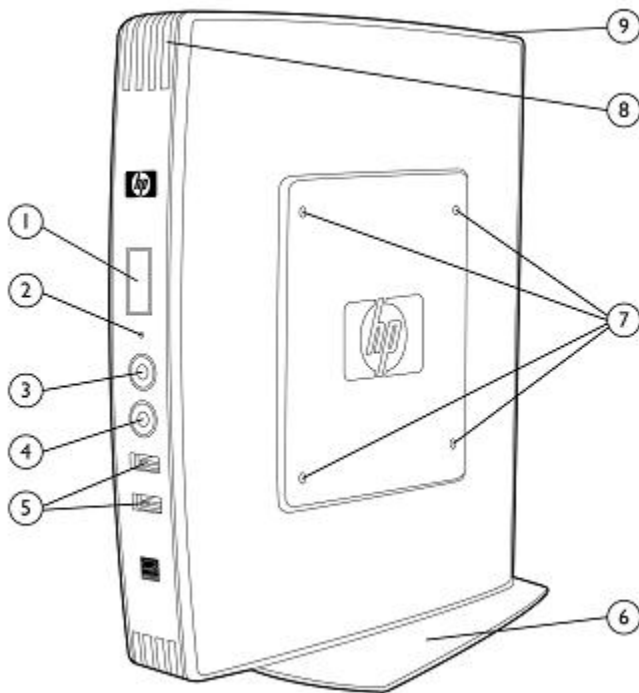
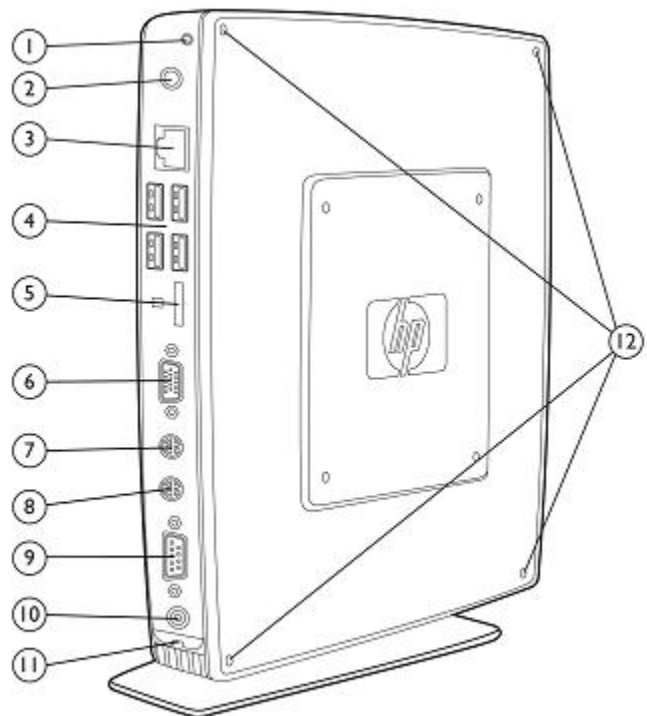


Overview



Front

1. Power button (with integrated power indicator light)
2. Flash drive activity indicator light
3. Audio connector (headphone/speaker out)
4. Audio connector (mic in)
5. USB connectors (two)
6. Removable stand for vertical orientation
7. Mounting points for HP Quick Release or other VESA mount
8. Secure USB compartment cover
9. Cable lock slot (secures unit and secure USB compartment)

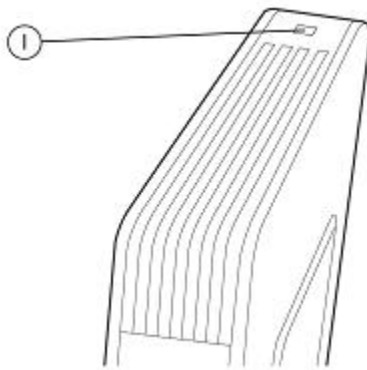


Back

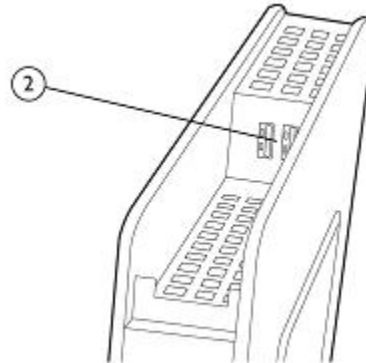
1. Cabling exit from secure USB compartment
2. WIFI antenna connector (depends on model)
3. Ethernet RJ-45 connector
4. USB connectors (four)
5. DisplayPort monitor connector
6. VGA monitor connector
7. PS/2 keyboard connector
8. PS/2 mouse connector
9. Serial connector
10. +19V DC power input
11. Power cable retention slot
12. Mounting location for four (4) horizontal mounting feet

