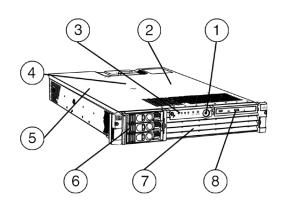
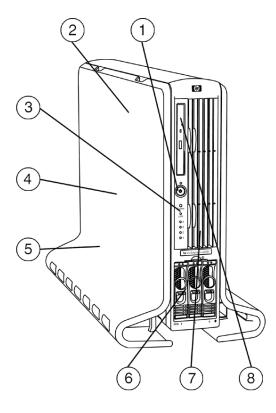
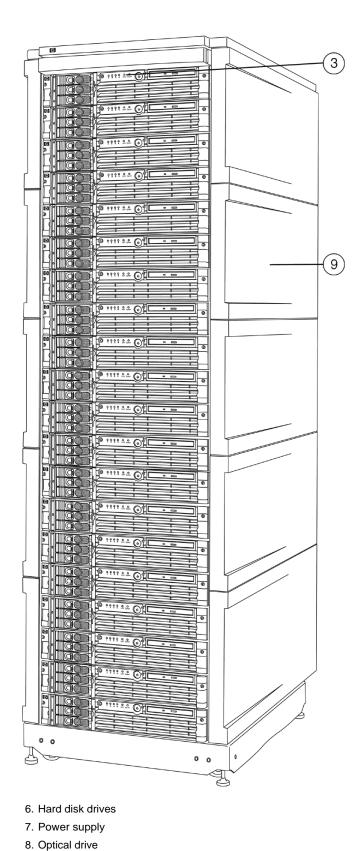
HP Workstation zx6000

QuickSpecs

Overview







- 1. On/Off Button
- 2. Processor(s)
- 3. Status/diagnostic LEDs
- 4. Memory DIMMs
- 5. Expansion card cage



Download from Wrossformanuals.com Alb Manuals.Saargb Arrah D200 bad.

9. 20 systems in a 2-meter rack

Overview

At A Glance

- Up to two Intel® Itanium 2 processors,
 - $\odot~$ 1.3GHz or 1.5GHz
 - Up to 6 MB L3 onboard cache
 - HP zx1 chipset with 400 MHz system bus
- Support for three enterprise-class operating systems:
- HP-UX 11i v2.0 Red Hat Linux Advanced Workstation 2.1 HP Linux Installation Kit
- ECC PC2100 DDR-266 memory, expandable to 24 GB
- Ultra320 SCSI hard drives, with up to 438 GB of internal storage
- Choice of leadership graphics: ATI RADEON 7000 ATI FireGL Z1-128p NVIDIA Quadro4 980 XGL ATI FireGL X1-256p
- Integrated Ethernet adapters: Intel 82550C (10/100 Mbps) and Broadcom 5701 (10/100/1000 Mbps)
- AGP 4X Pro50 graphics interface
- Three available PCI slots
- Four external bays (one slimline and three hot-pluggable)
- DVD-ROM Slimline or DVD-ROM/CD-RW Combo Drive
- Full Independent Software Vendor (ISV) certification and support for leading technical applications
- Protected by HP Services, including a one-year limited warranty. For details, consult the Product Information Centre at 1-888-882-6672.



Standard Features

Processor	Up to two Intel Itanium 2 processors – 1.3 GHz, or 1.5 GHz (400 MHz system bus)				
Operating System	HP-UX 11i v2.0 Red Hat Linux Advanced Workstation 2.1 HP Linux Installation Kit				
Cache Memory	3 MB L3 on-chip cache (1.3 0 6 MB L3 on-chip cache (1.5 0				
Memory	Maximum of 24 GB ECC PC21	00 DDR-266 memory (12 DIMMs)			
Network Controller	Integrated Intel 82550C Wake-on-LAN 10/100 Mbps Ethernet Network Interface Broadcom 5701 10/100/1000 Mbps Ethernet Network Interface				
Expansion Slots	I/O (Total)Four available slotsPCI - 32-bit/33 MHz3 full-length 64-bit/133 MHz PCI-XAGP 4X Pro 501 slot – 32-bit/66 MHz 1.5V 1.06 GB/s				
Expansion Bays	(Total/Available)4 total/2 availableExternalThree hot-pluggable 3.5 inch baysOne slimline 5.25 inch bay				
Storage	Removable Media Hard Drive	DVD+RW Slimline, DVD-ROM Slimline, or DVD-ROM/CD-RW Slimline Combo Drive 36 GB or 146 GB Ultra320 SCSI (10K rpm) 36 GB or 73 GB Ultra320 SCSI (15K rpm)			
Interfaces	USB 2.0 (1.1 compatible) Serial Ultra320 SCSI Network interface Microphone Jack Line-In Jack Line-Out Jack	Four (2 front, 2 rear) Two 9-pin DIN connectors (rear) Internal and external (rear) connectors Two RJ-45 connectors (rear) 1 (front) 1 (rear) 1 (rear)			
Graphics Choose from:	ATI RADEON 7000 ATI FireGL Z1-128p (2 slots) NVIDIA Quadro4 980 XGL ATI FireGL X1-256p (2 slots)				
Audio	AC97/16-bit stereo full-duplex				



Standard Features

Remote Management	Baseboard management controller (integrated) allows power and reset management, health management, event logging and reporting, hardware and data protection, and highly available management console. Management processor card (optional) manages resources, diagnostics, system repair, 2D graphics console, and 10/100Base-T LAN for out-of-band management.
Power Supply	650W maximum output Optional hot-swap 2nd power supply for n+1 redundancy
Service and Support	Standard limited warranty: 1 year next business day onsite Hardware support upgrades available: 3 Years Next Business Day Onsite, 3 Years Same Business Day Onsite, and 3 Years 24 x7 Onsite. Telephone support upgrade available: 3 Years telephone support for LINUX operating system. NOTE: Certain restrictions and exclusions may apply. For details, consult the Product Information Centre at 1-888- 882-6672.



HP Workstation zx6000 Base System

HP Workstation zx6000 Base Unit (Partner Prime and Partner Direct) DM487AV

HP Workstation zx6000 with 1.3 GHz Processor (HIP Partner) A9664A

HP Workstation zx6000 with 1.5 GHz Processor (HIP Partner) A9665A



Standard Features Pre-Configured Regional Models

zx6000/2x900/2/36/ GL4/U A9373BF#ABA	Processor Cache Memory Memory Optical Drive Hard Drive Graphics Mouse OS	Dual Intel Itanium 2 processors. 900 MHz 1.5MB L3 2 GB ECC PC2100 DDR-266 (4x512 MB) DVD-ROM drive 36 GB Ultra320 SCSI 10K rpm ATI Fire GL4 HP scroll mouse HP-UX 11i TCOE
R7/U A9372BF#ABACache Memory1.5MB L3Memory2 GB ECC FOptical DriveDVD-ROM ofHard Drive36 GB UltrationGraphicsATI RADEOMouseHP scroll mode		Dual Intel Itanium 2 processors. 900 MHz 1.5MB L3 2 GB ECC PC2100 DDR-266 (4x512 MB) DVD-ROM drive 36 GB Ultra320 SCSI 10K rpm ATI RADEON 7000 HP scroll mouse HP-UX 11i TCOE
zx6000/2x900/2/36/ R7/L A9374DF#ABA	Processor Cache Memory Memory Optical Drive Hard Drive Graphics Mouse OS	Dual Intel Itanium 2 processors. 900 MHz 1.5MB L3 2 GB ECC PC2100 DDR-266 (4x512 MB) DVD-ROM drive 36 GB Ultra320 SCSI 10K rpm ATI RADEON 7000 HP scroll mouse Red Hat Linux Advanced Workstation 2.1
zx6000/2x900/2/36/ Q4980/L A9375DF#ABA	Processor Cache Memory Memory Optical Drive Hard Drive Graphics Mouse OS	Intel Itanium 2 processor 900 MHz 1.5 MB L3 2GB ECC PC2100 DDR-266 (4x512 MB) DVD-ROM drive 36 GB Ultra320 SCSI 10K rpm NVIDIA Quadro4 980 XGL HP scroll mouse Red Hat Linux Advanced Workstation 2.1
zx6000 LEK/FldRk/ 2x900/1G/36G/ DVD/Q2EX A9680AF#ABA	Processor Cache Memory Memory Optical Drive Hard Drive Graphics Mouse OS	Intel Itanium 2 processor 900 MHz 1.5 MB L3 1GB ECC PC2100 DDR-266 (2x512MB) DVD-ROM drive 36 GB Ultra320 SCSI 10K rpm NVIDIA Quadro2 EX HP scroll mouse Linux Enabled Kit



Standard Features Pre-Configured Regional Models

zx6000 LEK/FdRk/	Processor	Intel Itanium 2 processor 1.3 GHz
2x1.3/1G/36G/	Cache Memory	3 MB L3
DVD/Q2EX A9680BF#ABA	Memory	1GB ECC PC2100 DDR-266 (2x512MB)
	Optical Drive	DVD-ROM drive
	Hard Drive	36 GB Ultra320 SCSI 10K rpm
	Graphics	NVIDIA Quadro2 EX
	Mouse	HP scroll mouse
	OS	Linux Enabled Kit



Configure to order options (custom configurations)

When buying a basic system, you have many configuration options. Base System includes one processor, no RAM, no disk, Ultra320 SCSI, external SCSI connector, 10/100/1000BT LAN, 10/100BT LAN, 2 serial, 4 USB, 1 AGP-4X slot, 3 PCI-X slots, and all required power cords.

