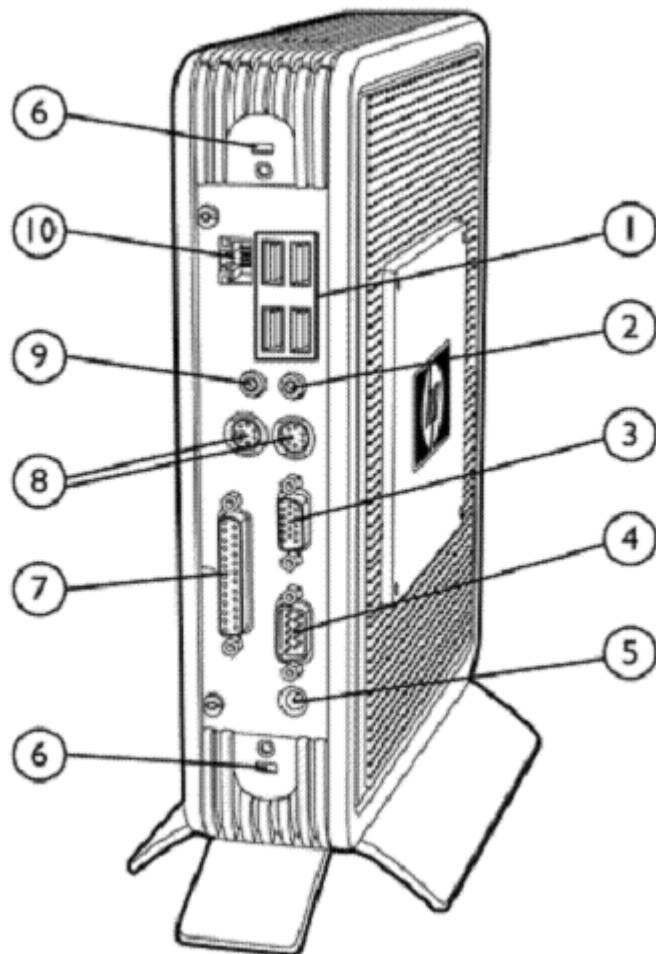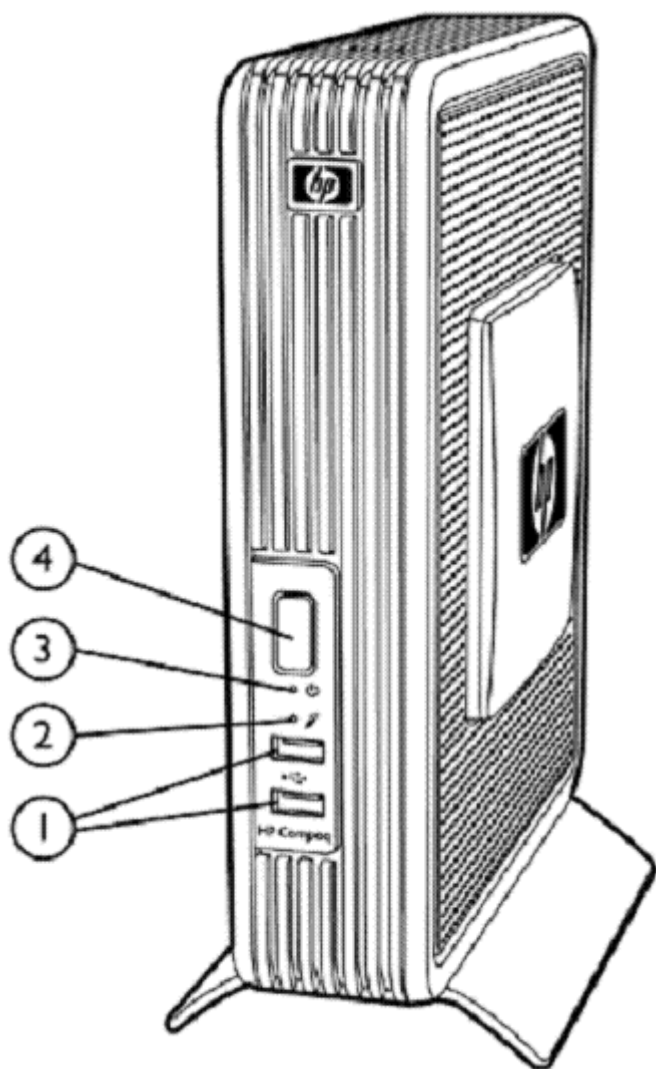*Overview*

