

ThinkCentre M82 Small and Tower

ThinkCentre®



Lenovo ThinkCentre M82
Small and Tower



Lenovo ThinkCentre M82 Tower
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M82 Small



Lenovo ThinkCentre M82 Small
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M82 Tower



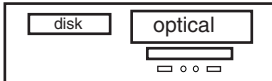
Lenovo ThinkCentre M82 Tower

ThinkCentre M82 Small (3306) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-A1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A2U	4x3	i5-3470	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A3U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 06/19/12
3306-A4U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Pro 64 06/19/12
3306-A5U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64 06/19/12
3306-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64 06/19/12
3306-D1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64 07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			
Graphics	<i>Some:</i> Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> AMD Radeon™ HD 7350 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> AMD Radeon HD 7450 , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors			
DP dongle	None			
Disk	SATA 6.0Gb/s 7200 rpm			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector			
eSATA port	None			
Media reader	None			
Chipset	Intel Q75 Express Chipset			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
IEEE 1394	None			
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®			
Manageability	Intel Standard Manageability			
Modem	None			
Security chip	Trusted Platform Module (TPM 1.2-compliant)			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo			
Floor Stand	System floor stand for vertical orientation			
Power supply	240 watts, autosensing, active Power Factor Correction			
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention			
Bay	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, opt reader			
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		Security ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information
US models announced June 19 or July 10, 2012

©Lenovo
(MDTN1-6) July 2012

ThinkCentre M82 Small (3306) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-B1U	4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Pro 64 07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology		Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Implementation	Processor in LGA1155 socket		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>		
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	System floor stand for vertical orientation		
Power supply	240 watts, autosensing, active Power Factor Correction		
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention		
Bay	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, opt reader		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3		
disk optical			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		
Security ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)			
GREENGUARD® certified RoHS-compliant			
Supports ThinkVantage Technologies			
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information
US model announced July 10, 2012

©Lenovo
(MDTN1-12) November 2013

ThinkCentre M82 Small (3306) - TopSeller - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3306-B2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	07/10/12
3306-B3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	07/10/12
3306-F1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability		Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		
Implementation	Processor in LGA1155 socket		Security ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz		
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	System floor stand for vertical orientation		
Power supply	240 watts, autosensing, active Power Factor Correction		
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention		
Bay	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, opt reader		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3		
disk optical			
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		

See footnotes for important warranty information
US models announced July 10 or September 4, 2012

©Lenovo
(MDTN1-13) September 2012

ThinkCentre M82 Small (3306) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3306-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-F2U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-F3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	10/23/12
3306-F4U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-G1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-G2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-G3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	10/23/12
3306-H1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	03/05/13
3306-J1U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	03/12/13
3306-J2U	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	03/12/13
3306-J3U	4x3	i5-3475S	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	03/12/13
Positioning	Mainstream enterprise stability and manageability											Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™ Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet	
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket												
Implementation	Processor in LGA1155 socket												
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets												
Graphics	Some: Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	Intel Q75 Express Chipset												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, active Power Factor Correction												
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention												
Bay	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, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

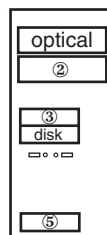
ThinkCentre M82 Tower (3302) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3302-A1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3302-A2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3302-A3U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3302-A4U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7350	None	None	None	None	Pro 64	06/19/12
3302-A5U	4x5	i5-3470	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	None	None	Pro 64	06/19/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64
Implementation			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Graphics	<i>Some:</i> Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> AMD Radeon™ HD 7350 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors <i>Some:</i> AMD Radeon HD 7450 , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors		
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) ● Cable lock ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
Machine	● 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 maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal		
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk		
Slot	Slot 1: half-length, full-height, PCI Express 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		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		

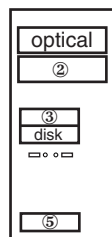


ThinkCentre M82 Tower (3302) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3302-B1U	4x5	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	07/10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system							
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64							
Implementation															Ready to install applications (only some listed)			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										• Rescue and Recovery™ • Password Manager							
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz										Preloaded applications (only some listed)							
DP dongle	None										• ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)							
Disk	SATA 6.0Gb/s 7200 rpm										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) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)							
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset																	
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector																	
eSATA port	None																	
Media reader	None																	
Chipset	Intel Q75 Express Chipset																	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector																	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																	
Speaker	Internal speaker for business audio																	
IEEE 1394	None																	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®																	
Manageability	Intel Standard Manageability																	
Modem	None																	
Security chip	Trusted Platform Module (TPM 1.2-compliant)																	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo																	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																	
Power supply	280 watts with variable speed fan, manual switch																	
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal																	
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk																	
Slot	Slot 1: half-length, full-height, PCI Express 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																	
																		