		HP-UX	Linux
IP workstation zx6000	HP Workstation zx6000, Intel Itanium 2 processor, 1.3GHz 3.0MB cache	Х	Х
base system	HP Workstation zx6000, Intel Itanium 2 processor, 1.5GHz 6.0MB cache	Х	Х
Second Processor	1.3GHz Intel Itanium 2 processor with 3.0MB integrated cache	Х	х
	1.5GHz Intel Itanium 2 processor with 6.0MB integrated cache	Х	Х
Operating System	HP-UX 11i v2	Х	
	Red Hat Linux Advanced Workstation 2.1		Х
Braphics Card	ATI RADEON 7000 (32 MB, dual display, AGP)	Х	х
	ATI FireGL Z1-128p (128MB, dual display, AGP 8X)	Х	Х
	NVIDIA Quadro4 980 XGL (128 MB, dual display, AGP 8X)		Х
	ATI FireGL X1-256p (256 MB, dual display, AGP 8X)	х	Х
	NOTE: ATI FireGL graphics cards occupy 2 physical slots in the system.		
Memory	512 MB PC2100 DDR SDRAM memory kit (2x256MB DIMMs)	Х	х
	1 GB PC2100 DDR SDRAM memory kit (2x512MB DIMMs)	Х	Х
	2 GB PC2100 DDR SDRAM memory kit (2x1GB DIMMs)	Х	х
	4 GB PC2100 DDR SDRAM memory kit (2x2GB DIMMs)	Х	Х
Monitors	HP p1230 22-inch (20.0-inch vis) Performance Natural-flat CRT Monitor	Х	х
	HP L1925 19-inch TFT Flat Panel Display – Analog/Digital	Х	х
	HP L2035 20-inch TFT Flat Panel Display	Analog mode only	Х
	HP L2335 23-inch TFT Widescreen Flat Panel Display	1600x1200 or lower resolution only	Х
		resolution only	
nternal hard disks minimum 1, maximum 3)	Ultra320 SCSI Drives		X
	36 GB Ultra320 SCSI 10,000 rpm (hot plug)	X	Х
	36 GB Ultra320 SCSI 15,000 rpm (hot plug)	X	Х
	73 GB Ultra320 SCSI 15,000 rpm (hot plug)	Х	Х
	146 GB Ultra320 SCSI 10,000 rpm (hot plug)	Х	Х
Storage Controllers	Ultra160 SCSI Adapter for HP-UX, 1 channel	Х	
	Ultra160 SCSI Adapter for HP-UX, 2-channel	Х	
	Fibre Channel Adapter for Linux - (no boot)		Х
	Fibre Channel Adapter, 2GB, for HP-UX	Х	
	FWD SCSI Adapter, 2-channel (no boot)	Х	
	Ultra160 SCSI Adapter for Linux, 1-channel		Х
	Ultra160 SCSI Adapter for Linux, 2-channel		Х



Configure to order options (custom configurations)

Optical Drive	4.7GB DVD+RW, 4X Max, Slimline Drive		х
	DVD-ROM Drive, 8X Max, Slimline, Carbon	Х	Х
	CD-RW/DVD-ROM Combo Drive, 12X/8X Max, Slimline, Carbon	Х	Х
nput Devices	HP USB Keyboard Kit, includes USB scroll mouse	Х	х
	HP USB Keyboard Kit, includes USB 3-button mouse	Х	Х
	HP USB scroll mouse	Х	Х
	SpaceBall 5000, Serial Interface	Х	Х
	USB to PS/2 Adapter	Х	Х
letwork Adapters	1000BaseTX PCI LAN Adapter for HP-UX (Required for HP-UX)	Х	
	1000BaseSX (Fibre) PCI LAN Adapter for HP-UX	Х	
	100BaseT PCI LAN Adapter for HP-UX (Does not support boot.)	Х	
	100BaseT PCI LAN Adapter, Quad Port	Х	
	HyperFabric2 PCI Fiber Adapter for HP-UX	Х	
	1000BaseTX PCI LAN Adapter for Linux		Х
	1000BaseSX (Fibre) PCI LAN Adapter for Linux		Х
	LAN, MUX, 8-port (1.3 and 1.5GHz models only)	Х	
	I/O and Networking Documentation kit	Х	Х
Management Processor HP Management Processor Card Card		Х	х
Redundant Power Supply	Redundant Hotswap Power Supply	х	Х
Rack and Tower Options	Workstation Field Rack Kit	Х	х
(must order 1)	Workstation Factory Rack Kit	Х	Х
nust order T)		Λ	~



After market options/Standalone accessories

		HP-UX	Linux	
Second Processor	Intel Itanium 2, 1.3 GHz, 3.0 MB integrated cache	х	Х	A9666A
(must be same frequency as primary processor)	Intel Itanium 2, 1.5 GHz, 6.0 MB integrated cache	Х	Х	A9667A
Processor Upgrades	Upgrade kit: Intel Itanium 2, 1.3 GHz, 3.0 MB integrated cache	х	х	A9666A
	Upgrade kit: Intel Itanium 2, 1.5 GHz, 6.0 MB integrated cache	Х	Х	A9666A
	Return credit for Intel Itanium 2, 1 GHz, 3.0 MB integrated cache	Х	Х	A7848AN
Operating System	HP-UX 11i MTOE, License-to-use	х		B6867AA
	HP-UX 11i TCOE, License-to-use	Х		B6868AA
	HP-UX 11i MTOE media kit	Х		B9000AA
	HP-UX 11i TCOE media kit	Х		B9001AA
	Linux Enablement Kit for HP Itanium-based workstation		Х	T1502AA
	Red Hat Linux Advanced WS for zx6000		Х	T2381AA
	Red Hat Linux Adv. WS for zx (0D1 only)		Х	T2379AA
	HP Linux Installation Kit			T2170A
	Red Hat Linux Advanced Workstation for zx6000 License-to-use		Х	T2381AA
Memory	512MB PC2100 DDR SDRAM memory kit (2x256MB DIMMs)	х	х	A7840A
	1GB PC2100 DDR SDRAM memory kit (2x512MB DIMMs)	Х	Х	A7841A
	2GB PC2100 DDR SDRAM memory kit (2x1GB DIMMs)	х	Х	A7842A
	4GB PC2100 DDR SDRAM memory kit (2x2GB DIMMs)	Х	Х	A7843A
Monitors	HP p1230 22-inch (20.0-inch vis) Performance Natural-flat CRT Monitor	Х	Х	P9613#ABA
	HP L1925 19-inch TFT Flat Panel Display – Analog/Digital	Х	Х	P9626A#ABA
	HP L2035 20-inch TFT Flat Panel Display	Analog mode only	Х	P9614A#ABA
	HP L2335 23-inch TFT Widescreen Flat Panel Display	1600x1200 or lower resolution only	Х	P9615A#ABA
Graphics	ATI RADEON 7000 (32 MB, dual display, AGP)	х	х	A8049B
	ATI FireGL Z1-128p (128MB, dual display, AGP 8X)	х	Х	A9654A
	NVIDIA Quadro4 980 XGL (128 MB, dual display, AGP 8X)		Х	A9655A
	ATI FireGL X1-256p* (256 MB, dual display, AGP 8X)	х	Х	A9653A
	NOTE: ATI FireGL graphics cards occupy 2 physical slots in the sys	rtom		



After market options/Standalone accessories

Hard Drives	Ultra320 SCSI Drives			
	36 GB Ultra320 SCSI, 10,000 rpm, hot plug	х	Х	A7835B
	36 GB Ultra320 SCSI, 15,000 rpm, hot plug	Х	х	A7836A
	73 GB Ultra320 SCSI, 15,000 rpm, hot plug	Х	х	A7838A
	146 GB Ultra320 SCSI, 10,000 rpm, hot plug	х	Х	A7839A
Storage Controllers	Ultra160 SCSI Adapter for HP-UX, 1-channel	х		A6828A
	Ultra160 SCSI Adapter for HP-UX, 2-channel	х		A6829A
	Fibre Channel Adapter, for Linux - No Boot for 1.3GHx and 1.5GHz models only		Х	AB234A
	Fibre Channel Adapter, 2GB, for HP-UX	Х		A6795A
	FWD SCSI adapter, 2-channel (does not support boot)	Х		A5159A
	Ultra160 SCSI Adapter for Linux, 1-channel		Х	A7059A
	Ultra160 SCSI Adapter for Linux, 2-channel		Х	A7060A
Optical Drives	4.7GB DVD+RW, 4X Max, Slimline Drive		х	AB616A
	DVD-ROM Drive, 8X Max, Slimline, Carbon	Х	х	A7850A
	CD-RW/DVD-ROM Combo Drive, 12X/8X Max, Slimline, Carbon	х	Х	A7851A
Network Adapters	1000BaseTX PCI LAN Adapter for HP-UX	х		A6825A
	1000BaseSX (Fibre) PCI LAN Adapter for HP-UX	Х		A6847A
	100BaseT PCI LAN Adapter for HP-UX	Х		B5509BA
	100BaseT PCI LAN Adapter, Quad Port	Х		A5506B
	HyperFabric2 PCI Fiber Adapter for HP-UX	Х		A6386A
	1000BaseTX PCI LAN Adapter for Linux		Х	A7061A
	1000BaseSX (Fibre) PCI LAN Adapter for Linux		Х	A7073A
	LAN, MUX, 8-port (1.3 and 1.5GHz models only)	Х		A6748A
	I/O and Networking Documentation kit	х	х	A520
Input Devices	Keyboard Kit, USB, PC-104/105, Carbon black; includes USB keyboard and USB Scroll Mouse.	Х	Х	A7861C
	USB to PS/2 adapter (allows the use of a PS/2 keyboard and mouse, or KVM switch)	Х	х	A7782A
	SpaceBall 5000, Serial Interface	х	Х	AB602A
Audio	Adaptor, PCI-1xU, Audio, FM801	х	Х	A7784A
Management Processor HP Management Processor Card Card		х	Х	A6875A
Redundant Power Supply Redundant Hotswap Power Supply		х	Х	A6874A
Rack and Tower Kits	Rack to Tower Conversion Kit	х	Х	A8718A



Memory

ECC PC2100 DDR-266 memory

Memory must be installed in pairs of the same size. Memory upgrade kits come in pairs. This chart does not represent all possible memory configurations.

Minimum Memory

512-MB (2x256-MB)

Maximum Memory

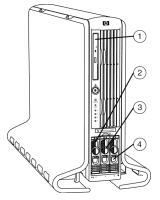
24-GB (12x2-GB)

Mem	ory	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6
Minimum	512 MB	256 MB	256 MB				
Maximum	24 GB	2 GB	2 GB	2 GB	2 GB	2 GB	2 GB
Mem	ory	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12
Minimum	512 MB						
Maximum	24 GB	2 GB	2 GB	2 GB	2 GB	2 GB	2 GB



Storage

Drive Bay Locations



Drive Support

	Quantity Supported	Position Supported	Controller
Optical Drives			
Slimline DVD+RW Drive	Up to 1	1	Integrated EIDE
Slimline DVD-ROM Drive	Up to 1	1	Integrated EIDE
Slimline DVD-ROM/CD-RW Combo Drive	Up to 1	1	Integrated EIDE
lard Drives			
Ultra320 SCSI Drives 1-inch	Up to 3	2, 3, 4	Optional Ultra160 SCSI Controller or
	00103	2, 3, 4	Fibre Channel Adapter for Linux - no boot
36 GB Ultra320 SCSI (10K			
rpm)			
73 GB Ultra320 SCSI (15K			
rpm) 146 GB Ultra320 SCSI (10K			
rpm)			
Anvimum Storago	429 CP		
laximum Storage apacity	438 GB (SCSI)		



