external SATA (eSATA) port		
Diskette drive	None		
Media reader	None		
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	None		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs		
Preloaded operating system²⁰		Accessories	
- Genuine Windows® Vista® Business 32		1GB PC3-8500 DDR3 UDIMM	45J5434
✦ Vista Premium logo		2GB PC3-8500 DDR3 UDIMM	45J5435
Preloaded applications⁵		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
• Client Security Solution™		DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618
• ThinkVantage Productivity Center		DisplayPort to Single-link DVI-D Cable	45J7915
• ThinkVantage System Update		DisplayPort to VGA Monitor Cable	57Y4393
• ThinkVantage Power Manager		ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636
• McAfee® VirusScan® Plus		NVIDIA® Quadro® 256MB NVS 290	43R1765
(30 days of virus definitions)		NVIDIA Quadro 256MB FX 370 LP	55Y9275
• Lenovo System Toolbox		More accessories on O-M58 sheet	
• Adobe® Reader®		Acc Guide in pdf lenovo.com/accessoriesguide	
• Microsoft® Office 2007 Trial (60-day)		Other accessories at lenovo.com/accessories	
• Corel® WinDVD® (DVD)			
			Supports ThinkVantage® technologies
			GREENGUARD® certified RoHS-compliant
			Limited Warranty¹
			⇒ 3-year parts and labor
			⇒ International Warranty Service⁹
			⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
			⇒ Onsite service upgrade options (in eligible locations):⁷
			• 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194)
			• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
			• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
			⇒ ThinkPlus services at lenovo.com/thinkplus/warranty
			⇒ Post warranty maintenance services available
			⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58	9960-AKU	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	None	XP Pro	None	Nov 09
M58	9960-ANU	4x4	Core 2 Quad Q9500	2.83	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	None	XP Pro	None	Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache			Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention																				
Implementation	Processor in LGA775 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3																				
Memory	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available																							
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display																							
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening																							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																							
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																							
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																							
eSATA port	None																							
Diskette drive	None																							
Media reader	None																							
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																							
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																							
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																							
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																							
Speaker	One internal speaker for business audio																							
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																							
Intel AMT	None																							
Modem	None																							
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																							
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																							
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																							
Preloaded operating system ²⁰													Accessories											
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional													1GB PC3-8500 DDR3 UDIMM				45J5434							
													2GB PC3-8500 DDR3 UDIMM				45J5435							
													500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990							
													1TB SATA 3.0Gb/s Disk (7200 rpm)				45J7918							
Preloaded applications ⁵ (only some listed)													Super Multi-Burner DL DVD±RW SATA Drive				41N5620							
• Rescue and Recovery™													Blu-ray™ Burner SATA 1.5Gb/s Drive				45K1675							
• Client Security Solution™													DisplayPort to Single-link DVI-D Cable				45J7915							
• ThinkVantage Productivity Center													DisplayPort to VGA Monitor Cable				57Y4393							
• ThinkVantage System Update													ATI™ Radeon™ HD 3470 256MB (DP, VGA)				45K1636							
• McAfee® VirusScan® Plus (30 days of virus definitions)													NVIDIA® GeForce® 9500GT 512MB (DP, DVI)				45K1635							
• Lenovo System Toolbox													NVIDIA Quadro® 256MB NVS 290				43R1765							
• Adobe® Reader®													NVIDIA Quadro 256MB NVS 295				45K1669							
• Microsoft® Office 2007 Trial (60-day)													More accessories on O-M58 sheet											
• Roxio® Creator® Business Edition (DVD±RW)													Acc Guide in pdf lenovo.com/accessoriesguide											
• Roxio MyDVD® (DVD±RW)													Other accessories at lenovo.com/accessories											
• Corel® WinDVD® (DVD±RW)																								
													Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement											
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													GREENGUARD® certified RoHS-compliant											
													Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378											

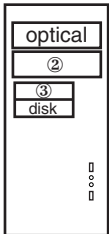
See footnotes for important warranty information

US model announced February 23, 2010; previous models on November 3, 2009

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	Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
	M58	9960-ALU	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	None	Pro 32	None	Jan 10
ES	M58	9960-APU	4x4	Core 2 Quad Q9500	2.83	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	None	Pro 32	None	Mar 10
ES	M58	9960-AMU	4x4	Core 2 Duo E7500	2.93	2	4GB	320GB	DVD±RW	GMA	VGA, DP	None	None	Pro 64	None	Mar 10

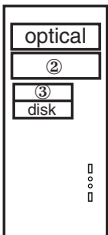
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache		Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 
Implementation	Processor in LGA775 socket		
Memory	2GB or 4GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display		
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening		Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar		
eSATA port	None		Supports ThinkVantage® technologies
Diskette drive	None		
Media reader	None		GREENGUARD® certified RoHS-compliant
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	None		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs		
Preloaded operating system²⁰		Accessories	
- Some: Genuine Windows® 7 Professional 32		1GB PC3-8500 DDR3 UDIMM	45J5434
- Some: Genuine Windows 7 Professional 64		2GB PC3-8500 DDR3 UDIMM	45J5435
Preloaded applications⁵ (only some listed)		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
• Password Manager		Super Multi-Burner DL DVD±RW SATA Drive	41N5620
• ThinkVantage System Update		Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675
• ThinkVantage Power Manager		DisplayPort to Single-link DVI-D Cable	45J7915
• ThinkVantage Toolbox		DisplayPort to VGA Monitor Cable	57Y4393
• Lenovo Online Data Backup		ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636
• Norton™ Internet Security 2009 (30 days of virus definitions)		NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635
• Adobe® Reader®		NVIDIA Quadro® 256MB NVS 290	43R1765
• Adobe Flash® Player		NVIDIA Quadro 256MB NVS 295	45K1669
• Microsoft® Office 2007 Trial (60-day)		More accessories on O-M58 sheet	
• Roxio® Creator® Business Edition (DVD±RW)		Acc Guide in pdf lenovo.com/accessoriesguide	
• Roxio MyDVD® (DVD±RW)		Other accessories at lenovo.com/accessories	

See footnotes for important warranty information

ES US models announced February 23, 2010; previous model on January 12, 2010

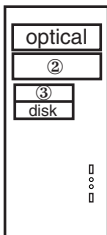
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(MLAN4-25) March 2010

	Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
☞	M58	7373-D3U	4x4	Pentium E5300	2.60	2	1GB	160GB ²	DVD	GMA	VGA, DP		None	XP Pro		Apr 09
	M58	7373-BTU	4x4	Pentium E5300	2.60	2	2GB	160GB	DVD±RW	GMA	VGA, DP		None	XP Pro		Feb 09
☞	M58	7373-BUU	4x4	Core 2 Duo E7400	2.80	2	1GB	160GB	DVD	GMA	VGA, DP		None	XP Pro		Feb 09
☞	M58	7373-BWU	4x4	Core 2 Duo E7400	2.80	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro		Feb 09
	M58	7373-BVU	4x4	Core 2 Duo E7500	2.93	2	1GB	160GB	DVD	GMA	VGA, DP		None	XP Pro		Feb 09
	M58	7373-D1U	4x4	Core 2 Duo E7500	2.93	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro		Feb 09
☞	M58	7373-D2U	4x4	Core 2 Duo E7400	2.80	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	Bus32	Gbl	Feb 09
• These models have a 3-year limited warranty ¹																
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E5300 with dual-core , 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention					
Implementation	Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk					
Memory	1GB or 2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available										Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3					
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (<i>XP Pro models:</i> up to 512MB [<i>1GB models</i>], 1GB [<i>2GB models</i>]; <i>Vista models:</i> up to 768MB [<i>2GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> DisplayPort to Single-link DVI-D Cable															
DP dongle																
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts															
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1															
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive															
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar															
eSATA port	None															
Diskette drive	None															
Media reader	None															
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)															
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec															
Speaker	One internal speaker for business audio															
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0															
Intel AMT	None															
Modem	None															
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo															
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs															
Preloaded operating system²⁰							Accessories									
- <i>Some:</i> Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)							1GB PC3-8500 DDR3 UDIMM 45J5434									
- <i>Some:</i> Genuine Windows Vista Business 32							2GB PC3-8500 DDR3 UDIMM 45J5435									
☞ <i>Vista models:</i> Vista Premium logo							500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990									
Preloaded applications⁵ (all OSes)							1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918									
• Rescue and Recovery™							DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618									
• Client Security Solution™							Super Multi-Burner DL DVD±RW SATA Drive 41N5620									
• ThinkVantage Productivity Center							Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675									
• ThinkVantage System Update							DisplayPort to Single-link DVI-D Cable 45J7915									
• ThinkVantage Power Manager (Vista)							DisplayPort to VGA Monitor Cable 57Y4393									
• McAfee® VirusScan® Plus (30 days of virus definitions)							ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636									
• Lenovo System Toolbox							NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635									
• Adobe® Reader®							NVIDIA Quadro® 256MB NVS 290 43R1765									
• Microsoft® Office 2007 Trial (60-day)							NVIDIA Quadro 256MB NVS 295 45K1669									
• Roxio® Creator® Business Edition (DVD±RW)							More accessories on O-M58 sheet									
• Roxio MyDVD® (DVD±RW)							Acc Guide in pdf lenovo.com/accessoriesguide									
• Corel® WinDVD® (DVD, DVD±RW)							Other accessories at lenovo.com/accessories									
Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement																
Supports ThinkVantage® technologies																
GREENGUARD® certified RoHS-compliant																
Limited Warranty¹ ☞ 3-year parts and labor ☞ International Warranty Service⁹ ☞ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ☞ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ☞ ThinkPlus services at lenovo.com/thinkplus/warranty ☞ Post warranty maintenance services available ☞ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																

See footnotes for important warranty information
 US models announced January 20 or April 7, 2009
 ☞ US models withdrawn effective October or December 2009

ThinkCentre® M58 Tower (7373) - XP with Win 7 License

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date							
M58	7373-E5U	4x4	Pentium E6300	2.80	2	1GB	250GB ²	DVD	GMA	VGA, DP		None	XP Pro		Nov 09							
M58	7373-E6U	4x4	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP		None	XP Pro		Nov 09							
M58	7373-E7U	4x4	Pentium E6300	2.80	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	XP Pro	Educ	Nov 09							
M58	7373-E4U	4x4	Core 2 Quad Q8400	2.66	4	2GB	320GB	DVD±RW	GMA	VGA, DP		None	XP Pro		Nov 09							
M58	7373-E3U	4x4	Core 2 Quad Q8400	2.66	4	2GB	320GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	None	XP Pro		Nov 09							
• These models have a 3-year limited warranty ¹																						
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core , Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core , Virtualization Technology, 1333MHz system bus, and 4MB L2 cache									Tower												
Implementation	Processor in LGA775 socket									• Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention												
Memory	1GB or 2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available																					
Graphics	Some: Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display Some: ATI™ Radeon™ HD 3470, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 * used in some models												
DP dongle	Some: DisplayPort to Single-link DVI-D Cable																					
SATA disk	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement Supports ThinkVantage® technologies												
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																					
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																					
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																					
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																					
eSATA port	None																					
Diskette drive	None																					
Media reader	None																					
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									Supports ThinkVantage® technologies												
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																					
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																					
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																					
Speaker	One internal speaker for business audio									GREENGUARD® certified RoHS-compliant												
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																					
Intel AMT	None																					
Modem	None																					
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo									Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus® services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378												
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																					
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																					
Preloaded operating system ²⁰			Accessories																			
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional			1GB PC3-8500 DDR3 UDIMM			45J5434																
			2GB PC3-8500 DDR3 UDIMM			45J5435																
			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990																
			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918																
Preloaded applications ⁶ (only some listed)			DVD-ROM DL SATA 1.5Gb/s 16X-48X Max			41N5618																
• Some: Education software			Super Multi-Burner DL DVD±RW SATA Drive			41N5620																
- VitalSource™ Library School Edition			Blu-ray™ Burner SATA 1.5Gb/s Drive			45K1675																
- Adobe® Elements			DisplayPort to Single-link DVI-D Cable			45J7915																
- Photoshop Elements 6			DisplayPort to VGA Monitor Cable			57Y4393																
- Premiere Elements 4			ATI Radeon HD 3470 256MB (DP, VGA)			45K1636																
• Rescue and Recovery™			NVIDIA® GeForce® 9500GT 512MB (DP, DVI)			45K1635																
• Client Security Solution™			NVIDIA Quadro® 256MB NVS 290			43R1765																
• ThinkVantage Productivity Center			NVIDIA Quadro 256MB NVS 295			45K1669																
• ThinkVantage System Update			More accessories on O-M58 sheet																			
• McAfee® VirusScan® Plus (30 days of virus definitions)			Acc Guide in pdf lenovo.com/accessoriesguide																			
• Lenovo System Toolbox			Other accessories at lenovo.com/accessories																			
• Adobe Reader®																						
• Microsoft® Office 2007 Trial (60-day)																						
• Roxio® Creator® Business Edition (DVD±RW)																						
• Roxio MyDVD® (DVD±RW)																						
• Corel® WinDVD® (DVD, DVD±RW)																						

See footnotes for important warranty information
US models announced October 22, 2009
⚠ US model withdrawn effective December 2009

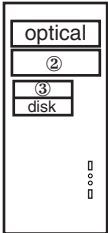
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(MLAN4-4) October 2009

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58	7373-EGU	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	Pro 32	None	Jan 10
• This model has a 3-year limited warranty ¹															

Positioning	Ultimate security, stability, and manageability for the enterprise										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk ④	
Processor	Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache											
Implementation	Processor in LGA775 socket											
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available											
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display											
DP dongle	DisplayPort to Single-link DVI-D Cable										Bay ① 5.25", 1.6" high, access, std optical	
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Bay ② 5.25", 1.6" high, access, open	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1										Bay ③ 3.5", 1" high, access, open (reader/diskette)	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										Bay ④ 3.5", 1" high, no access, std disk	
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar										Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)	
eSATA port	None										Slot 2: half-length, full-height, PCIe x1	
Diskette drive	None										Slot 3: half-length, full-height, 32-bit PCI 2.3	
Media reader	None										Slot 4: half-length, full-height, 32-bit PCI 2.3	
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O										Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Supports ThinkVantage® technologies	
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec											
Speaker	One internal speaker for business audio											
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0											
Intel AMT	None											
Modem	None											
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										GREENGUARD® certified RoHS-compliant	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo											
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs											
Preloaded operating system²⁰							Accessories			Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		
- Genuine Windows® 7 Professional 32							1GB PC3-8500 DDR3 UDIMM 45J5434					
Preloaded applications⁵							2GB PC3-8500 DDR3 UDIMM 45J5435					
• Rescue and Recovery™							500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990					
• Password Manager							1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918					
• ThinkVantage System Update							Super Multi-Burner DL DVD±RW SATA Drive 41N5620					
• ThinkVantage Power Manager							Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675					
• ThinkVantage Toolbox							DisplayPort to Single-link DVI-D Cable 45J7915					
• Lenovo Online Data Backup							DisplayPort to VGA Monitor Cable 57Y4393					
• Norton™ Internet Security 2009 (30 days of virus definitions)							ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636					
• Adobe® Reader®							NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635					
• Adobe Flash® Player							NVIDIA Quadro® 256MB NVS 290 43R1765					
• Microsoft® Office 2007 Trial (60-day)							NVIDIA Quadro 256MB NVS 295 45K1669					
• Roxio® Creator® Business Edition (DVD±RW)							More accessories on O-M58 sheet					
• Roxio MyDVD® (DVD±RW)							Acc Guide in pdf lenovo.com/accessoriesguide					
							Other accessories at lenovo.com/accessories					

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Preload	Educ	Global	Avail date
M58	9728-A6U	4x4	Pentium E6300	2.80	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP		ES50	No	XP Pro	No	Oct 09	
M58	9728-A7U	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	No	Oct 09	
M58	9728-A8U	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	ES50	No	XP Pro	No	Oct 09	

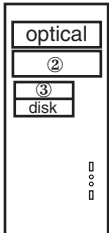
• These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core , Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core , Virtualization Technology, 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 						
Implementation	Processor in LGA775 socket										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 * used in some models						
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available																
Graphics	<i>Some:</i> Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> ATI™ Radeon™ HD 3470 , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts DisplayPort to Single-link DVI-D Cable																
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable																
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts										Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement Supports ThinkVantage® technologies Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant						
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378						
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																
Speaker	One internal speaker for business audio																
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																
Intel AMT	None																
Modem	None																
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																
Preloaded operating system²⁰				Accessories													
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				1GB PC3-8500 DDR3 UDIMM 45J5434													
				2GB PC3-8500 DDR3 UDIMM 45J5435													
				500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990													
				1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918													
				Super Multi-Burner DL DVD±RW SATA Drive 41N5620													
				Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675													
				DisplayPort to Single-link DVI-D Cable 45J7915													
				DisplayPort to VGA Monitor Cable 57Y4393													
				ATI Radeon HD 3470 256MB (DP, VGA) 45K1636													
				NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635													
				NVIDIA Quadro® 256MB NVS 290 43R1765													
				NVIDIA Quadro 256MB NVS 295 45K1669													
				More accessories on O-M58 sheet													
				Acc Guide in pdf lenovo.com/accessoriesguide													
				Other accessories at lenovo.com/accessories													

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date			
M58	9728-A5U	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	ES50	No	Pro 32	Gbl	Oct 09			
• This model has a 3-year limited warranty ¹																			
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core , Virtualization Technology, 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket									Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk ④ Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3			Memory					2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display																		
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																		
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																		
eSATA port	None																		
Diskette drive	None																		
Media reader	None																		
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									Supports ThinkVantage® technologies									
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)									Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec									Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378									
Speaker	One internal speaker for business audio																		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																		
Intel AMT	None																		
Modem	None																		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																		
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																		
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																		
Preloaded operating system ²⁰			Accessories																
- Genuine Windows® 7 Professional 32			1GB PC3-8500 DDR3 UDIMM			45J5434													
Preloaded applications ⁵ (only some listed)			2GB PC3-8500 DDR3 UDIMM			45J5435													
• Rescue and Recovery™			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990													
• Password Manager			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918													
• ThinkVantage System Update			Super Multi-Burner DL DVD±RW SATA Drive			41N5620													
• ThinkVantage Power Manager			Blu-ray™ Burner SATA 1.5Gb/s Drive			45K1675													
• ThinkVantage Toolbox			DisplayPort to Single-link DVI-D Cable			45J7915													
• Lenovo Online Data Backup			DisplayPort to VGA Monitor Cable			57Y4393													
• Norton™ Internet Security 2009			ATI™ Radeon™ HD 3470 256MB (DP, VGA)			45K1636													
(30 days of virus definitions)			NVIDIA® GeForce® 9500GT 512MB (DP, DVI)			45K1635													
• Adobe® Reader®			NVIDIA Quadro® 256MB NVS 290			43R1765													
• Adobe Flash® Player			NVIDIA Quadro 256MB NVS 295			45K1669													
• Microsoft® Office 2007 Trial (60-day)			More accessories on O-M58 sheet																
• Roxio® Creator® Business Edition (DVD±RW)			Acc Guide in pdf lenovo.com/accessoriesguide																
• Roxio MyDVD® (DVD±RW)			Other accessories at lenovo.com/accessories																

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Win 7 preload	Global (G) GMP (P)	Avail date
M58	7639-A1U	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	None	Pro 32	G P	Nov 09

- This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket		Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 
Implementation			
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available		
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display		
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Bay ① 5.25", 1.6" high, access, std optical
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		Bay ② 5.25", 1.6" high, access, open
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		Bay ③ 3.5", 1" high, access, open (reader/diskette)
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar		Bay ④ 3.5", 1" high, no access, std disk
eSATA port	None		Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)
Diskette drive	None		Slot 2: half-length, full-height, PCIe x1
Media reader	None		Slot 3: half-length, full-height, 32-bit PCI 2.3
			Slot 4: half-length, full-height, 32-bit PCI 2.3
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	None		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		Supports ThinkVantage® technologies
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs		
Preloaded operating system²⁰		Accessories	GREENGUARD® certified RoHS-compliant
- Genuine Windows® 7 Professional 32		1GB PC3-8500 DDR3 UDIMM 45J5434	
Preloaded applications⁵ (only some listed)		2GB PC3-8500 DDR3 UDIMM 45J5435	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
• Rescue and Recovery™		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	
• Password Manager		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918	
• ThinkVantage System Update		Super Multi-Burner DL DVD±RW SATA Drive 41N5620	
• ThinkVantage Power Manager		Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675	
• ThinkVantage Toolbox		DisplayPort to Single-link DVI-D Cable 45J7915	
• Lenovo Online Data Backup		DisplayPort to VGA Monitor Cable 57Y4393	
• Norton™ Internet Security 2009 (30 days of virus definitions)		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636	
• Adobe® Reader®		NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635	
• Adobe Flash® Player		NVIDIA Quadro® 256MB NVS 290 43R1765	
• Microsoft® Office 2007 Trial (60-day)		NVIDIA Quadro 256MB NVS 295 45K1669	
• Roxio® Creator® Business Edition (DVD±RW)		More accessories on O-M58 sheet	
• Roxio MyDVD® (DVD±RW)		Acc Guide in pdf lenovo.com/accessoriesguide	
		Other accessories at lenovo.com/accessories	

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro Preload	Global Educ	Avail date
M58p	9961-AKU	1x2	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	ES50	vPro XP Pro	No	Nov 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket		Eco Ultra Small optical disk		
Implementation	Processor in LGA775 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3		
Memory	2GB std , 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available		• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation		
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement		
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar				
eSATA port	None		Supports ThinkVantage® technologies		
Diskette drive	None				
Media reader	None				
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec				
Speaker	One internal speaker for business audio		Supports ThinkVantage® technologies		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0				
Intel AMT	Intel Active Management Technology (iAMT)				
Modem	None				
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo				
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU				
Preloaded operating system²⁰		Accessories			
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional		1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M58 sheet			
Preloaded applications⁵ (only some listed)		Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
• Rescue and Recovery™					
• Client Security Solution™					
• ThinkVantage Productivity Center					
• ThinkVantage System Update					
• McAfee® VirusScan® Plus (30 days of virus definitions)					
• Lenovo System Toolbox					
• Adobe® Reader®					
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD±RW)					

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
M58p	9961-ALU	1x2	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	ES50	vPro	Pro 32	No	Jan 10

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

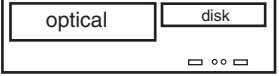
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket			Eco Ultra Small optical disk																							
Implementation				Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk																							
Memory	2GB std , 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Slot 1: Low Profile, 32-bit PCI 2.3																							
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display			• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation																							
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement																							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																										
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																										
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																										
eSATA port	None			Supports ThinkVantage® technologies																							
Diskette drive	None																										
Media reader	None																										
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant																							
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																										
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																										
Speaker	One internal speaker for business audio																										
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																										
Intel AMT	Intel Active Management Technology (iAMT)																										
Modem	None			Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																							
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																										
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																										
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																										
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				Accessories <table><tr><td>1GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1987</td></tr><tr><td>2GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1988</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td>More accessories on O-M58 sheet</td><td></td></tr></table> Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	More accessories on O-M58 sheet	
1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987																										
2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988																										
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																										
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																										
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Lenovo Vertical PC and Monitor Stand II	41R4474																										
ThinkCentre Ultra Small Under Desk Mount	40Y8625																										
More accessories on O-M58 sheet																											