Overview

Top

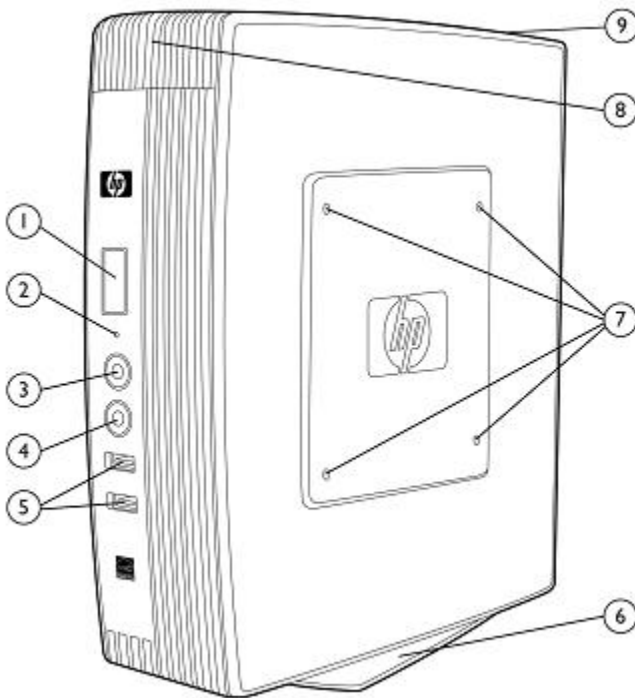


1. Cable lock slot - secures unit and secure USB compartment



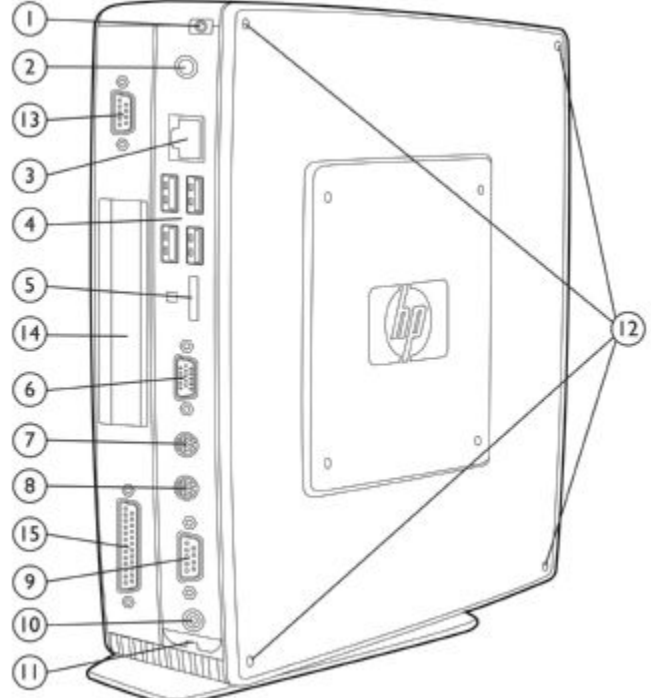
2. Secure USB compartment with cover removed - 2 USB connectors

with optional HP t5740/t5745 PCIe x4/PCI Expansion Module Kit



Front

1. Power button (with integrated power indicator light)
2. Flash drive activity indicator light
3. Audio connector (headphone/speaker out)
4. Audio connector (mic in)
5. USB connectors (two)
6. Removable stand for vertical orientation
7. Mounting points for HP Quick Release or other VESA mount
8. Secure USB compartment - 2 USB connectors
9. Cable lock slot (secures unit and secure USB compartment)



Back

1. Cabling exit from secure USB compartment
2. WIFI antenna connection (depends on model)
3. Ethernet RJ-45 connector
4. USB connectors (four)
5. DisplayPort monitor connector
6. VGA monitor connector
7. PS/2 keyboard connector
8. PS/2 mouse connector
9. Serial connector
10. +19V DC power input
11. Power cable retention slot

Overview

12. Mounting location for four (4) horizontal mounting feet
13. Second serial connector
14. PCIe x4/PCI expansion module slot
15. Parallel connector