HP Workstation zx6000

QuickSpecs

System Unit	Tower Dimensions (HxWxD)	19.5 x 11.7 x 26.5 in (49.5 x 29.7 x 67.3 cm)			
	Weight	Minimum Tower Configuration 49.4 lb (22.4 kg)			
	(tower configuration)	Maximum Tower Configuration	n 56.3 lb (25.5 kg)		
	Rack Dimensions (HxWxD)	3.4 x 19.0 x 26.8 in (8.6 x 48.	3 x 68.1 cm)		
	EIA Units	2U (20 units possible per 2 m	eter rack)		
	Weight (rack configuration)	Minimum Rack Configuration	38.6 lb (17.5 kg)		
		Maximum Rack Configuration	49.0 lb (22.2 kg)		
	Power Supply	Input current (autoranging)	8.0A max @ 100-127V, 3.9A max @ 200-240V		
		Line Frequency	50- 60 Hz		
		Maximum Power Input	714 W		
	Temperature	Operating	41° to 95° F (5° to 35° C)		
		Non-operating	-40° to 158° F (-40° to 70° C)		
	Humidity (non-condensing)	Operating	15% to 80% relative		
	Maximum Altitude	Operating	10,000 ft (3,048 m)		
	(non-pressurized)	Non-operating	15,000 ft (4572 m)		
HP Keyboard	Dimensions (HxWxD)	18.82 x 7.3 x 1.85 in (47.8 x 18.6 x 4.7 cm)			
	Weight	Approx.1.2 kg \pm 0.1 kg			
	Electrical	Operating Voltage	+ 5VDC ± 5%		
		Power Consumption	60 mA maximum (with 3 LEDs on)		
		System Interface	USB connector		
		ESD	CE level 4, 15 kV air discharge		
		EMI-RFI	Conforms to FCC rules for a Class B computing device		
		PC98	Functionally compliant		
	Mechanical	Languages	12 available		
		Keycaps	Standard profile design		
		Switch Actuation	55 g nominal peak force with tactile feedback		
		Switch Life	20 million keystrokes (using Hasco modified tester)		
		Switch Type	Contamination resistant membrane		
		Key Leveling Mechanism	For all double wide and greater length keys		
		Cable Length	2.9 m		
		PC98-99	Mechanically compliant		
		Acoustics	65 dBA for spacebar, 55 dBA for all others maximum sound pressure level		
	Environmental	Operating Temperature	41° to 95° F (5° to 35° C)		
		Non-operating Temperature	-40° to 140° F (-40° to 60° C)		
		Operating Humidity	10% to 80% (non condensing at ambient)		
		Non-operating Humidity	10% to 90% (non condensing at ambient)		
		Operating Shock	40 g, 6 surfaces		
		Non-operating Shock	80 g, 6 surfaces		
		Operating Vibration	2 g peak acceleration		
		Non-operating Vibration	4 g peak acceleration		



HP Workstation zx6000

QuickSpecs

SpaceBall 5000	Dimensions (HxWxD)	3.0 x 6.0 x 8.4 in (7.6 x 15.2 :	x 21.3 cm)			
	Ball Diameter	2.2 in (5.6 cm)				
	Weight	2.1 lb (9.94 kg)				
	Features	(•)	on control through the X, Y, Z axis			
		Device sensitivity adjustable	to preference			
		Certified for leading CAD and	DCC applications			
	Environmental	Operating Temperature	50° to 104° F (10° to 40° C)			
		Non-operating Temperature	43° to 140° F (6° to 60° C)			
		Operating Humidity	8% to 80% (non-condensing at ambient			
		Non-operating Humidity	5% to 80% (non-condensing at ambient)			
	Mechanical	Buttons	12 programmable (unshifted)			
			23 programmable (shifted)			
		Ball Force range	0.5 - 8.2N (1.8 - 29.5 oz)			
		Ball Torque range	0.085 - 0.33 oz-in. (6.91 Nmm)			
		Resolution	10 bits			
	Serial Specifications	Connector	9-pin D-subminiature receptacle (DB9S)			
		Cable Length	12.8 ft. (3.9 m)			
		Data rate	9600 bps			
		Flow control	Xon/Xoff			
	System Requirements	10 Megabytes free disk space for driver and plug-in installation				
		CD-ROM device required				
	Software Drivers	Unix drivers for HP-UX				
		Red Hat Linux				
	Regulatory Approvals	Compliant	UL, cUL, EN 950, EN 60950, CSA, FCC, CE Mark, TUV, CISPR 22, EN 50082, IEC 1000 4-2, IEC 1000-4-3, AS/NZS, VCCI, BSMI, C-Tick, PCI, MIC			
HP 3-Button Mouse	Dimensions/Weight	Height	1.42 in (3.6 cm)			
		Length	4.17 in (10.7 cm)			
		Width	2.87 in (7.4 cm)			
		Weight	5.20 oz (150 g)			
	Environmental	Operating Temperature	32° to 104° F (0° to 40° C)			
		Non-operating Temperature	-4° to 140° F (-20° to 60° C)			
		Operating Humidity	10% to 90% (non condensing at ambient)			
	Mechanical	Resolution	400 ± 20% DPI			
		Tracking Speed	10 in/s Maximum			
		Switch Life	1,000,000 operations (using Hasco modified tester)			
		Switch Type	Micro-switches			
		Tracking Mechanism Life	155 miles (250 km) at average speed of 10 in/s			
		Cable Length	6 ft (1.8 m)			
		PC98-99	Mechanically compliant			
	Regulatory Approvals	Compliant	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C- Tick			



HP 2-button Scroll Mouse	Scroll Wheel	8 mm	
	Maximum Rotation Speed		
	Switch Type	Light force micro-switch	
	Switch Life	1 million operations	
	Mechanical Life	Minimum 200,000 revolutions	
	Environmental	Operating Temperature	50° to 122° F (10° to 50° C)
		Non-operating Temperature	-22° to 140° F (-30° to 60° C)
		Operating Humidity	10% to 90% (non condensing at ambient)
		Non-operating Humidity	20% to 80% (non condensing at ambient)
		Operating Shock	40 g, 6 surfaces
		Non-operating Shock	80 g, 6 surfaces
		Operating Vibration	2 g peak acceleration
		Non-operating Vibration	4 g peak acceleration
	Electrical	Operating Voltage	+ 5VDC ± 10%
		Power Consumption	15mA
		System Consumption	USB connector
		ESD	CE level 4, 15 kV air discharge
		EMI-RFI	Conforms to FCC rules for a Class B computing device
		PC98	Functionally compliant
	Mechanical	Resolution	400 ± 20% DPI
		Tracking Speed	10 in/s Maximum
		Acceleration	100 in/s
		Switch Actuation	85 g nominal peak force
		Switch Life	1,000,000 operations (using Hasco modified tester)
		Cable Length	2 m
		PC98-99	Mechanically compliant
	Regulatory Approvals	UL, CSA, FCC, CE Mark, TUV,	TUV GS, VCCI, BCIQ, C -Tick
LSI Logic Ultra320 SCSI	Bus architecture	PCI-X (backward compatible to	o PCI)
Dual Channel host adapter	Number of supported devices	30	
	Interface protocol	64-bit PCI-X bus-master	
	Host bus transfer rate	Up to 133 MB/s	
	SCSI data transfer rate	Up to 640 MB/s	
	Bus width	64-bit (fits both 32-bit and 64	-bit bus widths)
	Internal SCSI connectors	Two 68-pin HD	
	External SCSI connector	Two 68-pin VHDCI	
	Total connectors	4	
	Plug and Play Support	Yes	
	Dimensions (H x L)	6.7 x 4.2 in (17.3 x 11.4 cm)	
	Approvals/ environmental	CE, VCCI, Canada, C-Tick, FC	C class B, UL 94VO, BSMI, MIC
	Operating system suppor	t Red Hat Enterprise Linux Wor	kstation 3.0



HP Workstation zx6000

Liltro 220 SCSI Hard Drives	146 CP 10K rpm	Nominal Capacity	146.8 GB
Ultra320 SCSI Hard Drives	140 GB, 10K Ipili	Dimensions (HxWxD)	
		(, , , , , , , , , , , , , , , , , , ,	1.00 x 4.00 x 5.75 in (2.54 x 10.16 x 14.61 cm)
		Interface	Ultra320 SCSI
		Transfer rate synchronous (maximum)	320 MB/s
		Seek time (typical reads, including settling)	Single track: 0.35 ms Average: 4.7 ms Full-stroke: 10.0 ms
		Average rotational latency	2.99 ms
		Rotational speed	10,000 rpm
		Logical blocks	289,749,488
		Operating temperature	41° to 131° F (5° to 55° C)
	73 GB, 15K rpm	Nominal Capacity	73.4 GB
		Dimensions (HxWxD)	1.00 x 4.00 x 5.75 in (2.54 x 10.16 x 14.61 cm)
		Interface	Ultra320 SCSI
		Transfer rate	320 MB/s
		synchronous (maximum)	
		Seek time (typical reads, including settling)	Single track: 0.35 ms Average: 4.7 ms Full-stroke: 10.0 ms
		Average rotational latency	2.99 ms
		Rotational speed	10,000 rpm
		Logical blocks	289,749,488
		Operating temperature	41° to 131° F (5° to 55° C)
	36 GB, 15K rpm	Nominal Capacity	36.4 GB
		Dimensions (HxWxD)	1.00 x 4.00 x 5.75 in (2.54 x 10.16 x 14.61 cm)
		Interface	Ultra320 SCSI
		Transfer rate synchronous (maximum)	320 MB/s
		Seek time (typical reads, including settling)	Single track: 35 ms Average: 4.7 ms Full-stroke: 10.0 ms
		Average rotational latency	2.99 ms
		Rotational speed	15,000 rpm
		Logical blocks	71,132,960
		Operating temperature	41° to 131° F (5° to 55° C)



	26 CP 10K	Nominal Consoity	26.4.00
	36 GB, 10K	Nominal Capacity	36.4 GB
		Dimensions (HxWxD)	1.00 x 4.00 x 5.75 in (2.54 x 10.16 x 14.61 cm)
		Interface	Ultra320 SCSI
		Transfer rate synchronous (maximum)	320 MB/s
		Seek time	Single track: 35 ms
		(typical reads, including settling)	Average: 4.7 ms Full-stroke: 10.0 ms
		Average rotational latency	
		Rotational speed	10,000 rpm
		Logical blocks	71,132,960
		Operating temperature	41° to 131° F (5° to 55° C)
		Operating temperature	
HP 4.7GB DVD+RW Slimline	Capacity	4.7 GB DVD disc/700 MB CD d	lisc
Drive	Dimensions (HxWxD)	0.5 x 5.22 x 5.46 in (1.35 x 13.	.28 x 13.88 cm)
	Weight	0.551 lb (250 g)	
	Interface	ATAPI/EIDE	
	Mounting Orientation	Horizontal or vertical (within 1	5 degrees)
	Data Transfer Rates - Read	Digital audio extraction (minimum)	1,200 KB/s (8X)
		CD read	Up to 3,600 KB/s (24X)
		DVD read	Up to 8,100 KB/s (8X)
	Media and Formats - Read	CD formats	CD-DA (Red Book), CD-ROM (Modes 1 and 2 - Yellow Book), CD-ROM XA (Mode 2, Forms 1 and 2), CD-I (FMV), Photo CD (single and multi-session), Video CD, CD-Text, CD Extra
		CD media	Stamped, CD-R, CD-RW
		DVD formats	DVD-ROM, DVD-Video (with application support)
		DVD media	Stamped (single or dual layer, single sided), DVD+RW, DVD+R
	Data Transfer Rates -	DVD+R write	5.54 MB/s (4X)
	Write	DVD+RW write or rewrite	3.32 MB/s (2.4X)
		CD-R write	1200 KB/s (8X)
		CD-R write	1800 KB/s (12X)
		CD-R write	2,400 KB/s (10X)
		CD-RW write	600 KB/s (4X)
		CD-RW write	1500 KB/s (10X)
	Media and Formats - Write	CD formats	CD-DA (Red Book), CD-ROM (Modes 1 and 2 - Yellow Book), CD-ROM XA (Mode 2, Forms 1 and 2), CD-I (FMV), Photo CD (single and multi-session), Video CD, CD-Text, CD Extra
		CD media	CD-R, CD-RW
		DVD formats	DVD-ROM, DVD-Video (with application support)
		DVD media	DVD+RW, DVD+R