ThinkCentre® M58p Eco Ultra Small (7479)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Vista preload	Global Educ	Avail date
M58p	7479-A4U	1x2	Core 2 Duo E8400	3.00	2	1GB	160GB ²	DVD	GMA	VGA, DP		ES50	vPro	Bus32	No	Dec 08
✖ M58p	7479-A3U	1x2	Core 2 Duo E8400	3.00	2	1GB	250GB	DVD±RW	GMA	VGA, DP		ES50	vPro	Bus32	No	Dec 08
M58p	7479-A6U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP		ES50	vPro	Bus32	No	Dec 08
M58p	7479-A8U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	Bus32	No	Dec 08
✖ M58p	7479-A9U	1x2	Core 2 Duo E8500	3.16	2	1GB	160GB	DVD	GMA	VGA, DP		ES50	vPro	Bus32	No	Dec 08
M58p	7479-ABU	1x2	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP		ES50	vPro	Bus32	No	Dec 08
M58p	7479-ACU	1x2	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	Bus32	No	Dec 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache	Eco Ultra Small	
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	1GB or 2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3	
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 253MB [1GB models], 765MB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> DisplayPort to Single-link DVI-D Cable	- Business black color; metal case 10.8" W X 9.4" D X 3.1" H 275mm W X 238mm D X 80mm H 9.2 lb (4.2 kg) in maximum configuration - Hinged toolless cover for easy serviceability - Toolless disk and optical drive removal - Toolless systemboard retention - System floor stand for vertical orientation	
DP dongle			
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar		
eSATA port	None		
Diskette drive	None		
Media reader	None		
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU		
Preloaded operating system ²⁰		Accessories	
- Genuine Windows® Vista® Business 32		1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987
✧ Vista Premium logo		2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988
Preloaded applications ⁵		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
• Client Security Solution™		DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618
• ThinkVantage Productivity Center		Super Multi-Burner DL DVD±RW SATA Drive	41N5620
• ThinkVantage System Update		DisplayPort to Single-link DVI-D Cable	45J7915
• ThinkVantage Power Manager		DisplayPort to VGA Monitor Cable	57Y4393
• McAfee® VirusScan® Plus		Lenovo Vertical PC and Monitor Stand II	41R4474
(30 days of virus definitions)		ThinkCentre Ultra Small Under Desk Mount	40Y8625
• Lenovo System Toolbox		More accessories on O-M58 sheet	
• Adobe® Reader®		Acc Guide in pdf lenovo.com/accessoriesguide	
• Microsoft® Office 2007 Trial (60-day)		Other accessories at lenovo.com/accessories	
• Roxio® Creator® Business Edition			
(DVD±RW)			
• Roxio MyDVD® (DVD±RW)			
• Corel® WinDVD® (DVD, DVD±RW)			
		Security	
		- Security chip (see information on left) - Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security - Power-on password - Administrator password - Hard disk password (user and master) - Boot sequence control - Boot without diskette, keyboard - Individual USB port disablement	
		Supports ThinkVantage® technologies	
		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant	
		Limited Warranty ¹	
		3-year parts and labor - International Warranty Service® - Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) - Onsite service upgrade options (in eligible locations):⁷ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) - ThinkPlus services at lenovo.com/thinkplus/warranty - Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

See footnotes for important warranty information

US models announced November 11, 2008

✖ US models withdrawn effective December 2009

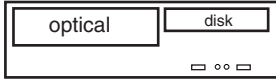
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(MLAN1-20) November 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date
M58p	7479-AJU	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No Apr 09
M58p	7479-AKU	1x2	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No Apr 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		Eco Ultra Small optical disk																									
Implementation	Processor in FC-LGA8 package in LGA775 socket																											
Memory	2GB std , 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3																									
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display		• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation																									
DP dongle	DisplayPort to Single-link DVI-D Cable																											
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement																									
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																											
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																											
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																											
eSATA port	None																											
Diskette drive	None		Supports ThinkVantage® technologies																									
Media reader	None																											
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																											
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant																									
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																											
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																											
Speaker	One internal speaker for business audio																											
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																											
Intel AMT	Intel Active Management Technology (iAMT)		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																									
Modem	None																											
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																											
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																											
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																											
Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)		Accessories <table><tr><td>1GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1987</td></tr><tr><td>2GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1988</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)																												

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date	
M58p	7479-B9U	1x2	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	Pro	32	None	Jan 10
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • This model has a 3-year limited warranty¹																	
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket									Eco Ultra Small							
Implementation																	
Memory	2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available									Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3							
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display DisplayPort to Single-link DVI-D Cable									• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation							
DP dongle																	
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																
Speaker	One internal speaker for business audio																
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																
Intel AMT	Intel Active Management Technology (iAMT)																
Modem	None																
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32										Accessories							
Preloaded applications ⁵ • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)										1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987							
										2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988							
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												EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant					
												Limited Warranty ¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
M58p	6136-A1U	1x2	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	None	ES50	vPro	Bus32	G P	Dec 08

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Eco Ultra Small optical disk																										
Implementation	Processor in FC-LGA8 package in LGA775 socket																													
Memory	2GB std, 4GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3																										
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display			• Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation																										
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for improved chassis security • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Individual USB port disablement • Chassis intrusion switch																										
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																													
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																													
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar																													
eSATA port	None			Supports ThinkVantage® technologies																										
Diskette drive	None																													
Media reader	None																													
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant																										
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																													
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																													
Speaker	One internal speaker for business audio																													
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0			Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																										
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Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																													
Preloaded operating system²⁰ - Genuine Windows® Vista® Business 32 ⇧ Vista Premium logo Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				Accessories <table><tr><td>1GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1987</td></tr><tr><td>2GB PC3-8500 DDR3 SODIMM (notebook)</td><td>43R1988</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td>More accessories on O-M58 sheet</td><td></td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>			1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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Personal Systems Reference (PSREF)

See footnotes for important warranty information
US models announced November 3, 2009

ThinkCentre® M58p Small (9964) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58p	9964-ABU	2x3	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
M58p	9964-ACU	2x3	Core 2 Quad Q9400	2.66	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
M58p	9964-ADU	2x3	Core 2 Duo E8400	3.00	2	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 64	None	Mar 10

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

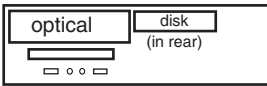
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket									Small optical disk (in rear) Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation					
Implementation															
Memory	2GB or 4GB std, 8GB max⁸, PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available														
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display														
SATA disk	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar														
eSATA port	One external SATA (eSATA) port														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O									Supports ThinkVantage® technologies					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									GREENGUARD® certified RoHS-compliant					
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)									Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec														
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Modem	None														
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Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo														
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs														
Preloaded operating system²⁰			Accessories												
- <i>Some:</i> Genuine Windows® 7 Professional 32			1GB PC3-8500 DDR3 UDIMM 45J5434												
			2GB PC3-8500 DDR3 UDIMM 45J5435												
- <i>Some:</i> Genuine Windows 7 Professional 64			500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990												
			1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918												
Preloaded applications⁵ (only some listed)			Super Multi-Burner DL DVD±RW SATA Drive 41N5620												
			DisplayPort to Single-link DVI-D Cable 45J7915												
• Rescue and Recovery™			DisplayPort to VGA Monitor Cable 57Y4393												
			ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636												
• Password Manager			NVIDIA® Quadro® 256MB NVS 290 43R1765												
			NVIDIA Quadro 256MB FX 370 LP 55Y9275												
• ThinkVantage System Update			More accessories on O-M58 sheet												
			Acc Guide in pdf lenovo.com/accessoriesguide												
• ThinkVantage Power Manager			Other accessories at lenovo.com/accessories												
• ThinkVantage Toolbox															
• Lenovo Online Data Backup															
• Norton™ Internet Security 2009 (30 days of virus definitions)															
• Adobe® Reader®															
• Adobe Flash® Player															
• Microsoft® Office 2007 Trial (60-day)															
• Roxio® Creator® Business Edition (DVD±RW)															
• Roxio MyDVD® (DVD±RW)															

See footnotes for important warranty information

US model announced February 23, 2010; previous models on January 12, 2010

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(MLAN4-27) February 2010

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Chassis intr switch	Intel vPro	Vista preload	Global Educ	Avail date
	M58p	7483-AEU	2x3 Core 2 Duo E8400	3.00	2	1GB	160GB ²	DVD	GMA	VGA, DP			vPro	Bus32		Nov 08
	M58p	7483-AFU	2x3 Core 2 Duo E8400	3.00	2	1GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
✖	M58p	7483-A7U	2x3 Core 2 Duo E8400	3.00	2	1GB	250GB	DVD±RW	GMA	VGA, DP		Switch	vPro	Bus32		Nov 08
	M58p	7483-ACU	2x3 Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP			vPro	Bus32		Nov 08
✖	M58p	7483-AGU	2x3 Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP			vPro	Bus32	Educ	Nov 08
	M58p	7483-AHU	2x3 Core 2 Duo E8400	3.00	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
✖	M58p	7483-AJU	2x3 Core 2 Duo E8500	3.16	2	1GB	250GB	DVD	GMA	VGA, DP			vPro	Bus32		Nov 08
	M58p	7483-AKU	2x3 Core 2 Duo E8500	3.16	2	2GB	160GB	DVD	3470	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
✖	M58p	7483-ALU	2x3 Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
	M58p	7483-AMU	2x3 Core 2 Duo E8500	3.16	2	2GB	250GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
	M58p	7483-ANU	2x3 Core 2 Quad Q9400	2.66	4	2GB	160GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D		vPro	Bus32		Nov 08
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • These models have a 3-year limited warranty ¹																
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in FC-LGA8 package in LGA775 socket									Small  Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16* Slot 2: Low Profile, 32-bit PCI 2.3 * used in some models • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation						
Implementation	Processor in FC-LGA8 package in LGA775 socket															
Memory	1GB or 2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available															
Graphics	<i>Some:</i> Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 253MB [<i>1GB models</i>], 765MB [<i>2GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> ATI™ Radeon™ HD 3470 , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts															
DP dongle	<i>Some:</i> DisplayPort to Single-link DVI-D Cable															
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts															
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support															
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive															
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar															
eSATA port	One external SATA (eSATA) port															
Diskette drive	None															
Media reader	None															
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA															
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec															
Speaker	One internal speaker for business audio															
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0															
Intel AMT	Intel Active Management Technology (iAMT)															
Modem	None															
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo															
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo															
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs															
Preloaded operating system²⁰				Accessories												
- Genuine Windows® Vista® Business 32				1GB PC3-8500 DDR3 UDIMM				45J5434								
✧ Vista Premium logo				2GB PC3-8500 DDR3 UDIMM				45J5435								
Preloaded applications⁵ (only some listed)				500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990								
• <i>Some:</i> Education software				1TB SATA 3.0Gb/s Disk (7200 rpm)				45J7918								
- VitalSource™ Library School Edition				DVD-ROM DL SATA 1.5Gb/s 16-48X Max				41N5618								
- Adobe® Elements				Super Multi-Burner DL DVD±RW SATA Drive				41N5620								
- Photoshop Elements 6				DisplayPort to Single-link DVI-D Cable				45J7915								
- Premiere Elements 4				DisplayPort to VGA Monitor Cable				57Y4393								
• Rescue and Recovery™				ATI Radeon HD 3470 256MB (DP, VGA)				45K1636								
• Client Security Solution™				NVIDIA® Quadro® 256MB NVS 290				43R1765								
• ThinkVantage Productivity Center				NVIDIA Quadro 256MB FX 370 LP				55Y9275								
• Microsoft® Office 2007 Trial (60-day)				More accessories on O-M58 sheet												
• Roxio® Creator® Business Edition (DVD±RW)				Acc Guide in pdf lenovo.com/accessoriesguide												
• Roxio MyDVD® (DVD±RW)				Other accessories at lenovo.com/accessories												
• Corel® WinDVD® (DVD, DVD±RW)																
Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement • <i>Some:</i> Chassis intrusion switch																
Supports ThinkVantage® technologies																
GREENGUARD® certified RoHS-compliant																
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service ⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations): ⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378																

See footnotes for important warranty information

US models announced October 21, 2008

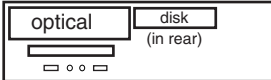
✖ US models withdrawn effective December 2009

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(MLAN1-4) October 2008

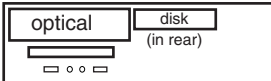
Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58p	7483-B1U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	vPro	XP Pro	None	Apr 09
M58p	7483-B2U	2x3	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	vPro	XP Pro	None	Apr 09

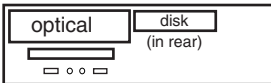
- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache		Small 
Implementation	Processor in FC-LGA8 package in LGA775 socket		
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display DisplayPort to Single-link DVI-D Cable		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
DP dongle	DisplayPort to Single-link DVI-D Cable		
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors		
eSATA port	One external SATA (eSATA) port		
Diskette drive	None		
Media reader	None		
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec		
Speaker	One internal speaker for business audio		
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0		
Intel AMT	Intel Active Management Technology (iAMT)		
Modem	None		
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo		
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs		
Preloaded operating system²⁰		Accessories	Supports ThinkVantage® technologies
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)		1GB PC3-8500 DDR3 UDIMM 45J5434	GREENGUARD® certified RoHS-compliant
Preloaded applications⁵		2GB PC3-8500 DDR3 UDIMM 45J5435	
• Rescue and Recovery™		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
• Client Security Solution™		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918	
• ThinkVantage Productivity Center		Super Multi-Burner DL DVD±RW SATA Drive 41N5620	
• ThinkVantage System Update		DisplayPort to Single-link DVI-D Cable 45J7915	
• McAfee® VirusScan® Plus (30 days of virus definitions)		DisplayPort to VGA Monitor Cable 57Y4393	
• Lenovo System Toolbox		ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636	
• Adobe® Reader®		NVIDIA® Quadro® 256MB NVS 290 43R1765	
• Microsoft® Office 2007 Trial (60-day)		NVIDIA Quadro 256MB FX 370 LP 55Y9275	
• Roxio® Creator® Business Edition (DVD±RW)		More accessories on O-M58 sheet	
• Roxio MyDVD® (DVD±RW)		Acc Guide in pdf lenovo.com/accessoriesguide	
• Corel® WinDVD® (DVD±RW)		Other accessories at lenovo.com/accessories	

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58p	7483-BRU	2x3	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	vPro	Pro 32	None	Jan 10

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Small 																												
Implementation	Processor in LGA775 socket																															
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																												
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display DisplayPort to Single-link DVI-D Cable			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement																												
DP dongle																																
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																															
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																															
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																															
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors																															
eSATA port	One external SATA (eSATA) port																															
Diskette drive	None																															
Media reader	None																															
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																															
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA																															
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																															
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																															
Speaker	One internal speaker for business audio																															
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																															
Intel AMT	Intel Active Management Technology (iAMT)																															
Modem	None																															
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																															
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																															
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs																															
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				Supports ThinkVantage® technologies																												
Preloaded applications ⁵ • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				GREENGUARD® certified RoHS-compliant																												
Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB FX 370 LP</td><td>55Y9275</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>				1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370 LP	55Y9275	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories		Limited Warranty ¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		
1GB PC3-8500 DDR3 UDIMM	45J5434																															
2GB PC3-8500 DDR3 UDIMM	45J5435																															
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																															
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																															
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																															
DisplayPort to Single-link DVI-D Cable	45J7915																															
DisplayPort to VGA Monitor Cable	57Y4393																															
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																															
NVIDIA® Quadro® 256MB NVS 290	43R1765																															
NVIDIA Quadro 256MB FX 370 LP	55Y9275																															
More accessories on O-M58 sheet																																
Acc Guide in pdf lenovo.com/accessoriesguide																																
Other accessories at lenovo.com/accessories																																

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Vista preload	Educ	Global Avail date	
M58p	7220-A6U	2x3	Core 2 Duo E8400	3.00	2	1GB	160GB ²	DVD	GMA	VGA, DP		ES50	vPro	Bus32	No	Nov 08	
M58p	7220-A7U	2x3	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD	3470	VGA, DP	DP-to-DVI-D	ES50	vPro	Bus32	No	Nov 08	
M58p	7220-A8U	2x3	Core 2 Duo E8500	3.16	2	1GB	250GB	DVD	GMA	VGA, DP		ES50	vPro	Bus32	No	Nov 08	
M58p	7220-A9U	2x3	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	3470	VGA, DP	DP-to-DVI-D	ES50	vPro	Bus32	No	Nov 08	
M58p	7220-ABU	2x3	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	Bus32	No	Nov 08	
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • These models have a 3-year limited warranty¹																	
Positioning	Ultimate security, stability, and manageability for the enterprise										Small						
Processor	Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache																
Implementation	Processor in FC-LGA8 package in LGA775 socket																
Memory	1GB or 2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Italics: standard memory in two sockets; two sockets available; Non-italics: standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)		Slot 1: Low Profile, PCI Express 2.0 x16* Slot 2: Low Profile, 32-bit PCI 2.3				
Graphics	Some: Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 253MB [1GB models], 765MB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display Some: ATI™ Radeon™ HD 3470, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts										* used in some models		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation				
DP dongle	Some: DisplayPort to Single-link DVI-D Cable																
SATA disk	160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening																
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																
SATA DVD	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																
SATA DVD±RW	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																
eSATA port	One external SATA (eSATA) port																
Diskette drive	None																
Media reader	None																
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																
Speaker	One internal speaker for business audio																
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																
Intel AMT	Intel Active Management Technology (iAMT)																
Modem	None																
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																
Preloaded operating system ²⁰			Accessories														
- Genuine Windows® Vista® Business 32			1GB PC3-8500 DDR3 UDIMM 45J5434														
✦ Vista Premium logo			2GB PC3-8500 DDR3 UDIMM 45J5435														
Preloaded applications ⁵			500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990														
• Rescue and Recovery™			1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918														
• Client Security Solution™			DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618														
• ThinkVantage Productivity Center			Super Multi-Burner DL DVD±RW SATA Drive 41N5620														
• ThinkVantage System Update			DisplayPort to Single-link DVI-D Cable 45J7915														
• ThinkVantage Power Manager			DisplayPort to VGA Monitor Cable 57Y4393														
• McAfee® VirusScan® Plus			ATI Radeon HD 3470 256MB (DP, VGA) 45K1636														
(30 days of virus definitions)			NVIDIA® Quadro® 256MB NVS 290 43R1765														
• Lenovo System Toolbox			NVIDIA Quadro 256MB FX 370 LP 55Y9275														
• Adobe® Reader®			More accessories on O-M58 sheet														
• Microsoft® Office 2007 Trial (60-day)			Acc Guide in pdf lenovo.com/accessoriesguide														
• Roxio® Creator® Business Edition (DVD±RW)			Other accessories at lenovo.com/accessories														
• Roxio MyDVD® (DVD±RW)																	
• Corel® WinDVD® (DVD, DVD±RW)																	
Security																	
• Security chip (see information on left)																	
• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)																	
- optional cable also locks the cover by deactivating the cover release buttons																	
• Power-on password																	
• Administrator password																	
• Hard disk password (user and master)																	
• Boot sequence control																	
• Boot without diskette, keyboard																	
• Serial port I/O control																	
• Individual USB port disablement																	
Supports ThinkVantage® technologies																	
Climate Savers®-compliant																	
EPEAT™ Gold rating																	
ENERGY STAR 5.0-compliant																	
GREENGUARD® certified																	
RoHS-compliant																	
Limited Warranty ¹																	
✦ 3-year parts and labor																	
✦ International Warranty Service ⁹																	
✦ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)																	
✦ Onsite service upgrade options (in eligible locations): ⁷																	
• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)																	
• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)																	
• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)																	
• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)																	
• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)																	
✦ ThinkPlus services at lenovo.com/thinkplus/warranty																	
✦ Post warranty maintenance services available																	
✦ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378																	

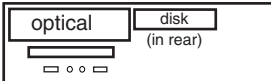
See footnotes for important warranty information
 US models announced October 21, 2008

✦ US model withdrawn effective December 2009

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 (MLAN1-6) October 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date	
M58p	7220-AGU	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Apr 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Small 
Implementation	Processor in FC-LGA8 package in LGA775 socket			
Memory	2GB std , 8GB max ³ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available			
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display			
DP dongle	DisplayPort to Single-link DVI-D Cable			
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors			
eSATA port	One external SATA (eSATA) port			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec			
Speaker	One internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0			
Intel AMT	Intel Active Management Technology (iAMT)			
Modem	None			
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			Security
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, 85% PSU			• Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement
Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)				Supports ThinkVantage® technologies
Accessories 1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet				
Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant
Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort	Chassis intr switch	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date
M58p	6137-A2U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD	GMA	VGA, DP	None		vPro	Bus32	G P	Jan 09
M58p	6137-A1U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP	None	Switch	vPro	Bus32	G P	Nov 08
M58p	6137-A3U	2x3	Core 2 Duo E8400	3.00	2	3GB	160GB	DVD	GMA	VGA, DP	None	Switch	vPro	Bus32	G P	Mar 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These models are part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache	Small optical disk (in rear)
Implementation	Processor in FC-LGA8 package in LGA775 socket	
Memory	2GB or 3GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB [2GB models], 1277MB [3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display	
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts	Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement • <i>Some:</i> Chassis intrusion switch
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA Drive	
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors	
eSATA port	One external SATA (eSATA) port	
Diskette drive	None	
Media reader	None	
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	
Speaker	One internal speaker for business audio	
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0	
Intel AMT	Intel Active Management Technology (iAMT)	
Modem	None	
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, two diagnostic LEDs	
Preloaded operating system²⁰		
- Genuine Windows® Vista® Business 32 ✦ Vista Premium logo		
Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)		
Accessories		
1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		
Supports ThinkVantage® technologies		
GREENGUARD® certified RoHS-compliant		
Limited Warranty¹ ✦ 3-year parts and labor ✦ International Warranty Service⁹ ✦ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ✦ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ✦ ThinkPlus services at lenovo.com/thinkplus/warranty ✦ Post warranty maintenance services available ✦ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

See footnotes for important warranty information

US model announced February 17, 2009; previous models on October 21 or December 9, 2008

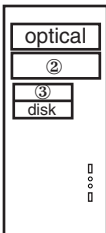
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(MLAN1-7) February 2009