At A Glance

Hardware features:

- Intel Atom N280* processor, with Intel GL40 chipset (*Intel's numbering is not a measurement of higher performance)
- 4 GB flash memory provides ample storage for drivers and applications
- 2 GB* DDR3/667MHz system memory (64 MB minimum reserved for graphics memory)
- Available empty DDR3 SO-DIMM slot (and RAM upgrade options) for dual-channel system memory expansion
NOTE: Minimum of 1GB and a maximum of 4GB* (2 X 2GB) can be supported (*Up to 1 GB may not be available with 32-bit operating systems due to system resource requirements.)
- Built in dual monitor support (VGA and DisplayPort native)
- Integrated wireless (802.11 a/b/g/n*) technology (select models) *Wireless access point and Internet required.
- Optional Expansion Module with PCIe x4/PCI slot for installing a wide range of devices (includes a parallel and second serial port)
- Secure USB compartment is ideal for protecting USB wireless and USB Flash devices as well as for protecting USB keyboard and mouse connectors
- Additional SATA II connector for adding optional secondary solid state Flash drive 8 USB 2.0 ports
- Legacy support includes parallel (via Expansion Module), serial, and PS/2 connections

Software features:

- Preinstalled with new Microsoft® Windows® Embedded Standard 7 with support for local applications
- Excellent rich multimedia experience and enhanced USB device support in VDI environments
- Enhanced Write Filter and File-Based Write Filter provide complete flexibility to protect the entire Flash disk, or configure areas of the disk for persistent access by local applications
- Microsoft Firewall for enhanced data security
- HP TeemTalk Terminal Emulator enables connection and communication with applications on mainframes and midrange systems
- HP ThinState Tools offers in-box, easy-to-use image deployment and recovery tools
- Enterprise class HP Device Manager lets you remotely manage devices from a central location
- Support for HP Client Automation and Microsoft System Center Configuration Manager for easy management
- HP Universal Print Driver (available as an add-on) supports a variety of printers

Warranty:

HP Total Care Warranty and Services: limited three-year hardware warranty in most regions. HP Care Pack Services extend service contracts beyond your standard warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

Standard Features - Models

Models without integrated WIFI adapter

Worldwide: XL424AA	Processor/Chipset	Intel Atom N280* 1.66 GHz/Intel GL40 <i>*Intel's numbering is not a measurement of higher performance.</i>
Americas and EMEA: XL424AT (Smart Buy/Top Value)	Operating System	Microsoft Windows Embedded Standard 7
	Flash Memory	4 GB
	Memory	2 GB DDR-3 SODIMM (1 x 2 GB SODIMM) NOTE: 64 MB minimum reserved for graphics memory.
US only: XL426AA ¹	Graphics	Intel GL40 graphics
	Keyboard	USB or PS/2 (varies by region)
	Mouse	USB or PS/2 (varies by region)

¹Product complies with U.S. Trade Agreement (TAA). Available in U.S only.

Models with integrated WIFI adapter

Worldwide: XL425AA	Processor/Chipset	Intel Atom N280* 1.66 GHz/Intel GL40 <i>*Intel's numbering is not a measurement of higher performance.</i>
Americas and EMEA: XL425AT (Smart Buy/Top Value)	Operating System	Microsoft Windows Embedded Standard 7 preinstalled
	Flash Memory	4 GB
	Memory	2 GB DDR-3 SODIMM (1 x 2 GB SODIMM) NOTE: 64 MB minimum reserved for graphics memory.
US only: XL427AA ¹	Graphics	Intel GL40 graphics
	Integrated Wireless²	Atheros 802.11 a/b/g/n Wi-Fi adapter
	Keyboard	USB or PS/2 (varies by region)
	Mouse	USB or PS/2 (varies by region)

¹Product complies with U.S. Trade Agreement (TAA). Available in U.S only.

²A standard WLAN (Wi-Fi) infrastructure with wireless access points is required and is not included.