without PCI Expansion Module

1. USB connectors, 2 front
2. Flash activity LED
3. Power LED
4. Power button

1. USB connectors, 4 rear
2. Line-in audio connector (microphone)
3. Monitor connector
4. Serial connector
5. Power connector

6. Cable lock slots
7. Parallel connector
8. PS/2 connectors (2)
9. Line-out audio (headphone) connector
10. Ethernet RJ-45 connector

Overview
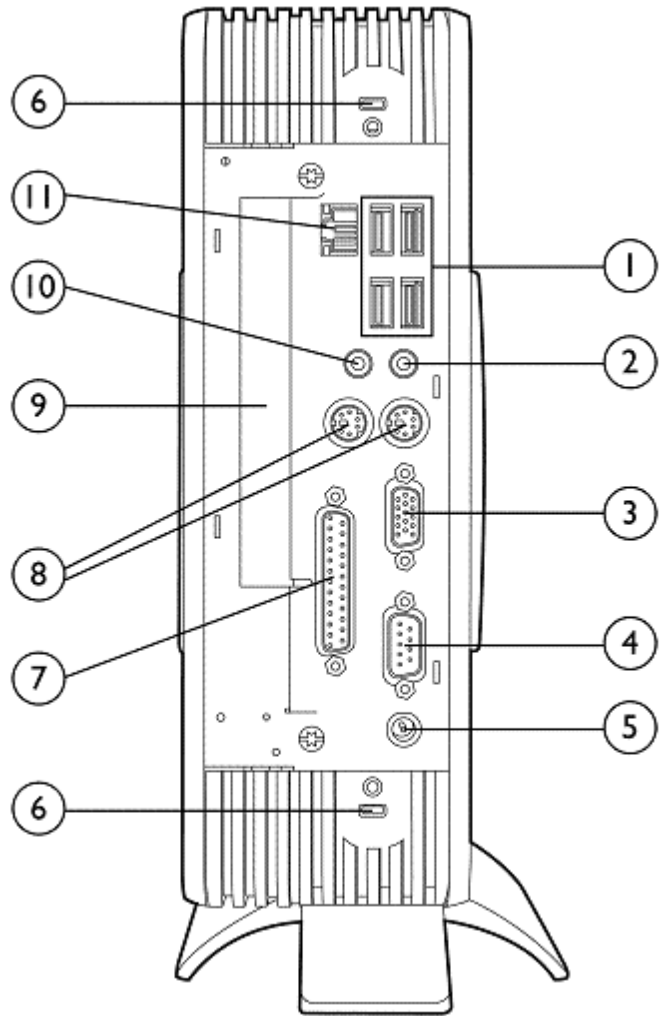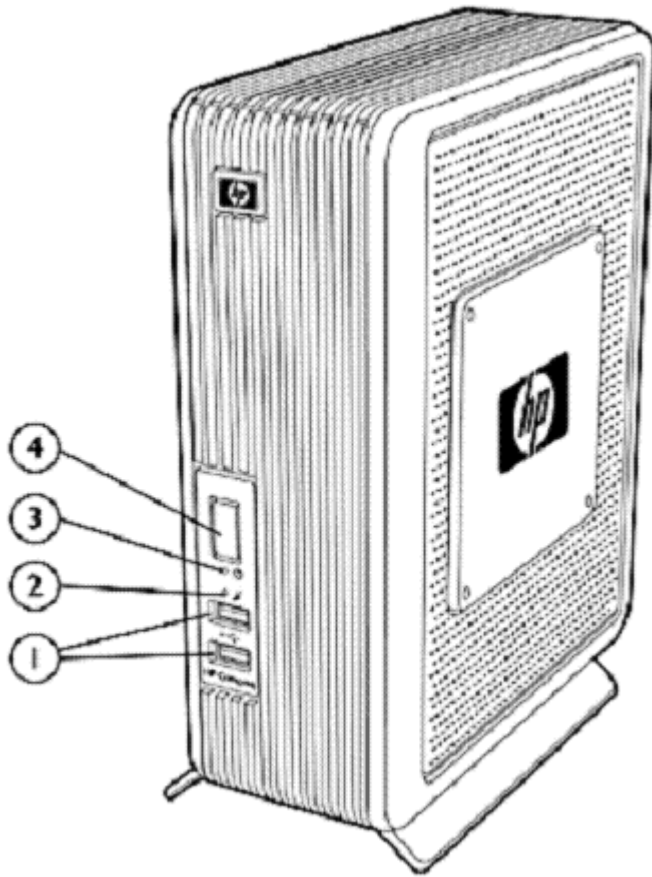
with PCI Expansion Module