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Vista preload	Global (G) GMP (P)	Avail date																				
M58p	6234-A1U	2x3	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	None	ES50	vPro	Bus32	G P	Nov 08																				
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty																																				
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in FC-LGA8 package in LGA775 socket										Small optical disk (in rear)																									
Implementation											Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)																									
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available										Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																									
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display																																			
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																																			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																																			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																			
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors																																			
eSATA port	One external SATA (eSATA) port																																			
Diskette drive	None																																			
Media reader	None																																			
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O										Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA																																			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																																			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																			
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																																			
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Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																																			
Intel AMT	Intel Active Management Technology (iAMT)																																			
Modem	None																																			
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Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																																			
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																																			
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																																			
Preloaded operating system²⁰ - Genuine Windows® Vista® Business 32 ♦ Vista Premium logo Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)										Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB FX 370 LP</td><td>55Y9275</td></tr></table> More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories							1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB FX 370 LP	55Y9275
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NVIDIA Quadro 256MB FX 370 LP	55Y9275																																			
										Supports ThinkVantage® technologies																										
										Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant																										
										Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																										

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58p	9965-A6U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 09
M58p	9965-A7U	4x4	Core 2 Quad Q9400	2.66	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	XP Pro	None	Nov 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

Positioning Processor	<i>Ultimate security, stability, and manageability for the enterprise</i> Intel® Core™ 2 Duo Processor E8400 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 				
Implementation	Processor in LGA775 socket														
Memory	2GB or 4GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available														
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3				
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O										Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Supports ThinkVantage® technologies				
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)										GREENGUARD® certified RoHS-compliant				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0														
Intel AMT	Intel Active Management Technology (iAMT)														
Modem	None														
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs														

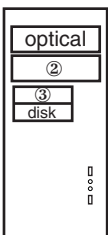
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)	Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB NVS 295</td><td>45K1669</td></tr></table> More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB NVS 295	45K1669	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
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ThinkCentre® M58p Tower (9965) - TopSeller (Windows 7)

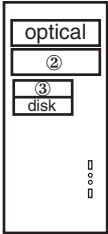
Personal Systems Reference (PSREF)

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58p	9965-A9U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
M58p	9965-ABU	4x4	Core 2 Quad Q9400	2.66	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
M58p	9965-ACU	4x4	Core 2 Duo E8400	3.00	2	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 64	None	Mar 10

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention 				
Implementation	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3				
Memory															
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display														
SATA disk	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0														
Intel AMT	Intel Active Management Technology (iAMT)														
Modem	None														
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs														

Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)	Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB NVS 295</td><td>45K1669</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>	1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB NVS 295	45K1669	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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	Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort	dongle	Chassis intr switch	Intel vPro	Vista preload	Global Educ	Avail date
✖	M58p	7484-A9U	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB ²	DVD	GMA	VGA, DP					vPro	Bus32	Nov 08
	M58p	7484-AHU	4x4	Core 2 Duo E8400	3.00	2	1GB	160GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D			vPro	Bus32	Nov 08	
	M58p	7484-AEU	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB	DVD±RW	GMA	VGA, DP				vPro	Bus32	Nov 08	
	M58p	7484-AGU	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD	3470	VGA, DP	DP-to-DVI-D			vPro	Bus32	Nov 08	
	M58p	7484-A8U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB	DVD±RW	GMA	VGA, DP			Switch	vPro	Bus32	Nov 08	
	M58p	7484-AJU	4x4	Core 2 Duo E8500	3.16	2	1GB	160GB	DVD	GMA	VGA, DP				vPro	Bus32	Nov 08	
	M58p	7484-AMU	4x4	Core 2 Duo E8500	3.16	2	2GB	160GB	DVD±RW	GMA	VGA, DP				vPro	Bus32	Educ Nov 08	
	M58p	7484-ALU	4x4	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	GMA	VGA, DP				vPro	Bus32	Nov 08	
	M58p	7484-AKU	4x4	Core 2 Duo E8500	3.16	2	2GB	250GB	DVD	3470	VGA, DP	DP-to-DVI-D			vPro	Bus32	Nov 08	
	M58p	7484-ANU	4x4	Core 2 Quad Q9400	2.66	4	2GB	160GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D			vPro	Bus32	Nov 08	
- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) - These models have a 3-year limited warranty¹																		
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core , Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Implementation Processor in FC-LGA8 package in LGA775 socket										Tower - Business black color; metal case 6.9" W X 17.3" D X 15.8" H 175mm W X 440mm D X 402mm H 24.2 lb (11.0 kg) in max configuration - Handle on top front - Toolless cover removal - Toolless disk, diskette drive, optical drive removal - Toolless adapter retention 							
Memory	1GB or 2GB std, 8GB max⁸, PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk							
Graphics	<i>Some:</i> Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 253MB [1GB models], 765MB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> ATI™ Radeon™ HD 3470, PCI Express® 2.0 x16 adapter , 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts DP dongle <i>Some:</i> DisplayPort to Single-link DVI-D Cable										Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 * used in some models							
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening										Security - Security chip (see information on left) - One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password (user and master) - Boot sequence control - Boot without diskette, keyboard - Serial port I/O control - Individual USB port disablement <i>Some:</i> Chassis intrusion switch							
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																	
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive																	
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																	
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																	
eSATA port	None										Supports ThinkVantage® technologies							
Diskette drive	None																	
Media reader	None																	
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMC® SCH5617 Super I/O																	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														GREENGUARD® certified RoHS-compliant			
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																	
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																	
Speaker	One internal speaker for business audio										Limited Warranty ¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ Other ThinkPlus services at lenovo.com/thinkplus/warranty ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378							
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																	
Intel AMT	Intel Active Management Technology (iAMT)																	
Modem	None																	
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo										Accessories 1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB NVS 295 45K1669 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories							
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																	
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																	
Preloaded operating system²⁰ - Genuine Windows® Vista® Business 32 ✧ Vista Premium logo Preloaded applications⁵ (only some listed) <i>Some:</i> Education software - VitalSource™ Library School Edition - Adobe® Elements - Photoshop Elements 6 - Premiere Elements 4 - Rescue and Recovery™ - Client Security Solution™ - ThinkVantage Productivity Center - Microsoft® Office 2007 Trial (60-day) - Roxio® Creator® Business Edition (DVD±RW) - Roxio MyDVD® (DVD±RW) - Corel® WinDVD® (DVD, DVD±RW)																		

See footnotes for important warranty information

US models announced October 21, 2008

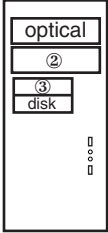
✖ US models withdrawn effective December 2009

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(MLAN1-12) November 2008

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date																														
M58p	7484-B2U	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	vPro	XP Pro	None	Apr 09																														
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • This model has a 3-year limited warranty¹																																													
Positioning	Ultimate security, stability, and manageability for the enterprise										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk ④ Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																																		
Processor	Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache																																												
Implementation	Processor in FC-LGA8 package in LGA775 socket																																												
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SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																																												
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																																												
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																																												
eSATA port	None																																												
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Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																																												
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Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs																																												
Preloaded operating system²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) Preloaded applications⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)											Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>Blu-ray™ Burner SATA 1.5Gb/s Drive</td><td>45K1675</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td>NVIDIA Quadro® 256MB NVS 290</td><td>43R1765</td></tr><tr><td>NVIDIA Quadro 256MB NVS 295</td><td>45K1669</td></tr><tr><td colspan="2">More accessories on O-M58 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>					1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	NVIDIA Quadro® 256MB NVS 290	43R1765	NVIDIA Quadro 256MB NVS 295	45K1669	More accessories on O-M58 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
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Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date					
M58p	7484-D1U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	vPro	Pro 32	None	Jan 10					
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • This model has a 3-year limited warranty¹																				
Positioning	Ultimate security, stability, and manageability for the enterprise										Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ diskette disk Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3									
Processor	Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache																			
Implementation	Processor in LGA775 socket																			
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available																			
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display																			
DP dongle	DisplayPort to Single-link DVI-D Cable																			
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts																			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1																			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																			
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eSATA port	None																			
Diskette drive	None																			
Media reader	None																			
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																			
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Preloaded applications ⁵											Supports ThinkVantage® technologies									
• Rescue and Recovery™											GREENGUARD® certified RoHS-compliant									
• Password Manager																				
• ThinkVantage System Update																				
• ThinkVantage Power Manager																				
• ThinkVantage Toolbox																				
• Lenovo Online Data Backup																				
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Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Global Preload Educ	Avail date			
M58p	3063-B6U	4x4	Core 2 Duo E8400	3.00	2	2GB	320GB ²	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Oct 09		
M58p	3063-B7U	4x4	Core 2 Duo E8400	3.00	2	2GB	320GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Oct 09		
M58p	3063-B9U	4x4	Core 2 Duo E8500	3.16	2	2GB	320GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Oct 09		
M58p	3063-B8U	4x4	Core 2 Duo E8500	3.16	2	2GB	320GB	DVD±RW	3470	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Oct 09		
M58p	3063-BBU	4x4	Core 2 Quad Q9400	2.66	4	4GB	320GB	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	ES50	vPro	XP Pro	No	Oct 09		
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Graphics	<i>Some:</i> Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display <i>Some:</i> ATI™ Radeon™ HD 3470 , PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts									Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max)* Slot 2: half-length, full-height, PCIe x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3								
DP dongle	DisplayPort to Single-link DVI-D Cable									* used in some models								
SATA disk	320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement			Supports ThinkVantage® technologies			Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support																	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																	
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar																	
eSATA port	None																	
Diskette drive	None																	
Media reader	None																	
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O																	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																	
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																	
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec																	
Speaker	One internal speaker for business audio																	
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0																	
Intel AMT	Intel Active Management Technology (iAMT)																	
Modem	None																	
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																	
Preloaded operating system²⁰				Accessories								Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378						
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional				1GB PC3-8500 DDR3 UDIMM				45J5434										
				2GB PC3-8500 DDR3 UDIMM				45J5435										
				500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990										
				1TB SATA 3.0Gb/s Disk (7200 rpm)				45J7918										
				Super Multi-Burner DL DVD±RW SATA Drive				41N5620										
				Blu-ray™ Burner SATA 1.5Gb/s Drive				45K1675										
				DisplayPort to Single-link DVI-D Cable				45J7915										
				DisplayPort to VGA Monitor Cable				57Y4393										
				ATI Radeon HD 3470 256MB (DP, VGA)				45K1636										
				NVIDIA® GeForce® 9500GT 512MB (DP, DVI)				45K1635										
				NVIDIA Quadro® 256MB NVS 290				43R1765										
				NVIDIA Quadro 256MB NVS 295				45K1669										
				More accessories on O-M58 sheet														
				Acc Guide in pdf lenovo.com/accessoriesguide														
				Other accessories at lenovo.com/accessories														
Preloaded applications⁵ (only some listed)																		
• Rescue and Recovery™																		
• Client Security Solution™																		
• ThinkVantage Productivity Center																		
• ThinkVantage System Update																		
• McAfee® VirusScan® Plus (30 days of virus definitions)																		
• Lenovo System Toolbox																		
• Adobe® Reader®																		
• Microsoft® Office 2007 Trial (60-day)																		
• Roxio® Creator® Business Edition (DVD±RW)																		
• Roxio MyDVD® (DVD±RW)																		
• Corel® WinDVD® (DVD±RW)																		

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	vPro	Vista preload	Global (G) GMP (P)	Avail date
M58p	6138-A1U	4x4	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA, DP	None	vPro	Bus32	G P	Nov 08
• Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) • This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty															
Positioning	Ultimate security, stability, and manageability for the enterprise									Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk 0 0 0 0 Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3					
Processor	Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache														
Implementation	Processor in FC-LGA8 package in LGA775 socket														
Memory	2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Italics: standard memory in two sockets; two sockets available														
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display														
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts														
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec														
Speaker	One internal speaker for business audio														
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0														
Intel AMT	Intel Active Management Technology (iAMT)														
Modem	None														
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LEDs														
Preloaded operating system ²⁰			Accessories			45J5434 45J5435 43R1990 45J7918 41N5620 45K1675 45J7915 57Y4393 45K1636 45K1635 43R1765 45K1669 Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories									
- Genuine Windows® Vista® Business 32			1GB PC3-8500 DDR3 UDIMM												
✧ Vista Premium logo			2GB PC3-8500 DDR3 UDIMM												
			500GB SATA 3.0Gb/s Disk (7200 rpm)												
Preloaded applications ⁵			1TB SATA 3.0Gb/s Disk (7200 rpm)												
• Rescue and Recovery™			Super Multi-Burner DL DVD±RW SATA Drive												
• Client Security Solution™			Blu-ray™ Burner SATA 1.5Gb/s Drive												
• ThinkVantage Productivity Center			DisplayPort to Single-link DVI-D Cable												
• ThinkVantage System Update			DisplayPort to VGA Monitor Cable												
• ThinkVantage Power Manager			ATI™ Radeon™ HD 3470 256MB (DP, VGA)												
• McAfee® VirusScan® Plus (30 days of virus definitions)			NVIDIA® GeForce® 9500GT 512MB (DP, DVI)												
• Lenovo System Toolbox			NVIDIA Quadro® 256MB NVS 290												
• Adobe® Reader®			NVIDIA Quadro 256MB NVS 295												
• Microsoft® Office 2007 Trial (60-day)			More accessories on O-M58 sheet												
• Roxio® Creator® Business Edition (DVD±RW)			Acc Guide in pdf lenovo.com/accessoriesguide												
• Roxio MyDVD® (DVD±RW)			Other accessories at lenovo.com/accessories												
• Corel® WinDVD® (DVD±RW)															
Supports ThinkVantage® technologies															
GREENGUARD® certified RoHS-compliant															
Limited Warranty ¹															
⇒ 3-year parts and labor															
⇒ International Warranty Service ⁹															
⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)															
⇒ Onsite service upgrade options (in eligible locations): ⁷															
• 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194)															
• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)															
• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)															
⇒ ThinkPlus services at lenovo.com/thinkplus/warranty															
⇒ Post warranty maintenance services available															
⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378															

Name	Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Win 7 preload	Global (G) GMP (P)	Avail date
M58p	3285-A1U	4x4	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	ES50	vPro	Pro 32	G P	Oct 09

- **Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)**
- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache			Tower • Business black color; metal case • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk Bay ④		
Implementation	Processor in LGA775 socket					
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; 3 sockets available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3		
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500) , integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display					
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1					
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar					
eSATA port	None					
Diskette drive	None					
Media reader	None					
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O			Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master) • Boot sequence control • Boot without diskette, keyboard • Serial port I/O control • Individual USB port disablement		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)					
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec					
Speaker	One internal speaker for business audio					
Ethernet	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0					
Intel AMT	Intel Active Management Technology (iAMT)					
Modem	None					
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo					
Power supply	280 watts with variable speed fan, autosensing, 85% PSU					
Preloaded operating system²⁰				Accessories		
- Genuine Windows® 7 Professional 32				1GB PC3-8500 DDR3 UDIMM 45J5434		
Preloaded applications⁵ (only some listed)				2GB PC3-8500 DDR3 UDIMM 45J5435		
• Rescue and Recovery™				500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
• Password Manager				1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
• ThinkVantage System Update				Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
• ThinkVantage Power Manager				Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675		
• ThinkVantage Toolbox				DisplayPort to Single-link DVI-D Cable 45J7915		
• Lenovo Online Data Backup				DisplayPort to VGA Monitor Cable 57Y4393		
• Norton™ Internet Security 2009 (30 days of virus definitions)				ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636		
• Adobe® Reader®				NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635		
• Adobe Flash® Player				NVIDIA Quadro® 256MB NVS 290 43R1765		
• Microsoft® Office 2007 Trial (60-day)				NVIDIA Quadro 256MB NVS 295 45K1669		
• Roxio® Creator® Business Edition (DVD±RW)				More accessories on O-M58 sheet		
• Roxio MyDVD® (DVD±RW)				Acc Guide in pdf lenovo.com/accessoriesguide		
				Other accessories at lenovo.com/accessories		
				Supports ThinkVantage® technologies		
				Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant		
				Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

Partial list of accessories supported on ThinkCentre M58 and M58p**Memory**

Eco Ultra Small 8820/7359/7637/9961/7479/6136 use notebook memory:

1GB PC3-8500 DDR3 SODIMM (notebook)	43R1987	ann 08/05/08
1GB PC3-8500 DDR3 SODIMM (25-Pack)	51J0551	ann 03/17/09
2GB PC3-8500 DDR3 SODIMM (notebook)	43R1988	ann 08/05/08
2GB PC3-8500 DDR3 SODIMM (25-Pack)	51J0552	ann 03/17/09
1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	ann 06/23/09
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	ann 06/23/09
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	ann 06/23/09
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	ann 06/23/09

Small 8910/7360/6258/7638/9964/7483/7220/6137/6234, and Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/7639 use desktop memory:

1GB PC3-8500 DDR3 UDIMM	45J5434	ann 11/18/08
1GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4421	ann 11/10/09
2GB PC3-8500 DDR3 UDIMM	45J5435	ann 11/18/08
2GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4422	ann 11/10/09

Optical

All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/7639 support:

Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	ann 03/31/09
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Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08

USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

Small 8910/7360/6258/7638/9964/7483/7220/6137/6234 support Low Profile:

ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® Quadro® 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB FX 370 Low-Profile	55Y9275	ann 07/28/09
NVIDIA GeForce® 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/7639 support 75 watts max:

ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA Quadro 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB NVS 295	45K1669	ann 04/21/09
NVIDIA GeForce 9500 GT 512MB (DP, DVI)	45K1635	ann 11/18/08
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵²Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Mounting Device

Eco Ultra Small 8820/7359/7637/9961/7479/6136 support under desk mounting device:

ThinkCentre Ultra Small Under Desk Mount	40Y8625	ann 09/06/05
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Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Eco Ultra Small 8820/7359/7637/9961/7479/6136 support:

Lenovo Vertical PC and Monitor Stand II	41R4474	ann 01/27/09
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All:

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
DisplayPort™ to Single-link DVI-D Cable	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann 08/04/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre M90/M90p Eco USFF



Lenovo ThinkCentre M90/M90p Eco USFF



Lenovo ThinkCentre M90/M90p SFF



Lenovo ThinkCentre M90/M90p SFF
with ThinkVision L2251x (2578-HB6)



Lenovo ThinkCentre M90/M90p Tower



Lenovo ThinkCentre M90/M90p Tower

ThinkCentre® M90 Eco Ultra Small (3244) - TopS (XP with Win7 License)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3244-A1U	1x2	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
3244-A2U	1x2	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10

- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Eco Ultra Small optical disk	
Implementation				Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3	
Memory	2GB std, 4GB max, PC3-10600 1333MHz DDR3* , two 204-pin SODIMM sockets (notebook); <i>Non-italics:</i> standard memory in one socket; one socket available * System automatically clocks down for processors with 1066MHz DDR3 memory controller			• Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation	
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later				
DP dongle	None				
SATA disk	250GB, SATA 3.0Gb/s 7200 rpm				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	Internal speaker for business audio				
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®				
Intel AMT	None				
Modem	None				
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo				
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU				
Preloaded operating system ²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)					
Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD±RW)					
Accessories 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories					
				Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement	
				Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant	
				Supports ThinkVantage® technologies	
				Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

See footnotes for important warranty information

US models announced January 15, 2010

⚡ US model withdrawn effective February 2010

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(MELB1-7) January 2010

Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3244-A8U	1x2	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Mar 10

- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache			Eco Ultra Small optical disk □ ○ □																						
Implementation	Processor in LGA1156 socket																									
Memory	2GB std, 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Non-italics:</i> standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3																						
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display			• Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation																						
DP dongle	None																									
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement																						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																									
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																									
eSATA port	None																									
Diskette drive	None			Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant																						
Media reader	None																									
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																									
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																									
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			Supports ThinkVantage® technologies																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																									
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																									
Speaker	Internal speaker for business audio																									
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			Limited Warranty¹ ⇒ 3-year parts and labor (ThinkPlus™ part number 41C9192) ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																						
Intel AMT	None																									
Modem	None																									
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																									
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32																						
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																									
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			Accessories <table><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td>More accessories on O-M90 sheet</td><td></td></tr><tr><td>Acc Guide in pdf lenovo.com/accessoriesguide</td><td></td></tr><tr><td>Other accessories at lenovo.com/accessories</td><td></td></tr></table>			500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	More accessories on O-M90 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																									
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Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3692-A1U	1x2	Pentium G6950	2.80	2	1GB	250GB ^b	DVD	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
3692-A2U	1x2	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
3692-A3U	1x2	Core i3-530	2.93	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10

- **Most powerful, stable, and manageable desktop with next generation Intel platform**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Eco Ultra Small optical disk □ ○ □ Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation															
Implementation																		
Memory	1GB or 2GB std , 4GB max, PC3-10600 1333MHz DDR3* , two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available * System automatically clocks down for processors with 1066MHz DDR3 memory controller		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement															
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 512MB [<i>1GB model</i>], 1GB [<i>2GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later None																	
DP dongle	None																	
SATA disk SATA DVD SATA DVD±RW SATA Controller	250GB , SATA 3.0Gb/s 7200 rpm DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																	
eSATA port Diskette drive Media reader	None None None		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies															
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																	
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo External AC/DC adapter, 130 watts, autosensing, 87% PSU																	
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD) Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD, DVD±RW) Accessories<table><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16X-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr></table>More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories			500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	DVD-ROM DL SATA 1.5Gb/s 16X-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																	
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Lenovo Vertical PC and Monitor Stand II	41R4474																	
ThinkCentre Ultra Small Under Desk Mount	40Y8625																	

ThinkCentre® M90 Eco Ultra Small (3692) - Windows 7

Personal Systems Reference (PSREF)

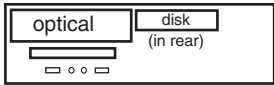
Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3692-A4U	1x2	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
3692-E7U	1x2	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10

- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Eco Ultra Small optical disk Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation																			
Implementation																							
Memory	2GB std , 4GB max, PC3-10600 1333MHz DDR3* , two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available * System automatically clocks down for processors with 1066MHz DDR3 memory controller																						
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display																						
DP dongle	None																						
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (In eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																						
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																						
eSATA port	None																						
Diskette drive	None																						
Media reader	None																						
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																						
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																						
Speaker	Internal speaker for business audio																						
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																						
Intel AMT	None																						
Modem	None																						
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																						
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																						
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																						
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) Accessories<table><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr><tr><td colspan="2">More accessories on O-M90 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>				500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625	More accessories on O-M90 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																						
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																						
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																						
DisplayPort to Single-link DVI-D Cable	45J7915																						
DisplayPort to VGA Monitor Cable	57Y4393																						
Lenovo Vertical PC and Monitor Stand II	41R4474																						
ThinkCentre Ultra Small Under Desk Mount	40Y8625																						
More accessories on O-M90 sheet																							
Acc Guide in pdf lenovo.com/accessoriesguide																							
Other accessories at lenovo.com/accessories																							

