hp workstation xw8000

more muscle, greater expandability, hp dependability

The HP workstation xw8000 incorporates technologies that take Intel® architecture workstation performance to new levels. Configurable to meet your present and future needs, the HP xw8000 offers optional dual processing, the new Intel E7505 chipset and the latest I/O technologies along with a host of scalability, manageability and reliability features.

Choose from a broad range of ISV-certified 3D and 2D graphics solutions along with the operating system that best fits your requirements. The HP xw8000 is a workstation capable of delivering the speed, power and performance required to solve large design and analysis problems in real time.

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features	benefits
One or two Intel® Xeon™ processors, plus Intel NetBurst micro-architecture	Crank through massive amounts of real-time data with increased processing power and efficiency; ideal for the most demanding engineering and design applications
Intel E7505 chipset featuring 533-MHz front-side bus; AGP 8X graphics; dual-channel double data rate (DDR) SDRAM; and USB 2.0	Process more information at higher speeds and increase your performance
Up to 12-GB PC2100 ECC registered DDR-266 memory with 4.2-GB/s bandwidth	State-of-the-art memory performance enhances your options and facilitates more demanding applications and complex designs
Highest-performance disk subsystem built in; up to 730-GB of Ultra320 SCSI disk space (optional)	Store complex analyses or vast animation sequences and enjoy quick, reliable recall with unimpeded flow of information
Gigabit Ethernet	Work more efficiently with cutting-edge, uninterrupted and reliable data communications
Top independent software vendor (ISV) collaboration, performance tuning and hardware platform certification	Benefit from software and hardware that guarantees compatibility, reliability and the best performance possible
HP leadership graphics programme	A wider range of graphics choices, plus faster access to the best graphics in the industry at varying performance and price points
Choice of operating systems: Microsoft® Windows® 2000 Professional; Windows XP Professional; or Red Hat Linux (available early 2003)	Choose the operating system that's right for you – preinstalled, preconfigured and fully supported
Supports expansion for up to 5 internal HDDs, 2 optical disks and 5 PCI slots	The hard disk space and performance you need to work with uncompressed digital video, large models and multiple designs

hp workstation xw8000 technical specifications

processor	
type	Intel Xeon processor
clock frequency	2.4, 2.66, 2.8, 3.06 GHz
number of processors	1 or 2
chipset	Intel E7505
system bus	533 MHz

cache (on-chip)	
L2	512 KB

main memory	
bus bandwidth	4.2 GB/s
RAM type	PC2100 ECC registered DDR-266
capacity	12 GB
memory slots	6 DIMMs (3 pairs, dual-channel)

supported operating systems	
Microsoft® Windows® 2000	
Professional	preinstalled
Windows XP Professional	preinstalled
Red Hat Linux	preinstalled*
*some localisations available	

storage bays (8 bays total)	
	5 internal 3.5-inch
	2 external 5.25-inch
	1 external 3.5-inch

internal storage devices (5 storage bays)	
integrated Ultra ATA/100 EIDE controller	
Ultra ATA/100 EIDE hard drives	40 GB (7200 rpm)
(up to 2 devices,	80 GB (7200 rpm)
240-GB maximum)	120 GB (7200 rpm)
Ultra320 SCSI hard drives	18 GB (15K rpm)
(up to 5 devices,	36 GB (10K or 15K rpm)
730-GB maximum)	73 GB (10K or 15K rpm)
	146 GB (10K rpm)

SCSI device connectivity	
integrated Ultra320 SCSI has 5 connectors	
connector 1	68-pin connector for 5 internal SCSI devices
connector 2	(optional) 68-pin connector for external SCSI devices

removable media	
floppy drive	integrated 3.5-inch floppy drive
optical drive(s) (up to 2 devices)	48X CD-ROM
	16X DVD
	48X CD-RW
	32X DVD/CD-RW Combo
	4.7 GB DVD+RW

expansion slots	
PCI-X	1 slot (64-bit/133-MHz)
	2 slots (64-bit/100-MHz)
PCI	2 slots (32-bit/33-MHz)
AGP 8X Pro 50	1 slot

integrated networking connector	RJ-45
LAN data rate	10/100/1000 Mb/s

integrated I/O	
serial interface 9-pin DIN	1 port (rear)
parallel interface 25-pin DIN	1 port (rear)
USB 2.0	6 ports (4 rear, 2 front)
IEEE OHCI 1394	2 ports (1 rear, 1 front)

audio	AC97/16-bit stereo full duplex

environmental specifications	
altitude	
- operating	3048 m (10,000 ft) max
- storage	4572 m (15,000 ft) max
temperature	
- operating	+10° to +35°C (+50° to +95°F)
- non-operating	-40° to +70°C (-40° to +158°F)
humidity	
- operating	15% to 80% relative @ 35°C (95°F)

physical dimensions	
height	44.9 cm (17.7 inches)
width	21 cm (8.3 inches)
depth	51.5 cm (20.3 inches)

net weight	
minimum configuration	18 kg (39.7 lb)

power supply	
power supply output	450 W

power requirements	
input current	5.0 A @ 100 V
line frequency	50 Hz to 60 Hz
maximum power input	692 W

monitors	
hp L1825	18-inch flat-panel display
hp L2025	20-inch flat-panel display
hp p930	19-inch flat-screen CRT
hp p1130	21-inch flat-screen CRT

leadership graphics – professional 2D	
NVIDIA Quadro4 200 NVS	dual display; 64-MB graphics memory

leadership graphics – quad display 2D	
NVIDIA Quadro4 400 NVS	4 displays; 64-MB graphics memory

leadership graphics – entry 3D	
NVIDIA Quadro2 EX	single display; 32-MB graphics memory
NVIDIA Quadro4 380 XGL	dual display; 64-MB graphics memory; AGP 8X

leadership graphics – midrange 3D	
ATI FIRE GL 8800	dual display; 128-MB graphics memory
NVIDIA Quadro4 750 XGL	dual display; 128-MB graphics memory
NVIDIA Quadro4 980 XGL	dual display; 128-MB graphics memory; AGP 8X

leadership graphics – high-end 3D	
NVIDIA Quadro4 900 XGL	dual display; 128-MB graphics memory
3Dlabs Wildcat III 6110	dual display; 192-MB graphics memory
ATI FIRE GL X1	dual display; 256-MB graphics memory; AGP 8X

For more information about HP leadership graphics programs:
www.hp.com/go/leadershipgraphics

HP PCs use genuine Windows® operating systems
www.microsoft.com/piracy/howtotell