1. USB connectors, 2 front
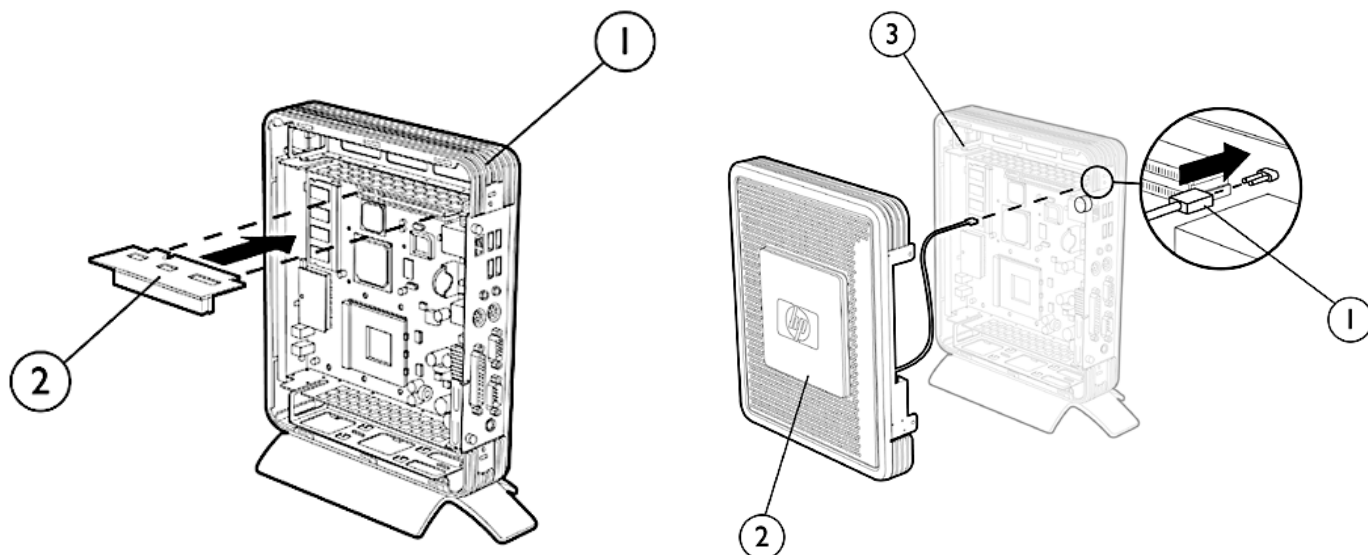2. Flash activity LED
3. Power LED
4. Power button

1. USB connectors, 4 rear
2. Line-in audio connector (microphone)
3. Monitor connector
4. Serial connector

5. Power connector
6. Cable lock slots

7. Parallel connector
8. PS/2 connectors (2)
9. PCI access slot
10. Line-out audio (headphone) connector
11. Ethernet RJ-45 connector