Limited Warranty										3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available								

See footnotes for important warranty information
US model announced July 10, 2012

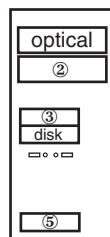
©Lenovo
(MDTN1-14) November 2013

ThinkCentre M82 Tower (3302) - TopSeller - III - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3302-B2U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	07/10/12
3302-B3U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 64	07/10/12
3302-E1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	09/04/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache) , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache) , Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache) , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)	
Implementation	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			
Memory				
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>			
DP dongle	None			
Disk	SATA 6.0Gb/s 7200 rpm			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector			
eSATA port	None			
Media reader	None			
Chipset	Intel Q75 Express Chipset			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
IEEE 1394	None			
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®			
Manageability	Intel Standard Manageability			
Modem	None			
Security chip	Trusted Platform Module (TPM 1.2-compliant)			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo			
Power supply	280 watts with variable speed fan, manual switch			
Machine	● 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 maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal			
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk			
Slot	Slot 1: half-length, full-height, PCI Express 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			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		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) ● Cable lock ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

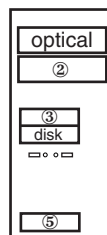
ThinkCentre M82 Tower (3302) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3302-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-E2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-E3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64 10/23/12
3302-F1U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-F2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-F3U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64 10/23/12
3302-H1U	4x5	i5-3475S	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64 03/12/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system		
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit		
Implementation											Preloaded applications (only some listed)		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										- Windows 7 models		
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										• ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)		
DP dongle	None										- Windows 8 models		
Disk	SATA 6.0Gb/s 7200 rpm										• Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										- All models		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										• ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security • (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										Security		
eSATA port	None										• 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) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)		
Media reader	None										GREENGUARD® certified		
Chipset	Intel Q75 Express Chipset										RoHS-compliant		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										Supports ThinkVantage Technologies		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort										For compatible accessories, please go to O-M82 sheet;		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										For Lenovo service upgrade options, please go to S-TC sheet		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts with variable speed fan, manual switch												
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal												
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk												
Slot	Slot 1: half-length, full-height, PCI Express 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												
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												



ThinkCentre M82 Small (3395) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3395-A2U	4x3	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	Stand	None	Pro 64	06/19/12
3395-C6U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	None	Pro 64	06/19/12
3395-C7U	4x3	G850	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	Stand	None	Pro 32	06/19/12

●3-year limited warranty

Positioning	Mainstream enterprise stability and manageability		Preloaded operating system
Processor	Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		
Implementation	Processor in LGA1155 socket		Ready to install applications (only some listed)
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz		Preloaded applications (only some listed)
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		• ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	System floor stand for vertical orientation		
Power supply	240 watts, autosensing, active Power Factor Correction		
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention		
Bay	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, opt reader		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3		
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		

disk

optical

See footnotes for important warranty information
US models announced June 19, 2012

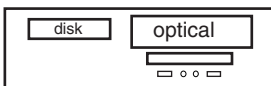
©Lenovo
(MDTN1-7) June 2012

ThinkCentre M82 Small (3395) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
3395-C4U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	06/19/12
3395-C5U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	06/19/12
3395-D5U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 32	06/19/12
3395-D6U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 32	06/19/12
3395-G1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	Pro 64	07/10/12

●3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket			Preloaded operating system <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64		
Implementation				Ready to install applications (only some listed) • Rescue and Recovery™ • Password Manager		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			Preloaded applications (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz					
DP dongle	None					
Disk	SATA 6.0Gb/s 7200 rpm					
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset					
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector					
eSATA port	None					
Media reader	None					
Chipset	Intel Q75 Express Chipset					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	Internal speaker for business audio					
IEEE 1394	None					
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®					
Manageability	Intel Standard Manageability					
Modem	None					
Security chip	Trusted Platform Module (TPM 1.2-compliant)					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo					
Floor Stand	System floor stand for vertical orientation					
Power supply	240 watts, autosensing, active Power Factor Correction					
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention					
Bay	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, opt reader					
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3					
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

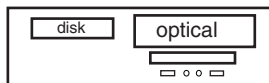
See footnotes for important warranty information
US models announced June 19 or July 10, 2012