Technical Specifications

	Write	Methods	Disc-at-once, track-at-once, incremental fixed and variable packet, random access write (DVD+RW only), sequential write (DVD +R, +RW). Writing method is application dependant.			
	Data T	Fransfer Mode	ATA PIO mode 4-16.6-Mbps, ATA UltraDMA mode 2-33-Mbps (default)			
	Acces	ss Times	DVD-ROM Single Layer Rand			
	(typica	I)	CD-ROM Random	140 ms typical		
			CD-ROM Full stroke	200 ms typical		
	Start-u	u p Time (typical)	DVD-ROM	9.5 s typical (time from disk insertion to drive ready)		
			CD-ROM	8.0 s typical (time from disk insertion to drive ready)		
	Stop 1	Г іте (typical)	< 9 s			
	Write	Buffer Size	2 MB (minimum)			
	Audio	Output	16 bit data output	Through ATA interface		
			Volume Control	Software controlled		
	Opera	ting Conditions	Temperature (Read)	41° to 122° F (5° to 50° C)		
			Humidity (Write)	41° to 113° F (5° to 45° C)		
	Appro Enviro	ovals/ onmental	UL 1950 (US and Canada), CE,	FDA, FCC (B), TUV, C-TICK (B)		
	Opera	ting Systems Supported	Red Hat LINUX Advanced Work	station version 2.1		
	Suppl	ied Software	•	including the Nero5 Express basic user interface and		
			the Nero5 Burning ROM advance	ced user interface.		
Slimline CD-RW/		Drive	Manual tray-load			
DVD-ROM Combo Dr	ive	Orientation	Horizontal or vertical			
		Interface Type	ATAPI			
		Dimensions (W x H x D)	5.23 x 0.5 x 5.46 in (13.28 x 1.2	27 x 13.87 cm)		
		Disc Diametre	12 cm, 8 cm			
		Disc Thickness	1.2 mm			
		Track Pitch	1.6 µm (CD-ROM); 0.74 m m (DV	/D-ROM)		
		Disc Centre Hole Diametre	15 mm			
		Reference Scanning	1.2 m/s (CD); 3.49 m/s (DVD SL	.); 3.84 m/s (DVD DL)		
		Velocity				
		Read Only Disc Parametres	Supported 2	CD-ROM—Mode 1; CD-ROM XA—Mode 2 (forms 1 and 2); CD digital audio; CD Extra; CD-I—Mode 2 (forms 1 and 2) and CD-I-Ready; Photo CD (single and multi-session); video CD; DVD (single and doublelayer); DVD-R 3.95 GB; DVD-R 4.7 GB; DVD-RW 4.7 GB; DVD+ RW 4.7 GB		
			1	550 MB (Mode 1, 12 cm); 650 MB (Mode 1, 12 cm); 630 MB (Mode 2, 12 cm); 740 MB (Mode 2, 12 cm); 700 MB (CD-ROM 80 min); 180 MB (CD-ROM 8 cm) 4.7 GB (DVD-5); 8.54 GB (DVD-9); 9.4 GB (DVD-10)		
				Mode 1—2,048 and 2,352 bytes; mode 2, form 1—2,048; 2,328; 2,336; 2,340 and 2,352 bytes; mode 2, form 2—2,328; 2,336; 2,340 and 2,352 bytes; CD- DA—2,352 and 2,368 bytes; DVD—2,048 bytes		
		Writeable Disc Parametres	Disc Type	CD-R and CD-RW		
				Disc at Once, Track at Once, Session at Once, Variable Packet, Fixed Packet		
			Format and Modes	CD-ROM (mode 1); CD-ROM XA (mode 2, forms 1 and		



	Supported	2); CD digital audio, CD-I (mode 2, forms 1 and 2); video CD
	Capacity	550 MB (Mode 1, 12 cm); 650 MB (Mode 1, 12 cm); 630 MB (Mode 2, 12 cm); 740 MB (Mode 2, 12 cm); 700 MB (CD-ROM 80 min); 180 MB (8 cm)
	Block Size	Mode 1—2,048 bytes; mode 2, form 1—2,048 and 2,352 bytes; mode 2, form 2—2,352 bytes; CD-DA —2,353 bytes
Access Times (typical)	Random DVD	< 130 ms
	Random CD	< 110 ms
	Full Stroke DVD	< 225 ms
	Full Stroke CD	< 210 ms
Data Transfer Rates	Maximum – CD-R Write	3600 KB/s (24X CAV)
	Sustained — CD-RW Write	1500 KB/s (10X CLV)
	Minimum — CD-R Read	3600 KB/s (24X ZCLV)
	Minimum — CD-ROM Read	3600 KB/s (24X CAV)
	Minimum — DVD-ROM Read	10800 KB/s (8X CAV)
	Minimum — Digital Audio Extraction	1200 KB/s (8X CLV)
Data Transfer Modes	ATA PIO mode 4 (16.7 MB/s);	ATA Multi-word DMA mode 2 (16.7 MB/s)
Bus Rate	16.6 MB/s (burst) with DMA su	upport
Cache Buffer	2 MB (minimum)	
Startup Time (single)	< 9 seconds (typical)	
Startup Time (multi-session)	< 30 seconds (typical)	
Stop Time	< 6 seconds	
Power	Source	Four-pin, DC power receptacle
	DC Power Requirement	5 VDC ± 5%—100 mV ripple p-p
	DC Current	< 800 mA read (typical at Outer Diametre) < 900 mA write (typical at Outer Diametre) < 1600 mA (maximum excluding spike current < 1 ms duration) < 1600 mA (maximum excluding spike current < 1 ms duration) < 100 mA (low power mode) < 70 mA (sleep mode)
	Total Drive Power (standby mode)	< 70 mA
Audio Output Level	0.7 – 0.9 Vrms	
Configuration Jumper Block	Cable select mode	
Data Interface Connector	68-pin interface connector	
Environmental	Temperature (operating)	41° to 122° F (5° to 50° C)
(all conditions non- condensing)	Relative Humidity (operating)	10% to 80%
	Maximum Wet Bulb Temperature (operating)	84° F (29° C)
Certifications, Requirements	IEC 60950, CFR 47 part 15, CS	AS/NZS 3548, ANSI C63.4–1992 CB Test Certificate for 6A C22.2 No. 60950, DHSS/FDA - 1040, EN55022, 68, 908, 61000-4, ISO 9660, 10149, 13346,TUV or VDE 8 class B, CE Mark



	Connaitu		
Slimline DVD-ROM Drive	Capacity	4.7 GB DVD disc/700 MB CD	disc
	Drive	Manual tray-load	
	Orientation	Horizontal or vertical	
	Dimensions (W x H x D)	5.23 x 0.5 x 5.46 in (13.28 x	1.27 X 13.88 Cm)
	Weight	280g	
	Interface	ATAPI/EIDE	
	Mounting Orientation	Horizontal (80 or 120 mm dis	scs) or vertical (120 mm discs only)
	Form Factor	12.7 mm Slim Line	
	Centre Hole Diametre	15 mm	
	Disc Diametre	120 mm and 80 mm	
	Disc Thickness	1.2 mm	
	Track Pitch	1.60 μm (CD), 0.74 μm (DVD))
	Access Times (typical reads, including settling)	Random	< 100 ms (CD), < 125 ms (DVD)
		Full stroke	< 175 ms (CD), < 225 ms (DVD)
	Audio Output Level	Line out	0.7 – 0.9 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Data Transfer Rate	Sustained 24XCD-ROM	3.6 MB/s
	(typical, including settling)	Sustained 8X DVD	10.08 MB/s
		MultiWord DMA Mode 2	16.6 MB/s
		PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 4 seconds	
	-		
PCI-Universal audio card	Audio processor	Forte Media FM801-AU, with	Stac 9721T & 9708T codecs, AC97 v2.1
	Connectors	External	MIC in: 3.5mm phone
			LINE IN: 3.5mm phone (stereo) AUDIO OUT: 3.5mm phone (stereo)
		Internal	CD IN: Molex SL or 4-pinbb Supplied CD-ROM audio cable uses 4-pin connector AUX IN: 4-pin MODEM: 4-pin mono in/out
	Configuration	Jumper-less: all configuration	n either automatic or under host software control
	Dimensions	connectors used	r edge 0cm clearance required above PCI connector if SL
		Thickness: 0.8 in (1.2 cm)	
	Weight		lb (0.68 kg) in shipping carton
	Weight Power		lb (0.68 kg) in shipping carton
	-	3.0 oz (85 g) card alone 1.5 l	lb (0.68 kg) in shipping carton 41° to 95° F (5° C to 35° C)
	Power	3.0 oz (85 g) card alone 1.5 l 3 watts max	
	Power	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating	41° to 95° F (5° C to 35° C)
	Power Temperature	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating Non-operating	41° to 95° F (5° C to 35° C) -40° to 158° F (-40° C to 70° C)
	Power Temperature	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating Non-operating Operating	41° to 95° F (5° C to 35° C) -40° to 158° F (-40° C to 70° C) 3.0 km 4.6 km
	Power Temperature Altitude	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating Non-operating Operating Non-operating	41° to 95° F (5° C to 35° C) -40° to 158° F (-40° C to 70° C) 3.0 km 4.6 km
	Power Temperature Altitude Relative humidity	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating Non-operating Operating Non-operating 15% to 80%, non-condensing	41° to 95° F (5° C to 35° C) -40° to 158° F (-40° C to 70° C) 3.0 km 4.6 km
	Power Temperature Altitude Relative humidity	3.0 oz (85 g) card alone 1.5 l 3 watts max Operating Non-operating Operating Non-operating 15% to 80%, non-condensing Version	41° to 95° F (5° C to 35° C) -40° to 158° F (-40° C to 70° C) 3.0 km 4.6 km g PCI 2.1