Overview

At A Glance

- Simplified IT management for the enterprise and SMB
- HP's "Anywhere Thin Client" with the innovative HP Quick Release
- Microsoft® Windows® XP Embedded operating system SP2
- Desktop-like features at compelling prices
- Lower ownership costs and increased resource efficiency for each end-user
- Legacy support
- AMD Geode NX 1500 processor
- SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
- Support for up to 1 GB MB of Flash and up to 512 MB DDR SDRAM memory
- Optional PCI Expansion Module
- Broad range of support for options and peripherals (see the Options section of this document)
- Protected by Hewlett-Packard Services, including a limited three-year mail-in warranty (certain restrictions and exclusions apply)
- HP Sygate Security Agent pre-installed

Overview - PCI Expansion Module Kit

1. HP Compaq t5720 with cover removed
2. PCI Expansion Module Riser card being inserted into the t5720 thin client unit

1. HP Compaq t5720 with cover removed
2. HP Compaq t5720 PCI Expansion Module cover with audio cable
3. Diagram of audio cable being inserted into t5720 system board

Models
Part Number: EK530AA

Introduction
The PCI Expansion Module for the HP Compaq t5720 allows for optional PCI devices including wireless networking cards (802.11 b/g), dial up modems, additional graphics, network, and input/output options.

Compatibility
HP Compaq t5720 PCI Expansion Module is designed to integrate with HP Compaq t5720 Thin Client to accommodate full-height, ½ length PCI card. Refer to the HP t5720 QuickSpecs for HP supported devices.

QuickSpecs

Overview - PCI Expansion Module Kit

Restrictions

Do not orient the HP Compaq t5720 Thin Client with the PCI Expansion Module in the horizontal, upside down mode (see figure below) as the unit may overheat. All other orientations are acceptable.

Service and Support

The HP Compaq PCI Expansion Module has a one-year limited warranty. Technical support is available seven days a week, 24 hours a day, by phone, as well as online support forums. Certain restrictions and exclusions apply.

Standard Features - Models

EG839AA#ABA	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	512 MB
	Memory	256 MB DDR SDRAM (NOTE: 16 MB of system RAM is reserved for graphics memory.)
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

EG840AA#ABA	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	512 MB
	Memory	512 MB DDR SDRAM (NOTE: 16 MB of system RAM is reserved for graphics memory.)
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

RA315AA#ABA	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	1GB MB
	Memory	512 MB DDR SDRAM NOTE: 16 MB of system RAM is reserved for graphics memory.
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

Standard Features - Models

RA509AA#ABA		
(TAA compliant)[1]	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	512 MB
	Memory	256 MB DDR SDRAM
		NOTE: 16 MB of system RAM is reserved for graphics memory.
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

NOTE[1]: Product complies with U.S. Trade Agreement Act (TAA). Available in U.S only.

RA510AA#ABA		
(TAA compliant)[1]	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	512 MB
	Memory	512 MB DDR SDRAM
		NOTE: 16 MB of system RAM is reserved for graphics memory.
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

NOTE[1]: Product complies with U.S. Trade Agreement Act (TAA). Available in U.S only.

RC450AA#ABA		
(TAA compliant)[1]	Processor	AMD Geode NX 1500
	Operating System	Microsoft Windows XP Embedded, Service Pack 2
	Flash Memory	1 GB
	Memory	512 MB DDR SDRAM
		NOTE: 16 MB of system RAM is reserved for graphics memory.
	Graphics	SiS741GX Integrated/UMA graphics with 16 MB shared graphics memory
	PCI Expansion	Yes
	Browser	Microsoft Internet Explorer 6.0
	Client Management Software	Altiris Deployment Solution
	Terminal Personalities Standard	Yes

NOTE[1]: Product complies with U.S. Trade Agreement Act (TAA). Available in U.S only.