©Lenovo
(MDTN1-8) July 2012

ThinkCentre M82 Small (3395) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3395-H7U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	None	None	None	Win8 Pro64	10/23/12
3395-N1U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Win7 Pro64	10/23/12
3395-N2U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	None	None	Win7 Pro64	10/23/12
3395-N3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	10/23/12
3395-AAU	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win8 Pro64	11/27/12
3395-R1U	4x3	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	None	Win7 Pro64	12/04/12
3395-R2U	4x3	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	None	Stand	None	None	Win7 Pro64	01/22/13
3395-CAU	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Win7 Pro64	03/05/13
3395-DAU	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	None	None	Win7 Pro64	03/12/13
Positioning	Mainstream enterprise stability and manageability										Preloaded operating system			
Processor	Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™			
Implementation	Processor in LGA1155 socket										Security			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										• Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)			
Graphics	Intel HD Graphics / 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>										GREENGUARD® certified			
DP dongle	None										RoHS-compliant			
Disk	SATA 6.0Gb/s 7200 rpm										Supports ThinkVantage Technologies			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										For compatible accessories, please go to O-M82 sheet;			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										For Lenovo service upgrade options, please go to S-TC sheet			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	<i>Some:</i> System floor stand for vertical orientation													
Power supply	240 watts, autosensing, active Power Factor Correction													
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention													
Bay	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, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													



See footnotes for important warranty information

US models announced Oct 23, 2012, Nov 27, 2012, Dec 4, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12 2013

©Lenovo
(MDTN1-17) March 2013

ThinkCentre M82 Small (2756) - ENERGY STAR 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2756-D3U	4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	06/05/12
2756-D4U	4x3	G850	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	06/05/12
2756-D5U	4x3	G630	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	06/05/12
2756-D6U	4x3	i3-2120	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	06/05/12

●3-year limited warranty

Positioning	Mainstream enterprise stability and manageability			Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
Processor	Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket			
Implementation				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz			
DP dongle	None			
Disk	SATA 6.0Gb/s 7200 rpm			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector			
eSATA port	None			
Media reader	None			
Chipset	Intel Q75 Express Chipset			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
IEEE 1394	None			
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®			
Manageability	Intel Standard Manageability			
Modem	None			
Security chip	Trusted Platform Module (TPM 1.2-compliant)			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo			
Floor Stand	System floor stand for vertical orientation			
Power supply	240 watts, autosensing, 85% PSU			
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention			
Bay	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, opt reader			
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available			

disk

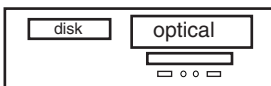
optical

ThinkCentre M82 Small (2756) - ENERGY STAR 5.2 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2756-B1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-B3U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-D1U	4x3	i5-3550	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-D2U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	06/05/12
2756-D7U	4x3	i5-3550	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-F1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-F2U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12
2756-F3U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	06/05/12
2756-F4U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	06/05/12

●3-year limited warranty

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system		
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64		
Implementation	Processor in LGA1155 socket												
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets												
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>												
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	None												
Chipset	Intel Q75 Express Chipset												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	System floor stand for vertical orientation												
Power supply	240 watts, autosensing, 85% PSU												
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention												
Bay	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, opt reader												
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3												
													
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												
Security ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)													
EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant													
Supports ThinkVantage Technologies													
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet													

See footnotes for important warranty information
US models announced June 5, 2012

©Lenovo
(MDTN1-2) November 2012

ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
2756-J2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L4U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L5U	4x3	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L6U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2756-L7U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	None	Win8 Pro64	10/23/12

●3-year limited warranty

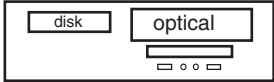
Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system Windows® 8 Pro 64-bit Preloaded applications (only some listed) ● ThinkVantage® System Update ● View Management Utility ● Lenovo® Support ● Lenovo Companion ● Lenovo Cloud Storage ● Lenovo QuickLaunch ● Lenovo Solution Center ● Microsoft® Office preloaded; purchase a product key to activate ● Norton™ Internet Security (30 days of virus definitions) ● Norton Studio ● Intel AppUp® ● AccuWeather ● PC Device Stage ● Evernote® ● Skype™ ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW)		
Implementation					
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets				
Graphics	<i>Some:</i> Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> AMD Radeon™ HD 7450 , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; works along with Intel HD Graphics to support up to four independent monitors				
DP dongle	None				
Disk	SATA 6.0Gb/s 7200 rpm				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive				
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset				
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector				
eSATA port	None				
Media reader	None				
Chipset	Intel Q75 Express Chipset				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)				
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	Internal speaker for business audio				
IEEE 1394	None				
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®				
Manageability	Intel Standard Manageability				
Modem	None				
Security chip	Trusted Platform Module (TPM 1.2-compliant)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo				
Floor Stand	System floor stand for vertical orientation				
Power supply	240 watts, autosensing, 85% PSU				
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention				
Bay	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, opt reader				
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3				
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available				
					Security ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)
					EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant
					Supports ThinkVantage Technologies
					For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