See footnotes for important warranty information
 US models announced January 15, 2010

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Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3245-A1U	2x3	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
3245-A2U	2x3	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
3245-A8U	2x3	Core i5-750	2.66	4	3GB	500GB	DVD±RW	310	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
• The most powerful, stable, and manageable desktop with next generation Intel platform • These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹															
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket								Small						
Implementation									Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3						
Memory	2GB or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3*, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller										• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation				
Graphics	A1U/A2U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display A8U: NVIDIA® GeForce® 310, PCIe x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts ** DirectX 10 is only available with Windows Vista and later										Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement				
DP dongle	None														
SATA disk	250GB or 500GB, SATA 3.0Gb/s 7200 rpm														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant				
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction														
Preloaded operating system ²⁰ Accessories															
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)						1GB PC3-10600 DDR3 UDIMM 57Y4389						2GB PC3-10600 DDR3 UDIMM 57Y4390			
						500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990						1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918			
						Super Multi-Burner DL DVD±RW SATA Drive 41N5620						DisplayPort to Single-link DVI-D Cable 45J7915			
						DisplayPort to VGA Monitor Cable 57Y4393						NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397			
						NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396						More accessories on O-M90 sheet			
						Acc Guide in pdf lenovo.com/accessoriesguide						Other accessories at lenovo.com/accessories			
Preloaded applications ⁵ (only some listed)															
• Rescue and Recovery™															
• Client Security Solution™															
• ThinkVantage Productivity Center															
• ThinkVantage System Update															
• ThinkVantage Power Manager															
• Lenovo System Toolbox															
• Norton™ Internet Security 2009 (30-day)															
• Adobe® Reader®															
• Adobe Flash® Player															
• Skype™ for Windows															
• Microsoft® Office 2007 Trial (60-day)															
• Corel® Burn.Now™ (DVD±RW)															
• Corel DVD MovieFactory® (DVD±RW)															
• Corel WinDVD® (DVD±RW)															
3-year parts and labor															
International Warranty Service ⁹															
Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)															
Onsite service upgrade options (in eligible locations): ⁷															
• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)															
• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)															
• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)															
• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)															
• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)															
ThinkPlus services at lenovo.com/thinkplus/warranty															
Post warranty maintenance services available															
24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378															

See footnotes for important warranty information
 US models announced January 15, 2010

⚡ US model withdrawn effective February 2010

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Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3245-A9U	2x3	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Mar 10
3245-B3U	2x3	Core i3-530	2.93	2	4GB	320GB	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 64	None	Mar 10
3245-B1U	2x3	Core i5-750	2.66	4	3GB	500GB	DVD±RW	310	VGA, DP	ES50	None	Pro 32	None	Mar 10

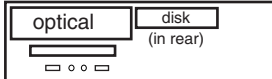
- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

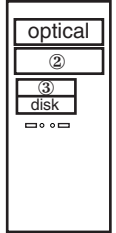
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core , Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket		Small optical disk (in rear)	
Implementation			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3	
Memory	2GB, 3GB, or 4GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation	
Graphics	A9U/B3U: Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display B1U: NVIDIA® GeForce® 310 , PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts			
DP dongle	None			
SATA disk	250GB, 320GB, or 500GB , SATA 3.0Gb/s 7200 rpm			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction			
Preloaded operating system²⁰		Accessories		
- <i>Some:</i> Genuine Windows® 7 Professional 32		1GB PC3-10600 DDR3 UDIMM 57Y4389		
- <i>Some:</i> Genuine Windows 7 Professional 64		2GB PC3-10600 DDR3 UDIMM 57Y4390		
		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
		DisplayPort to Single-link DVI-D Cable 45J7915		
		DisplayPort to VGA Monitor Cable 57Y4393		
		NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397		
		NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396		
		More accessories on O-M90 sheet		
		Acc Guide in pdf lenovo.com/accessoriesguide		
		Other accessories at lenovo.com/accessories		
Preloaded applications⁵ (all OSes; only some listed)				
• Rescue and Recovery™				
• Password Manager				
• ThinkVantage System Update				
• ThinkVantage Power Manager				
• ThinkVantage Toolbox				
• Norton™ Internet Security 2009 (30 days of virus definitions)				
• Adobe® Reader®				
• Adobe Flash® Player				
• Skype™ for Windows				
• Microsoft® Office 2007 Trial (60-day)				
• Corel® Burn.Now™ (DVD±RW)				
• Corel DVD MovieFactory® (DVD±RW)				
		Security		
		• Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement		
		Environmental Features		
		• EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant		
		Supports ThinkVantage® technologies		
		Limited Warranty¹		
		⇒ 3-year parts and labor		
		⇒ International Warranty Service⁹		
		⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)		
		⇒ Onsite service upgrade options (in eligible locations):⁷		
		• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)		
		• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)		
		• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)		
		• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)		
		• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)		
		⇒ ThinkPlus services at lenovo.com/thinkplus/warranty		
		⇒ Post warranty maintenance services available		
		⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
5485-A1U	2x3	Pentium G6950	2.80	2	1GB	250GB ²	DVD	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
5485-A2U	2x3	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
5485-A3U	2x3	Core i3-530	2.93	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
5485-A4U	2x3	Core i5-750	2.66	4	3GB	500GB	DVD±RW	310	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10
• The most powerful, stable, and manageable desktop with next generation Intel platform • These models have a 3-year limited warranty¹															
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket								Small optical disk (in rear) Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation						
Implementation															
Memory	1GB, 2GB, or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3[*], four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available [*] System automatically clocks down for processors with 1066MHz DDR3 memory controller														
Graphics	A1U/A2U/A3U: Intel HD Graphics in processor, HDCP, DirectX® 10 ^{**} , uses main memory (up to 512MB [<i>1GB model</i>], 1GB [<i>2GB and 3GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display A4U: NVIDIA® GeForce® 310, PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts ** DirectX 10 is only available with Windows Vista and later								Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement						
DP dongle	None														
SATA disk	250GB or 500GB, SATA 3.0Gb/s 7200 rpm														
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive														
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O								Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)								Supports ThinkVantage® technologies						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction														
Preloaded operating system²⁰			Accessories												
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)			1GB PC3-10600 DDR3 UDIMM			57Y4389									
			2GB PC3-10600 DDR3 UDIMM			57Y4390									
			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990									
			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918									
			DVD-ROM DL SATA 1.5Gb/s 16X-48X Max			41N5618									
			Super Multi-Burner DL DVD±RW SATA Drive			41N5620									
Preloaded applications⁵ (only some listed)			DisplayPort to Single-link DVI-D Cable			45J7915									
• Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Norton™ Internet Security 2009 (30-day) • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD, DVD±RW)			DisplayPort to VGA Monitor Cable			57Y4393									
			NVIDIA GeForce 512MB 310 (DP, VGA)			57Y4397									
			NVIDIA Quadro® 512MB FX380 LP (DP, DVI)			57Y4396									
			More accessories on O-M90 sheet												
			Acc Guide in pdf lenovo.com/accessoriesguide												
			Other accessories at lenovo.com/accessories												
⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378															

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
5485-A5U	2x3	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
5485-E3U	2x3	Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
5485-E4U	2x3	Core i5-750	2.66	4	3GB	500GB	DVD±RW	310	VGA, DP	ES50	None	Pro 32	None	Feb 10

- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **These models have a 3-year limited warranty¹**

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core , Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket			Small 	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation																							
Implementation																												
Memory	2GB or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3* , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller																											
Graphics	A5U/E3U: Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display E4U: NVIDIA® GeForce® 310 , PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement																								
DP dongle	None																											
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm																											
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																											
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																											
eSATA port	None																											
Diskette drive	None																											
Media reader	None																											
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O				Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant																							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			Supports ThinkVantage® technologies	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																							
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																											
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																											
Speaker	Internal speaker for business audio																											
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																											
Intel AMT	None																											
Modem	None																											
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																											
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																											
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																											
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction																											
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32																												
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)																												
Accessories <table><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>NVIDIA GeForce 512MB 310 (DP, VGA)</td><td>57Y4397</td></tr><tr><td>NVIDIA Quadro® 512MB FX380 LP (DP, DVI)</td><td>57Y4396</td></tr><tr><td colspan="2">More accessories on O-M90 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>					1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	NVIDIA GeForce 512MB 310 (DP, VGA)	57Y4397	NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396	More accessories on O-M90 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
1GB PC3-10600 DDR3 UDIMM	57Y4389																											
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More accessories on O-M90 sheet																												
Acc Guide in pdf lenovo.com/accessoriesguide																												
Other accessories at lenovo.com/accessories																												

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date														
3246-A1U	4x4	Pentium G6950	2.80	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10														
3246-A2U	4x4	Core i3-530	2.93	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10														
3246-A9U	4x4	Core i5-750	2.66	4	3GB	500GB	None	DVD±RW	310	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10														
• The most powerful, stable, and manageable desktop with next generation Intel platform • These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹																														
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Intel Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket									Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention 																				
Implementation																														
Memory	2GB or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3*, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																				
Graphics	A1U/A2U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display A9U: NVIDIA® GeForce® 310, PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts ** DirectX 10 is only available with Windows Vista and later												Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement																	
DP dongle	None																													
SATA disk	250GB or 500GB, SATA 3.0Gb/s 7200 rpm																													
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																													
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical																													
eSATA port	None																													
Diskette drive	None																													
Media reader	None																													
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant																	
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																													
Speaker	Internal speaker for business audio																													
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																													
Intel AMT	None																													
Modem	None																													
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																													
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																													
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																													
Preloaded operating system ²⁰			Accessories																											
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)			1GB PC3-10600 DDR3 UDIMM										57Y4389																	
			2GB PC3-10600 DDR3 UDIMM										57Y4390																	
			500GB SATA 3.0Gb/s Disk (7200 rpm)										43R1990																	
			1TB SATA 3.0Gb/s Disk (7200 rpm)										45J7918																	
			Super Multi-Burner DL DVD±RW SATA Drive										41N5620																	
Preloaded applications ⁵ (only some listed)			DisplayPort to Single-link DVI-D Cable										45J7915																	
• Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30-day) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD±RW)			DisplayPort to VGA Monitor Cable										57Y4393																	
			NVIDIA GeForce 512MB 310 (DP, VGA)										57Y4397																	
			More accessories on O-M90 sheet																											
			Acc Guide in pdf lenovo.com/accessoriesguide																											
			Other accessories at lenovo.com/accessories																											
Environmental Features																														
Supports ThinkVantage® technologies																														
Limited Warranty ¹																														
⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																														

See footnotes for important warranty information
 US models announced January 15, 2010

⚡ US model withdrawn effective February 2010

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 (MELB1-23) January 2010

ThinkCentre® M90 Tower (3246) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3246-B1U	4x4	Core i3-530	2.93	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Mar 10
3246-B2U	4x4	Core i5-750	2.66	4	3GB	500GB	None	DVD±RW	310	VGA, DP	ES50	None	Pro 32	None	Mar 10
3246-B4U	4x4	Core i3-530	2.93	2	4GB	320GB	None	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 64	None	Mar 10

- **The most powerful, stable, and manageable desktop with next generation Intel platform**
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

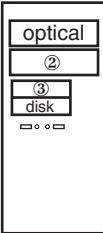
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3 Processor i3-530 with dual-core , Intel 64, Intel Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core , Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket		Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention optical ② ③ disk □ □ □ □	
Implementation			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk	
Memory	2GB, 3GB, or 4GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available		Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
Graphics	B1U/B4U: Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB <i>[2GB models]</i> , 1759MB <i>[4GB models]</i>), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display B2U: NVIDIA® GeForce® 310 , PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts			
DP dongle	None		Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement	
SATA disk	250GB, 320GB, or 500GB , SATA 3.0Gb/s 7200 rpm		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical			
eSATA port	None		Supports ThinkVantage® technologies	
Diskette drive	None			
Media reader	None			
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Limited Warranty¹ ⇨ 3-year parts and labor ⇨ International Warranty Service⁹ ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇨ ThinkPlus services at lenovo.com/thinkplus/warranty ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			
Intel AMT	None			
Modem	None			
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	280 watts with variable speed fan, autosensing, 85% PSU			
Preloaded operating system²⁰		Accessories		
- <i>Some:</i> Genuine Windows® 7 Professional 32		1GB PC3-10600 DDR3 UDIMM 57Y4389		
- <i>Some:</i> Genuine Windows 7 Professional 64		2GB PC3-10600 DDR3 UDIMM 57Y4390		
Preloaded applications⁵ (all OSes; only some listed)		500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990		
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918		
• Password Manager		Super Multi-Burner DL DVD±RW SATA Drive 41N5620		
• ThinkVantage System Update		DisplayPort to Single-link DVI-D Cable 45J7915		
• ThinkVantage Power Manager		DisplayPort to VGA Monitor Cable 57Y4393		
• ThinkVantage Toolbox		NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397		
• Norton™ Internet Security 2009 (30 days of virus definitions)		More accessories on O-M90 sheet		
• Adobe® Reader®		Acc Guide in pdf lenovo.com/accessoriesguide		
• Adobe Flash® Player		Other accessories at lenovo.com/accessories		
• Skype™ for Windows				
• Microsoft® Office 2007 Trial (60-day)				
• Corel® Burn.Now™ (DVD±RW)				
• Corel DVD MovieFactory® (DVD±RW)				

See footnotes for important warranty information
US models announced March 2, 2010

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(MELB1-26) March 2010

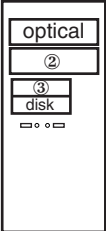
ThinkCentre® M90 Tower (5474) - XP with Win7 License

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date	
5474-A1U	4x4	Pentium G6950	2.80	2	1GB	250GB ²	None	DVD	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10	
5474-A2U	4x4	Pentium G6950	2.80	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10	
5474-A3U	4x4	Core i3-530	2.93	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10	
5474-A4U	4x4	Core i5-750	2.66	4	3GB	500GB	None	DVD±RW	310	VGA, DP	ES50	None	XP Pro	Pro 32	None	Feb 10	
• The most powerful, stable, and manageable desktop with next generation Intel platform • These models have a 3-year limited warranty¹																	
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core , Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket									Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention							
Implementation																	
Memory	1GB, 2GB, or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3* , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk							
Graphics	A1U/A2U/A3U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 512MB [<i>1GB model</i>], 1GB [<i>2GB and 3GB models</i>]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display A4U: NVIDIA® GeForce® 310 , PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts ** DirectX 10 is only available with Windows Vista and later									Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3							
DP dongle	None									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement							
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm																
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive																
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O									Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	Internal speaker for business audio																
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																
Intel AMT	None																
Modem	None																
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																
Preloaded operating system²⁰			Accessories														
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)			1GB PC3-10600 DDR3 UDIMM 57Y4389														
			2GB PC3-10600 DDR3 UDIMM 57Y4390														
			500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990														
			1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918														
			DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618														
			Super Multi-Burner DL DVD±RW SATA Drive 41N5620														
			DisplayPort to Single-link DVI-D Cable 45J7915														
			DisplayPort to VGA Monitor Cable 57Y4393														
			NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397														
			More accessories on O-M90 sheet														
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Norton™ Internet Security 2009 (30-day) • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD, DVD±RW)			Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories														
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																	

See footnotes for important warranty information
US models announced January 15, 2010

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(MELB1-21) January 2010

Type-model	Slot x bay	Processor	GHz	Cores	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
5474-A5U	4x4	Core i3-530	2.93	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
5474-D4U	4x4	Pentium G6950	2.80	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
5474-D5U	4x4	Core i5-750	2.66	4	3GB	500GB	None	DVD±RW	310	VGA, DP	ES50	None	Pro 32	None	Feb 10
• The most powerful, stable, and manageable desktop with next generation Intel platform • These models have a 3-year limited warranty¹															
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core , Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core , Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core , Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket								Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention 						
Implementation															
Memory	2GB or 3GB std. , 8GB max, UDIMM, PC3-10600 1333MHz DDR3³ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller								Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk		Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3				
Graphics	A5U/D4U: Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1277MB [3GB model]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display D5U: NVIDIA® GeForce® 310 , PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts														
DP dongle	None										Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement				
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm														
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical														
eSATA port	None														
Diskette drive	None														
Media reader	None														
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant				
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®														
Intel AMT	None														
Modem	None														
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant										Supports ThinkVantage® technologies				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo														
Power supply	280 watts with variable speed fan, autosensing, 85% PSU														
Preloaded operating system²⁰				Accessories											
- Genuine Windows® 7 Professional 32				1GB PC3-10600 DDR3 UDIMM				57Y4389							
Preloaded applications⁵ (only some listed)				2GB PC3-10600 DDR3 UDIMM				57Y4390							
• Rescue and Recovery™				500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990							
• Password Manager				1TB SATA 3.0Gb/s Disk (7200 rpm)				45J7918							
• ThinkVantage System Update				Super Multi-Burner DL DVD±RW SATA Drive				41N5620							
• ThinkVantage Power Manager				DisplayPort to Single-link DVI-D Cable				45J7915							
• ThinkVantage Toolbox				DisplayPort to VGA Monitor Cable				57Y4393							
• Norton™ Internet Security 2009 (30 days of virus definitions)				NVIDIA GeForce 512MB 310 (DP, VGA)				57Y4397							
• Adobe® Reader®				More accessories on O-M90 sheet											
• Adobe Flash® Player				Acc Guide in pdf lenovo.com/accessoriesguide											
• Skype™ for Windows				Other accessories at lenovo.com/accessories											
• Microsoft® Office 2007 Trial (60-day)															
• Corel® Burn.Now™ (DVD±RW)															
• Corel DVD MovieFactory® (DVD±RW)															
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378															

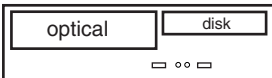
ThinkCentre® M90p Eco Ultra Small (3257) - TopS (XP with Win7 License)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3257-A1U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3257-A2U	1x2	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache		Eco Ultra Small 														
Implementation	Processor in LGA1156 socket																
Memory	3GB std , 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Italics</i> : standard memory in both sockets; no sockets available		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation														
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378														
DP dongle	None																
SATA disk	500GB , SATA 3.0Gb/s 7200 rpm																
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel Express Q57 Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	Internal speaker for business audio																
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)																
Modem	None																
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU																
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD) Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD±RW)		Accessories <table><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>Lenovo Vertical PC and Monitor Stand II</td><td>41R4474</td></tr><tr><td>ThinkCentre Ultra Small Under Desk Mount</td><td>40Y8625</td></tr></table> More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	Lenovo Vertical PC and Monitor Stand II	41R4474	ThinkCentre Ultra Small Under Desk Mount	40Y8625
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																
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Lenovo Vertical PC and Monitor Stand II	41R4474																
ThinkCentre Ultra Small Under Desk Mount	40Y8625																

See footnotes for important warranty information
US models announced January 15, 2010
⌘ US model withdrawn effective February 2010

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(MELB1-4) January 2010

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3257-A5U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Mar 10

- **Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**
- **This model has a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Eco Ultra Small optical disk □ ● □ Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation			
Implementation							
Memory	3GB std , 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Italics: standard memory in both sockets; no sockets available</i>			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement			
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 1277MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display						
DP dongle	None			Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant			
SATA disk	500GB , SATA 3.0Gb/s 7200 rpm						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			Supports ThinkVantage® technologies			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical						
eSATA port	None			Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			
Diskette drive	None						
Media reader	None						
Chipset	Intel Express Q57 Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec						
Speaker	Internal speaker for business audio						
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®						
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)						
Modem	None						
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo						
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo						
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU						
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				Accessories 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories			
Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)							

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3853-A1U	1x2	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3853-A2U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3853-A3U	1x2	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- **Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **These models have a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Eco Ultra Small optical disk	
Implementation	Processor in LGA1156 socket		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3	
Memory	2GB or 3GB std , 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available		• Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation	
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement	
DP dongle	None			
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical			
eSATA port	None		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant	
Diskette drive	None			
Media reader	None			
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)		Supports ThinkVantage® technologies	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			
Intel AMT	Intel Active Management Technology 6.0 (iAMT 6.0)		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
Modem	None			
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			
Preloaded operating system²⁰		Accessories		
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	
Preloaded applications⁵ (only some listed)		Super Multi-Burner DL DVD±RW SATA Drive	41N5620	
		DisplayPort to Single-link DVI-D Cable	45J7915	
• Rescue and Recovery™		DisplayPort to VGA Monitor Cable	57Y4393	
		Lenovo Vertical PC and Monitor Stand II	41R4474	
• Client Security Solution™		ThinkCentre Ultra Small Under Desk Mount	40Y8625	
		More accessories on O-M90 sheet		
• ThinkVantage Productivity Center		Acc Guide in pdf lenovo.com/accessoriesguide		
		Other accessories at lenovo.com/accessories		
• ThinkVantage System Update				
• ThinkVantage Power Manager				
• Lenovo System Toolbox				
• Norton™ Internet Security 2009 (30 days of virus definitions)				
• Adobe® Reader®				
• Adobe Flash® Player				
• Skype™ for Windows				
• Microsoft® Office 2007 Trial (60-day)				
• Corel® Burn.Now™ (DVD±RW)				
• Corel DVD MovieFactory® (DVD±RW)				
• Corel WinDVD® (DVD±RW)				

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3853-A4U	1x2	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10
3853-B5U	1x2	Core i5-660	3.33	3.60	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10
3853-E3U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10
3853-E4U	1x2	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10
3853-E5U	1x2	Core i5-660	3.33	3.60	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10

- **Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **These models have a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Eco Ultra Small optical disk Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation	
Implementation				
Memory	2GB or 3GB std , 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; one socket available			
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1277MB [3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
DP dongle	None			
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)			
Modem	None			
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU			
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32		Accessories 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		
Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)				

ThinkCentre® M90p Eco Ultra Small (5296) - GMP (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁶	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global (G) GMP (P)	Avail date
5296-A1U	1x2	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	G P	Feb 10

- **Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Eco Ultra Small optical disk			
Implementation							
Memory	2GB std , 4GB max, PC3-10600 1333MHz DDR3 , two 204-pin SODIMM sockets (notebook); <i>Non-italics</i> : standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 11.0" W X 9.4" D X 3.1" H • 279mm W X 238mm D X 79mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • System floor stand for vertical orientation			
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			
DP dongle	None						
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive						
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical						
eSATA port	None						
Diskette drive	None						
Media reader	None						
Chipset	Intel Q57 Express Chipset , Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec						
Speaker	Internal speaker for business audio						
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®						
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)						
Modem	None						
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo						
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo						
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU						
Preloaded operating system²⁰				Accessories			
- Genuine Windows® 7 Professional 32				500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
Preloaded applications⁵ (only some listed)				1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918			
• Rescue and Recovery™				Super Multi-Burner DL DVD±RW SATA Drive 41N5620			
• Password Manager				DisplayPort to Single-link DVI-D Cable 45J7915			
• ThinkVantage System Update				DisplayPort to VGA Monitor Cable 57Y4393			
• ThinkVantage Power Manager				Lenovo Vertical PC and Monitor Stand II 41R4474			
• ThinkVantage Toolbox				ThinkCentre Ultra Small Under Desk Mount 40Y8625			
• Norton™ Internet Security 2009 (30 days of virus definitions)				More accessories on O-M90 sheet			
• Adobe® Reader®				Acc Guide in pdf lenovo.com/accessoriesguide			
• Adobe Flash® Player				Other accessories at lenovo.com/accessories			
• Skype™ for Windows							
• Microsoft® Office 2007 Trial (60-day)							
• Corel® Burn.Now™ (DVD±RW)							
• Corel DVD MovieFactory® (DVD±RW)							

