hp xl-class workstation

data sheet

a scalable, affordable Linux solution with the quality of HP

The HP xl-class workstation for Linux is designed for the power user who performs simulations, formal verification, and other high-end visualization tasks. Single or dual 1GHz Intel® Pentium® III processors drive this powerful workstation. Enabled by the revolutionary HP memory architecture, the HP xl-class workstation outperforms similar competing platforms by up to 20%. HP bundles the HP xl-class Linux workstations with the preloaded Red Hat® Linux 6.2 operating system for a reliable, cost-effective Linux solution.

The power of an HP workstation, combined with the flexibility and stability of UNIX®·, makes for one incredible solution to your toughest high-end visualization tasks.

hp xl-class workstation	feature	benefit	advantage
	single or dual Intel Pentium III 1GHz Processor(s)	advanced transfer cache boosts power and efficiency behind demanding applications	provides superior computing performance with Intel's latest on-die 256K level 2 cache
	hp memory architecture	provides up to 20% performance gain over RDRAM® based systems	utilizes affordable 133MHz SDRAM for more cost-effective large memory implementations
	mass storage expandability: up to 72GB internal disk	provides hard disk space and performance needed to work on large models and multiple designs	Ultra Wide SCSI 3's high data throughput and up to 72GB of storage mean greater productivity
	Red Hat Linux 6.2	preloaded Red Hat Linux 6.2 assures easy startup	enjoy all the benefits of this widely implemented open source operating system
	hp technical support	expert assistance for your Linux needs from one accessible, convenient source	hp bundles full support and also offers extended technical support packages
	up to 4GB capacity SDRAM	larger capacity for more demanding applications and complex designs	high memory capacity at low density memory prices
	hp instant network connection tool	simple, intuitive site-specific networking configuration allows users of all skill levels to connect to their networks	decreases administration overhead for deploying workstation systems
	hp maxilife II	integrated with hp toptools for remote administration and monitoring	increases reliability and provides hardware self-diagnosis
leadership graphics	hp leadership graphics program	a wider range of graphics choices for applications that are fully supported on the platform	fast access to the industry's best graphics at varying performance & price points backed by more than 20 years of HP graphics expertise; for more information about the HP leadership graphics program: www.hp.com/workstations/programs/leadership_graphics/index.html
extreme 3D	hp fx^{10}	provides superior application performance for the largest, most complex visualization tasks	hp fx^{10} delivers fast graphics performance with 6 PA-RISC geometry engines
high-end 3D	hp fx^5	excellent application performance for large models and complex visualization tasks	hp fx^5 delivers fast graphics performance with 3 PA-RISC geometry engines
entry 3D	ELSA® Synergy II	delivers excellent 2D and 3D graphics performance at an entry price point	provides excellent application performance for small visualization tasks

hp xl-class technical specifications

central processor
type	Pentium III
clock frequency	1GHz
number of processors	1-2

cache (on-chip)   256K L2

main memory
bus bandwidth	2.0GB/sec
RAM type	SDRAM PC 133
capacity	4GB
memory slots	8 DIMMs

operating system   Red Hat Linux 6.2 (hp-supported)

internal storage devices
up to 2 devices, 72GB maximum:
Ultra 3/160 SCSI	9GB (10K rpm)
	18GB (10K rpm)
	36GB (10K rpm)

PCI slots (4 available)
PCI 1X	3 - 32b 33MHz 5V
PCI 4X	2 - 64b 66MHz 3.3V

SCSI device connectivity
the integrated Ultra 160/m SCSI cards has 4 connectors and uses 1 PCI slot:
connector 1	68-pin external connector for LVD SCSI devices
connector 2	68-pin internal connector for LVD SCSI devices
connector 3	68-pin internal connector for wide SE SCSI devices
connector 4	50-pin internal connector for narrow SE SCSI devices

removable media
floppy drive:	integrated 3.5" floppy drive
cd drive(s)	
(up to 2 CD devices):	48X CD-ROM

networking   RJ45
LAN data rate   10/100Mbps

other I/O
serial interface 9-pin DIN	2 ports
parallel interface 25-pin DIN	1 port

audio
type	18-bit stereo full-duplex

monitors   18.1" Flat Panel LCD
19" Flat Screen
21" Flat Screen

Invent the future with HP workstations.

For the latest information about HP workstations, including Windows, Linux® and UNIX systems:
http://www.hp.com/workstations

environmental specifications
altitude
operating	3100m (10000 ft) max
storage	3100m (10000 ft) max

temperature
operating	+5°C to +35°C (+41°F to +95°F)
non-operating	+5°C to +35°C (+41°F to +95°F)

humidity
operating	15% to 80% (relative)

physical dimensions
height	48.30cm (19.02 in)
width	20.87cm (8.22 in)
depth	47.30cm (18.62 in)

net weight
minimum configuration	15.93 kilograms (35.11 lbs)

power requirements
input current	9.0 A @ 100-127Vac 4.5 CR/Lf A @ 200-250Vac
line frequency	50Hz to 60Hz
maximum power input	100-127 or 200-250Vac

professional 3D graphics
extreme 3D	
hp fx^{10}	6 PA-RISC geometry engines 64MB unified graphics memory
high-end 3D	
hp fx^5	3 PA-RISC geometry engines 64MB unified graphics memory
entry 3D	
ELSA Synergy II	OpenGL hardware acceleration 32MB combined frame buffer and texture storage· hardware triangle setup

For more information about the HP leadership graphics program and a complete listing of all graphics cards available for the HP x-class workstation:
www.hp.com/workstations/programs/leadership_graphics/index.html