Options

HP Options	Recommended Driver (if applicable)	Part Number
HP USB Smartcard Keyboard	Use driver version 4.30.0.1 http://h18007.www1.hp.com/support/files/thinclients/us/download/23035.html	ED707AA
Nvidia Quadro 280 NVS 64 MB Dual Head-PCI	Use driver version 61.71 that is in the option CD or version 8425 from http://www.nvidia.com/object/winxp_2k_84.26	DY599A
Wireless a+g PCI adapter* (worldwide)	Use driver version 4.1.2.71 http://h18000.www1.hp.com/support/files/hpcpqdt/us/download/22949.html	PZ928AA
Wireless a+g PCI adapter* (NA and Can)	Use driver version 4.1.2.71 http://h18000.www1.hp.com/support/files/hpcpqdt/us/download/22949.html	EA118AA
2006 Agere PCI high-speed international soft modem	Use driver version 2.1.56.0 http://h18007.www1.hp.com/support/files/hpcpqdt/us/download/22976.html	EK694AA
512 MB HP Drive Key II DOK		ED516AA
HP 512 MB PC2700 DDR333 DIMM		EK692AA
USB external multibay drive adapter		DC373B
Multibay 1.44-MB FDD		DC362A
Multibay 80-GB HD		DC920A
Multibay 24x CD ROM		DC513B
HP PS/2 2-Button Scroll Mouse ALL		DD440B
HP USB 2-Button Scroll Mouse ALL		DD441B
HP PS/2 Standard Keyboard A/P		DT527A
HP USB Standard Keyboad ALL		DT528A
HP Belkin USB To Serial Adapter		EM449AA
t5720 PCI expansion module kit		EK530AA
t5700 40W AC Adapter ALL		DZ991A
HP Quick Release		EM870AA
Kensington Security Lock		PC766A
HP printers (As per printer statement)		
HP monitors – HP provides a broad array of high-quality monitors that work with HP Compaq thin clients.*		

CRT Monitors

HP s7540 17" (16.0" vis) CRT Monitor		PF997AA#ABA
HP v7650 17" (16.0" vis) Flat-face CRT Monitor		PF996AA#ABA

TFT Monitors

HP L1506 15" TFT Flat Panel Monitor – Analog only		PX848AA#ABA
HP L1706 17" TFT Flat Panel Monitor – Analog only		PX849AA#ABA
HP L1740 17" TFT Flat Panel Display – Analog/Digital		PL766AA#ABA
HP L1755 17" TFT Flat Panel Display – Analog/Digital		PL777AA#ABA
HP L1906 19" TFT Flat Panel Display – Analog only		PX850AA#ABA
HP L1940T 19" TFT Flat Panel Display – Analog/Digital		EM869AA#ABA
HP L1955 19" TFT Flat Panel Display – Analog/Digital		PD974AA#ABA
HP LP2065 20" TFT Flat Panel Display – Analog/Digital		EF227A4#ABA
HP LP2465 24" TFT Widescreen Flat Panel Display – Analog/Digital		EF224A4#ABA
HP L5006tm 15" Touchscreen Flat Panel Monitor		RB146AA#ABA

Options

3rd Party Options***		Brand	Part Number
	Apacer 512 MB DOK	Apacer	AP-HHR512HD2
	Apacer 1 GB DOK	Apacer	AP-HHR100HD2
	ELO Touch 1725C CRT – USB/Serial	ELO	045182-001
	ELO Touch 1529L Flat Panel – USB/Serial	ELO	726256-000
	ELO Touch 1526C CRT – USB/Serial	ELO	139862-001
	ELO Touch 1515L Flat Panel – USB/Serial	ELO	E72932-000
	TxSystems SCR331 USB Smart Card Reader	SCM	Visit vendor web site
	Visit http://txsystems.com/scm.html for part number and availability		
	Envoy data SCR331 USB Smart Card Reader	SCM	Visit vendor web site
	Visit http://envoydata.com for part number and availability		
	Digital Privacy SCR331 USB Smart Card Reader	SCM	Visit vendor web site
	Visit http://.digital-privacy.com/index.php for part number and availability		
	Zoom 2985C External Modem USB	Zoom	2985-00-00C
	Zoom 3049 56K v.92 Ext. Modem – Serial	Zoom	3049-00-00
	Linksys Ethernet Bridge*	Linksys	WET54G and WET54GS5
	Cisco Aironet PCI*	Cisco	AIR-P121AG-A-K9