See footnotes for important warranty information
US model announced January 15, 2010

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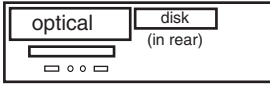
ThinkCentre® M90p Small (3269) - TopSeller (XP with Win7 License)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
3269-A1U	2x3	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3269-A2U	2x3	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Small 																		
Implementation																					
Memory	3GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics: standard memory in two sockets; two sockets available;</i>		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3																		
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation																		
DP dongle	None		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies																		
SATA disk	500GB , SATA 3.0Gb/s 7200 rpm																				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																				
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																				
eSATA port	None																				
Diskette drive	None																				
Media reader	None																				
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																				
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																				
Speaker	Internal speaker for business audio																				
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																				
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)																				
Modem	None																				
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																				
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																				
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction																				
Preloaded operating system ²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD) Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD±RW)			Accessories <table><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>NVIDIA® GeForce® 512MB 310 (DP, VGA)</td><td>57Y4397</td></tr><tr><td>NVIDIA Quadro® 512MB FX380 LP (DP, DVI)</td><td>57Y4396</td></tr></table> More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396
1GB PC3-10600 DDR3 UDIMM	57Y4389																				
2GB PC3-10600 DDR3 UDIMM	57Y4390																				
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																				
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																				
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																				
DisplayPort to Single-link DVI-D Cable	45J7915																				
DisplayPort to VGA Monitor Cable	57Y4393																				
NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397																				
NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396																				
			Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																		

See footnotes for important warranty information

US models announced January 15, 2010

⚡ US model withdrawn effective February 2010

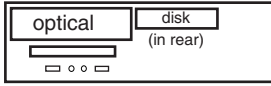
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(MELB1-12) January 2010

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3269-A6U	2x3	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Mar 10
3269-A8U	2x3	Core i5-650	3.20	3.46	2	4GB	320GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 64	None	Mar 10

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Small 																		
Implementation																					
Memory	3GB or 4GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics: standard memory in two sockets; two sockets available</i>		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3																		
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 1277MB[3GB models], 1759MB[4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation																		
DP dongle	None																				
SATA disk	320GB or 500GB , SATA 3.0Gb/s 7200 rpm		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant Supports ThinkVantage® technologies																		
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																				
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical																				
eSATA port	None																				
Diskette drive	None																				
Media reader	None																				
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																				
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																				
Speaker	Internal speaker for business audio																				
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																				
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)																				
Modem	None																				
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																				
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																				
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction																				
Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications⁵ (all OSes; only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)		Accessories <table><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>NVIDIA® GeForce® 512MB 310 (DP, VGA)</td><td>57Y4397</td></tr><tr><td>NVIDIA Quadro® 512MB FX380 LP (DP, DVI)</td><td>57Y4396</td></tr></table> More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
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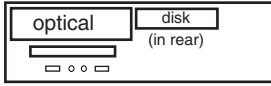
See footnotes for important warranty information
US models announced March 2, 2010

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(MELB1-28) March 2010

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Preload	Recovery DVD	Global Educ	Avail date
5536-A1U	2x3	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-A2U	2x3	Core i5-650	3.20	3.46	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-A3U	2x3	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-E1U	2x3	Core i5-660	3.33	3.60	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

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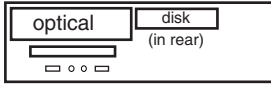
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Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		Small 										
Implementation													
Memory	2GB or 3GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available												
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later												
DP dongle	None		• Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation										
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm												
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Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32																											
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Accessories <table><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>NVIDIA® GeForce® 512MB 310 (DP, VGA)</td><td>57Y4397</td></tr><tr><td>NVIDIA Quadro® 512MB FX380 LP (DP, DVI)</td><td>57Y4396</td></tr><tr><td colspan="2">More accessories on O-M90 sheet</td></tr><tr><td colspan="2">Acc Guide in pdf lenovo.com/accessoriesguide</td></tr><tr><td colspan="2">Other accessories at lenovo.com/accessories</td></tr></table>				1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396	More accessories on O-M90 sheet		Acc Guide in pdf lenovo.com/accessoriesguide		Other accessories at lenovo.com/accessories	
1GB PC3-10600 DDR3 UDIMM	57Y4389																										
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More accessories on O-M90 sheet																											
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Other accessories at lenovo.com/accessories																											

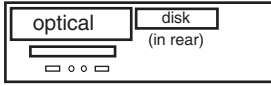
ThinkCentre® M90p Small (5864) - GMP (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global (G) GMP (P)	Avail date
5864-A1U	2x3	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	G P	Feb 10

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

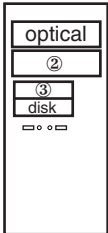
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Small 
Implementation				
Memory	2GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; three sockets available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement
DP dongle	None			
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm			Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical			Supports ThinkVantage® technologies
eSATA port	None			
Diskette drive	None			Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
Media reader	None			
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)			
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®			
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)			
Modem	None			
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo			
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor Correction			
Preloaded operating system²⁰		Accessories		
- Genuine Windows® 7 Professional 32		1GB PC3-10600 DDR3 UDIMM	57Y4389	
		2GB PC3-10600 DDR3 UDIMM	57Y4390	
Preloaded applications⁵ (only some listed)		500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	
• Rescue and Recovery™		1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	
• Password Manager		Super Multi-Burner DL DVD±RW SATA Drive	41N5620	
• ThinkVantage System Update		DisplayPort to Single-link DVI-D Cable	45J7915	
• ThinkVantage Power Manager		DisplayPort to VGA Monitor Cable	57Y4393	
• ThinkVantage Toolbox		NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	
• Norton™ Internet Security 2009 (30 days of virus definitions)		NVIDIA Quadro® 512MB FX380 LP (DP, DVI)	57Y4396	
• Adobe® Reader®		More accessories on O-M90 sheet		
• Adobe Flash® Player		Acc Guide in pdf lenovo.com/accessoriesguide		
• Skype™ for Windows		Other accessories at lenovo.com/accessories		
• Microsoft® Office 2007 Trial (60-day)				
• Corel® Burn.Now™ (DVD±RW)				
• Corel DVD MovieFactory® (DVD±RW)				

See footnotes for important warranty information
US model announced January 15, 2010

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(MELB1-11) January 2010

Personal Systems Reference (PSREF)

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache	 optical ② ③ disk □ ○ □
Implementation	Processor in LGA1156 socket	
Memory	3GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available	
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10*, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display * DirectX 10 is only available with Windows Vista and later	
DP dongle	None	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA disk	500GB , SATA 3.0Gb/s 7200 rpm	
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical	
eSATA port	None	Security - Security chip (see information on left) - One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Hard disk password - Boot sequence control - Boot without keyboard and mouse - Serial port I/O control - Individual USB port disablement
Diskette drive	None	
Media reader	None	
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Environmental Features - EPEAT™ Gold rating - ENERGY STAR® 5.0-compliant - GREENGUARD® certified - RoHS-compliant
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®	
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	

Preloaded operating system ²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD) Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) • Corel WinDVD® (DVD±RW)	Accessories <table><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>DisplayPort to VGA Monitor Cable</td><td>57Y4393</td></tr><tr><td>NVIDIA® GeForce® 512MB 310 (DP, VGA)</td><td>57Y4397</td></tr></table> More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	DisplayPort to VGA Monitor Cable	57Y4393	NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	Supports ThinkVantage® technologies Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
1GB PC3-10600 DDR3 UDIMM	57Y4389																	
2GB PC3-10600 DDR3 UDIMM	57Y4390																	
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																	
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																	
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																	
DisplayPort to Single-link DVI-D Cable	45J7915																	
DisplayPort to VGA Monitor Cable	57Y4393																	
NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397																	

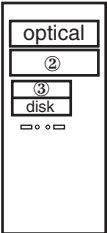
ThinkCentre® M90p Tower (3282) - TopSeller (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3282-A8U	4x4	Core i5-650	3.20	3.46	2	3GB	500GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Mar 10
3282-B1U	4x4	Core i5-650	3.20	3.46	2	4GB	320GB	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 64	None	Mar 10

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 3-year limited warranty¹**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache	Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention 
Implementation	Processor in LGA1156 socket	
Memory	3GB or 4GB std. 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available	
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 1277MB/3GB models, 1759MB/4GB models), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display	
DP dongle	None	
SATA disk	320GB or 500GB , SATA 3.0Gb/s 7200 rpm	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical	
eSATA port	None	
Diskette drive	None	
Media reader	None	
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O	Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®	
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)	
Modem	None	
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo	
Power supply	280 watts with variable speed fan, autosensing, 85% PSU	
Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® 7 Professional 32 - <i>Some:</i> Genuine Windows 7 Professional 64 Preloaded applications⁵ (all OSes; only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)		Accessories 1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4397 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories
		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

See footnotes for important warranty information
US models announced March 2, 2010

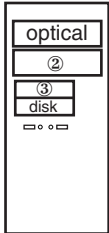
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(MELB1-29) March 2010

Personal Systems Reference (PSREF)

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*
- These models have a 3-year limited warranty†

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

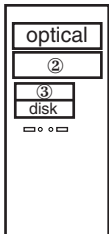
See footnotes for important warranty information
US models announced January 15, 2010

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁶	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0 vPro	Intel vPro	Win7 preload	Global Educ	Avail date	
5498-A4U	4x4	Core i5-650	3.20	3.46	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10	
5498-B5U	4x4	Core i5-660	3.33	3.60	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10	
5498-E7U	4x4	Core i5-650	3.20	3.46	2	3GB	500GB	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10	
5498-E8U	4x4	Core i5-660	3.33	3.60	2	3GB	500GB	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10	
5498-E9U	4x4	Core i5-660	3.33	3.60	2	2GB	250GB	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Feb 10	
• Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology • Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0* • These models have a 3-year limited warranty¹																	
* For more information on Lenovo Secure Managed Client, see lenovo.com/acc																	
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket									Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention							
Implementation										Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk							
Memory	2GB or 3GB std. 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available									Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3							
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1277MB [3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display																
DP dongle	None																
SATA disk	250GB or 500GB , SATA 3.0Gb/s 7200 rpm																
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical																
eSATA port	None																
Diskette drive	None																
Media reader	None																
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)																
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	Internal speaker for business audio																
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®																
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)																
Modem	None																
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant																
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo																
Power supply	280 watts with variable speed fan, autosensing, 85% PSU																
Preloaded operating system²⁰			Accessories														
- Genuine Windows® 7 Professional 32			1GB PC3-10600 DDR3 UDIMM			57Y4389											
Preloaded applications⁵ (only some listed)			2GB PC3-10600 DDR3 UDIMM			57Y4390											
• Rescue and Recovery™			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990											
• Password Manager			1TB SATA 3.0Gb/s Disk (7200 rpm)			45J7918											
• ThinkVantage System Update			Super Multi-Burner DL DVD±RW SATA Drive			41N5620											
• ThinkVantage Power Manager			DisplayPort to Single-link DVI-D Cable			45J7915											
• ThinkVantage Toolbox			DisplayPort to VGA Monitor Cable			57Y4393											
• Norton™ Internet Security 2009 (30 days of virus definitions)			NVIDIA® GeForce® 512MB 310 (DP, VGA)			57Y4397											
• Adobe® Reader®			More accessories on O-M90 sheet														
• Adobe Flash® Player			Acc Guide in pdf lenovo.com/accessoriesguide														
• Skype™ for Windows			Other accessories at lenovo.com/accessories														
• Microsoft® Office 2007 Trial (60-day)																	
• Corel® Burn.Now™ (DVD±RW)																	
• Corel DVD MovieFactory® (DVD±RW)																	
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																	

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global (G) GMP (P)	Avail date
5852-A1U	4x4	Core i5-650	3.20	3.46	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	G P	Feb 10

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0***
- **This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty**

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core , Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket			Tower • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in max configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention 			
Implementation	Processor in LGA1156 socket			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk			
Memory	2GB std , 8GB max, UDIMM, PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; three sockets available			Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3			
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display						
DP dongle	None						
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive						
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical						
eSATA port	None						
Diskette drive	None						
Media reader	None						
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O			Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)						
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec						
Speaker	Internal speaker for business audio						
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®						
Intel AMT	Intel Active Management Technology 6.0 (Intel AMT 6.0)						
Modem	None						
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo						
Mouse	Optical Wheel Mouse (USB connector), black, Lenovo logo						
Power supply	280 watts with variable speed fan, autosensing, 85% PSU						
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32		Accessories 1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4397 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				Supports ThinkVantage® technologies	
Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)				Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

See footnotes for important warranty information
 US model announced January 15, 2010

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 (MELB1-20) January 2010

Partial list of accessories supported on ThinkCentre M90 and M90p**Memory***Eco Ultra Small 3244/3692/3257/3853/5296 use notebook memory:*

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	ann 06/23/09
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	ann 06/23/09
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	ann 06/23/09
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	ann 06/23/09
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	ann 03/02/10
1GB PC3-10600 DDR3 L-H SODIMM (25-Pack)	57Y4415	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	ann 03/02/10
2GB PC3-10600 DDR3 L-H SODIMM (25-Pack)	57Y4416	ann 03/02/10
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	ann 03/02/10

*Small 3245/5485/3269/5536/5864, and**Tower 3246/5474/3282/5498/5852 use desktop memory:*

1GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4389	ann 01/12/10
1GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4419	ann 01/12/10
2GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4390	ann 01/12/10
2GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4420	ann 01/12/10

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Storage and removable storage

250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive ⁵³	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

⁵³ USB-only attach.**Graphics***Small 3245/5485/3269/5536/5864 support Low Profile:*

NVIDIA® GeForce® 512MB 310 (DP, VGA)	57Y4397	ann 02/02/10
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10
NVIDIA Quadro® 512MB FX 380 LP (DP, DVI)	57Y4396	ann 02/02/10

Tower 3246/5474/3282/5498/5852 support 75 watts max:

NVIDIA GeForce 512MB 310 (DP, VGA)	57Y4397	ann 02/02/10
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

More information at www.lenovo.com/support/graphiccards**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
ThinkPad® USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.More information at www.lenovo.com/support/keyboards**Mouse**

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice**Multimedia**

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.**Mounting Device***Eco Ultra Small 3244/3692/3257/3853/5296 support under desk mounting device:*

ThinkCentre Ultra Small Under Desk Mount	40Y8625	ann 09/06/05
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Monitors

Lenovo D186 Wide 18.5" Monitor	2580AB1	ann 01/12/10
Lenovo L2461x Wide 23.6" Monitor	4015HB1	ann 01/05/10
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision**Monitor Accessories⁴⁶***Eco Ultra Small 3244/3692/3257/3853/5296 support:*

Lenovo Vertical PC and Monitor Stand II	41R4474	ann 01/27/09
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All:

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
DisplayPort™ to Single-link DVI-D Cable	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann 08/04/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessories**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower with
Lenovo ThinkVision monitor



Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Integrated graphics	Win7 preload	Global Educ	Avail date
A58e	0841-A4U	4x2	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD	GMA 3100	Pro 32	None	Jan 10
A58e	0841-A5U	4x2	Pentium E5300	2.60	2MB	2	2GB	250GB	DVD±RW	GMA 3100	Pro 32	None	Jan 10
A58e	0841-A6U	4x2	Pentium E5300	2.60	2MB	2	3GB	320GB	DVD±RW	GMA 3100	Pro 32	None	Jan 10
A58e	0841-ADU	4x2	Pentium E5400	2.70	2MB	2	2GB	250GB	DVD±RW	GMA 3100	Pro 32	None	Jan 10
A58e	0841-AEU	4x2	Pentium E5400	2.70	2MB	2	3GB	320GB	DVD±RW	GMA 3100	Pro 32	None	Jan 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- Affordable and reliable computing for everyday business tasks
- These models have a 1-year limited warranty¹

Positioning Processor	Quality and reliability for small/medium business Intel® Celeron® Processor E3200 with dual-core , 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5300 or E5400 with dual-core , 800MHz system bus, and 2MB L2 cache Processor in LGA775 socket			Tower • Business black color; metal case • 6.9" W X 16.7" D X 14.6" H • 175mm W X 425mm D X 371mm H • 19.6 lb (8.9 kg) in typical configuration • Handle on top front • Power button on top handle optical disk		
Implementation						
Memory	1GB, 2GB, or 3GB std. , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-Italics:</i> standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk		
Graphics	Intel Graphics Media Accelerator 3100 (GMA 3100) , integrated graphics in G31, uses main memory, one analog VGA DB-15 connector			Slot 1: half-length,full-height, PCI Express x16 Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3		
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm			Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Boot sequence control • Boot without keyboard, mouse		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7					
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive					
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA cables	Two SATA cables (each 1-drop to device), three SATA connectors					
eSATA port	None					
Diskette drive	None					
Media reader	None					
Chipset	Intel G31 Express Chipset ; I/O Controller Hub 7 (ICH7)					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Four USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	None					
IEEE 1394	None					
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057					
Intel AMT	None					
Modem	None					
Security chip	None					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			RoHS-compliant		
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo					
Power supply	180 watts, universal, manual switch					
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				Limited Warranty ¹ ⇒ 1-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		
Preloaded applications ⁵ (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Power Manager • Norton™ Internet Security 2009 (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)						
Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 - Lenovo USB-to-DVI Monitor Adapter 45K5296 - DisplayPort™ to Single-link DVI-D Cable 45J7915 - DisplayPort to VGA Monitor Cable 57Y4393 - ADD2 DVI-D Monitor Connection (HDCP) 43R1985 - ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 - More accessories on O-A58E sheet - Acc Guide in pdf lenovo.com/accessoriesguide - Other accessories at lenovo.com/accessories						

Partial list of accessories supported on ThinkCentre A58e Tower

Memory

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

DisplayPort™ to Single-link DVI-D Cable ⁵⁰	45J7915	ann 08/05/08
DisplayPort to VGA Monitor Cable ⁵⁰	57Y4393	ann 08/04/09
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

⁵⁰ Attaches to the ThinkCentre compatible DisplayPort graphics card.

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre A58 Small and
Lenovo ThinkCentre A58 Tower



Lenovo ThinkCentre A58 Small with
Lenovo ThinkVision monitor



Lenovo ThinkCentre A58 Small



Lenovo ThinkCentre A58 Small
with dual Lenovo ThinkVision monitors



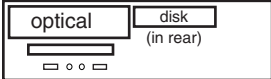
Lenovo ThinkCentre A58 Tower



Lenovo ThinkCentre A58 Tower

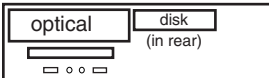
Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁶	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
A58	7522-M8U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	XP Pro	None	Nov 09
A58	7522-K6U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD±RW	GMA	XP Pro	None	Nov 09
A58	7522-K7U	2x3	Pentium E6300	2.80	2MB	2	3GB	320GB	DVD±RW	GMA	XP Pro	None	Nov 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty¹

Positioning Processor	Quality, reliability, and security for small/medium businesses Intel® Celeron® Processor E3200 with dual-core , Virtualization Technology, 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E6300 with dual-core , Virtualization Technology, 1066MHz system bus, and 2MB L2 cache Implementation Processor in LGA775 socket			Small 																			
Memory	1GB, 2GB, or 3GB std. , 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)																			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 512MB <i>[1GB models]</i> , 1GB <i>[2GB or 3GB models]</i>), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation																			
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement																			
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7																						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																						
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar																						
eSATA port	None																						
Diskette drive	None			Supports ThinkVantage® technologies																			
Media reader	None			GREENGUARD® certified RoHS-compliant																			
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			Limited Warranty¹ ➤ 1-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ Post warranty maintenance services available ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																						
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																						
Speaker	One internal speaker for business audio																						
IEEE 1394	None																						
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																						
Intel AMT	None																						
Modem	None																						
Security chip	None																						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																						
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo																						
Power supply	280 watts with variable speed fan, autosensing																						
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional Preloaded applications⁵ (only some listed) • Rescue and Recovery™ • Password Manager • Lenovo Care™ • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Windows Live™ Toolbar • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)		Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>DisplayPort to Single-link DVI-D Cable</td><td>45J7915</td></tr><tr><td>ADD2 DVI-D Monitor Connection (HDCP)</td><td>43R1985</td></tr><tr><td>ATI™ Radeon™ HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® Quadro® 256MB FX 370 LP</td><td>55Y9275</td></tr></table> More accessories on O-A58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	DisplayPort to Single-link DVI-D Cable	45J7915	ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® Quadro® 256MB FX 370 LP	55Y9275
1GB PC2-6400 DDR2 UDIMM	41U2977																						
2GB PC2-6400 DDR2 UDIMM	41U2978																						
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015																						
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																						
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																						
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																						
DisplayPort to Single-link DVI-D Cable	45J7915																						
ADD2 DVI-D Monitor Connection (HDCP)	43R1985																						
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636																						
NVIDIA® Quadro® 256MB FX 370 LP	55Y9275																						

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ^a	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
A58	7522-M9U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	Pro 32	None	Nov 09
A58	7522-P1U	2x3	Pentium E5300	2.60	2MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Nov 09
A58	7522-P2U	2x3	Pentium E5300	2.60	2MB	2	3GB	320GB	DVD±RW	GMA	Pro 32	None	Nov 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **These models have a 1-year limited warranty¹**

Positioning Processor	Quality, reliability, and security for small/medium businesses Intel® Celeron® Processor E3200 with dual-core, Virtualization Tehnology, 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5300 with dual-core, 800MHz system bus, and 2MB L2 cache Processor in LGA775 socket			Small 			
Implementation				Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader)			
Memory	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available			Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention • System floor stand for vertical orientation			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter						
SATA disk	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening						
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH7						
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive						
SATA cables	Two SATA cables (each 1-drop to device), two SATA connectors on planar						
eSATA port	None						
Diskette drive	None						
Media reader	None						
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus)			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec						
Speaker	One internal speaker for business audio						
IEEE 1394	None						
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®						
Intel AMT	None						
Modem	None						
Security chip	None						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo						
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo						
Power supply	280 watts with variable speed fan, autosensing						
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32				Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA™ Quadro® 256MB FX 370 LP 55Y9275 More accessories on O-A58 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories			
Preloaded applications ⁵ (only some listed) • Rescue and Recovery™ • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Lenovo Online Data Backup • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Small Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW)				Limited Warranty ¹ ⇒ 1-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