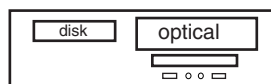
ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
2756-N3U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N4U	4x3	i3-2130	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N5U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N6U	4x3	G870	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N7U	4x3	G640	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N8U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Win7 Pro64	10/23/12
2756-N9U	4x3	i5-3470	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64	10/23/12

•3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Ready to install applications (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo® AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)	
Implementation	Processor in LGA1155 socket			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			
Graphics	Intel HD Graphics / 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> None			
DP dongle	None			
Disk	SATA 6.0Gb/s 7200 rpm			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector			
eSATA port	None			
Media reader	None			
Chipset	Intel Q75 Express Chipset			
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector			
Audio	High Definition (HD) Audio, Realtek® ALC662 codec			
Speaker	Internal speaker for business audio			
IEEE 1394	None			
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®			
Manageability	Intel Standard Manageability			
Modem	None			
Security chip	Trusted Platform Module (TPM 1.2-compliant)			
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo			
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo			
Floor Stand	System floor stand for vertical orientation			
Power supply	240 watts, autosensing, 85% PSU			
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention			
Bay	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, opt reader			
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet	

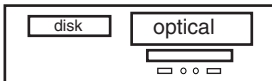


ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2929-A1U	4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/05/12
2929-B1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/19/12
2929-D1U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	08/14/12

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system			
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)			
Implementation	Processor in LGA1155 socket													
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets													
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600</i> (DisplayPort, VGA) @60Hz													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention													
Bay	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, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
											EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information
US models announced June 5, June 19, or August 14, 2012

©Lenovo
(MDTN1-3) August 2012

ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
2929-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win8 Pro64	10/23/12
2929-E1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system			
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1155 socket										Some: Windows 8 Pro 64-bit			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										Preloaded applications (only some listed)			
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>										- Windows 7 models			
DP dongle	None										• ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)			
Disk	SATA 6.0Gb/s 7200 rpm										- Windows 8 models			
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										• Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)			
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										- All models			
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										• ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™			
eSATA port	None										Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)			
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosensing, 85% PSU													
Machine	• Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention													
Bay	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, opt reader													
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3													
disk optical														
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
Supports ThinkVantage Technologies														
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet														

See footnotes for important warranty information
US models announced October 23, 2012

©Lenovo
(MDTN1-19) October 2012

ThinkCentre M82 Tower (3392) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3392-B6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
3392-C1U	4x5	i3-2120	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
3392-C3U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Pro 64	06/19/12
3392-C7U	4x5	G630	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	06/19/12
3392-C8U	4x5	G850	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	06/19/12
3392-F3U	4x5	G630	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Pro 64	07/10/12

●3-year limited warranty

Positioning	Mainstream enterprise stability and manageability			Preloaded operating system		
Processor	Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket			Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)		
Implementation						
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets					
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>					
DP dongle	None					
Disk	SATA 6.0Gb/s 7200 rpm					
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive					
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset					
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector					
eSATA port	None					
Media reader	None					
Chipset	Intel Q75 Express Chipset					
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)					
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec					
Speaker	Internal speaker for business audio					
IEEE 1394	None					
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®					
Manageability	Intel Standard Manageability					
Modem	None					
Security chip	Trusted Platform Module (TPM 1.2-compliant)					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo					
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo					
Power supply	280 watts with variable speed fan, manual switch					
Machine	● 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 maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal					
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk					
Slot	Slot 1: half-length, full-height, PCI Express 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					
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available					

optical

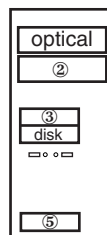
②

③

disk

□ □ □ □

⑤

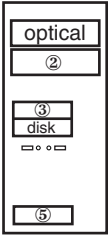


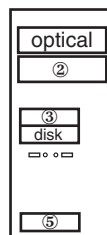
ThinkCentre M82 Tower (3392) - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Win7 preload	Ann date (mm/dd/yy)
3392-D2U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3392-C2U	4x5	i5-3550	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3392-C4U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 64	06/19/12
3392-C5U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12
3392-D7U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 32	06/19/12
3392-D8U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 32	06/19/12
3392-D9U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	06/19/12