Options

NOTE: Optional accessories are available as separate purchase.			Part Number
Accessories	HP t5740/t5745 PCIe x4/PCI Expansion Module ¹		AZ551AA
	HP Quick Release Kit		EM870AA
	HP Integrated Work Center Stand		GN783AA
	HP/Kensington Cable Lock		PC766A
	65 Watt External Power Supply replacement		AZ552AA
Communications ^{1,2}	Cisco Aironet 802.11a/b/g Wireless PCI Adapter		AIR-PI21AG-A-K9
	Allied Telesis PCIe x1 Fast Ethernet Fiber Network Interface Card		AT-2711FX
	Allied Telesis PCIe x1 Gigabit Fiber Network Interface Card		AT-2972SX
Input Devices	HP PS/2 Standard Keyboard		DT527A
	HP USB Standard Keyboard		DT528A
	HP USB Smartcard Keyboard		ED707AA
	HP USB CCID Smartcard Keyboard (BFR/PVC free)		BV813AA
	HP PS/2 2-Button Optical Mouse		EY703AA
	HP USB 2-Button Optical Scroll Mouse		DC172B
Monitors ³	HP L5009tm Touchscreen Monitor		VK202AA
	ELO Touch 1529L Flat Panel - USB/serial combo ^{2,4}		E926109
Graphics	HP DisplayPort to DVI-D Adapter		FH973AA FH973AT
Storage	HP USB External CD/DVD R/RW Drive (read only support)		FS943AA FS934UT
	Apacer 4GB AH522 USB 2.0 Flash Drive ²		91.HDE2S.HP00C
	Apacer 8GB AH522 USB 2.0 Flash Drive ²		91.HDF2S.HP00C
	Apacer 16GB AH522 USB 2.0 Flash Drive ²		91.HDG2S.HP00C
Flash / Memory	Apacer 8GB Flash Memory Module ²		AP-FM8001G-MM003-A
Security	HP USB Smartcard Keyboard		ED707AA
	HP USB CCID Smartcard Keyboard (BFR/PVC free) ²		BV813AA
	Gemalto PC USB-TR Card Reader ²		HWP117685
	Gemalto .NET v2+ Smart Card ²		HWP115303B HWP115647C
	SCM SCR331 USB Smart Card Reader ²		904054
	HP/Kensington Cable Lock		PC766A

Options

Care Pack Services ⁵	9x5 Next-Business-Day Advanced Exchange - 3 Years	331653-001; U4847E ⁶
	9x5 Next-Business-Day On-Site Coverage - 3 Years	331655-001; U4849E ⁶
	Hardware Installation	331686-001; U4865E

¹Wireless access point and Internet access required. Availability of public wireless access points limited.

²Option, drivers, warranty, and support are available directly from third party.

³Drivers must be installed. For a complete list of monitors compatible with HP thin clients, it is important to cross-reference the supported video resolutions of the HP thin client to the supported resolutions of the monitor. Most HP monitors have one or more supported resolutions that match HP thin client products.

⁴Only serial is supported.

⁵Service levels and response times for HP Care Pack Services may vary depending on your geographic location.

Restrictions and limitations apply. For details, visit: www.hp.com/go/carepack.

⁶U4847E is available in all regions; U4849E is available in Americas and Asia-Pacific/Japan.

Technical Specifications

Memory Configurations

	Flash Memory	Memory Slot 1 (DDR-3)	Memory Slot 2 (DDR-3)
	4 GB	2 GB	Empty

Processor	Intel Atom N280 1.66 GHz		
Memory	Flash Memory	4 GB (for boot drive)	
	System Memory	2 GB DDR-3 SODIMM in standard configurations (up to 8 GB supported) NOTE: 64 MB minimum reserved for graphics memory (Intel GL40 chipset dynamically allocates graphics memory)	
Graphics	Intel GL40 graphics with support for two high-resolution monitors up to 2048 x 1536, or up to 32 bit color depth*		
	Mode	Color depth	Refresh rate (Hz)
	640 x 480	8/16/32bit	60, 70, 75, 85
	800 x 600	8/16/32bit	60, 75, 85
	1024 x 768	8/16/32bit	60, 70, 75, 85
	1280 x 720	8/16/32bit	60, 75, 85
	1280 x 768	8/16/32bit	60, 75, 85
	1280 x 1024	8/16/32bit	60, 75, 85
	1400 x 1050	8/16/32bit	60, 75, 85
	1440 x 900	8/16/32bit	60, 75, 85
	1600 x 1200	8/16/32bit	60, 75, 85
	1680 x 1050	8/16/32bit	60
	1920 x 1080	8/16/32bit	60, 75, 85
	1920 x 1200	8/16/32bit	60, 75
	2048 x 1536	8/16/32bit	60
	NOTE: This table represents a sample of possible modes that this controller is capable of displaying but various factors such as the capability and EDID information returned by the attached monitor, the interface used (D-SUB/DisplayPort or optional DVI-D with dongle), and dual monitor mode may limit the availability of modes, color depth, and/or refresh rate.		
Input/Output/ Peripheral Support	Keyboard	USB or PS/2 (varies by region)	
	Mouse	USB or PS/2 (varies by region)	
	Printer	Local and/or network printers (RDP, ICA, LPD)	
	Video	Intel GL40 graphics	
Audio	Output	Internal amplified speaker, 1/8-inch mini, full 16-bit stereo, 44-kHz sample rate.	
	Input	1/8-inch mini microphone	
Hardware Security	Security lock slot (cable lock sold separately) Secure USB compartment with 2 USB 2.0 ports		
Networking	10/100/1000 Gigabit Ethernet (RJ-45)		
	TCP/IP with DNS and DHCP		
	Point-to-Point Protocol (PPP), Direct Connection through RS-232, Point-to-Point over Ethernet (PPPoE),		
	Point-to-Point Tunneling Protocol (PPTP), Layer-2 Tunneling Protocol (L2TP), Wake on LAN (WOL), PXE		
	Server Network Time Protocol (SNTP)		
	Simple Network Management Protocol (SNMP)		

