



new name--same award winning performance

HP's award winning kayak workstation line continues under a new name--the HP workstation x2000. Featuring the advanced architecture of Intel's® new Pentium® 4 processor, this Windows 2000 Professional® workstation allows you to configure the system that best meets your workstation needs. Combining a broad range of ISV certified professional 2D and 3D graphics solutions with the expandability, manageability and reliability of HP workstations, the HP x2000 is the clear choice for expert financial, technical and creative professionals with memory-intensive, speed-demanding applications.

hp workstation x2000	feature	benefit	advantage
	build-to-order	configuration options allow you to add-in hardware or graphics options	can be tailored to the varying needs of hp workstation customers
	single Intel Pentium 4 1.5, 1.7, or 2GHz processor	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 provide increased floating point performance and compute power
	Intel 850 chipset with 400MHz system bus	three times the bandwidth of the Intel Pentium III system bus	allows use of the entire memory subsystem bandwidth for greater system responsiveness and user interaction
	mass storage expandability: up to 72GB internal disk	Ultra Wide SCSI 3's high data throughput and up to 73GB of storage mean greater productivity	provides hard disk space and performance needed to work on large models and multiple designs
	up to 2GB capacity RDRAM®	large memory capacity for more demanding applications and complex designs.	applications and workloads demanding large memory get a boost in performance due to increased bandwidth and balanced system architecture from Intel
	hp toptools/hp maxilife II	provides unique remote and local net-based management and diagnostics; remote administration and monitoring	allows advanced administration and management of system components and settings; 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	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
extreme 3D	ATI™ Fire GL™4	highly tuned, full-featured graphics engines; 128MB of memory	provides the industry's fastest 3D performance with dual display; ideal for use with the largest models
high-end 3D	ATI Fire GL 2	full featured industry leading geometry and rendering engines	provides the ability to create complex and visually realistic objects at interactive speeds
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
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

hp workstation x2000 technical specifications

central processor

type	Intel Pentium 4
clock frequency	1.5, 1.7, or 2GHz
number of processors	1

cache (on-chip)

L1: 16KB code, 16KB data
L2: 256KB

performance

hp workstation performance results can be found at:
<http://www.hp.com/workstations/products/winnt/performance.html>

main memory

bus bandwidth	3.2GB/sec
RAM type	PC800 RAMBUS® (ECC)
capacity	2GB
memory slots	4 RIMMs (2 pairs, dual channel)

operating system

Windows 2000 Professional	standard
Windows NT Workstation 4.0	w/recovery cd

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

internal storage devices (2 storage bays)

integrated PCI Bus master Ultra ATA/100 MB/s controller
choice of Ultra ATA/100 IDE or Ultra 160 SCSI hard drives

Ultra ATA/100 IDE hard drives	20GB (7200 rpm)
up to 2 devices, 80GB maximum	40GB (7200 rpm)

Ultra 160 SCSI hard drives	
with PCI adapter	18GB (10K rpm)
up to 2 devices, 72GB maximum:	36GB (10K rpm)

expansion slots

PCI 1X (full size - 4 slots available)	PCI 2.2 32b 33MHz
AGP 4X	

SCSI device connectivity

The (optional) integrated Ultra 160/m SCSI card 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 LVD 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 12X DVD, 12X/8X/32X CD-RW

networking (uses 1 PCI slot)

RJ45	yes
LAN data rate	10/100Mbps

built-in I/O

serial interface 9-pin DIN	2 ports
parallel interface 25-pin DIN	1 port
USB (Universal Serial Bus) Series A	2 ports

power

power supply output	320W
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audio

type	20-bit stereo full-duplex
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monitors

18" flat panel LCD
19" flat screen
21" flat screen
24" flat screen

environmental specifications

altitude	
operating	3100m (10000 ft.) max
storage	4600m (15000 ft.) max
temperature	
operating	+10°C to +35°C (+50°F to +95°F)
non-operating	-40°C to +70°C (-40°F to +158°F)
humidity	
operating	15% to 80% (relative)

physical dimensions

height	49cm (19.30 in)
width	21cm (8.26 in)
depth	47cm (18.50 in)

net weight

minimum configuration	14 kilograms (31.7lbs)
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power requirements

input current	5.5 A @ 100-127V Vac
line frequency	50Hz to 60Hz
maximum power input	492W

professional 3D graphics

extreme 3D

ATI Fire GL4	IBM® raster and geometry engines 128MB unified graphics memory
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high-end 3D

ATI Fire GL2	IBM GT1000 geometry engine 64MB unified graphics memory
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mid-range 3D

NVIDIA Quadro2 Pro	Single, integrated geometry engine 64MB unified DDR graphics memory
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entry3D

NVIDIA Quadro2 MXR	Single, integrated geometry engine 32MB unified SDR graphics memory
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professional 2D graphics

Matrox Millennium G450	16MB DDR graphics memory
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www.hp.com/workstations/programs/leadership_graphics/index.html

keyboard

PS/2 keyboard with Windows StartKey (104-105 keys)
plugs to connect headset and microphone directly to keyboard
additional configurable hot keys

mouse

PS/2 3-button mouse (no scroll)
or
PS/2 scroll mouse

Cover screen image courtesy of Alias|Wavefront
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HP PCs use genuine Windows®
Operating Systems
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