Partial list of accessories supported on ThinkCentre A58

Memory

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical

All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Tower 7515/7611 supports:

Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675	ann 03/31/09
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Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

Small 7522/7705 support Low Profile 35 watts max:

DisplayPort™ to Single-link DVI-D Cable ⁵⁰	45J7915	ann 08/05/08
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® Quadro® 256MB FX 370 Low-Profile	55Y9275	ann 07/28/09
NVIDIA GeForce® 310 DMS59(2-DVI, 2-VGA)	57Y4167	ann 03/02/10

Tower 7515/7611 supports 75 watts max:

DisplayPort to Single-link DVI-D Cable ⁵⁰	45J7915	ann 08/05/08
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA GeForce 9500GT 512MB (DP, DVI)	45K1635	ann 11/18/08
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

⁵⁰ Attaches to the ThinkCentre compatible DisplayPort graphics card.More information at www.lenovo.com/support/graphiccards**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.More information at www.lenovo.com/support/keyboards**Mouse**

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice**Multimedia**

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision**Monitor Accessories⁴⁶**

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.More information at www.lenovo.com/support/monitoraccessories**Medialess License Key (MLK)**

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessoriesAccessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre A62 Desktop
with four Lenovo ThinkVision monitors



Lenovo ThinkCentre A62 Tower



Lenovo ThinkCentre A62 Desktop



Lenovo ThinkCentre A62 Tower and
Lenovo ThinkCentre A62 Desktop



Lenovo ThinkCentre A62 Desktop
with Lenovo ThinkVision L193p monitor



Lenovo ThinkCentre A62 Tower
with Lenovo ThinkVision L193p monitor

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor connectors	Preload	Global Educ	Avail date	
	A62	9945-A6U	4x3	Sempron LE-1300	2.3	Single	1GB	160GB ²	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jul 09
	A62	9945-A5U	4x3	Athlon 1640B	2.7	Single	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Jul 09
	A62	9945-A7U	4x3	Athlon X2 5000B	2.6	Dual	1GB	250GB	DVD	3100	VGA, DVI-D	XP Pro	None	Jul 09
	A62	9945-A3U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 09
	A62	9945-A8U	4x3	Athlon X2 5400B	2.8	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jul 09
	A62	9945-A9U	4x3	Phenom X3 8600B	2.3	Triple	2GB	250GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jul 09
	A62	9945-A4U	4x3	Phenom X3 8600B	2.3	Triple	4GB	500GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 09
• These small and medium business (SMB) models are part of the US TopSeller™ Program • These models have a 3-year limited warranty¹														
Positioning Processor								Desktop ② optical = . . = disk • Business black color • 13.0" W X 16.2" D X 4.1" H • 331mm W X 412mm D X 104mm H • 19.4lb (8.8kg) in typical configuration • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max) Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3						
Implementation														
Memory														
Graphics														
SATA disk														
SATA controller														
SATA DVD														
SATA DVD±RW														
SATA cables														
eSATA port														
EIDE controller														
Diskette drive														
Media reader														
Chipset														
Front ports														
Rear ports														
Internal connector														
Rear audio ports														
Audio														
Speaker														
Ethernet														
Modem														
Security chip														
Keyboard														
Mouse														
Power supply														
Preloaded operating system ²⁰														
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)														
Preloaded applications ⁵														
• Rescue and Recovery™														
• Client Security Solution™														
• ThinkVantage Productivity Center														
• ThinkVantage System Update														
• McAfee® VirusScan® Plus (30 days of virus definitions)														
• Lenovo System Toolbox														
• Adobe® Reader®														
• Microsoft® Office 2007 Trial (60-day)														
• Roxio® Creator® Business Edition (DVD±RW)														
• Roxio MyDVD® (DVD±RW)														
• Corel® WinDVD® (DVD, DVD±RW)														
Accessories														
1GB PC2-6400 DDR2 UDIMM														
2GB PC2-6400 DDR2 UDIMM														
500GB SATA 3.0Gb/s Disk (7200 rpm)														
DVD-ROM DL SATA 1.5Gb/s 16-48X Max														
Super Multi-Burner DL DVD±RW SATA Drive														
ATI Radeon HD 3470 256MB (DP, VGA)														
More accessories on O-A62 sheet														
Acc Guide in pdf lenovo.com/accessoriesguide														
Other accessories at lenovo.com/accessories														
Security														
• Security chip (see information on left)														
• One lock to secure both cover and entire system to fixed object:														
- Padlock loop (in rear for opt padlock)														
- Security slot (in rear for optional Kensington® MicroSaver® cable)														
• Power-on password														
• Administrator password														
• Hard disk password														
• Boot sequence control														
• Boot without keyboard, mouse, diskette														
• Serial port I/O control														
• Parallel port I/O control														
• Individual USB port disablement														
Supports ThinkVantage® technologies														
GREENGUARD® certified														
RoHS-compliant														
Limited Warranty ¹														
☞ 3-year parts and labor														
☞ International Warranty Service ⁹														
☞ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)														
☞ Onsite service upgrade options (in eligible locations): ⁷														
• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955)														
• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956)														
• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957)														
• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958)														
• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959)														
☞ ThinkPlus services at lenovo.com/thinkplus/warranty														
☞ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378														

See footnotes for important warranty information

☞ US models announced July 7, 2009; previous models on June 2, 2009

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(ATHN1-10) July 2009

	Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Avail date
Ⓢ	A62	9486-F1U	4x3	Athlon 1640B	2.7	Single	1GB	160GB ²	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F2U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F3U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F4U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-J8U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 09
	A62	9486-F5U	4x3	Athlon X2 5000B	2.6	Dual	2GB	250GB	DVD±RW	9300GE	DVI-I	XP Pro	None	Sep 08
	A62	9486-F6U	4x3	Athlon X2 5400B	2.8	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F7U	4x3	Athlon X2 5400B	2.8	Dual	2GB	250GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F8U	4x3	Phenom X3 8450	2.1	Triple	1GB	250GB	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08
	A62	9486-F9U	4x3	Phenom X3 8450	2.1	Triple	2GB	160GB	DVD±RW	9300GE	DVI-I	XP Pro	None	Sep 08
Ⓢ	A62	9486-J6U	4x3	Phenom X3 8600B	2.3	Triple	1GB	160GB	DVD	3100	VGA, DVI-D	XP Pro	None	Jun 09
	A62	9486-J7U	4x3	Phenom X3 8600B	2.3	Triple	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 09
• These models have a 3-year limited warranty ¹														
Positioning Processor		Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 5000B or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+								Desktop ② optical • • • disk • Business black color • 13.0" W X 16.2" D X 4.1" H • 331mm W X 412mm D X 104mm H • 19.4lb (8.8kg) in typical configuration • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention				
Implementation										Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk				
Memory		1GB or 2GB std , 8GB max ⁸ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; <i>F8U/F9U:</i> PC2-5300 667MHz DDR2 , non-parity, dual-channel; <i>Others:</i> PC2-6400 800MHz DDR2 , non-parity, dual-channel								Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max)** Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 ** used in some models				
Graphics		<i>Some:</i> ATI™ Radeon™ 3100 , int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter <i>Some:</i> NVIDIA® GeForce® 9300 GE , PCI Express® x16 adapter, 256MB, one DVI-I connector (includes DVI-to-VGA dongle), S-Video out for TV-out, HDCP, DirectX 10, 30 watts												
SATA disk		160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts								Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement				
SATA controller		Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support												
SATA DVD		<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive												
SATA DVD±RW		<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA cables		Two SATA cables (each 1-drop to device), four SATA connectors on planar												
eSATA port		None												
EIDE controller		None												
Diskette drive		None												
Media reader		None												
Chipset		AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O								Supports ThinkVantage® technologies				
Front ports		Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)								GREENGUARD® certified RoHS-compliant				
Rear ports		Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), F5U/F9U: monitor (DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D)												
Internal connector		Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)								Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹				
Rear audio ports		Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Audio		High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker		One internal speaker for business audio												
Ethernet		Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0												
Modem		None												
Security chip		Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant												
Keyboard		Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo								Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				
Mouse		Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo												
Power supply		220 watts with variable speed fan, manual switch												
Preloaded operating system ²⁰						Accessories								
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)						1GB PC2-5300 CL5 DDR2 UDIMM				73P4984				
						2GB PC2-5300 CL5 DDR2 UDIMM				73P4985				
Preloaded applications⁵ (only some listed)						1GB PC2-6400 DDR2 UDIMM				41U2977				
						2GB PC2-6400 DDR2 UDIMM				41U2978				
• Rescue and Recovery™						500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990				
						DVD-ROM DL SATA 1.5Gb/s 16-48X Max				41N5618				
• Client Security Solution™						Super Multi-Burner DL DVD±RW SATA Drive				41N5620				
						ATI Radeon HD 3470 256MB (DP, VGA)				45K1636				
• McAfee® VirusScan® Plus (30-day)						More accessories on O-A62 sheet								
• Microsoft® Office 2007 Trial (60-day)														
• Roxio® Creator® Business Edition (DVD±RW)														
• Roxio MyDVD® (DVD±RW)														
• Corel® WinDVD® (DVD, DVD±RW)														

See footnotes for important warranty information

Ⓢ US models announced June 2, 2009; previous models on September 9, 2008

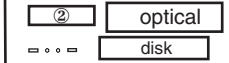
Ⓢ US models withdrawn effective July or August 2009

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Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Avail date
A62	9486-K1U	4x3	Athlon X2 5400B	2.8	Dual	2GB	250GB ²	DVD±RW	3100	VGA, DVI-D	XP Pro	Educ	Jul 09
A62	9486-J9U	4x3	Phenom X3 8600B	2.3	Triple	2GB	250GB	DVD±RW	3100	VGA, DVI-D	XP Pro	Educ	Jul 09

- *These models have a 3-year limited warranty¹*

Positioning Processor	<i>Stability and manageability for large enterprise and mid-market</i> AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+			Desktop ② optical • • • disk • Business black color • 13.0" W X 16.2" D X 4.1" H • 331mm W X 412mm D X 104mm H • 19.4lb (8.8kg) in typical configuration • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max) Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3		
Implementation						
Memory	2GB std , 8GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; three sockets available					
Graphics	ATI™ Radeon™ 3100 , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter					
SATA disk	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support					
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar					
eSATA port	None					
EIDE controller	None					
Diskette drive	None					
Media reader	None					
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)					
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	One internal speaker for business audio					
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0					
Modem	None					
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo					
Power supply	220 watts with variable speed fan, manual switch					
Preloaded operating system²⁰			Accessories			
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)			1GB PC2-6400 DDR2 UDIMM 41U2977			
			2GB PC2-6400 DDR2 UDIMM 41U2978			
			250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015			
			500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990			
Preloaded applications⁵			Super Multi-Burner DL DVD±RW SATA Drive 41N5620			
• Education software			ATI Radeon HD 3470 256MB (DP, VGA) 45K1636			
- VitalSource™ Library School Edition			More accessories on O-A62 sheet			
- Adobe® Elements			Acc Guide in pdf lenovo.com/accessoriesguide			
- Photoshop Elements 6			Other accessories at lenovo.com/accessories			
- Premiere Elements 4						
• Rescue and Recovery™						
• Client Security Solution™						
• ThinkVantage Productivity Center						
• ThinkVantage System Update						
• McAfee® VirusScan® Plus (30 days of virus definitions)						
• Lenovo System Toolbox						
• Adobe Reader®						
• Microsoft® Office 2007 Trial (60-day)						
• Roxio® Creator® Business Edition (DVD±RW)						
• Roxio MyDVD® (DVD±RW)						
• Corel® WinDVD® (DVD±RW)						
Security						
• Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement						
Supports ThinkVantage® technologies						
GREENGUARD® certified RoHS-compliant						
Limited Warranty¹						
➤ 3-year parts and labor						
➤ International Warranty Service®						
➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)						
➤ Onsite service upgrade options (in eligible locations):⁷						
• 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955)						
• 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956)						
• 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957)						
• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958)						
• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959)						
➤ ThinkPlus services at lenovo.com/thinkplus/warranty						
➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378						

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date	
A62	9486-E6U	4x3	Sempron LE-1300	2.3	Single	1GB	160GB ²	DVD±RW	3100	VGA, DVI-D	Business32	Educ	Sep 08	
A62	9486-A4U	4x3	Athlon 1640B	2.7	Single	1GB	160GB	DVD	3100	VGA, DVI-D	Business32		Sep 08	
A62	9486-H9U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32	Educ	Sep 08	
A62	9486-H8U	4x3	Athlon X2 4450B	2.3	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08	
A62	9486-H7U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	Business32		Sep 08	
A62	9486-H6U	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD±RW	9300GE	DVI-I	Business32		Sep 08	
A62	9486-A3U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08	
A62	9486-A1U	4x3	Athlon X2 5400B	2.8	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business32		Sep 08	
A62	9486-A2U	4x3	Phenom X3 8600B	2.3	Triple	2GB	160GB	DVD±RW	3100	VGA, DVI-D	Business64		Sep 08	
• These models have a 3-year limited warranty ¹														
Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Sempron™ Processor LE-1300 with single-core, integrated DDR2 memory controller, and 512KB L2 cache or AMD Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+								Desktop  • Business black color • 13.0" W X 16.2" D X 4.1" H • 331mm W X 412mm D X 104mm H • 19.4lb (8.8kg) in typical configuration • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max)** Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 ** used in some models					
Implementation														
Memory	1GB or 2GB std, 8GB max ⁸ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; <i>H8U/H9U:</i> PC2-5300 667MHz DDR2, non-parity, dual-channel; <i>Others:</i> PC2-6400 800MHz DDR2, non-parity, dual-channel													
Graphics	<i>Some:</i> ATI™ Radeon™ 3100, integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter <i>Some:</i> NVIDIA® GeForce® 9300 GE, PCI Express® x16 adapter, 256MB, one DVI-I connector (includes DVI-to-VGA dongle), S-Video out for TV-out, HDCP, DirectX 10, 30 watts													
SATA disk	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts													
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support													
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive													
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar													
eSATA port	None													
EIDE controller	None													
Diskette drive	None													
Media reader	None													
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), <i>H6U:</i> monitor (DVI-I), S-Video out; <i>Others:</i> monitor (VGA DB-15, DVI-D)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	One internal speaker for business audio													
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0													
Modem	None													
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo													
Power supply	220 watts with variable speed fan, manual switch													
Preloaded operating system ²⁰							Accessories							
- <i>Some:</i> Genuine Windows® Vista® Business 32							1GB PC2-5300 CL5 DDR2 UDIMM		73P4984					
- <i>Some:</i> Genuine Windows Vista Business 64							2GB PC2-5300 CL5 DDR2 UDIMM		73P4985					
◇ Vista Premium logo							1GB PC2-6400 DDR2 UDIMM		41U2977					
							2GB PC2-6400 DDR2 UDIMM		41U2978					
							DVD-ROM DL SATA 1.5Gb/s 16-48X Max		41N5618					
							Super Multi-Burner DL DVD±RW SATA Drive		41N5620					
							ATI Radeon HD 3470 256MB (DP, VGA)		45K1636					
							More accessories on O-A62 sheet							
Preloaded applications ⁵ (all OSes; only some listed)							Acc Guide in pdf lenovo.com/accessoriesguide							
• <i>Some:</i> Education software							Other accessories at lenovo.com/accessories							
- VitalSource™ Library School Edition														
- Adobe® Elements														
- Photoshop Elements 6														
- Premiere Elements 4														
• Rescue and Recovery™														
Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement														
Supports ThinkVantage® technologies														
GREENGUARD® certified RoHS-compliant														
Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378														

See footnotes for important warranty information
 US models announced August 12 or September 9, 2008
 * US models withdrawn effective July 2009

ThinkCentre® A62 Desktop (7057)

Personal Systems Reference (PSREF)

	Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor connectors	ENERGY STAR 5.0	Preload	Global Educ	Avail date
⚡	A62	7057-B5U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB ²	DVD	3100	VGA, DVI-D	None	XP Pro	None	Sep 08
⚡	A62	7057-B6U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	None	XP Pro	None	Sep 08
⚡	A62	7057-B7U	4x3	Athlon X2 5400B	2.8	Dual	2GB	250GB	DVD±RW	3100	VGA, DVI-D	None	XP Pro	None	Sep 08
⚡	A62	7057-B8U	4x3	Phenom X3 8450	2.1	Triple	1GB	160GB	DVD	3100	VGA, DVI-D	None	XP Pro	None	Dec 08
⚡	A62	7057-A3U	4x3	Athlon 1640B	2.7	Single	1GB	160GB	DVD	3100	VGA, DVI-D	None	Bus32	None	Sep 08
⚡	A62	7057-BBU	4x3	Athlon X2 4450B	2.3	Dual	1GB	160GB	DVD	3100	VGA, DVI-D	None	Bus32	None	Sep 08
⚡	A62	7057-A2U	4x3	Athlon X2 5000B	2.6	Dual	1GB	160GB	DVD±RW	3100	VGA, DVI-D	None	Bus32	None	Sep 08
⚡	A62	7057-A1U	4x3	Phenom X3 8600B	2.3	Triple	2GB	160GB	DVD±RW	3100	VGA, DVI-D	None	Bus64	None	Dec 08

• These models have a 3-year limited warranty¹

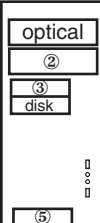
Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+			Desktop	② optical ⋮ disk • Business black color • 13.0" W X 16.2" D X 4.1" H • 331mm W X 412mm D X 104mm H • 19.4lb (8.8kg) in typical configuration • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, access, open* Bay ③ 3.5", 1" high, no access, std disk * supports reader/diskette/2nd disk Slot 1: Low Profile, PCI Express 2.0 x1 Slot 2: Low Profile, PCI Express 2.0 x16 (35w max) Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Implementation				Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement	
Memory	1GB or 2GB std , 8GB max ⁸ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; <i>Others:</i> PC2-5300 667MHz DDR2 , non-parity, dual-channel capable; <i>Axx:</i> PC2-6400 800MHz DDR2 , non-parity, dual-channel capable				
Graphics	ATI™ Radeon™ 3100 , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter				
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Supports ThinkVantage® technologies	
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support				
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive				
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar				
eSATA port	None				
EIDE controller	None				
Diskette drive	None				
Media reader	None				
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			Limited Warranty¹ ⇨ 3-year parts and labor ⇨ International Warranty Service⁹ ⇨ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇨ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇨ ThinkPlus services at lenovo.com/thinkplus/warranty ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	
Speaker	One internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0				
Modem	None				
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo				
Power supply	220 watts with variable speed fan, autosensing, 80% PSU				
Preloaded operating system²⁰		Accessories			
- <i>Some:</i> Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)		1GB PC2-5300 CL5 DDR2 UDIMM		73P4984	
		2GB PC2-5300 CL5 DDR2 UDIMM		73P4985	
		1GB PC2-6400 DDR2 UDIMM		41U2977	
		2GB PC2-6400 DDR2 UDIMM		41U2978	
- <i>Some:</i> Genuine Windows Vista Business 32		500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990	
		DVD-ROM DL SATA 1.5Gb/s 16-48X Max		41N5618	
- <i>Some:</i> Genuine Windows Vista Business 64		Super Multi-Burner DL DVD±RW SATA Drive		41N5620	
⚡ <i>Vista models:</i> Vista Premium logo		ATI Radeon HD 3470 256MB (DP, VGA)		45K1636	
		More accessories on O-A62 sheet			
Preloaded applications⁵ (all OSes; only some listed)		Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessorie			
• Rescue and Recovery™					
• Client Security Solution™					
• ThinkVantage Productivity Center					
• McAfee® VirusScan® Plus (30-day)					
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD, DVD±RW)					

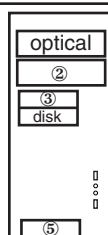
See footnotes for important warranty information

⚡ US models announced December 9, 2008; previous models on August 12 or September 9, 2008

⚡ US models withdrawn effective July, August, or November 2009

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(ATHN1-2) June 2009

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Avail date		
⚡	A62	9485-E4U	4x5 Athlon 1640B	2.7	Single	1GB	160GB ²	Bay	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-E5U	4x5 Athlon X2 5000B	2.6	Dual	1GB	160GB	Bay	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-E6U	4x5 Athlon X2 5000B	2.6	Dual	1GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-E7U	4x5 Athlon X2 5000B	2.6	Dual	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-E8U	4x4 Athlon X2 5400B	2.8	Dual	1GB	250GB		DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-E9U	4x5 Athlon X2 5400B	2.8	Dual	2GB	250GB	Bay	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-F1U	4x5 Phenom X3 8450	2.1	Triple	1GB	160GB	Bay	DVD	3100	VGA, DVI-D	XP Pro	None	Sep 08		
⚡	A62	9485-F2U	4x5 Phenom X3 8450	2.1	Triple	2GB	160GB	Bay	DVD±RW	9300GE	VGA, DVI-I	XP Pro	None	Sep 08		
⚡	A62	9485-H8U	4x5 Phenom X3 8600B	2.3	Triple	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 09		
• These models have a 3-year limited warranty ¹																
Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 5000B or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+									Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention						
Implementation																
Memory	1GB or 2GB std , 8GB max ⁸ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; H8U: PC2-6400 800MHz DDR2 , non-parity, dual-channel; Others: PC2-5300 667MHz DDR2 , non-parity, dual-channel									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk*						
Graphics	<i>Some:</i> ATI™ Radeon™ 3100 , int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter <i>Some:</i> NVIDIA® GeForce® 9300 GE , PCI Express® x16 adapter, 256MB, one analog VGA DB-15 conn via cable, one DVI-I conn, S-Video out for TV-out, HDCP, DirectX 10, 30 watts									* 2nd Disk Bay is only available on some models Slot 1: half-length,full-height, PCIe 2.0 x1 Slot 2: half-length,full-height, PCIe 2.0 x16 (75w max)** Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3 ** used in some models						
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® Microsaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement		Supports ThinkVantage® technologies				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support															
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive															
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar															
eSATA port	None									GREENGUARD® certified RoHS-compliant		Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹				
EIDE controller	None															
Diskette drive	None															
Media reader	None															
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O															
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)									Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant				
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), F2U: monitor (VGA DB-15, DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D)															
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	One internal speaker for business audio									Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0															
Modem	None															
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant															
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo															
Power supply	280 watts with variable speed fan, manual switch															
Preloaded operating system²⁰			Accessories						Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant					
- Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)			1GB PC2-5300 CL5 DDR2 UDIMM			73P4984										
			2GB PC2-5300 CL5 DDR2 UDIMM			73P4985										
			1GB PC2-6400 DDR2 UDIMM			41U2977										
			2GB PC2-6400 DDR2 UDIMM			41U2978										
Preloaded applications⁵ (only some listed)			500GB SATA 3.0Gb/s Disk (7200 rpm)			43R1990			Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant					
• Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • McAfee® VirusScan® Plus (30-day) • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)			DVD-ROM DL SATA 1.5Gb/s 16-48X Max			41N5618										
			Super Multi-Burner DL DVD±RW SATA Drive			41N5620										
			ATI Radeon HD 3470 256MB (DP, VGA)			45K1636										
						NVIDIA® GeForce® 9500GT 512MB (DP, DVI)							45K1635			
			More accessories on O-A62 sheet						Supports ThinkVantage® technologies		GREENGUARD® certified RoHS-compliant					
			Acc Guide in pdf lenovo.com/accessoriesguide													
			Other accessories at lenovo.com/accessories													