	Interrupts	Shareable, system-managed
Audio specifications	Channels	1 or 2 (mono or stereo) (5.1 surround channels not supported)
	Line-in	10 KW , 1.0V full-scale, linear, 20 Hz to 19,200 Hz, \pm 1 dB
	CD-in	47 KW, 1.0V full-scale, linear 20 Hz to 19,200 Hz, ± 1 dB
	Line-out	10 KW, 1.0V full-scale 20 Hz to 19,200 Hz, ± 1 dB
	Phone-out	5 KW , 60mW/channel, linear 65 Hz to 19,200 Hz, ± 1 dB
	Mic in	10 kW , 100mV full-scale, curve 20 Hz to 19,200 Hz, ± 1 dB
	Distortion	Line/CD In/Out: 0.02% THD
		Mic In/Phone Out: 0.05% THD
	Noise	Line/CD In: > 75 dB Line Out: > 90dB
	Sampling rates	8, 3x, 44.1 and 48 KHz, 1 or 2-channel
	Encodings	CCITT A-law, CCITT µ-law
Headphone specifications	Туре	open-air (on-ear), with adjustable band, 27mm Mylar drivers, anisotropic magnet
	Weight	71g (2.5 oz.)
	Channels	2 (stereo)
	Impedance	320
	Sensitivity	94 dB SPL/1mW
	Power handling	5 mW
	Response	20-20,000 Hz
	Distortion	3% THD
	Cord	10 ft (3m), shielded, single-sided, straight (uncoiled)
	Connector	3.5mm stereo phone plug
Kit contents	PCI-Universal audio card Stereo headphones CD-ROM-to-card audio cable Signal-integrity clips	



100BaseT PCI LAN Adapter	Dimensions (H x D)	5.6 x 4.75 in (14.2 x 12.1 cm)			
B5509BA	Ethernet Controller	Digital 21143			
	Software Driver	btlan5 or btlan (for HP-UX 11i))		
	Data Transfer Rate	10 and 100mbps, half and ful	,		
	Max Bandwidth	200mbps			
	РНҮ	National DP83840			
	Device Support	One			
	Bus Type	2.1 PCI, 32-bit bus master, 33	MHz		
	Internal Connectors	Single RJ-45 port. Support for Category 5 UTP cable			
	Access Method	CSMA/CD, 10/100mbps, auto-negotiation			
	System Requirements	Available PCI slot (2.1 complia	•		
	Environmental	Operating Temperature	41° to 122° F (5° to 50° C)		
		Operating Humidity	5% to 85% non-condensing		
		Operating Altitude	10000 ft (3000 m) max		
	Power Requirements	+5 volts @ 5 amp. max			
	Operating System Support				
	Other	B5509BA: includes hardware	e, software (can be pre-installed with HP-UX operating m or can come with an application CD as stand-alone de		
100BaseT PCI LAN Adapter Quad Port <i>A5506B</i>	r Dimensions (H x D) Ethernet Controller Software Driver	6.75 x 4.75 in (17.1 x 12.1 cm) to conform to PCI half length card specifications Digital 21143 btlan			
	Data Transfer Rate	10 and 100mbps, half and full duplex			
	Max Bandwidth	800mbps			
	РНҮ	Level One LXT970ATC			
	Device Support	Up to 4			
	Bus Type	2.1 PCI, 64-bit bus master, 33	MHz		
	Internal Connectors	Four RJ-45 ports. Support for			
	External Connectors	One 68-pin VHDCI			
	Access Method	CSMA/CD, 10/100mbps, auto	-negotiation		
	System Requirements	Available PCI slot (2.1 complia	ant)		
	Environmental	Operating Temperature	41° to 122° F (5° to 50° C)		
		Operating Humidity	5% to 85% non-condensing		
		Operating Altitude	10000 ft (3000 m) max		
	Power Requirements	+5 volts @ 5 amp. max			
	Operating System Support	t HP-UX 10.20 HP-UX 11.00 HP-UX 11i HP-UX 11.22			
	Other		and software (can be pre-installed with HP-UX operating m or come with an application CD as stand-alone de		



1000BaseTX PCI LAN	Dimensions	2.536 x 6.6 in (6.44 x 16.76 cm)		
Adapter for HP-UX	Connector	RJ-45	,	
A6825A	Controller	Digital 21143		
	O/S	HP-UX 11.0 HP-UX 11i v1 HP-UX 11i v1.6		
	Data rates supported	10/100/1000 Mbps		
	Compliance	CE Mark EMC directive 89/336 Low Voltage Directive 73/23/E	/EEC & 92/31/EEC & 93/68/EEC EEC and 93/68/EEC	
		CISPR 22:1993 / EN 55022:19	994 Class B radiated emissions	
		IEC 801-3:1984 / prEN 55024	EN 55024-2:1992 - 4kV CD, 8kV AD EN 55024-3:1991, 3 V/m EN 55024-4:1993, 0.5 kV Signal lines	
		FCC Part 15, Class B		
		GB 9254-1988		
	Bus architecture	64-bit/66 MHz PCI		
	Data path width	64-bit		
	Data transfer mode	Bus-master DMA		
	Interrupts	Interrupt-A, shareable, syster	m-managed	
	Power requirement	1.5A @ 5Vdc max. (7.5W)		
	Boot ROM support	Yes		
	Network transfer rate	33MHz, 133MBytes/sec. burs	st, zero-wait-state bus-mastered DMA	
		10BASE-T (full-duplex) 20 MI	ops	
	Environmental	Operating Temperature	32° to 131°F (0° to 55° C)	
		Operating Humidity	85% at 131° F (55° C)	
	Management capabilities	ACPI, WOL and DMI 2.0, PXE	2.0, WfM 2.0, Intel PROset II utility	
	Kit contents	One PCI 10/100 LAN card, [D	S1]	



ATI Radeon 7000 Graphics	Form Factor	ATX		
Card	Graphics Controller	ATI Radeor	n 7000 GPU	
	Bus Type	AGP 2x/4x	Version 2.0 compliant	
	RAMDAC		al DACs. 165MHz TMDS for Digital D	Display
	Memory		SDRAM unified frame buffer, Z-buf	
	Connectors		,	6
			og and DVI-I analog/digital monitor o	ulpuls.
	Dimensions	•	t form factor AGP/ATX card	
	Multi-monitor support	•	endent Display (VGA+DVI or VGA+	VGA with DVI-to-VGA converter)
	Additional product features	32MB DDR VESA 3 (fla HydraVisio Compliant Video Timin DDC1/2B/2	Version 2.0 compliant. & SDRAM unified frame buffer, Z-buf ash ROM) BIOS In Display Management Software with Microsoft/Intel PC2001 Workstat hgs compliant with VESA DMT 1.0 ar B+ Monitor support on all OS platforr lay Power Management support	ion requirements nd VESA GTF 1.0 specifications
	ATI RADEON 7000 GPU featuring	128-bit GPU 64-bit exter VGA contro Triangle Se Texture Ca Bilinear and Line and Ec Specular H Z-Buffering High perfor	mal frame buffer interface running a bller tup Engine che d Trilinear Texture filtering dge Anti-aliasing	
	Supported graphics APIs	OpenGL 1.2 and below DirectX 8.0 and below		
	Available graphics drivers		Red Hat Linux Advanced Workstatic www.hp.com/support/zx6000.	on 2.1 for Itanium.
ATI RADEON 7000 display,			CRT Displays	
resolutions & refresh	Single CRT Display Reso	lution	Maximum Refresh Rate	Bits Per Pixel
rates	640x480		200Hz	8, 16, 32
	800x600		200Hz	8, 16, 32
	1024x768		200Hz	8, 16, 32
	1152x864		180Hz	8, 16, 32
	1280x1024		140Hz	8, 16, 32
	1600x1200		100Hz	8, 16, 32
	1920x1080		90Hz	8, 16, 32
	1920x1200		85Hz	8, 16, 32
	1920x1440 2048x1536		75Hz 66Hz	8, 16, 32 8, 16, 32
	2040/1000			0, 10, 32
			Digital Displays	
	Single CRT Display Reso	iution	Maximum Refresh Rate	Bits per Pixel
	640x480		75Hz	8, 16, 32
	800x600		75Hz	8, 16, 32
	1024x768		75Hz	8, 16, 32
	1280x1024 1600x1200		75Hz 60Hz	8, 16, 32 8, 16, 32
	1000x1200			0, 10, 52



ATI FireGL Z1-128p	Form Factor	ATX
Graphics Card	Graphics Controller	ATI FGL 9700 GPU
	Bus Type	AGP-Pro50 1x/2x/4x/8x Version 3.0 compliant
	RAMDAC	Dual 400MHz/30-bit
	Memory	128 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage
	Connectors	Dual DVI-I analog/digital monitor outputs
	Slots required	Occupies 2 physical slots in the system
	Dimensions	Single AGP/ATX card. 12.61 x 4.25 in (23.03 x 10.7 cm)
	Multi-monitor support	Dual Screen output for resolutions up to 2x2048x1536x32 bit
	Additional product features	256 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage 64 KB BIOS Serial Flash ROM, reprogrammable by SW, 3.3V only, no Jumpers 2D and 3D acceleration provided for 16-bit and 32-bit RGB? modes Hardware cursor with full color alpha channel 16/32 bit Z buffer, 16/32 bit W-buffer, 8-bit stored alpha and 8-bit Stencil planes Bus mastering support for 2D/3D display lists and local memory vertex list execution Hardware lighting support for up to 8 lights Bilinear, Trilinear and Anisotropic texturing Cubic Environment and Perturbation Bump Mapping Projective Texture, 3D Texture and Video Texture support Full Scene Anti-Aliasing (FSAA) support with up to 6 subsamples Video Engine supports YCrCb (4:2:2, 4:1:0, 4:2:0) to RGB conversion Video scaling and up to 4x4 tap filtering supported for all YUV and RGB16/32 formats Per pixel quad buffering on all screen resolutions
		VESA compliant Stereoscopic Interface on MiniDin Connector Compliant with Microsoft/Intel PC2001 Workstation requirements Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications DDC2B+ Monitor support on all OS platforms ACPI Version 1.0b Power Management support (all modes)
	AGP1x/2x/4x/8x Version 3.0	
	compliant including:	AGP Texturing (Execute Mode) AGP Read and AGP Write Support 8X Fast write support
	FGL 9700 GPU featuring:	VGA controller supporting full standard feature set 2D Engine with 128-bit datapath processing multiple pixels per clock PIXEL TAPESTRY III, 3D rendering engine utilizing 2 parallel pipelines with two texture blending units each capable, of handling up to 8 texels in a single pass, delivering 2.4 Gigatexels/s fill rate CHARISMA ENGINE III, geometry unit utilizing 4 vertex processing engines, capable of executing two instructions per clock cycle each, thus yielding up to 200 million transformed, clipped and lit triangles per second. VIDEO IMMERSION III, industry leading video technology supporting MPEG 2 encode/decode Dual independent display controllers with 4K x 4K address space each 256-bit external frame buffer interface providing memory bandwidth of up to 20 GB per second
	Supported graphics APIs	OpenGL 1.3 ICD with immediate mode support for all OGL primitive types DirectX 8.1
	Available graphics drivers	HP-UX and Red Hat Linux Advanced Workstation 2.1 for Itanium. See http://www.hp.com/support/zx6000.



