hp workstation performance at a PC price

The HP Workstation x1100 combines the latest Intel® Pentium® 4 technology with the expandability and leading graphics expertise that only HP can offer. Incorporating the latest version of Intel's 845 chipset which enables the use of DDR (Double Data Rate) memory, the HP x1100 delivers performance comparable to higher cost RDRAM systems. So now, you don't have to compromise performance for the sake of economy.

Providing both the memory capacity and OpenGL graphics support needed to perform digital video/non-linear editing (DV/NLE), 2D animation, imaging and some 3D animation, the HP Workstation x1100 can also be used for entry and mid-range mechanical computer aided design (MCAD) tasks. Collaboration with key digital content creation (DCC) and MCAD software and hardware application providers ensures optimum performance, compatibility and reliability. For the PC user who needs the power to work unconstrained in today's competitive world, the HP Workstation x1100 is the answer.

hp workstation x1100	feature	benefit	advantage
	true workstation features at a great price	workstation features for the price of a PC; enables the use of DDR 266 memory with the Pentium 4 processor	best value in a minitower workstation; RDRAM comparable performance at a great price
	optional DVD+RW/+R/CD-RW combination drive	combination drive allows a single drive to efficiently handle all CD-ROM, DVD, CD-RW and DVD+RW/+R 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 1.9 or 2.0, 2.2 or 2.4GHz processors	next generation processor with Intel NetBurst™ micro-architecture and Hyper Pipelined Technology puts increased power and efficiency behind demanding applications; latest processors with double cache (512kB)	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 160GB IDE or 146GB SCSI (optional)	delivers hard disk space and performance needed to work with uncompressed digital video, large models and multiple designs	ultra wide SCSI 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
	optional digital video production bundle	complete digital video production solution...from capture to publish	capture, edit and publish your digital video to CD, DVD, VHS, and the web; a $1794 value for $299
	IEEE1394 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
	ultraflow heat management	turbo cooling accommodates heat produced by Pentium 4, 3D graphics and SCSI disks; eliminates need for ducting	ducts are not in the way facilitating chassis accessibility
	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

hp workstation x1100 technical specifications

central processor
type	Intel Pentium 4 processor
clock frequency	1.9, 2.0, 2.2 or 2.4GHz
number of processors	1

cache (on-chip)
	L1: 12KB instruction code, 8KB data
	L2: 256KB (1.7 or 1.9GHz)
	L2: 512KB (2GHz or higher)

main memory
bus bandwidth	2.1GB/sec
RAM type	PC2100 ECC DDR 266
capacity	1GB
	2GB (supported Summer, 2002)
memory slots	2 DIMMs (single channel)

operating system options
Windows 2000 Professional
Windows XP
Red Hat® Linux 7.1

HP supports the latest Windows 2000 Professional service pack.

internal storage devices (2 storage bays)
integrated IDE controller
choice of IDE or Ultra 160 SCSI hard drives

IDE hard drives	20GB (7200 RPM)
up to 2 devices, 160GB maximum	40GB (7200 RPM)
	80GB (7200 RPM)
Ultra 160 SCSI hard drives	18GB (10K RPM)*
up to 2 devices, 146GB maximum:	36GB (10K RPM)*
	73GB (10K RPM)*

*requires optional PCI SCSI controller card

expansion slots
PCI 1X	full-size - 3 slots available
	PCI 2.2 32b/33MHz
AGP 4X	1 slot available

SCSI device connectivity
optional Ultra 160/m SCSI card has 4 connectors and uses 1 PCI slot:

connector 1	68-pin external connector for LVD SCSI devices
connectors 2 and 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-inch floppy drive
CD drive(s) / up to 2 CD devices	48X CD-ROM
	16X DVD,
	24X/10X/40X CD-RW
	DVD+RW/+R/CD-RW

networking
RJ45	yes
LAN data rate	10/100Mb/sec

built-in I/O
serial interface 9-pin DIN	2 ports
parallel interface 25-pin DIN	1 port
USB	4 ports (2 rear, 2 front)
IEEE 1394 OHCI (optional)	3 ports (2 rear, 1 front)

power

power supply output	250W

audio
type	16-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	3048m (10,000 ft.) max
storage	4600m (15,000 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	47.5cm (18.7-inches)
width	20.6cm (8.1-inches)
depth	44.2cm (17.4-inches)

net weight
minimum configuration	14.3kg (31.5 lbs)

power requirements
input current	100-127V 7.0A
	200-240V 3.5A
line frequency	50-60Hz
maximum power input	385W

professional 3D graphics
professional 2D graphics
ATI RADEON 7000	RADEON 7000 graphics controller 32MB DDR SDRAM memory
entry3D NVIDIA Quadro2 EX	single, integrated geometry engine 32MB unified SDR graphics memory
mid-range 3D ATI Fire GL 8800	ATI R200 graphics controller 128MB unified graphics memory

For more information about the HP leadership graphics program:
www.hp.com/workstations/programs/leadership_graphics/index.html

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