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date											
A62	9485-A4U	4x5	Athlon 1640B	2.7	Single	1GB	160GB ²	Bay	DVD	3100	VGA, DVI-D	Bus32		Sep 08											
A62	9485-F9U	4x4	Athlon X2 4450B	2.3	Dual	1GB	160GB		DVD	3100	VGA, DVI-D	Bus32		Sep 08											
A62	9485-F8U	4x5	Athlon X2 4450B	2.3	Dual	1GB	160GB	Bay	DVD±RW	9300GE	VGA, DVI-I	Bus32		Sep 08											
A62	9485-H1U	4x4	Athlon X2 4450B	2.3	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32		Sep 08											
A62	9485-E2U	4x4	Athlon X2 5000B	2.6	Dual	1GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32	Educ	Sep 08											
A62	9485-A1U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	Bus32		Sep 08											
A62	9485-A2U	4x5	Phenom X3 8600B	2.3	Triple	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	Bus64		Sep 08											
• These models have a 3-year limited warranty ¹																									
Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+								Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention																
Implementation									Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Bay ⑤ 3.5", 1" high, no access, opt disk*																
Memory	1GB or 2GB std, 8GB max⁸, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; <i>Fxx/H1U:</i> PC2-5300 667MHz DDR2 , non-parity, dual-channel; <i>Others:</i> PC2-6400 800MHz DDR2 , non-parity, dual-channel								* 2nd Disk Bay is only available on some models Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)** Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 ** used in some models																
Graphics	<i>Some:</i> ATI™ Radeon™ 3100 , int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter <i>Some:</i> NVIDIA® GeForce® 9300 GE , PCI Express® x16 adapter, 256MB, one analog VGA DB-15 conn via cable, one DVI-I conn, S-Video out for TV-out, HDCP, DirectX 10, 30 watts																								
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts								Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement																
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support																								
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive																								
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																								
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																								
eSATA port	None								Supports ThinkVantage® technologies																
EIDE controller	None																								
Diskette drive	None																								
Media reader	None																								
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																								
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)								GREENGUARD® certified RoHS-compliant Limited Warranty¹ ➤ 3-year parts and labor ➤ International Warranty Service⁹ ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), <i>F8U:</i> monitor (VGA DB-15, DVI-I), S-Video out; <i>Others:</i> monitor (VGA DB-15, DVI-D)																								
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																								
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																								
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																								
Speaker	One internal speaker for business audio																								
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0																								
Modem	None																								
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																								
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																								
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																								
Power supply	280 watts with variable speed fan, manual switch																								
Preloaded operating system²⁰ - <i>Some:</i> Genuine Windows® Vista® Business 32 - <i>Some:</i> Genuine Windows Vista Business 64 ♦ Vista Premium logo																									
Preloaded applications⁵ (all OSes; only some listed) • <i>Some:</i> Education software - VitalSource™ Library School Edition - Adobe® Elements - Photoshop Elements 6 - Premiere Elements 4 • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD, DVD±RW)																									
Accessories <table><tr><td>1GB PC2-5300 CL5 DDR2 UDIMM</td><td>73P4984</td></tr><tr><td>2GB PC2-5300 CL5 DDR2 UDIMM</td><td>73P4985</td></tr><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>DVD-ROM DL SATA 1.5Gb/s 16-48X Max</td><td>41N5618</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr></table> More accessories on O-A62 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories								1GB PC2-5300 CL5 DDR2 UDIMM	73P4984	2GB PC2-5300 CL5 DDR2 UDIMM	73P4985	1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	DVD-ROM DL SATA 1.5Gb/s 16-48X Max	41N5618	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635
1GB PC2-5300 CL5 DDR2 UDIMM	73P4984																								
2GB PC2-5300 CL5 DDR2 UDIMM	73P4985																								
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ATI Radeon HD 3470 256MB (DP, VGA)	45K1636																								
NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635																								

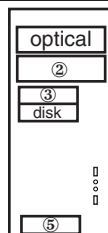
See footnotes for important warranty information

US models announced August 12 or September 9, 2008

⚡ US models withdrawn effective July or December 2009

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(ATHN1-4) September 2008

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Graphics	Monitor connectors	ENERGY STAR 5.0	Preload	Global Educ	Avail date		
A62	9625-B5U	4x4	Athlon X2 5000B	2.6	Dual	1GB	160GB ²		DVD	3100	VGA, DVI-D	None	XP Pro	None	Sep 08		
A62	9625-B6U	4x4	Athlon X2 5000B	2.6	Dual	2GB	160GB		DVD±RW	3100	VGA, DVI-D	None	XP Pro	None	Sep 08		
A62	9625-B7U	4x4	Athlon X2 5400B	2.8	Dual	2GB	250GB		DVD±RW	3100	VGA, DVI-D	None	XP Pro	None	Sep 08		
A62	9625-B9U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB		DVD±RW	9300GE	VGA, DVI-I	None	XP Pro	None	Sep 08		
A62	9625-B8U	4x4	Phenom X3 8450	2.1	Triple	2GB	160GB		DVD	3100	VGA, DVI-D	None	XP Pro	None	Dec 08		
A62	9625-A3U	4x5	Athlon 1640B	2.7	Single	1GB	160GB	Bay	DVD	3100	VGA, DVI-D	None	Bus32	None	Sep 08		
A62	9625-D2U	4x4	Athlon X2 4450B	2.3	Dual	1GB	160GB		DVD±RW	3100	VGA, DVI-D	None	Bus32	None	Sep 08		
A62	9625-A2U	4x5	Athlon X2 5000B	2.6	Dual	1GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	None	Bus32	None	Sep 08		
A62	9625-A1U	4x5	Phenom X3 8600B	2.3	Triple	2GB	160GB	Bay	DVD±RW	3100	VGA, DVI-D	None	Bus64	None	Dec 08		
• These models have a 3-year limited warranty ¹																	
Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ Processor 1640B with single-core, virtualization technology, int DDR2 memory controller, and 512KB L2 cache or AMD Athlon X2 Dual-Core Processor 4450B, 5000B, or 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B with triple-core, virtualization technology, integrated DDR2 memory controller, 1.5MB dedicated L2 cache and 2MB shared L3 cache Processor in Socket AM2 or AM2+									Tower - Business black color 6.9" W X 17.3" D X 15.8" H 175mm W X 440mm D X 402mm H 24.2lb (11.0kg) in typical configuration - Handle on top front - Toolless cover removal - Toolless disk, diskette drive, optical drive removal - Toolless adapter retention							
Implementation										Bay ① 5.25", 1.6" high, access, std optical			Bay ② 5.25", 1.6" high, access, open				
Memory	1GB or 2GB std , 8GB max ⁸ , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available; D2U: PC2-5300 667MHz DDR2 , non-parity, dual-channel capable; <i>Others:</i> PC2-6400 800MHz DDR2 , non-parity, dual-channel capable									Bay ③ 3.5", 1" high, access, open (reader/diskette)			Bay ④ 3.5", 1" high, no access, std disk				
Graphics	<i>Some:</i> ATI™ Radeon™ 3100 , int graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D conn, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI graphics adapter <i>Some:</i> NVIDIA® GeForce® 9300 GE , PCI Express® x16 adapter, 256MB, one analog VGA DB-15 conn via cable, one DVI-I conn, S-Video out for TV-out, HDCP, DirectX 10, 30 watts									* 2nd Disk Bay is only available on some models			Slot 1: half-length, full-height, PCIe 2.0 x1				
												Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max)**			Slot 3: half-length, full-height, 32-bit PCI 2.3		
												Slot 4: half-length, full-height, 32-bit PCI 2.3			** used in some models		
SATA disk	160GB or 250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts									Security - Security chip (see information on left) - One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette - Serial port I/O control - Parallel port I/O control - Individual USB port disablement			Supports ThinkVantage® technologies				
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support																
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive																
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors on planar																
eSATA port	None																
EIDE controller	None									GREENGUARD® certified RoHS-compliant							
Diskette drive	None																
Media reader	None																
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), <i>B9U:</i> monitor (VGA DB-15, DVI-I), S-Video out; <i>Others:</i> monitor (VGA DB-15, DVI-D)																
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)									Limited Warranty¹ 3-year parts and labor - International Warranty Service⁹ - Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) - Onsite service upgrade options (in eligible locations):⁷ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) - Other ThinkPlus services at lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																
Speaker	One internal speaker for business audio																
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0																
Modem	None																
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant									Preloaded operating system²⁰ <i>Some:</i> Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) <i>Some:</i> Genuine Windows Vista Business 32 <i>Some:</i> Genuine Windows Vista Business 64 ◇ Vista models: Vista Premium logo Preloaded applications⁵ (all OSes; only some listed) - Roxio® Creator® Business Edition (DVD±RW) - Roxio MyDVD® (DVD±RW) - Corel® WinDVD® (DVD, DVD±RW)							
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																
Power supply	280 watts with variable speed fan, autosensing, 80% PSU																
Accessories				1GB PC2-5300 CL5 DDR2 UDIMM 73P4984 2GB PC2-5300 CL5 DDR2 UDIMM 73P4985 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI) 45K1635 More accessories on O-A62 sheet													
				Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories													

See footnotes for important warranty information

US models announced December 9, 2008; previous models on August 12 or September 9, 2008

US models withdrawn effective July or August 2009

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(ATHN1-5) June 2009

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Vista preload	Global (G) GMP (P)	Avail date
A62	7061-A1U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB ²	None	DVD±RW	3100	VGA, DVI-D	Bus32	G P	Sep 08

- This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache			optical ② ③ disk Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3		
Implementation	Processor in Socket AM2					
Memory	2GB std , 8GB max ^a , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available					
Graphics	ATI™ Radeon™ 3100 , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter					
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts					
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support					
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors					
eSATA port	None					
EIDE controller	None					
Diskette drive	None					
Media reader	None					
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express® 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)					
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	One internal speaker for business audio					
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0					
Modem	None					
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo					
Power supply	280 watts with variable speed fan, manual switch					
Preloaded operating system²⁰						
- Genuine Windows® Vista® Business 32						
✧ Vista Premium logo						
Preloaded applications⁵						
• Rescue and Recovery™						
• Client Security Solution™						
• ThinkVantage Productivity Center						
• ThinkVantage System Update						
• McAfee® VirusScan® Plus (30 days of virus definitions)						
• Lenovo System Toolbox						
• Adobe® Reader®						
• Microsoft® Office 2007 Trial (60-day)						
• Roxio® Creator® Business Edition (DVD±RW)						
• Roxio MyDVD® (DVD±RW)						
• Corel® WinDVD® (DVD±RW)						
Accessories						
1GB PC2-6400 DDR2 UDIMM				41U2977		
2GB PC2-6400 DDR2 UDIMM				41U2978		
250GB SATA 3.0Gb/s Disk (7200 rpm)				41N3015		
500GB SATA 3.0Gb/s Disk (7200 rpm)				43R1990		
Super Multi-Burner DL DVD±RW SATA Drive				41N5620		
ATI Radeon HD 3470 256MB (DP, VGA)				45K1636		
NVIDIA® GeForce® 9500GT 512MB (DP, DVI)				45K1635		
More accessories on O-A62 sheet						
Acc Guide in pdf lenovo.com/accessoriesguide						
Other accessories at lenovo.com/accessories						
				Supports ThinkVantage® technologies		
				GREENGUARD® certified RoHS-compliant		
				Limited Warranty¹		
				⇒ 3-year parts and labor		
				⇒ International Warranty Service ⁹		
				⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)		
				⇒ Onsite service upgrade options (in eligible locations): ⁷		
				• 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 45K5957)		
				• 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958)		
				• 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959)		
				⇒ ThinkPlus services at lenovo.com/thinkplus/warranty		
				⇒ Post warranty maintenance services available		
				⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378		

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	ENERGY STAR 5.0	Vista preload	Global (G) GMP (P)	Avail date
A62	3656-AAU	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB ²	None	DVD±RW	3100	VGA, DVI-D	None	Bus32	G P	Jan 09

- This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Stability and manageability for large enterprise and mid-market AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core, virtualization technology, integrated DDR2 memory controller, and 1MB dedicated L2 cache			Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention optical ② ③ disk																		
Implementation	Processor in Socket AM2																					
Memory	2GB std , 8GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available			Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette) Bay ④ 3.5", 1" high, no access, std disk																		
Graphics	ATI™ Radeon™ 3100 , integrated graphics in 780V, uses main memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 independent monitors with optional dual-head ATI graphics adapter			Slot 1: half-length, full-height, PCIe 2.0 x1 Slot 2: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3																		
SATA disk	160GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts			Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement																		
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 support																					
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																					
SATA cables	Two SATA cables (each 1-drop to device), four SATA connectors																					
eSATA port	None																					
EIDE controller	None																					
Diskette drive	None																					
Media reader	None																					
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Express 2.0 support; SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support, ATA-133 EIDE, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O																					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																					
Rear ports	Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																					
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																					
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																					
Speaker	One internal speaker for business audio																					
Ethernet	Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN®, ASF 2.0																					
Modem	None																					
Security chip	Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant																					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																					
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																					
Power supply	280 watts with variable speed fan, autosensing, 80% PSU																					
Preloaded operating system ²⁰ - Genuine Windows® Vista® Business 32 ◇ Vista Premium logo				Supports ThinkVantage® technologies																		
Preloaded applications ⁵ • Rescue and Recovery™ • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • McAfee® VirusScan® Plus (30 days of virus definitions) • Lenovo System Toolbox • Adobe® Reader® • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)				GREENGUARD® certified RoHS-compliant																		
Accessories <table><tr><td>1GB PC2-6400 DDR2 UDIMM</td><td>41U2977</td></tr><tr><td>2GB PC2-6400 DDR2 UDIMM</td><td>41U2978</td></tr><tr><td>250GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>41N3015</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 9500GT 512MB (DP, DVI)</td><td>45K1635</td></tr><tr><td colspan="2">More accessories on O-A62 sheet</td></tr></table> Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				1GB PC2-6400 DDR2 UDIMM	41U2977	2GB PC2-6400 DDR2 UDIMM	41U2978	250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635	More accessories on O-A62 sheet		Limited Warranty ¹ ⇒ 3-year parts and labor ⇒ International Warranty Service® ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ Post warranty maintenance services available ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		
1GB PC2-6400 DDR2 UDIMM	41U2977																					
2GB PC2-6400 DDR2 UDIMM	41U2978																					
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015																					
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																					
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ATI Radeon HD 3470 256MB (DP, VGA)	45K1636																					
NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	45K1635																					
More accessories on O-A62 sheet																						

Partial list of accessories supported on ThinkCentre A62

Memory

1GB PC2-5300 CL5 DDR2 UDIMM ⁴⁰	73P4984	ann 06/28/05
1GB PC2-5300 CL5 DDR2 UDIMM (25-Pack)	51J0501	ann 03/17/09
2GB PC2-5300 CL5 DDR2 UDIMM	73P4985	ann 09/26/06
2GB PC2-5300 CL5 DDR2 UDIMM (25-Pack)	51J0547	ann 03/17/09
1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

⁴⁰ When PC2-5300 is installed with systems that have PC2-6400 memory, PC2-6400 will operate at the PC2-5300 memory speed.

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07

USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

Desktop 9486/7057/7062/3658/9945 support Low Profile 35 watts max:		
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
Tower 9705/9935/9485/9625/7061/3656 support 75 watts max:		
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® GeForce® 9500 GT 512MB (DP, DVI)	45K1635	ann 11/18/08

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower with
Lenovo ThinkVision® monitor



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower

Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker	Win7 preload	Global Educ	Avail date
4013-A7U	4x4	Sempron 140	2.7	Single	1GB	250GB ²	None	DVD	None	3000	VGA, DVI-D	Int	Prem 32	None	Feb 10

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 1-year limited warranty¹

Positioning Processor	Optimized for small and medium businesses AMD® Sempron™ Processor 140 with single-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 1MB L2 cache		Tower • Business black color • 6.9" W X 17.4" D X 16.2" H • 175mm W X 442mm D X 412mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, optical drive removal • Toolless adapter retention optical ② ③ disk □ □ □ □	
Implementation	Processor in Socket AM3			
Memory	1GB std , 4GB max, UDIMM, PC3-8500 1066MHz DDR3 , two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available			
Graphics	ATI™ Radeon™ 3000 , integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter			
SATA disk(s)	250GB , SATA 3.0Gb/s 7200 rpm		Bay ① 5.25", 1.6" high, access, std optical	
SATA DVD	DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive		Bay ② 5.25", 1.6" high, access, open	
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors		Bay ③ 3.5", 1" high, access, open (reader)	
eSATA port	None		Bay ④ 3.5", 1" high, no access, std disk	
Diskette drive	None		Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max)	
Media reader	None		Slot 2: half-length,full-height, PCIe 2.0 x1	
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O		Slot 3: half-length,full-height, PCIe 2.0 x1	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		Slot 4: half-length,full-height, 32-bit PCI 2.3	
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)			
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch			
Preloaded operating system ²⁰ - Genuine Windows® 7 Home Premium 32		Accessories 1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 310 512MB (DP, VGA) 57Y4397 More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		
Preloaded applications ⁵ (only some listed) • ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day)				

Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker	Preload	Recovery DVD	Global Educ	Avail date
5043-A1U	4x4	Athlon II X3 435	2.9	Triple	2GB	320GB ²	No	DVD±RW	No	3000	VGA, DVI-D	No	XP Pro	Pro 32	No	Feb 10
5043-A3U	4x4	Athlon II X2 240	2.8	Dual	1GB	250GB	No	DVD±RW	No	3000	VGA, DVI-D	No	XP Pro	Pro 32	No	Feb 10
5043-A4U	4x4	Athlon II X2 240	2.8	Dual	2GB	320GB	No	DVD±RW	No	3000	VGA, DVI-D	No	XP Pro	Pro 32	No	Feb 10
5043-A5U	4x4	Athlon II X2 245	2.9	Dual	2GB	320GB	No	DVD±RW	No	3000	VGA, DVI-D	No	XP Pro	Pro 32	No	Feb 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	Optimized for small and medium businesses AMD® Athlon™ II X2 Processor 240 or 245 with dual-core , 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 435 with triple-core , 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core)		Tower • Business black color • 6.9" W X 17.4" D X 16.2" H • 175mm W X 442mm D X 412mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, optical drive removal • Toolless adapter retention		optical ② ③ disk □ □ □																		
Implementation	Processor in Socket AM3																						
Memory	1GB or 2GB std , 4GB max, UDIMM , two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available; A1U: PC3-10600 1333MHz DDR3; A3U/A4U/A5U: PC3-8500 1066MHz DDR3		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader) Bay ④ 3.5", 1" high, no access, std disk																				
Graphics	ATI™ Radeon™ 3000 , integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter		Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe 2.0 x1 Slot 3: half-length,full-height, PCIe 2.0 x1 Slot 4: half-length,full-height, 32-bit PCI 2.3																				
SATA disk(s)	250GB or 320GB , SATA 3.0Gb/s 7200 rpm		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement																				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																						
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors																						
eSATA port	None																						
Diskette drive	None																						
Media reader	None																						
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O		Supports ThinkVantage® technologies																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		GREENGUARD® certified RoHS-compliant																				
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																						
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																						
Speaker	None		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																						
Modem	None																						
Security chip	None																						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																						
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																						
Power supply	280 watts with variable speed fan, manual switch																						
Preloaded operating system²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD) Preloaded applications⁵ (only some listed) • ThinkVantage Product Recovery • Client Security Solution™ • ThinkVantage Productivity Center • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo System Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day) • Roxio® Creator® Business Edition (DVD±RW) • Roxio MyDVD® (DVD±RW) • Corel® WinDVD® (DVD±RW)		Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 310 512MB (DP, VGA)</td><td>57Y4397</td></tr></table> More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories				1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 310 512MB (DP, VGA)	57Y4397
1GB PC3-8500 DDR3 UDIMM	45J5434																						
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1GB PC3-10600 DDR3 UDIMM	57Y4389																						
2GB PC3-10600 DDR3 UDIMM	57Y4390																						
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1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																						
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																						
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636																						
NVIDIA® GeForce® 310 512MB (DP, VGA)	57Y4397																						

See footnotes for important warranty information
US models announced January 12, 2010

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(ALGS1-2) January 2010

Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker	Win7 preload	Global Educ	Avail date
5043-AEU	4x4	Sempron 140	2.7	Single	2GB	250GB ²	None	DVD±RW	None	3000	VGA, DVI-D	Int	Pro 32	None	Feb 10
5043-AFU	4x4	Athlon II X2 240	2.8	Dual	2GB	250GB	None	DVD±RW	None	3000	VGA, DVI-D	Int	Pro 32	None	Feb 10
5043-AGU	4x4	Athlon II X3 435	2.9	Triple	3GB	320GB	None	DVD±RW	None	3000	VGA, DVI-D	Int	Pro 32	None	Feb 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty¹

Positioning Processor	<i>Optimized for small and medium businesses</i> AMD® Sempron™ Processor 140 with single-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 1MB L2 cache or AMD Athlon™ II X2 Processor 240 with dual-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 435 with triple-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) Processor in Socket AM3		Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader) Bay ④ 3.5", 1" high, no access, std disk	
Implementation				
Memory	2GB or 3GB std, 4GB max, UDIMM, PC3-10600 1333MHz DDR3, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available		Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1 Slot 4: half-length, full-height, 32-bit PCI 2.3	
Graphics	ATI™ Radeon™ 3000, integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Parallel port I/O control • Individual USB port disablement	
SATA disk(s)	250GB or 320GB, SATA 3.0Gb/s 7200 rpm			
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors			
eSATA port	None			
Diskette drive	None			
Media reader	None			
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)		Supports ThinkVantage technologies	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		GREENGUARD® certified	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)		RoHS-compliant	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®			
Modem	None			
Security chip	None			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch			
Preloaded operating system ²⁰	- Genuine Windows® 7 Professional 32			
Preloaded applications ⁵ (only some listed)	• ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day)			
Accessories	1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 310 512MB (DP, VGA) 57Y4397 More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