•3-year limited warranty

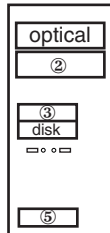
Positioning	Mainstream enterprise stability and manageability										Preloaded operating system			
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64			
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										Preloaded applications (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)			
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts with variable speed fan, manual switch													
Machine	● 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 maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal													
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 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										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) ● Cable lock ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)			
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet			



ThinkCentre M82 Tower (3392) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3392-G3U	4x5	i5-3470	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3392-K8U	4x5	i7-3770	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	10/23/12
3392-K9U	4x5	i5-3570	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-L1U	4x5	i5-3470	2GBx1 1600MHz	250G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3392-R1U	4x5	i5-3475S	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	03/12/13

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system				
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit				
Implementation	Processor in LGA1155 socket										Preloaded applications (only some listed)				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										- Windows 7 models				
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz										• ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)				
DP dongle	None										- Windows 8 models				
Disk	SATA 6.0Gb/s 7200 rpm										• Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW)				
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										- All models				
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										• ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton™ Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™				
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										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) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)				
eSATA port	None														
Media reader	None														
Chipset	Intel Q75 Express Chipset														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch														
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal														
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCI Express 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														
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										GREENGUARD® certified RoHS-compliant				
											Supports ThinkVantage Technologies				
											For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

US models announced October 23, 2012 or March 12, 2013

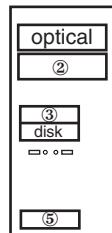
©Lenovo

(MDTN1-21) March 2013

ThinkCentre M82 Tower (3392) - Windows 8 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3392-K3U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K4U	4x5	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K5U	4x5	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K6U	4x5	i3-2130	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K7U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-N1U	4x5	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	12/04/12
3392-N2U	4x5	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	01/22/13

Positioning	Mainstream enterprise stability and manageability										Preloaded operating system			
Processor	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Ready to install applications (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo® AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)			
Implementation	Processor in LGA1155 socket													
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>													
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts with variable speed fan, manual switch													
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal													
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 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													
														
Limited Warranty 3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information

US models announced October 23, 2012, December 4, 2012, or January 22, 2013

©Lenovo

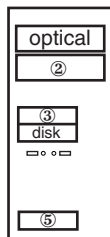
(MDTN1-25) February 2013

ThinkCentre M82 Tower (2697) - ENERGY STAR 5.2 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)
2697-E5U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Pro 32 06/05/12
2697-M1U	4x5	i7-3770	4GBx2 1600MHz	1TB 7200	Bay	DVD±RW	Media	HD 4000	None	Switch	ES52	None	Pro 64 11/06/12

●3-year limited warranty

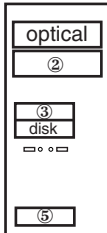
Positioning	Mainstream enterprise stability and manageability										Preloaded operating system		
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64		
Implementation	Processor in LGA1155 socket										Ready to install applications (only some listed)		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										● Rescue and Recovery™ ● Password Manager		
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> None										Preloaded applications (only some listed)		
DP dongle	None										● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)		
Disk	SATA 6.0Gb/s 7200 rpm										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) ● Cable lock ● Power-on password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector												
eSATA port	None												
Media reader	Some: 29-in-1 media reader, internal USB 2.0												
Chipset	Intel Q75 Express Chipset												
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	280 watts, autosensing, 85% PSU												
Machine	● 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 maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal												
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk												
Slot	Slot 1: half-length, full-height, PCI Express 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												
													
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information
US models announced June 5 or November 6, 2012

©Lenovo
(MDTN1-4) November 2012

ThinkCentre M82 Tower (2697) - ES 5.2 (Win 8) - withdrawn

Product Specifications Reference (PSREF)