ATI FireGL Z1-128p display,		CRT Display (Single or Dual)	Single or Dual)		
resolutions & refresh	Resolution	Maximum Refresh Rate	Bits per Pixel		
rates	640x480	100Hz	16, 24, 32		
	800x600	100Hz	16, 24, 32		
	1024x768	100Hz	16, 24, 32		
	1152x864	100Hz	16, 24, 32		
	1280x960	100Hz	16, 24, 32		
	1280x1024	100Hz	16, 24, 32		
	1600x1000	100Hz	16, 24, 32		
	1600x1024	76Hz	16, 24, 32		
	1600x1200	100Hz	16, 24, 32		
	1792x1344	100Hz	16, 24, 32		
	1920x1080	100Hz	16, 24, 32		
	1920x1200	100Hz	16, 24, 32		
	2048x1536	85Hz	16, 24, 32		
		Digital Display (Single or Dual)			
	Single CRT Display Resolution	Maximum Refresh Rate	Bits per Pixel		
	640x480	75Hz	16, 24, 32		
	800x600	75Hz	16, 24, 32		
	1024x768	75Hz	16, 24, 32		
	1280x1024	75Hz	16, 24, 32		
	1600x1000	60Hz	16, 24, 32		
	1600x1200	60Hz	16, 24, 32		
	1920x1080	60Hz	16, 24, 32		
	1920x1200	60Hz	16, 24, 32		



NVIDIA Quadro4 980 XGL Graphics Card	Form Factor Graphics Controller Bus Type RAMDAC Memory Connectors Dimensions Multi-monitor support Additional product features	ATX NVIDIA NV28GL GPU AGP 8X Version 3.0 compliant Dual 350 MHz integrated 128 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage 2 DVI-I analog/digital monitor outputs, 1 3-pin Mini DIN stereo output AGP full height ATX card. 4.25 x 8.5 in (10.8 x 21.6 cm) Dual integrated display controllers supporting up to 1920x1440 @ 85Hz on both displays • AGP 8xVersion 3.0 compliant including • Sideband Addressing • AGP Texturing (Execute Mode) • Fast writes support • 128 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage • 128 KB BIOS 3.3V Flash ROM reprogrammable by SW NV28GL GPU featuring: • 300 MHz engine clock rate • 325 MHz memory interface • VGA controller • 4 parallel pixel pipelines • 2 parallel geometry engines • finiteFX II programmable Vertex and Pixel Shader technology • Hardware Overlay Planes • Hardware two-sided lighting • Hardware accelerated antialiased points and lines • Quad-buffered Stereo • Diamond exit rule line rasterization for improved line quality • Occlusion Culling
		 Occlusion Culling Frame synchronization Compliant with Microsoft/Intel PC2001 Workstation requirements Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications DDC2B+ Monitor support on all OS platforms ACPI Version 1.0b Power Management support (all modes)
	Supported graphics APIs	OpenGL 1.3 ICD with immediate mode support for all OGL primitive types DirectX 8
	Available graphics drivers	Red Hat Linux Advanced Workstation 2.1 for Itanium. See http://www.hp.com/support/zx6000.



Technical Specifications

Bits per Pixel

8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16, 24, 32 8, 16 24, 32

8, 16

24, 32

8, 16

24, 32

8, 16

24, 32

8, 16

24, 32

XGL		Monitor 1, 2 Analog/Digital
s &	Resolution	Maximum Refresh Rate
	640x480	240Hz/240Hz
	800x600	240Hz/200Hz
	1024x768	170Hz/140Hz
	1152x864	170Hz/100Hz
	1280x720	150Hz/120Hz
	1280x960	150Hz/85Hz
	1280x1024	150Hz/75Hz
	1600x900	120Hz/75Hz
	1600x1024	100Hz/72Hz
	1600x1200	120Hz/60Hz

100Hz/60Hz

100Hz/No Digital Display Support

85Hz/No Digital Display Support

100Hz/No Digital Display Support

85Hz/No Digital Display Support

85Hz/No Digital Display Support

75Hz/No Digital Display Support

75Hz/No Digital Display Support

60Hz/No Digital Display Support

1600x1200

1920x1080

1920x1080

1920x1200

1920x1200

1920x1440

1920x1440

2048x1536

2048x1536

NVIDIA Quadro4 980 XGL display, resolutions & refresh rates

		h			
i	n	v	е	n	t

ATI FireGL X1-256p	Form Factor	ATX
Graphics Card	Graphics Controller	ATI FGL 9700 GPU
	Bus Type	AGP-Pro50 1x/2x/4x/8x Version 3.0 compliant
	RAMDAC	Dual 400MHz / 30-bit
	Memory	256 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage
	Connectors	Dual DVI-I analog/digital monitor outputs
	Slots required	Occupies 2 physical slots in the system
	Dimensions	Single AGP/ATX card. 9.06 x 4.25 in (23.01 x 10.8 cm)
	Multi-monitor support	Dual Screen output for resolutions up to 2x2048x1536x32 bit
	Additional product features	256 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage 64 KB BIOS Serial Flash ROM, reprogrammable by SW, 3.3V only, no Jumpers 2D and 3D acceleration provided for 16-bit and 32-bit RGB? modes Hardware cursor with full color alpha channel 16/32 bit Z buffer, 16/32 bit W-buffer, 8-bit stored alpha and 8-bit Stencil planes Bus mastering support for 2D/3D display lists and local memory vertex list execution Hardware lighting support for up to 8 lights Bilinear, Trilinear and Anisotropic texturing Cubic Environment and Perturbation Bump Mapping Projective Texture, 3D Texture and Video Texture support Full Scene Anti-Aliasing (FSAA) support with up to 6 subsamples Video Engine supports YCrCb (4:2:2, 4:1:0, 4:2:0) to RGB conversion Video scaling and up to 4x4 tap filtering supported for all YUV and RGB16/32 formats Per pixel quad buffering on all screen resolutions VESA compliant Stereoscopic Interface on MiniDin Connector
		Compliant with Microsoft/Intel PC2001 Workstation requirements Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications DDC2B+ Monitor support on all OS platforms ACPI Version 1.0b Power Management support (all modes)
	AGP1x/2x/4x/8x Version 3.0	
	compliant including:	AGP Texturing (Execute Mode) AGP Read and AGP Write Support 8X Fast write support
	FGL 9700 GPU featuring:	VGA controller supporting full standard feature set 2D Engine with 128-bit datapath processing multiple pixels per clock PIXEL TAPESTRY III, 3D rendering engine utilizing 2 parallel pipelines with two texture blending units each capable, of handling up to 8 texels in a single pass, delivering 2.4 Gigatexels/s fill rate CHARISMA ENGINE III, geometry unit utilizing 4 vertex processing engines, capable of executing two instructions per clock cycle each, thus yielding up to 200 million transformed, clipped and lit triangles per second. VIDEO IMMERSION III, industry leading video technology supporting MPEG 2 encode/decode Dual independent display controllers with 4K x 4K address space each 256-bit external frame buffer interface providing memory bandwidth of up to 20 GB per second
	Supported graphics APIs	OpenGL 1.3 ICD with immediate mode support for all OGL primitive types DirectX 8.1
	Available graphics drivers	HP-UX and Red Hat Linux Advanced Workstation 2.1 for Itanium. See http://www.hp.com/support/zx6000.



ATI FireGL X1-256p display,		CRT Display (Single or Dual)		
resolutions & refresh	Resolution	Maximum Refresh Rate	Bits per Pixel	
rates	640x480	100Hz	16, 24	
	800x600	100Hz	16, 24	
	1024x768	100Hz	16, 24	
	1152x864	100Hz	16, 24	
	1280x960	100Hz	16, 24	
	1280x1024	100Hz	16, 24	
	1600x1000	100Hz	16, 24	
	1600x1024	76Hz	16, 24	
	1600x1200	100Hz	16, 24	
	1792x1344	100Hz	16, 24	
	1920x1080	100Hz	16, 24	
	1920x1200	100Hz	16, 24	
	2048x1536	85Hz	16, 24	
	Digital Display (Single or Dual)			
	Single CRT Display Resolution	Maximum Refresh Rate	Bits per Pixel	
	640x480	75Hz	16, 24	
	800x600	75Hz	16, 24	
	1024x768	75Hz	16, 24	
	1280x1024	75Hz	16, 24	
	1600x1000	60Hz	16, 24	
	1600x1200	60Hz	16, 24	
	1920x1080	60Hz	16,24	
	1920x1200	60Hz	16, 24	



HP p1230 22-inch CRT	Tube Type	Diamondtron NF Aperture Grille) CRT	
Monitor	Picture Tube Size (diagonal)	22 in (55 cm)		
	Viewable Image Area (diagonal)	20 in (51 cm)		
	Aperture Grille Pitch	0.24 mm		
	Screen Curvature	Flat		
	Horizontal Frequency (kHz)	30 to 140 kHz		
	Vertical Frequency (Hz)	50 to 160 Hz		
	Maximum Resolution	2048 x 1536 @ 85 Hz (GTF)		
	Recommended Resolution	1600 x 1200 @ 85 Hz or 1280	x 1024 @ 85 Hz	
	Preset VESA Graphic	1920 x 1440 @ 60 Hz, 75 Hz		
	Modes (non-interlaced)	1792 x 1344 @ 60 Hz, 75 Hz		
		1600 x 1200 @ 75 Hz, 85 Hz		
		1280 x 1024 @ 60 Hz, 75 Hz,	85 Hz	
		1024 x 768 @ 75 Hz, 85 Hz		
		800 x 600 @ 75 Hz, 85 Hz		
		640 x 480 @ 60 Hz, 85 Hz		
	Preset MAC Mode	1152 x 870 @ 75 Hz		
	Preset VGA Mode	640 x 480 @ 60 Hz and 720 x	400 @ 70 Hz	
	Maximum Pixel Clock Speed	420 MHz		
	User Programmable Modes	15 (10 preset modes and 5 add	ditional modes)	
	Anti-Glare	Yes		
	Anti-Static	Yes		
	Asset Control	Yes		
	Default Color Temperature	9300 K		
	Buttons or Switches	OSD menu, brigthness, contra	st, Super Bright, dual input, power on/off	
	Languages	English, Spanish, French, Gern	nan, Italian, Japanese	
	User Controls	Brightness, contrast, pincushion, pincushion balance, trapezoid, tilt (rotation), cole temperature, degauss, parallelogram, individual color control, zoom, moiré cancellation, convergence, corner purity, image control, language, OSD control, factory reset		
	Plug and Play	Yes, DDC/CI compatible		
	Input Signal	Two 15-pin D-sub connections	5	
	Input Impedance	75 ohms		
	Sync Input	Separate sync (HSYNC/VSYN	C)	
	Video Cable	Detachable 15-pin D-sub mini	connector (included)	
	Video Cable Length	70 in (1.8 m); non-captive		
	Power Supply	Universal 100-120/220-240 VA	AC	
	Frequency	50/60 Hz		
	Maximum	135 watts		
	Power Saving	2 watts maximum		
	Off Mode	0 watts		
	Power Cable Length	70 in (1.8 m); non-captive		
	Dimensions (HxWxD)	Unpacked (including pedestal)	19.1 x 19.5 x 18.8 in (48.6 x 49.5 x 47.7 cm)	
		Packaged	25.6 x 25.0 x 25.4 in (65.1 x 63.6 x 64.6 cm)	