Technical Specifications

Wireless LAN (select models)	Adapter	Atheros 802.11a/b/g/n WIFI Adapter			
	Form Factor	PCI-Express Half Mini Card			
	Security ⁷	Supports 64- and 128-bit WEP, WPA, WPA2, AES, TKIP, 802.1x authentication types EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, LEAP			
I/O ports and connectors	Eight USB 2.0 ports (two in front, four in rear, two in secure USB compartment), 1 VGA, 1 DisplayPort, 2 PS/2, 1 serial, 1 RJ-45, and 1 optional Expansion Module with X4 PCIe or PCI slot, also including 1 parallel and second serial port				
Server OS Compatibility/Support	Citrix XenApp 5 and 6 Citrix XenDesktop 3 and 4 Citrix Presentation Server 4.0 Windows Server 2008 Terminal Services Windows 2000/2003 Server families, Windows 2000/2003 Server Terminal Services VMware Virtual Desktop Infrastructure using RDP				
Software	Operating System/Protocols/Components	Preinstalled: Microsoft Windows Embedded Standard 7 Microsoft RDP 7 Citrix ICA 12.0 (Citrix Online Plugin 12.0) Microsoft Internet Explorer 8 Windows Media Player 12 HP TeemTalk Terminal Emulator 7 Adobe Flash Player 10.1			
		Security	Configure to use Enhanced Write Filter or File-based Write Filter Microsoft Firewall Administrator and user passwords HP USB Config utility to restrict access to USB storage devices		
			Session Brokers	Preinstalled:	Available as download:
				Citrix Desktop Delivery Controller enabled through web browser	HP Session Allocation Manager (SAM) 3.1
		VMware View Manager 4.0.1		Available from vendors website: VMware View Manager 4.5 Leostream Desktop Connection Broker Provision Networks (Quest) broker	
		Multimedia and USB Redirection solutions	HP Remote Graphics Software Receiver 5.3 for VMware View and Microsoft Terminal Services Citrix HD-X support for XenApp Citrix HD-X support for XenDesktop		
			Management	HP Device Manager agent HP Client Automation agent HP ThinState for rapid deployment	
				Other add-on software available (see: www.hp.com/support for latest list of available add-ons)	
	Languages (MUI)	English, French, German, Spanish, Dutch, Norwegian, Korean, Simplified Chinese, Traditional Chinese, and Japanese			
		Dimensions HxWxD (approximate)	Without stand	10.04 x 1.73 x 8.74 in (255 x 44 x 222 mm)	
	With stand		10.39 x 1.73 x 8.74 in (266.7 x 44 x 222 mm)		
With Expansion Module	10.04 x 2.91 x 8.74 in (255 x 74 x 222 mm)				
Weight (approximate)	With stand	3.48 lb (1.58 kg)			
	With Expansion Module	4.14 lb (1.88 kg)			
Power supply	Worldwide auto-sensing 100-240 VAC, 50-60 Hz energy-saving automatic power-down, surge-tolerant, ENERGY STAR® 2.0 qualified 65-watt power supply				
Environmental	Temperature range	Operating: 50° to 104° F (10° to 40° C)			