Care Packs		Part Number
	9x5 Next-Business-Day Advanced Exchange – 3 Years	331653-001; U4847E
	9x5 Next-Business-Day On-Site Coverage – 3 Years	331655-001; U4849E
	Hardware Installation	331686-001; U4865E

* Wireless functionality is not supported for roaming environments. Thin client must be stationary for wireless device to properly function.

** For a complete list of monitors compatible with HP Compaq thin clients, it is important to cross reference the supported video resolutions of the HP Compaq thin client to the supported resolutions of the monitor. Most all HP monitors have one or more supported resolutions that match HP Compaq thin client products.

*** The warranties for HP or Compaq branded products are set forth in the express limited warranty statements accompanying such products. Although third-party products may work effectively on HP or Compaq thin clients, these non-HP or non-Compaq products are provided "AS IS." HP does not support or warrant third-party products, including the interoperability of such products with HP or Compaq thin clients. However, third-party manufacturers and vendors may provide their own warranties and support directly to you. Please contact the manufacturers or vendors for hardware or software support on their products.

Possible Memory Configurations

Flash Memory	Memory Slot (DDR SDRAM)
512 MB	256 MB
512 MB	512 MB
1 GB	512 MB

Flash/Memory Options

HP 512 MB PC2700 DDR1 SODIMM   EK692AA

QuickSpecs

Technical Specifications

System Unit	Processor	AMD Geode NX 1500 (1.0 GHz)	
	Memory	**Flash Memory**	512 MB
		System Memory	256 or 512DDR SDRAM
			NOTE: 16 MB of system RAM is reserved for graphics memory
	Graphics	SiS741 GX Integrated/UMA graphics with 16 MB of shared graphics memory	

Mode	Refresh Rates	Color Depth
640 x 480	60–200 Hz	8/16/32-bit
800 x 600	60–160 Hz	8/16/32-bit
1024 x 768	60–120 Hz	8/16/32-bit
1152 X 864	60–85 Hz	8/16/32-bit
1280 x 1024	60–85 Hz	8/16/32-bit
1600 x 1200	60–85 Hz	8/16/32-bit
1920 x 1200	60 Hz	8/16/32-bit
1920 x 1440	60–85 Hz	8/16/32-bit
2048 x 1536	60–75 Hz	8/16/32-bit

	Input/Output/ Peripheral Support	**Keyboard**	HP PS/2 Standard Keyboard
		Mouse	Two button scroll, PS/2
		Printer	Local and/or network printers (RDP, ICA, LPD) as per the printer support statement
		Video	SiS74iGX Integrated/UMA graphics with 16 MB shared graphics memory
	Audio	**Output**	Internal amplified speaker, 1/8-inch mini, full 16-bit stereo, 44-kHz sample rate
		Input	1/8-inch mini microphone
	Security	Two security lock slots (cable lock sold separately) HP Sygate Security Agent	
	Terminal Server Protocols	Integrated Microsoft RDP 5.2 and Citrix ICA 9.0. Terminal personalities standard	
	Networking	10/100 BaseT Fast Ethernet, twisted pair (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)	
	I/O ports and connectors	Six USB ports (2 front/4 rear), 1 serial, 1 parallel, RJ-45, 1 PCI expansion, 2 PS/2	
	Resident Operating System	Microsoft Windows XP Embedded, Service Pack 2	