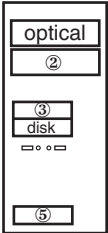
Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
2697-H1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J3U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J4U	4x5	i3-3240	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J5U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 4000	None	None	ES52	None	Win8 Pro64	10/23/12
2697-J6U	4x5	i7-3770	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 7450	None	None	ES52	None	Win8 Pro64	10/23/12
2697-L2U	4x5	i3-3220	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L3U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L4U	4x5	i5-3570	4GBx1 1600MHz	1TB 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	None	Win7 Pro64	10/23/12
2697-L6U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	ES52	None	Win7 Pro64	10/23/12
Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™			
Implementation	Processor in LGA1155 socket													
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets													
Graphics	Some: Intel HD Graphics 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz Some: AMD Radeon™ HD 7450 , DirectX 11, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors													
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector													
eSATA port	None													
Media reader	None													
Chipset	Intel Q75 Express Chipset													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal													
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCI Express 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													
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2742-A1U	4x5	i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/05/12
2742-B1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/19/12
2742-D1U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	08/14/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Implementation			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>		
DP dongle	None		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts, autosensing, 85% PSU		
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal		
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk		
Slot	Slot 1: half-length, full-height, PCI Express 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		
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		

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)
 • Cable lock
 • Power-on password
 • Hard disk password
 • Boot sequence control
 • Boot without keyboard and mouse
 • Serial port I/O control
 • Individual USB port disablement
 • Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating
 ENERGY STAR® 5.2-compliant
 ULE Gold
 GREENGUARD® certified
 RoHS-compliant

Supports ThinkVantage Technologies

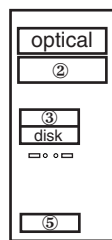
For compatible accessories, please go to O-M82 sheet;
 For Lenovo service upgrade options, please go to S-TC sheet

ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
2742-C1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win8 Pro64	10/23/12
2742-E1U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Win7 Pro64	10/23/12

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability		Preloaded operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in WWindows 8 Pro 64-bit <i>Some:</i> Windows 8 Pro 64-bit
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket		
Implementation			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets		Preloaded applications (only some listed) - Windows 7 models • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live™ Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) - Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) - All models • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz None		
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) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), 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), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts, autosensing, 85% PSU		
Machine	• 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 maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal		
Bay	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 Bay 5: 3.5", 1" high, no access, opt disk		
Slot	Slot 1: half-length, full-height, PCI Express 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		
			
Limited Warranty	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		

Memory

2GB PC3-12800 DDR3 UDIMM	0A65728	ann	06/05/12
4GB PC3-12800 DDR3 UDIMM	0A65729	ann	06/05/12
8GB PC3-12800 DDR3 UDIMM	0A65730	ann	06/05/12

More information at

www.lenovo.com/support/desktopmemorycompatibility

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴	41N5618	ann	09/26/06
Lenovo® Super Multi-Burner SATA Drive	0A65618	ann	08/23/11

Storage and removable storage

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
180GB Solid State Drive	0B47308	ann	01/29/13
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann	08/28/12
Slim USB Portable DVD Burner	0A33988	ann	06/14/11

Graphics

Small 2756/2929 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo ⁶⁷	0B47077	ann	01/29/13
--	---------	-----	----------

Tower 2697/2742 support 75 watts max:

NVIDIA NVS 510 2GB Graphics Card by Lenovo ⁶⁷	0B47077	ann	01/29/13
--	---------	-----	----------

⁶⁷ Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

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 Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann	04/05/11
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 Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse ⁵²	0A36188	ann	12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09

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

Modem

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
----------------------	---------	-----	----------

Multimedia

ThinkPad In-Ear Headphones with mic ⁶⁰	57Y4488	ann	01/07/10
Lenovo Mini Speakers M220	55Y2033	ann	01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann	02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann	02/08/11
Lenovo Headset P550	55Y2065		
Lenovo Headset P950 (black)	57Y6605	ann	02/08/11

⁶⁰ Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security

Kensington® MicroSaver® Cable Lock ⁵⁶	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann	09/30/08
Lenovo Security Cable Lock ⁵⁶	57Y4303	ann	08/24/10
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 LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹	2448MB6	ann	09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann	10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) ⁶⁹	3024HC1	ann	05/01/12

⁶⁹ DisplayPort cable is not included; use optional

DisplayPort to DisplayPort Monitor Cable (0A36537).

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

Monitor Accessories⁴⁶

Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	ann	08/14/12
DisplayPort™ to Single-link DVI-D Cable	45J7915	ann	08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann	08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann	09/13/11
Lenovo USB Soundbar	0A36190	ann	05/01/12
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann	09/30/08
Lenovo Security Cable Lock ⁵⁶	57Y4303	ann	08/24/10
ThinkCentre Extend Arm	57Y4352	ann	07/06/10

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on accessories:

www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems