





data sheet

designed for work with large models

The HP p-class workstation for Windows NT® and Windows 2000 Professional® is ideal for maximizing the talents of designers, creative artists, engineers, scientists and others who require superior performance at an affordable price. These workstations are designed for users who interact with large models in complex work-flow environments, yet they offer great performance at a reasonable price.

The HP workstation family has it all: powerful processors, fast graphics accelerators, increased disk, RAM and I/O capabilities, and $UNIX^{@}$ -Windows NT interoperability.* The HP p-class workstation – helping you to invent the future.

hp p-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 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	delivers hard disk space and performance needed to work on large models and mul- tiple designs	Ultra Wide SCSI 3's high data throughput and up to 72GB of storage mean greater productivity
	WRQ NFS connection and Reflection X (local): full version MKS commands, utilities and shell	supports integration and interoperability between UNIX and Windows NT systems.	optimizes cross-platform collaboration and use of tools on both operating systems; allows critical UNIX scripting in a Windows NT environment
	up to 2GB capacity SDRAM	larger capacity for more demanding applications and complex designs.	high memory capacity at low density memory prices
	hp toptools/hp maxilife II	provides industry-leading remote and local net-based management and diagnostics; remote administration and monitoring	advanced administration and manage- ment of system components and settings; increases reliability and provides hard- ware 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 ⁶	provides excellent application perform- ance for large models and complex visu- alization tasks	hp fx^5 delivers fast graphics performance with 3 PA-RISC geometry engines
	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 200 MHz DDR memory for excellent 2D & 3D graphics performance	provides excellent application perform- ance 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	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

hp p-class technical specifications

central processor		
type	Pentium III	
clock frequency	1GHz	
number of processors	1-2	
cache (on-chip)	256K L2	
performance		
hp workstation performance results ca http://www.hp.com/workstations/produ	an be found at: acts/winnt/performance.html	
main memory	0.000/	
bus bandwidth	2.0GB/sec	
RAM type	SDRAM PC 133	
capacity	2GB	
memory slots	4 DIMMs	
operating system	Windows NT® or Windows 2000 Professional®	
HP supports the latest Windows NT® and Window	's 2000 Professional® service packs.	
internal storage devices		
up to 2 devices, 72GB maximum:	00D (40K)	
Ultra 3/160 SCSI	9GB (10K rpm)	
	18GB (10K rpm)	
	36GB (10K rpm)	
PCI slots (4 total)		
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:	
connector 1	68-pin external connector fo 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, 8X DVD, CD-RW	
networking	RJ45	
LAN data rate	10/100Mbps	
other I/O		
serial interface 9-pin DIN	2 ports	
parallel interface 25-pin DIN	1 port	
USB (Universal Serial Bus)	•	
Series A	2 ports	
audio		
type	18-bit stereo full-duplex	
monitors	18.1" Flat Panel LCD	
	19" Flat Screen	
	21" Flat Scroon	

HP PCs use genuine Windows®
Operating Systems
www.Microsoft.com/piracy/howtotell

21" Flat Screen

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	150/ to 900/ (rolotive)			
operating	15% to 80% (relative)			
physical dimensions	40.00 (40.00)			
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	O.D.A. DICO			
hp <i>fx</i> 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			
ATI Fire GL2	IBM® GT1000 geometry engine			
ATT IIC GLZ	64MB unified graphics memory			
	9 1			
mid-range 3D				
NVIDIA Quadro2 Pro	single, integrated geometry engine 64MB unified graphics memory			
	o aoa g.apooo,			
entry 3D				
NVIDIA Quadro2 MXR	single, integrated geometry engine 32 MB unified graphics memory			
For more information about the HP leadership graphics program and				
a complete listing of all graphics cards available for the HP				
p-class workstation:	ame/leadership_graphics/index.html			
www.hp.com/workstations/programs/leadership_graphics/index.html				

Invent the future with HP workstations.

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

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