hp workstation x2100

data sheet

the next generation of speed, power and performance

Combine the latest Intel® processor technology that enables support for new frequencies up to 2.6GHz with twice as much L2 cache with a broad range of ISV certified professional 2D and 3D graphics solutions. Add the expandability, manageability and reliability of HP workstations. The resulting HP x2100 is a workstation capable of delivering the speed, power and performance required by expert financial, technical and creative professionals.

Now supporting high-performance 15,000 RPM SCSI hard disk drives, the HP Workstation x2100 features state of the art ultraflow heat management. Additionally, the HP x2100 has integrated LAN, allowing an additional PCI slot for your use.

Configure the system that best meets your workstation needs. The HP Workstation x2100 gives you the power to invent in real time.

hp workstation x2100	feature	benefit	advantage
	single Intel Pentium® 4 1.9, 2.0, 2.2, 2.4 or 2.6GHz with up to 2x as much L2 cache	uses integrated chip process techno-logy allowing up to 2.6GHz; next generation processor with Intel NetBurst™ micro-architecture and Hyper Pipelined Technology puts increased power and efficiency behind demanding applications	all future frequency increases will be based on this integrated chip process; higher frequencies and improved processor design provide increased floating point performance and compute power
	400MHz front side bus performance for 3.2GB/sec of system bandwidth	direct memory access is 3x faster than with RDRAM based Pentium III machines	allows use of the entire memory subsystem bandwidth for greater system responsive-ness and user interaction
	ISV certification	relationships with top Independent Software Vendors enable close collaboration, performance tuning and hardware platform certification	hp workstations are certified for official software support and to provide guaran-teed compatibility, reliability and the best performance possible
	RAID(optional)	provides RAID 1 (disk mirroring) and RAID 0 (disk striping) support	disk mirroring provides data redundancy for fault tolerance; disk striping provides high data bandwidth to and from a disk array for digital video, non-linear editing, and other applications requiring high bandwidth to disk
	mass storage expandability	Ultra Wide SCSI high data throughput and up to 160GB (EIDE) or 146GB (SCSI) of storage means greater productivity	provides hard disk space and performance needed to work on large models and multiple designs
	up to 2GB capacity RDRAM®	high performance, dual-channel memory; large memory capacity for more demand-ing 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	provides unique remote and local net-based management and diagnostics	allows advanced administration and management of system components and settings
	hp maxilife II	integrated with hp toptools for remote administration and monitoring	increases reliability and provides hardware self-diagnosis
	ultraflow heat management	turbo cooling accommodates heat pro-duced by Pentium 4, 3D graphics and SCSI disks; eliminates need for ducting	ducts are not in the way facilitating chassis accessibility
	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
	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 x2100 technical specifications

central processor

type	Intel Pentium 4
clock frequency	1.9, 2.0, 2.2, 2.4 or 2.6GHz
number of processors	1

cache (on-chip)

L1: 12KB instruction code, 8KB data
L2: 256KB (1.9GHz)
L2: 512KB (2.0 or higher)

main memory

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

operating system options

Windows 2000 Professional
Windows XP
Red Hat® Linux® 7.1

internal storage devices (2 storage bays)

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

Ultra ATA/100 EIDE hard drives	20GB (7200 RPM)
up to 2 devices, 160GB maximum	40GB (7200 RPM)
(S.M.A.R.T. enabled)	80GB (7200 RPM)
Ultra 160 SCSI hard drives with PCI adapter	18GB (10K RPM)
up to 2 devices, 146GB maximum	36GB (10K RPM)
(S.M.A.R.T. enabled)	73GB (10K RPM)
	36GB (15K RPM)

RAID (optional for Windows)

Ultra 160 SCSI RAID - single channel	stripe (2 HDD)
	mirror (2 HDD)

expansion slots

PCI 1X (full size - 5 slots available)	PCI 2.2 32b 33MHz
AGP 4X Pro	

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 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
	16X DVD,
	24X/10X/40X CD-RW
	DVD+RW/+R/CD-RW

networking (integrated)

RJ45	yes
LAN data rate	10/100Mbps (auto sensing)
wake-on-LAN support	

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

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

audio

type	20-bit stereo full-duplex

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)

power requirements

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

professional 2D graphics

ATI RADEON™ 7000	RADEON 7000 graphics controller 32MB DDR SDRAM memory

professional 3D graphics

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

high-end 3D

NVIDIA® Quadro™4 900 XGL	integrated geometry engine 128MB DDR memory to deliver outstanding graphics performance

extreme 3D

3Dlabs® Wildcat™ III 6110	6 geometry engines to deliver ultimate performance and the largest models 192MB graphics memory

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