	Weight	Unpacked	66.1 lb (30 kg)	
	Weight	Packaged	77.1 lb (35 kg)	
	Tilt Range	10° upward and 5° downwa		
	Swivel Range	90°either side of center		
	Temperature – Operating	41° to 90° F (5° to 35° C) No	on-condensing	
	Temperature – Non-operating	-4° to 140° F (-20° to 60° C)		
	Humidity – Operating	10% to 90% non-condensin	g	
	Humidity – Non-operating	10% to 90%		
	Altitude – Operating	0 to 7,200 ft (0 to 2,195 m)		
	Altitude – Non-operating	0 to 30,000 ft (0 to 9,144 m)		
	Accessories Included	Power cable, video cable (D	-sub to D-sub), documentation kit	
	User Guide Languages	English, French, German, Spanish, Italian, Dutch, Brazilian Portuguese, Danish, Finnish, Greek, Japanese, Korean, Latin American Spanish, Norwegian, Polish, Russian, Slovenian, Turkish, Swedish, Traditional Chinese, Simplified Chinese		
	Warranty Languages	English, French, Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Japanese, Korean, T. Chinese, S. Chinese		
	Color	Carbon and silver		
	Certification and Compliance	MPR-II (Low Emissions), TCO '03, Energy Star Compliant, UL Listing, ISO9241-3 VOT Guidelines Approval, FCC Approval, CE Mark (including PFC), GS Mark		
	Compatibility	Compatible with platforms using the VESA standard video modes and HP Compaq Business Desktops d500, d300, and d200 Series, Compaq Evo Desktops, HP workstations, and HP Business Desktops d300 series.		
	Warranty	Next business day advance	d repair labor, service provider labor, and on-site service. d exchange direct replacement service available during strictions and exclusions apply.	
HP L1925 19-inch TFT Flat	Panel	Туре	Thin film transistor (TFT)	
Panel Monitor		Viewable Image Area (diagonal)	19 in (48.25 cm) maximum viewable	
		Screen Opening (WxH)	14.9 x 11.9 in (37.8 x 30.3 cm)	
		Viewing Angle (typical)	170 degrees horizontal/170 degrees vertical (10:1 minimum contrast ratio)	
		Brightness (typical)	Up to 250 nits (cd/m ²)	
		Contrast Ratio (typical)	Up to 500:1 (typical)	
		Response Rate (typical)	<20 ms (typical rise + fall)	
		Pixel Pitch	0.294 mm	
		Colour Depth Support	16.7 million colours	
	Video Input	Plug and Play	Yes (supports VESA DDC2B; PC2001 compliant)	
		Input Signal	Two connectors: one 15-pin mini D-sub analog VGA; and one DVI-I (VGA analog or digital)	
		Input Impedance	75 ohms ± 2%	
		Sync Input	Separate sync (HSYNC/VSYNC); composite sync, Sync on Green	
		Video Cable	VGA and DVI-D	
		Video Cable Length	78 in (2.0 m)	
	Signal Interface/	Horizontal Frequency	30 to 82 kHz	
	Performance	Vertical Frequency	56 to 75 Hz	



HP Workstation zx6000

QuickSpecs

	Graphics Controller	Pixelworks 131		
	Native Resolution	1280x1024@75Hz analog 1280x 1024@60Hz digital		
	Maximum Resolution (Analog)	1280x1024@75Hz analog		
	Maximum Resolution (Digital)	1280x1024@75Hz analog	I	
On Screen Display (OSD) Controls	Preset VESA Graphic Modes (non-interlaced)	640 x 480 @ 60 Hz, 72 Hz 800 x 600 @ 60 Hz, 72 Hz 1024 x 768 @ 60 Hz, 75 H 1280 x 1024 @ 60 Hz, 75	z, 75 Hz Iz	
	Preset MAC Mode	832 x 624 @ 75 Hz 1152 x 870 @75 Hz		
	Preset VGA Mode	640 x 480 @ 60 Hz, 72 Hz		
	Preset SUN Mode	1152x900@66Hz		
	Fail Safe Mode	Yes (limits out of range sig	gnal messages)	
	Maximum Pixel Clock Speed	140 MHz		
	User Programmable Modes	Yes, 10		
	Anti-Glare	Yes		
	Anti-Static	Yes		
	AssetControl	Yes (accessible on HP/Co Intelligent Manageability)	ompaq desktops featuring	
	Default Colour Temperature	Yes (6500k, 9300k, Custom User) Power on/off; 4-button OSD; second level OSD button include auto adjust and dual-input switch		
	Buttons or Switches			
	Languages	English, Spanish, French, German, Dutch, Italian		
	User Controls	Size and Positioning Contrast Brightness Clock, Clock Phase Selectable Colour Temper Input Selection Factory Reset Individual Colour Contrast Full-screen Resolution	ature	
Power	Power Supply	Auto-ranging, 90 to 265 V 47.5-63 Hz	AC; internal power supply,	
	Input Power	100 ~ 240 VAC		
	Nominal Current	1.5 A maximum		
	Frequency	50 ~ 60 Hz		
	Average	33 watts when displaying	standard office software	
	Maximum	< 40 watts		
	Power Saving	< 2 watts		
	Off Mode	< 1 watts (switch off)		
	Power Cable Length	70 in (1.8 m); non-captive		
Mechanical	Dimensions (H x W x D)	Unpacked w/ stand minimum height	14.8 x 16.4 x 8.2 in (39.8 x 41.6 x 20.8 cm)	
		Unpacked w/ stand maximum height	20 x 16.4 x 8.2 in (50.8 x 41.6 x 20.8 cm)	
		Base Area (Footprint d x w)	8.2 x 12.2 in (20.8 x 30.9 cm)	



		Panel only (w/o stand) (h x w x d)	13.5 x 16.4 x 2.6 in (34.2 x 41.6 x 6.6 cm)
		Packaged	26.0 x 26.0 x 26.0 in (66.0 x 66.0 x 66.0 cm)
	Weight	Unpacked w/ stand	17.6 lb (8 kg)
		Unpacked w/o stand	12 lb (5.5 kg)
		Packaged	23.5 l (10.7 kg)
	Tilt Range	-5° to +20°	
	Swivel Range	± 45° horizontal swivel	
	Height Adjustable	Yes (4.3 in/110 mm adjust	ment range)
	Pivot Rotation	Yes, 90 °	
	Base	Ships attached and is rem	ovable after installation
Environmental	Temperature – Operating	41° to 95° F (5° to 35° C)	
	Temperature – Non- operating	-4° to 140° F (-20° to 60° (C)
	Humidity – Operating	20% to 80%	
	Humidity – Non-operating	5% to 95%	
	Altitude – Operating	0 to 13,000 ft (0 to 4,000 r	n)
	Altitude – Non-operating	0 to 40,000 ft (0 to 12,192	m)
Options	PC Comm Station	Communication/audio hub speakers (8 PMPO each), function headset (phone a port. Optional, part numbe P8814A (EMEA).	integrated microphone/dual nd PC support), and USB
Other	Accessories Included	VGA cable, DVI-D cable, u software	user CD-ROM with Portrait
	User Guide Languages	English	
	Warranty Languages	English	
	Colour	Carbon/Silver	
	VESA Mounting	Yes (swing arm/ wall mou shipped attached and mus options)	nt not included; base is t be removed for mounting
	VESA External Mounting	Yes (Standard 4 hole patte	ern, 100 mm)
	Kensington Lock-ready	Yes	
Certification and Compliance	Australian ACA Approval, Can Approval, CISPR Requiremen FCC Approval, German Ergon Guidelines, ISO 13406-2 Com MIC Requirements (New Zeala Demko, Semko), PC2001 Con BSMI Approval, TCO 03 (emis VCCI Approvals.	ts, Eastern European Approvomic (TUV and GS Mark), IS pliant (Pixel Defect Guideline and), MPR-II Compliant, Norch pliant, PC99 Certified, S. Ko	vals, Energy Star Compliant, SO 9241-3,7,8 VDT es), Mexican NOM Approval, dic Approvals (Nemko, Fimko, rean MIC Approval, Taiwan
Compatibility	VESA Video Signal Standard proven compatible for use with been tested for use with all H	the HP Flat Panel Monitor I	
	NOTE: Features are subject to	o change without notice.	
Service and Warranty	Limited three-year parts and service. Next Business Day a during warranty period. Certa HP Customer Support at 970-	dvanced exchange direct re in restrictions and exclusion	eplacement service available as apply. For details, contact