Technical Specifications

Server OS Compatibility/ Support	Microsoft Windows NT 4.0 Server, Windows NT 4.0 Terminal Server Edition, Windows 2000/2003 Server, families, Windows 2000/2003 Server Terminal Services, Windows 2000 Advance Server, Windows 2000 Advance Server Terminal Services, and Citrix MetaFrame and Presentation Server for Microsoft Windows NT 4.0, Windows 2000 Server family and Windows 2003 Server family	
Software Included	Microsoft Windows XP Embedded preinstalled Microsoft Internet Explorer 6.0 preinstalled HP Sygate Security Agent Altiris Deployment Solution (client agent) preinstalled. Altiris Deployment Solution (management console) available as free download from Altiris at: www.altiris.com/hptc Terminal Emulation Software, Citrix ICA, and RDP Windows Media Player 9 Other software available as add-ons (see www.hp.com/support for latest list of available add-ons)	
Languages	English	
Dimensions H x W x D (approximate)	Without stand	9.85 x 2.59 x 8.09 in (250.18 x 65.78 x 205.48 mm)
	With stand	10.67 x 4.33 x 9.33 in (271.09 x 110 x 237.1 mm)
	With PCI Expansion Module	9.85 x 3.6 x 8.09 in (250.18 x 87.4 x 205.48 mm)
Weight (approximate)	With stand	3.7 lbs (1.7 kg)
	With PCI Expansion Module	4.5 lbs (2 kg)
Environmental	Temperature range on	50° to 104° F (10° to 40° C)
	Temperature range on when using the Quick Release with a flat panel monitor or PCI expander	50° to 95° F (10° to 35° C)
	Temperature range off	-22° to 140° F (-30° to 60° C)
	Humidity	20% to 80% condensing 10% to 95% non-condensing
	Power	Worldwide auto-sensing 100-240 VAC, 50-60 Hz energy-saving automatic power-down
Regulatory Compliance	Ergonomics	German ZH1/618; EN29241-3, approved
	Safety	UL 1950, CSA 950; TÜV-GS (EN60 950) approved
	RF Interference	FCC Class B; CE Mark; EN55022B; VCCI
Warranty	Three-year limited hardware warranty.	
	NOTE: Certain restrictions apply. Consult the HP Customer Support Center for details.	

Technical Specifications

Emulations	Emulation	Terminal ID
	ADDS A2	
	AIXTerm	
	ANSI BBS	
	AT 386	
	ATT4410	
	DG 410/412	
	HP 700-92/96	70092, 70094, 70096, 2392A, 2622A
	HZ1500	
	IBM3151	Mod11, Mod31
	IBM3270	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
	IBM5250	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
	SCO Console	
	Stratus V102	
	TA6530	
	TVI910	
	TVI920	
	TVI925	
	TVI950	
	TVI955	
	VT52, VT100, VT100+, VT500 (7- or 8-bit)	VT100, VT101, VT102, VT125, VT131, VT132, M2200, VT220, VT240, VT320, VT340, VT420, VT510, VT520, VT525
	VT HP220, VT UTF8	VT100, VT101, VT102, VT125, VT220, VT240, VT320, VT340, VT420, VT131, VT132, M2200, VT510, VT520, VT525
	VT PCTerm	
	Wyse PCTerm	
	WY50	
	WY50+	
	WY60	

Technical Specifications

PCI Expansion Module Kit	Mechanical (installed on unit)	Dimensions (H x W x D)	Installed on unit	9.85 x 3.44 x 8.09 in (250.18 mm x 87.26 mm x 205.55 mm)
		Approximate Weight	Installed on unit	4.5 lb (2.0 kg)
	Temperature Range	Operating		50° to 95° F (10° to 35° C)
		Non-operating		–22° to 140° F (–30° to 60° C)
	AC Adapter (50W) (included in kit)	Input		100–240V, 1.5A/50 60Hz
		Output		12V, 4.16A, 50W

Specifications are at sea level with altitude derating of 1.8° F/1000 ft (1° C/300 m) to a maximum of 10,000 ft (3 Km), with no direct, sustained sunlight. Upper limit may be limited by the type and number of options installed.