



an hp workstation solution for a PC price

You don't need to compromise performance for the sake of economy. The new HP workstation x1000 delivers platform stability and manageability, professional 2D and 3D graphics options, and is backed by the technical expertise and support you demand from an industry leader in workstation technology. Designed for engineers, artists, and Digital Content Creation producers as well as the PC user requiring additional performance or graphics options, the HP workstation x1000 delivers the latest Intel®-based technology at an attractive price.

There is a HP workstation to fill your every technical need. The HP workstation x1000...helping you to invent the future and transform your business.

hp workstation x1000	features	benefits	advantages
	true workstation features at a great price	workstation features for the price of a PC	best value in a minitower workstation
	Intel 845 chipset	the latest Intel technology combines Pentium® power with a cost-efficient memory configuration	hp delivers a unique, Intel 845 chipset workstation price vs. performance solution
	optional DVD+RW/CD-RW combination drive	combination drive allows a single drive to efficiently handle all CD-ROM, DVD, CD-RW and DVD+RW needs; enables distribution of high quality, professional projects	provides immense 4.7GB data storage, backup and transfer; ability to create interactive media compatible with home DVD players
	single Intel Pentium 4 1.7, 1.9 or 2.0GHz processors	next generation processor with Intel NetBurst™ micro-architecture and Hyper Pipelined Technology puts increased power and efficiency behind demanding applications	higher frequencies and improved processor design deliver increased floating point performance and compute power providing the appropriate solution for each hp workstation customer
	build-to-order*	configuration options allow you to add-in hardware or graphics options	can be tailored to the varying needs of workstation users
	mass storage expandability: up to 146GB SCSI (optional)	delivers hard disk space and performance needed to work with uncompressed digital video, large models and multiple designs	ultra wide SCSI 3 throughput along with up to 146GB of storage means greater productivity
	ISV qualification	relationships with top ISVs enable close collaboration, performance tuning and hardware platform certification	software and hardware are tuned to provide guaranteed compatibility, reliability and the best performance possible
	IEEE 1394 OHCI card; front bezel access port available	optional factory-integrated solution for digital video connectivity	front bezel connector for easy, convenient, and fast connection to digital video devices
	hp toptools	provides industry leading remote and local net-based management and diagnostics	fully functional central console administration free from hp; exceeds capability of DMI

* available November, 2001

hp workstation x1000	features	benefits	advantages
leadership graphics	hp leadership graphics program	a wider range of graphics choices for applications that are fully supported on the platform	faster access to the best graphics in the industry at varying performance and price points; backed by more than 20 years of hp graphics expertise
mid-range 3D	NVIDIA® Quadro2 Pro™	second generation NVIDIA geometry engine with 200MHz DDR memory; delivers excellent 2D and 3D graphics performance at a mid-range price point	provides excellent application performance and allows for interactive display of medium-sized to large-sized models
entry 3D	NVIDIA Quadro2 MXR™	dedicated hardware geometry engine and dual-display capability from a single card; delivers excellent 2D and 3D graphics performance at an entry price point	provides increased performance, greater visual realism, and allows users to add a digital display in addition to an analog display to double their display area
professional 2D graphics	Matrox® Millennium G450	delivers excellent 2D and dual-display graphics performance at an entry price point; 3D graphics are also supported	provides excellent application performance for dual-display applications using a second monitor

technical specifications

central processor	type	Intel Pentium 4 processor
	clock frequency	1.7, 1.9 or 2.0GHz
	number of processors	1

cache (on-chip)	L1: 16KB code, 16KB data L2: 256KB
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performance	hp workstation performance results can be found at: http://www.hp.com/workstations/products/winnt/performance.html
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main memory	bus bandwidth	1.064GB/sec
	RAM type	PC133 ECC SDRAM
	capacity	768MB
	memory slots	3 DIMMs (single channel)

operating system	Windows 2000 Professional	standard
	Windows NT Workstation 4.0	via recovery CD
	Red Hat® Linux 7.1*	

HP supports the latest Windows NT and Windows 2000 Professional service packs.

*Available November, 2001

internal storage devices (2 storage bays)	integrated controller	
	choice of IDE or Ultra 160 SCSI hard drives	
	IDE hard drives	20GB (7200 rpm)
	up to 2 devices, 80GB maximum	40GB (7200 rpm)
		80GB (7200 rpm)
	Ultra 160 SCSI hard drives	18GB (10K rpm)*
up to 2 devices, 73GB maximum:	36GB (10K rpm)*	
	73GB (10K rpm)*	

*requires optional PCI SCSI controller card

technical specifications (continued)

expansion slots	PCI 1X (full size - 3 slots available) AGP 4X	PCI 2.2 32b/33MHz 1 slot available
SCSI device connectivity	optional Ultra 160/m SCSI card has 4 connectors and uses 1 PCI slot:	
	connector 1, 2 and 3 connector 4	68-pin external connector for LVD SCSI devices 50-pin internal connector for narrow SE SCSI devices
removable media	floppy drive CD drive(s) / up to 2 CD devices	integrated 3.5-inch floppy drive 48X CD-ROM 16X DVD, 16X/10X/40X CD-RW, DVD+RW/CD-RW combination drive
networking (uses 1 PCI slot)	RJ45 LAN data rate	yes 10/100Mb/sec
built-in I/O	serial interface 9-pin DIN parallel interface 25-pin DIN USB IEEE 1394 OHCI (optional)	2 ports 1 port 4 ports (2 rear, 2 front) 3 ports (2 rear, 1 front)
power	power supply output	250W
audio	type	20-bit stereo full-duplex
monitors	18-inch flat panel LCD 19-inch flat screen 21-inch flat screen 24-inch flat screen	
environmental specifications		
altitude	operating storage	3048m (10,000 ft.) max 4600m (15,000 ft.) max
temperature	operating non-operating	+10°C to +35°C (+50°F to +95°F) -40°C to +70°C (-40°F to +158°F)
humidity	operating	15% to 80% (relative)
physical dimensions	height width depth	47.5cm (18.7-inches) 20.6cm (8.1-inches) 44.2cm (17.4-inches)
net weight	minimum configuration	14.3kg (31.5 lbs)
power requirements	input current line frequency maximum power input	100-127V 7.0A 200-240V 3.5A 50-60Hz 385W
professional 3D graphics		
mid-range 3D	NVIDIA Quadro2 Pro	single, integrated geometry engine 64MB unified DDR graphics memory
entry3D	NVIDIA Quadro2 MXR	single, integrated geometry engine 32MB unified SDR graphics memory
professional 2D graphics		
Matrox Millennium G450	16MB DDR graphics memory	
For more information about the HP leadership graphics program: www.hp.com/workstations/programs/leadership_graphics/index.html		
input devices	keyboard mouse options	multimedia keyboard (PS/2) hp 3-button mouse (PS/2) hp scroll mouse (PS2)

For more information, call your local Hewlett-Packard sales office or your nearest HP authorised dealer:

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Invent the future and transform your business with the HP workstation x1000.

The latest information about HP workstations, including Windows, Linux and UNIX systems, is available at: www.hp.com/workstations

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

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