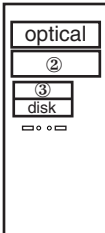
Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker	Win7 preload	Global Educ	Avail date
5237-AAU	4x4	Athlon II X2 240	2.8	Dual	2GB	250GB ²	No	DVD±RW	None	3000	VGA, DVI-D	Int	Pro 32	No	Feb 10

- **This model has a 1-year limited warranty¹**

Positioning Processor	Optimized for small and medium businesses AMD® Athlon™ II X2 Processor 240 with dual-core , 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 2MB L2 cache (1MB per core) Processor in Socket AM3		Tower • Business black color • 6.9" W X 17.4" D X 16.2" H • 175mm W X 442mm D X 412mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, optical drive removal • Toolless adapter retention optical ② ③ disk □ □ □ □		
Implementation	Processor in Socket AM3				
Memory	2GB std , 4GB max, UDIMM, PC3-10600 1333MHz DDR3 , two 240-pin DIMM sockets; <i>Non-italics</i> : standard memory in one socket; one socket available				
Graphics	ATI™ Radeon™ 3000 , integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader) Bay ④ 3.5", 1" high, no access, std disk		
SATA disk(s)	250GB , SATA 3.0Gb/s 7200 rpm		Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max)		
SATA DVD	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		Slot 2: half-length,full-height, PCIe 2.0 x1		
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors		Slot 3: half-length,full-height, PCIe 2.0 x1		
eSATA port	None		Slot 4: half-length,full-height, 32-bit PCI 2.3		
Diskette drive	None				
Media reader	None				
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	Internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®				
Modem	None				
Security chip	None				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo				
Power supply	280 watts with variable speed fan, manual switch		Supports ThinkVantage® technologies		
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32		Accessories 1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 310 512MB (DP, VGA) 57Y4397 More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories		GREENGUARD® certified RoHS-compliant	
Preloaded applications⁵ (only some listed) • ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day)		Limited Warranty¹ ➤ 1-year parts and labor ➤ International Warranty Service® ➤ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ➤ Onsite service upgrade options (in eligible locations):⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ➤ ThinkPlus services at lenovo.com/thinkplus/warranty ➤ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

Type-model	Slot x bay	AMD processor	GHz	Core	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Int speaker	Chassis intr switch	Recovery DVD	Global Educ	Avail date
6674-A4U	4x4	Athlon II X3 435	2.9	Triple	2GB	320GB ²	No	DVD±RW	3000	VGA, DVI-D			XP Pro	Pro 32	None Feb 10
6674-A6U	4x4	Athlon II X2 240	2.8	Dual	1GB	250GB	No	DVD	3000	VGA, DVI-D			XP Pro	Pro 32	None Feb 10
6674-A8U	4x4	Athlon II X2 245	2.9	Dual	2GB	320GB	No	DVD±RW	3000	VGA, DVI-D	Int	Switch	XP Pro	Pro 32	None Feb 10
6674-AFU	4x4	Athlon II X2 245	2.9	Dual	2GB	320GB	No	DVD±RW	3000	VGA, DVI-D	Int		XP Pro	Pro 32	None Feb 10

- These models have a 3-year limited warranty¹

Positioning Processor	Optimized for small and medium businesses AMD® Athlon™ II X2 Processor 240 or 245 with dual-core , 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 435 with triple-core , 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) Processor in Socket AM3		Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention		
Implementation					
Memory	1GB or 2GB std. , 4GB max, UDIMM , two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available; <i>A4U:</i> PC3-10600 1333MHz DDR3 ; <i>A6U/A8U/AFU:</i> PC3-8500 1066MHz DDR3		Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, opt reader Bay ④ 3.5", 1" high, no access, std disk		
Graphics	ATI™ Radeon™ 3000 , integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter		Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe 2.0 x1 Slot 3: half-length,full-height, PCIe 2.0 x1 Slot 4: half-length,full-height, 32-bit PCI 2.3		
SATA disk(s)	250GB or 320GB , SATA 3.0Gb/s 7200 rpm		Security		
SATA DVD	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive		• One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • <i>Some:</i> Chassis intrusion switch		
SATA DVD±RW	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors				
eSATA port	None				
Diskette drive	None				
Media reader	None				
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	<i>Some:</i> Internal speaker for business audio				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®				
Modem	None				
Security chip	None				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo				
Power supply	280 watts with variable speed fan, manual switch				
Preloaded operating system²⁰		Accessories			
- Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)		1GB PC3-8500 DDR3 UDIMM		45J5434	
		2GB PC3-8500 DDR3 UDIMM		45J5435	
Preloaded applications⁵ (only some listed)		1GB PC3-10600 DDR3 UDIMM		57Y4389	
		2GB PC3-10600 DDR3 UDIMM		57Y4390	
• ThinkVantage Product Recovery		500GB SATA 3.0Gb/s Disk (7200 rpm)		43R1990	
		1TB SATA 3.0Gb/s Disk (7200 rpm)		45J7918	
• Client Security Solution™		DVD-ROM DL SATA 1.5Gb/s 16X-48X Max		41N5618	
		Super Multi-Burner DL DVD±RW SATA Drive		41N5620	
• ThinkVantage Productivity Center		ATI Radeon HD 3470 256MB (DP, VGA)		45K1636	
		NVIDIA® GeForce® 310 512MB (DP, VGA)		57Y4397	
• ThinkVantage System Update		More accessories on O-A63 sheet			
		Acc Guide in pdf lenovo.com/accessoriesguide			
• ThinkVantage Power Manager		Other accessories at lenovo.com/accessories			
• Norton™ Internet Security 2009 (30 days of virus definitions)					
• Adobe® Reader®					
• Adobe Flash® Player					
• Skype™ for Windows					
• Microsoft® Office 2007 Trial (60-day)					
• Roxio® Creator® Business Edition (DVD±RW)					
• Roxio MyDVD® (DVD±RW)					
• Corel® WinDVD® (DVD, DVD±RW)					

See footnotes for important warranty information
US models announced January 12, 2010

Type-model	Slot x bay	AMD processor	GHz	Memory ^a	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker	Chassis intr switch	Win7 Preload	Global Educ	Avail date
6674-ABU	4x4	Phenom II X4 B93	2.8	3GB	500GB ²	No	DVD±RW	Media	3000	VGA, DVI-D	Int	Switch	Pro 32	None	Feb 10
6674-ANU	4x4	Athlon II X2 240	2.8	2GB	250GB	No	DVD±RW		3000	VGA, DVI-D	Int		Pro 32	None	Feb 10
6674-APU	4x4	Athlon II X3 435	2.9	2GB	250GB	No	DVD±RW		3000	VGA, DVI-D	Int		Pro 32	None	Feb 10
6674-ARU	4x4	Sempron 140	2.7	2GB	250GB	No	DVD±RW		3000	VGA, DVI-D	Int		Pro 32	None	Feb 10
6674-ASU	4x4	Athlon II X2 245	2.9	2GB	250GB	No	DVD±RW		3000	VGA, DVI-D	Int		Pro 32	None	Feb 10

• **These models have a 3-year limited warranty¹**

Positioning Processor	<i>Optimized for small and medium businesses</i> AMD® Sempron™ Processor 140 with single-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 1MB L2 cache or AMD® Athlon™ II X2 Processor 240 or 245 with dual-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 435 with triple-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) or AMD Phenom™ II X4 Processor B93 with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, int DDR3 memory controller, 2MB L2 cache (512KB per core), and 6MB shared L3 cache Processor in Socket AM3	Tower • Business black color • 6.9" W X 17.3" D X 15.8" H • 175mm W X 440mm D X 402mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle • Tilted front I/O for easy access • Toolless cover removal • Toolless disk, diskette drive, optical drive removal • Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, opt reader Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length, full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1 Slot 4: half-length, full-height, 32-bit PCI 2.3																			
Implementation																					
Memory	2GB or 3GB std, 4GB max, UDIMM, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in 1 socket; 1 socket available; ABU/APU/ARU/ASU: PC3-10600 1333MHz DDR3; ANU: PC3-8500 1066MHz DDR3		Security • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Parallel port I/O control • Individual USB port disablement • <i>Some:</i> Chassis intrusion switch																		
Graphics	ATI™ Radeon™ 3000, integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter																				
SATA disk(s)	250GB or 500GB, SATA 3.0Gb/s 7200 rpm																				
SATA DVD±RW	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																				
SATA Controller	Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors																				
eSATA port	None																				
Diskette drive	None																				
Media reader	<i>Some:</i> 25-in-1 media reader, internal USB 2.0																				
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																				
Rear ports	Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D)																				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)																				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																				
Speaker	Internal speaker for business audio																				
Ethernet	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®																				
Modem	None																				
Security chip	None																				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																				
Mouse	Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo																				
Power supply	280 watts with variable speed fan, manual switch																				
Preloaded operating system²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Skype™ for Windows • Microsoft® Office 2007 Trial (60-day)		Accessories <table><tr><td>1GB PC3-8500 DDR3 UDIMM</td><td>45J5434</td></tr><tr><td>2GB PC3-8500 DDR3 UDIMM</td><td>45J5435</td></tr><tr><td>1GB PC3-10600 DDR3 UDIMM</td><td>57Y4389</td></tr><tr><td>2GB PC3-10600 DDR3 UDIMM</td><td>57Y4390</td></tr><tr><td>500GB SATA 3.0Gb/s Disk (7200 rpm)</td><td>43R1990</td></tr><tr><td>1TB SATA 3.0Gb/s Disk (7200 rpm)</td><td>45J7918</td></tr><tr><td>Super Multi-Burner DL DVD±RW SATA Drive</td><td>41N5620</td></tr><tr><td>ATI Radeon HD 3470 256MB (DP, VGA)</td><td>45K1636</td></tr><tr><td>NVIDIA® GeForce® 310 512MB (DP, VGA)</td><td>57Y4397</td></tr></table> More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories	1GB PC3-8500 DDR3 UDIMM	45J5434	2GB PC3-8500 DDR3 UDIMM	45J5435	1GB PC3-10600 DDR3 UDIMM	57Y4389	2GB PC3-10600 DDR3 UDIMM	57Y4390	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	NVIDIA® GeForce® 310 512MB (DP, VGA)	57Y4397	Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) ⇒ Onsite service upgrade options (in eligible locations):⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ⇒ ThinkPlus services at lenovo.com/thinkplus/warranty ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378
1GB PC3-8500 DDR3 UDIMM	45J5434																				
2GB PC3-8500 DDR3 UDIMM	45J5435																				
1GB PC3-10600 DDR3 UDIMM	57Y4389																				
2GB PC3-10600 DDR3 UDIMM	57Y4390																				
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990																				
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918																				
Super Multi-Burner DL DVD±RW SATA Drive	41N5620																				
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636																				
NVIDIA® GeForce® 310 512MB (DP, VGA)	57Y4397																				

See footnotes for important warranty information
 US models announced January 12, 2010

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 (ALGS1-5) January 2010

Partial list of accessories supported on ThinkCentre A63

Memory

1GB PC3-8500 DDR3 UDIMM ⁴⁰	45J5434	ann 11/18/08
1GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4421	ann 11/10/09
2GB PC3-8500 DDR3 UDIMM	45J5435	ann 11/18/08
2GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4422	ann 11/10/09
1GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4389	ann 01/12/10
1GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4419	ann 01/12/10
2GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4390	ann 01/12/10
2GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4420	ann 01/12/10

⁴⁰ When PC3-8500 is installed with systems that have PC3-10600 memory, PC3-10600 will operate at the PC3-8500 memory speed.

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620	ann 09/26/06

Storage and removable storage

250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08

USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive ⁵³	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

⁵³ USB-only attach.

Graphics

ATI™ Radeon™ HD 3470 256MB (DP, VGA) ⁵⁸	45K1636	ann 11/18/08
NVIDIA® GeForce® 310 512MB (DP, VGA)	57Y4397	ann 02/02/10
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

⁵⁸ Installing this graphics card does not disable the system monitor ports, thereby allowing a four monitor configuration.

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

⁵⁶ Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

Lenovo D186 Wide 18.5" Monitor	2580AB1	ann 01/12/10
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

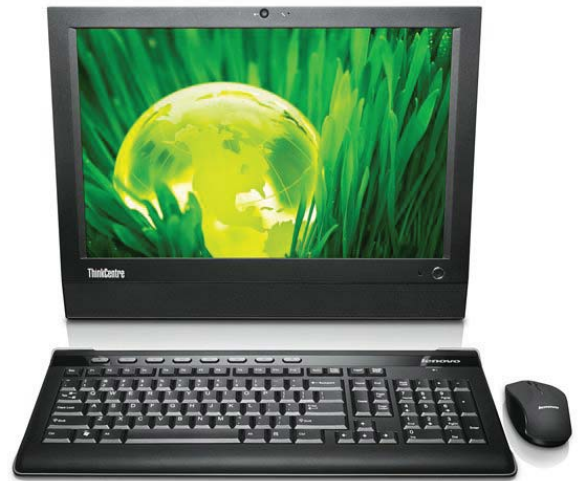
www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide



Lenovo ThinkCentre A70z All-In-One
(Wireless keyboard & mouse
on selected models only)



Lenovo ThinkCentre A70z All-In-One



Lenovo ThinkCentre A70z All-In-One



Lenovo ThinkCentre A70z All-In-One



ThinkCentre A70z Performance Stand
57Y4277



Lenovo ThinkCentre A70z All-In-One

Type-model	Proc- essor	GHz	Memory	Widescreen display	Camera (mega- pixel)	Integrated graphics	SATA disk	SATA optical	Mini PCIe 802.11 wireless	Keyboard /Mouse	ENERGY STAR 5.0	Win7 preload	Global Educ	Avail date
1165-A1U	E3200	2.40	1GB	19.0" WXGA+	1.3M	GMA X4500	250GB ²	DVD±RW		USB	ES50	Home P	None	Dec 09
1165-A2U	E5300	2.60	2GB	19.0" WXGA+	1.3M	GMA X4500	320GB	DVD±RW		USB	ES50	Pro 32	None	Dec 09
1165-A3U	E7500	2.93	2GB	19.0" WXGA+	1.3M	GMA X4500	320GB	DVD±RW	11b/g/n ¹²	USB	ES50	Pro 32	None	Dec 09

- **These small and medium business (SMB) models are part of the US TopSeller™ Program**
- **Best space saving solution & excellent cable management**
- **These models have a 1-year limited warranty¹**

Positioning Processor	<i>All-In-One PC for business customers</i> Intel® Celeron® Processor E3200 with dual-core , 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5300 with dual-core , 800MHz system bus, and 2MB L2 cach or Intel Core™ 2 Duo Processor E7500 with dual-core , 1066MHz system bus, and 3MB L2 cache Processor in LGA775 socket			All-In-One • Business black color • 18.58" W X 2.87" D X 14.0" H • 472mm W X 73mm D X 356mm H • 17.6 lb (8 kg) in maximum configuration • Handle in rear • Support VESA mount (100mm) • Picture frame style metallic stand (Tilt 10°-35°)		
Implementation				Bay ① 3.5", 1" high, no access, std disk (desktop) Bay ② slim, .5" high, access, std optical (notebook)		
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available					
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500) , integrated graphics in G41, uses main memory, DirectX® 10			Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) • Boot sequence control • Boot without keyboard, mouse • USB port disablement		
SATA disk	250GB or 320GB , SATA 3.0Gb/s, 3.5" wide, 7200 rpm					
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable					
eSATA port	None					
Diskette drive	None					
Media reader	None					
Widescreen display	19.0" (482.6mm) WXGA+ (1440x900) TFT color , anti-glare, CCFL backlight, 300 nits, 16:10 aspect ratio, 1000:1 contrast ratio					
Camera	<i>Some:</i> camera on top of screen, 1.3-megapixel, fixed focus, integrated microphone (mono), LED indicator					
Chipset	Intel G41 Express Chipset ; I/O Controller Hub 7 (ICH7)					
Ports	<i>Rear:</i> Three USB 2.0, serial (9-pin), ethernet (RJ-45) <i>Side:</i> Three USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Mini PCI Express	One Mini PCI Express slot <i>Some:</i> 11b/g/n wireless ¹³ , Mini PCIe adapter, Broadcom® BCM43225					
11b/g/n ¹²	High Definition (HD) Audio, CONEXANT™ CX20582 codec					
Audio	Two internal speakers (2 watt x 2)					
Speaker	None					
IEEE 1394	None					
Ethernet	Gigabit ethernet on planar, Realtek® RTL8111DL					
Intel AMT	None					
Modem	None					
Security chip	None					
Keyboard	Preferred Pro USB Keyboard (USB), 104-key, black, Lenovo® logo					
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo					
Power supply	130 watts, autosensing, 85% PSU					
Preloaded operating system ²⁰				Accessories		
- <i>Some:</i> Genuine Windows® 7 Home Premium 32				1GB PC2-6400 DDR2 UDIMM 41U2977		
- <i>Some:</i> Genuine Windows 7 Professional 32				2GB PC2-6400 DDR2 UDIMM 41U2978		
				ThinkCentre A70z Performance Stand 57Y4277		
				More accessories on O-A70Z sheet		
Preloaded applications ⁵ (only some listed)				Acc Guide in pdf lenovo.com/accessoriesguide		
• ThinkVantage Product Recovery				Other accessories at lenovo.com/accessories		
• ThinkVantage System Update						
• ThinkVantage Power Manager						
• ThinkVantage Toolbox						
• Lenovo Online Data Backup						
• Norton™ Internet Security 2009 (30 days of virus definitions)						
• Adobe® Reader®						
• Adobe Flash® Player						
• Skype™ for Windows						
• Microsoft® Office 2007 Trial (60-day)						
• Roxio® Creator® Business Edition (DVD±RW)						
• Roxio MyDVD® (DVD±RW)						
				Supports ThinkVantage® technologies		
				ENERGY STAR® 5.0-compliant RoHS-compliant		
				Limited Warranty ¹		
				⇒ 1-year parts and labor		
				⇒ International Warranty Service ⁹		
				⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)		
				⇒ Onsite service upgrade options (in eligible locations): ⁷		
				• 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951)		
				• 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949)		
				• 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952)		
				• 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950)		
				• 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953)		
				⇒ ThinkPlus services at lenovo.com/thinkplus/warranty		
				⇒ Post warranty maintenance services available		
				⇒ 24 hour x 7 day ¹⁴ toll-free support during the warranty period ¹ via 800-426-7378		

See footnotes for important warranty information
 US models announced November 17, 2009

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 (TYMA1-1) November 2009

Partial list of accessories supported on ThinkCentre A70z AIO

Memory

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07

USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 Essential Memory Key 32GB	45K1258	ann 10/28/08
USB 2.0 Ultra Secure Memory Key 1GB	45J5915	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 2GB	45J5916	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 4GB	45J5917	ann 08/26/08
USB 2.0 Ultra Secure Memory Key 8GB	45J5918	ann 08/26/08
USB 2.0 Portable 320GB Hard Disk	45K1689	ann 03/17/09
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	ann 01/07/10
USB 2.0 Super Multi-Burner Drive	41N5565	ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
UltraSlim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10
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Security

Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Stand

ThinkCentre A70z Performance Stand	57Y4277	ann 11/17/09
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Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit:

www.lenovo.com/support/accessories
www.lenovo.com/support/desktopaccessories
www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

**Partial list of Lenovo® ThinkPlus Services⁷
for ThinkCentre desktops**

For more information see:

http://www.lenovo.com/services_warranty/us/en/index.html
ThinkPlus service upgrade options for ThinkCentre M series
ThinkCentre desktop with 1-year Onsite warranty
LOR = Lenovo Onsite Repair

1-year LOR 9x5 4-hour response	41C9189
2-year LOR 9x5 Next Business Day	41C9187
2-year LOR 9x5 4-hour response	41C9190
3-year LOR 9x5 Next Business Day	41C9188
3-year LOR 9x5 4-hour response	41C9191

ThinkCentre desktop with 3-year Onsite warranty
LOR = Lenovo Onsite Repair

3-year LOR 9x5 4-hour response	41C9192
3-year LOR 24x7 4-hour response	41C9193
4-year LOR 9x5 Next Business Day	41C9194
4-year LOR 9x5 4-hour response	41C9195
4-year LOR 24x7 4-hour response	41C9196

ThinkPlus service upgrade options for ThinkCentre A series
ThinkCentre desktop with 1-year Onsite warranty
LOR = Lenovo Onsite Repair

1-year LOR 9x5 4-hour response	45K5951
2-year LOR 9x5 Next Business Day	45K5949
2-year LOR 9x5 4-hour response	45K5952
3-year LOR 9x5 Next Business Day	45K5950
3-year LOR 9x5 4-hour response	45K5953

ThinkCentre desktop with 3-year Onsite warranty
LOR = Lenovo Onsite Repair

3-year LOR 9x5 4-hour response	45K5955
3-year LOR 24x7 4-hour response	45K5956
4-year LOR 9x5 Next Business Day	45K5957
4-year LOR 9x5 4-hour response	45K5958
4-year LOR 24x7 4-hour response	45K5959
5-year LOR 9x5 Next Business Day	45K5963

ThinkPlus Secure Business
Lenovo Online Data Backup

- Secure offsite data storage
- 256-bit Advanced Encryption System
- Data recovery or access in case of an unforeseen event
- Automatic, remote management
- Choose which business critical data to back up

1-year Lenovo Online Data Backup - 10GB	51J0787
1-year Lenovo Online Data Backup - 25GB	51J0795
1-year Lenovo Online Data Backup - 50GB	45K5849
1-year Lenovo Online Data Backup - Unlimited	45K5870

ThinkPlus Priority Support for enterprise customers

- 9x5 next-business-day response Lenovo Onsite Repair
- 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

3-year Priority Support	45J9087
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ThinkCentre desktop with 3-year Onsite warranty

3-year Priority Support	45J9088
4-year Priority Support	45J9089
5-year Priority Support	45J9090
3-year Priority Support 4-hour response	45J9091
4-year Priority Support 4-hour response	45J9092
5-year Priority Support 4-hour response	45J9093

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

- ¹ **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- ² **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- ³ **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
- ⁴ **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.
- ⁵ **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

⁶ **Multi-Burner Plus** (part number 73P3305 or 73P3370) is a DVD±RW device that reads and writes to DVD-RAM, DVD-R, DVD-RW, DVD+R, and DVD+RW. It also reads and writes to CD-R and CD-RW media. 73P3370 also writes to DVD+R double layer media.

⁷ **ThinkPlus Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.

⁸ **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.

⁹ **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

¹⁰ **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

¹¹ **For combination drives,** maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

¹² **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

¹³ **Wireless capability:** Requires compatible wireless-enabled options sold separately.

¹⁴ **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

¹⁵ **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.

¹⁶ **Embedded Security Subsystem** works with optional VPN software.

- ¹⁸ **Embedded Security Subsystem** may require download of client security software from the Web.
- ¹⁹ **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- ²⁰ **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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