Technical Specifications

HP L2035 20-inch TFT Flat Panel Panel Monitor

Panel	Туре	20-inch Active Matrix TFT (thin film transistor)
	Viewable Image Area (diagonal)	20.1 in (51 cm)
	Screen Opening (W x H)	16.2 x 12.17 in (41.1 x 30.9 cm)
	Viewing Angle (typical)*	Up to 170° H/170° V (10:1 minimum contrast ratio)
	Brightness (typical*	Up to 250 nits (cd/m ²)
	Contrast Ratio (typical)*	Up to 400:1
	Response Rate (typical)*	16 ms (typical, rise + fall)
	Pixel Pitch	0.255 mm
	Color Depth Support	16.7 million colors
	specifications represent the h	ed by the component manufacturers. Performance ighest specification of all HP's component pecifications for performance. Actual performance may
On Screen Display (OSD) Controls	Buttons or Switches	PiP (Picture in Picture), Input select, auto adjust, OSD up, OSD down, OSD menu select, power
	Languages	English, French, German, Spanish, Italian
	User Controls	Brightness, contrast, positioning, color temperature, individual color control, serial number display, full screen resolutions, clock, clock phase, video picture- in-picture (size and position), input selection (includes separate direct access key for dedicated swap between inputs 1 and 2), factory reset
Signal Interface/ Performance	Horizontal Frequency	30 to 94 kHz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz)
	Vertical Frequency	48 to 85 Hz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz)
	Graphics Controller	Pixelworks PW171
	Native Resolution	1600 x 1200 @ 60 Hz (recommended)
	Preset VESA Graphic	1600 x 1200 @ 60 Hz, 75 Hz (VGA input)
	Modes (non-interlaced)	1280 x 1024 @ 60 Hz, 75 Hz, 85 Hz
		1280 x 960 @ 60 Hz
		1152 x 900 @ 66 Hz
		1024 x 768 @ 60 Hz, 75 Hz, 85 Hz
		800 x 600 @ 60 Hz, 85 Hz
		640 x 480 @ 60 Hz, 75 Hz, 85 Hz
	Text Mode	720 x 400 @ 70 Hz
	Mac Mode	1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz
	Sun Mode	1152 x 900 @ 66 Hz
	Maximum Pixel Clock Speed	202 MHz (VGA input); 162 MHz (DVI input)
	User Programmable Modes	Yes, 10
	Anti-Glare	Yes
	Anti-Static	Yes
	Default Color Temperature	6500 K
Video Input	Plug and Play	Yes
	Input Signal	Four connectors, including one 15-pin mini D-sub VGA, one DVI-I (VGA analog and digital input), one composite video, and one s-video



Technical Specifications

HP Workstation zx6000

	Input Impedance	75 ohms ± 10%	
	Sync Input	Separate sync (HSYNC/VS Sync on Green	SYNC); composite sync,
	Video Cable	VGA to VGA; VGA to DVI-	I; DVI-D to DVI-I
	Video Cable Length	5.9 ft (1.8 m)	,
Power	Input Power	Auto-Ranging, 90 to 132 V internal power supply, 50 I	
	Frequency	47.5 to 63 Hz	
	Maximum	< 75 watts	
	Power Saving	< 5 watts	
	Power Cable Length	5.9 ft (1.8 m)	
Mechanical	Dimensions (H x W x D)	Unpacked w/stand	17.36 to 20.9 x 17.8 x 8.27 in (44.1 to 53.1 x 45.2 x 21.0 cm)
		Unpacked w/o stand (head only)	,
		Packaged	11.5 x 21.9 x 23.9 in (29.2 x 55.6 x 60.6 cm)
	Weight	Unpacked	With stand: 20.28 lb (9.2 kg); Without stand: 12.35 lb (5.6 kg)
		Packaged	26.9 lb (12.2 kg)
	Tilt Range	-5° to + 25° vertical	
	Swivel Range	-35° to + 35°	
	Height Adjustable	Yes, range 3.54 in (9.0 cm	ı)
	Pivot Rotation	Yes	
	Base	Attached	
Environmental	Temperature – Operating	46° to 95° F (10° to 35° C)	
	Temperature – Non- operating	6° to 140° F (-10° to 60° C)
	Humidity – Operating	20% to 80% non-condension	ing
	Humidity – Non-operating	5% to 85%	
	Altitude – Operating	+12,000 ft	
	Altitude – Non-operating	+40,000 ft	
Options	HP Desktop Access Center	for adding an optical drive USB ports for easy integra	hone/headset jacks, dual /PC support, a MultiBay slot (sold separately), and four ttion of third-party digital 285A. For more information,
Other	Accessories Included	analog connector to the m analog) connector VGA to DVI-I cable – conr connector to the monitor's connector	nects the graphic card's VGA input #2 (DVI-I analog) nects the graphic card's DVI
	User Guide Languages	English, B. Portuguese, Fr S. Chinese, T. Chinese, Ba	ench, LA Spanish, Korean, ahasa, Japanese, Danish,



			Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish	
		Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese	
		Color	Carbonite/Silver	
		VESA External Mounting	Yes (Standard 4 hole pattern, 100 mm)	
		Kensington Lock-Ready	Yes	
	Certification and Compliance	Approval, CISPR Requiremen FCC Approval, German Ergor Guidelines, ISO 13406-2 Pixe Requirements (New Zealand) Demko, Semko), PC2001 Cor	hadian Requirements/CSA, CE Marking, China CCIB/CCEE hts, Eastern European Approvals, Energy Star Compliant, homic (TUV and GS Mark), ISO 9241-3,7,8 VDT el Defect Guidelines, Mexican NOM Approval, MIC , MPR-II Compliant, Nordic Approvals (Nemko, Fimko, mpliant, PC99 Certified, S. Korean MIC Approval, Taiwan ssions, ergonomics, environment), TUV-Ergo, UL Listed,	
	Compatibility	Compatible with platforms using the VESA standard video modes and all HP workstations. Limited three years parts, labor, and on-site service, including backlight. Availability varies by region. Certain restrictions and exclusions apply. Consult HP Customer Service for details.		
	Service and Warranty			
HP L2335 23-inch TFT	Panel	Туре	23-inch Active Matrix TFT (thin film transistor)	
Widescreen Flat Panel Display		Viewable Image Area (diagonal)	23 in (58.4 cm)	
		Screen Opening (W x H)	19.53 x 12.24 in (49.6 x 31.1 cm)	
		Viewing Angle (typical)*	Up to 170° H/170° V (10:1 minimum contrast ratio)	
		Brightness (typical)*	Up to 250 nits (cd/m ²)	
		Contrast Ratio (typical)*	Up to 350:1	
		Response Rate (typical)*	25 ms (typical, rise + fall)	
		Pixel Pitch	0.258 mm	
		Colour Depth Support	16.7 million colours	
		* All specifications are provided by the component manufacturers. Performance specifications represent the highest specification of all HP's component manufacturers' typical level specifications for performance. Actual performance may vary either higher or lower.		
	On Screen Display (OSD) Controls	Buttons or Switches	PiP (Picture in Picture), Input Select, Auto Adjust, OSD Up, OSD Down, OSD Menu Select, Power	
		Languages	English, French, German, Spanish, Italian	
		User Controls	Brightness, contrast, positioning, colour temperature, individual colour control, serial number display, full screen resolutions, clock, clock phase, video picture- in-picture (size and position), input selection (includes separate direct access key for dedicated swap between inputs 1 and 2), factory reset	
	Signal Interface/ Performance	Horizontal Frequency	30 to 94 kHz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz)	
		Vertical Frequency	48 to 85 Hz (VGA and DVI input)	
		Graphics Controller	Pixelworks PW172	
		Native Resolution	1920 x 1200 @ 60 Hz (recommended)	
		Preset VESA Graphic Modes (non-interlaced)	1920 x 1200 @ 60Hz	
			1600 x 1200 @ 60 Hz, 75 Hz	



		1280 x 1024 @ 60 Hz, 75	Hz, 85 Hz	
		1280 x 960 @ 60 Hz		
		1152 x 900 @ 66 Hz		
		1024 x 768 @ 60 Hz, 75 H	IZ, 85 HZ	
		800 x 600 @ 60 Hz, 75Hz		
	Total Maria	640 x 480 @ 60 Hz, 75 Hz		
	Text Mode	720 x 400 @ 70 Hz		
	Mac Mode	1152 x 870 @ 75 Hz and 8	332 X 624 @ 75 HZ	
	Sun Mode Maximum Pixel Clock	1152 x 900 @ 66 Hz		
	Speed	202 MHz (VGA input); 162	MHZ (DVT Input)	
	User Programmable Modes	Yes, 10		
	Anti-Glare	Yes		
	Anti-Static	Yes		
	Default Colour Temperature	6500 K		
Video Input	Plug and Play	Yes		
	Input Signal	Five connectors, including one DVI-I (VGA analog and composite video, one s-vio		
	Input Impedance	75 ohms ± 10%		
	Sync Input	Separate sync (HSYNC/V Sync on Green	SYNC); composite sync,	
	Video Cable	VGA to VGA; VGA to DVI-	I; DVI-D to DVI-I	
	Video Cable Length	5.9 ft (1.8 m)		
Power	Input Power	Auto-Ranging, 90 to 132 V internal power supply, 50	ging, 90 to 132 VAC and 195 to 265 VAC; ower supply, 50 Hz/60 Hz	
	Frequency	47.5 to 63 Hz		
	Maximum	< 100 watts		
	Power Saving	< 5 watts		
	Power Cable Length	5.9 ft (1.8 m)		
Mechanical	Dimensions (H x W x D)	Unpacked	17.36 to 20.90 x 21.46 x 8.27 in (44.1 to 53.1 x 54.5 x 21.0 cm)	
		Unpacked w/o stand (head only)	14.57 x 21.46 x 3.35 in (37.0 x 54.5 x 8.5 cm)	
	Weight	Unpacked	22.27 lb (10.1 kg)	
		Packaged	30.87 lb (14.0 kg)	
	Tilt Range	-5° to + 25° vertical		
	Swivel Range	-35° to + 35°		
	Height Adjustable	Yes, range 3.54 in (9.0 cm	n)	
	Pivot Rotation	Yes		
	Base	Attached		
Environmental	Temperature – Operating	46° to 95° F (10° to 35° C)		
	Temperature – Non-operating	6° to 140° F (-10° to 60° C	;)	
	Humidity – Operating	20% to 80% non-condensing		
	Humidity –	5% to 85%		



Technical Specifications

	Non-operating		
	Altitude – Operating	+12,000 ft	
	Altitude – Non-operating	+40,000 ft	
Options	HP Desktop Access Centre	Sold separately, the HP Desktop Access Centre Features integrated microphone/headset jacks, dual function headset for phone/PC support, a MultiBay slot for adding an optical drive (sold separately), and four USB ports for easy integration of third-party digital solutions; part number DK985A. For more information, refer to the HP Desktop Access Centre QuickSpecs.	
Other	Accessories Included	VGA to VGA cable – connects the graphic card's VGA analog connector to the monitor's input #1 (VGA analog) connector VGA to DVI-I cable – connects the graphic card's VGA connector to the monitor's input #2 (DVI-I analog) connector DVI-D to DVI-I cable – connects the graphic card's DVI- D digital connector to the monitor's input #2 (DVI-I digital) connector	
	User Guide Languages	English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish	
	Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese	
	Colour	Carbonite/silver	
	VESA External Mounting	Yes (Standard 4 hole pattern, 100 mm)	
	Kensington Lock-Ready	Yes	
Certification and Compliance	Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, Energy Star Compliant, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 9241-3,7,8 VDT Guidelines, ISO 13406-2 Pixel Defect Guidelines, Mexican NOM Approval, MIC Requirements (New Zealand), MPR-II Compliant, Nordic Approvals (Nemko, Fimko, Demko, Semko), PC2001 Compliant, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals.		
Compatibility	Compatible with platforms using the VESA standard video modes and all HP workstations.		
Service and Warranty	Limited three years parts, labour, and on-site service, including backlight. Availability varies by region. Certain restrictions and exclusions apply. Consult HP Customer Service for details.		

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