Technical Specifications

	Operating, using Quick Release with a flat panel monitor: 50° to 95° F (10° to 35° C) Operating, using PCI Expansion Unit: 50° to 104° F (10° to 40° C) Non-operating:-22° to 140° F (-30° to 60° C) NOTE: Specifications are at sea level with altitude derating of 1° C/300m (1.8° F/1000ft) to a maximum of 3 Km (10,000 ft), with no direct, sustained sunlight. Upper limit may be limited by the type and number of options installed.	
Regulatory Compliance	Humidity	20% to 80% condensing 10% to 90% non-condensing
	Ergonomics	German ZH1/618; EN29241-3, approved
	Safety	UL 1950, CSA 950; TÜV-GS (EN60 950) approved
Warranty	RF Interference	FCC Class B; CE Mark; EN55022B; VCCI
	Three-year limited hardware warranty. NOTE: Certain restrictions apply. Consult the HP Customer Support Center for details.	
Emulations	Emulation	Terminal ID
	ADD5 A2 AIXTerm ANSI BBS AT 386 ATT4410 HP 700-92/96 HZ1500 IBM3151 IBM3270 IBM5250 SCO Console Stratus V102 TA6530 TVI910 TVI920 TVI925 TVI950 TVI955 VT52, VT100, VT100+, VT500 (7- or 8-bit) VT HP220, VT UTF8 VT PCTerm Wyse PCTerm WY50 WY50+ WY60	70092, 70094, 70096, 2392A, 2622A Mod11, Mod31 3278-2 (24x80), 3278-3 (32x80), 3278-4 (43x80), 3278-5 (27x132), 3278-2-E (24x80), 3278-3-E (32x80), 3278-4-E (43x80), 3278-5-E (27x132), 3279-2 (24x80), 3279-3 (32x80), 3279-4 (43x80), 3279-5 (27x132), 3287-1 5291-1, 5292-2, 5251-11, 3179-2, 3196-A1, 3180-2, 3477-FC (27x132), 3477-FG (24x80), 3486-BA, 3487-HA, 3487-HC, 3812-1 VT100, VT101, VT102, VT125, VT131, VT132, M2200, VT220, VT240, VT320, VT340, VT420, VT510, VT520, VT525 VT100, VT101, VT102, VT125, VT220, VT240, VT320, VT340, VT420, VT131, VT132, M2200, VT510, VT520, VT525

⁷Wireless features, performance and support may vary depending on environmental variables such placement, settings and firmware of your access points. Please contact your wireless vendor for support of your wireless environment.

Technical Specifications – Environmental Data

Eco-Label Certifications & Declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:			
	- ENERGY STAR® Category B - EPEAT® registered where applicable/supported, see www.epeat.net for registration status by country			
Energy Consumption		115 VAC (60Hz)	230 VAC (50Hz)	100 VAC (60Hz)
	Idle State:	10.70 W	10.80 W	10.80 W
	Off Mode:	0.51 W	0.30 W	0.51 W
	NOTE: This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled. Off Mode measurements are made with WOL disabled.			
	NOTE: The actual power consumption at your location could vary and is dependent on many factors including but not limited to software load on the thin client, attached peripherals, and environmental factors.			
Heat Dissipation	Idle State:	36.51 BTU/hr	36.85 BTU/hr	36.85 BTU/hr
	Off Mode:	1.74 BTU/hr	1.02 BTU/hr	1.74 BTU/hr
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
Batteries	This product complies with ISO standards:			
	- EU Directive 91/ 157/ EEC - EU Directive 93/ 86/ EEC - EU Directive 98/ 101/ EEC			
	Batteries used in the product do not contain:			
	- Mercury greater the 5ppm by weight - Cadmium greater than 10ppm by weight - Lead greater than 4000ppm by weight.			
	Battery size: CR2032 (coin cell)			
	Battery type: Lithium			
Recycled material	Product	- This product contains 0% recycled materials (by weight). - This product is over 95% (by weight) recyclable when disposed of properly at end of life.		
	Packaging	- The EPE foam packaging material contains at least 5% (by weight) post-consumer recycled content. - The corrugated paper packaging materials contains at least 80% (by weight) post-consumer recycled content. - The packaging for this product is 100% (by weight) recyclable when disposed of properly.		
Environment-friendly Products and Approach	RoHS Compliance	Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis.		
	Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html): - Asbestos - Certain Azo Colorants - Certain Brominated Flame Retardants - may not be used as flame		

Technical Specifications – Environmental Data

- retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report:
<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>
Eco-label certifications:
<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

Technical Specifications – Environmental Data

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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