

HP c8000 Workstation

Data sheet



Extreme UNIX[®] power... whisper quiet.
Address the most demanding technical workloads in automotive, aerospace, and electronic design.

- Deploy the power of dual-core, dual socket 64-bit PA-RISC processing combined with the stability of HP-UX 11i
- Design using industry-standard professional graphics
- Highly expandable with up to 32 GB of memory
- Work almost silently with our low-noise design
- Enjoy peace of mind with ISV-certified solutions

Imagine a 64-bit workstation that brings 2-way and 4-way computing power to the desktop, supports industry standard high-end graphics and has been designed to be binary compatible with your HP-UX applications. Now, imagine all of this packaged in a lower-cost workstation that's so quiet, it can integrate seamlessly into the most formal office setting.

Welcome to the HP c8000 Workstation. Designed to address the most demanding technical workloads in automotive, aerospace and electronic design enterprises, with 4X the processor and memory I/O bandwidth and 25% lower memory latency of previous generation PA-RISC workstations, the HP c8000 is ideal for handling the complexities of large model, system assemblies, design analysis and simulations.

This PA-RISC workstation delivers high compute performance, breakthrough graphics performance, a large 32 GB memory footprint, all at a low total cost of ownership.

Think fast, work faster

Dual core PA-8900 processor modules provide 2-way capability at 1-way price and 4-way performance at a 2-way price.

Designed for office environments

4.2 bels of sound power (32 dB sound pressure; operator position), this is the quietest UNIX[®] work-

station available today.

Breakthrough graphics performance

Industry-standard AGP 8X graphics comes to the UNIX workstation

High-performance, low-latency chipset

The HP zx1 chipset was designed for 1-to-4-way systems, enabling greater-than-clock-rate performance scaling.

Rich, pre-certified HP-UX solution stack

Because it's binary-compatible with HP-UX 10.20, 11.0 and 11i applications, there's no need to upgrade your application infrastructure.

Up to 1.2 TB of SCSI storage

Choose from four internal Ultra320 SCSI drives at either high-speed and high-capacity 10,000 rpm SCSI, extreme performance 15,000 rpm SCSI, or select low cost 7,500 rpm Ultra/ATA disk drives

Ready now, ready for the future

Robust expansion capabilities of 2 processor sockets, 8 memory slots, and 4 disk drive bays allow you to upgrade your workstation with your business needs. The HP c8000 supports either deskside or rack kits so that it can be redeployed into a high-performance compute cluster.



HP c8000 Workstation

Form factors	Rackable minitower
Operating systems	HP-UX 11i Version 1 TCOE (Technical Computing Operating Environment) HP-UX 11i Version 1 MTOE (Minimal Technical Operating Environment)
Available processors	1-2 PA-8900 dual-core processor modules, 4 cores maximum (using two 2-way PA-8900 processor modules; 2-way standard, 4-way optional): 2 or 4-way 1.00 GHz PA-8900 with 3 MB L1 cache (1.5 MB per core) 2 or 4-way 1.00 GHz PA-8900 with 3 MB L1 cache (1.5 MB per core) and 64 MB L2 cache 2 or 4-way 1.10 GHz PA-8900 with 3 MB L1 cache (1.5 MB per core) and 64 MB L2 cache
Chipset	HP Scalable Processor Chipset zx1
Memory	Up to 32 GB of registered ECC DDR 266 MHz SDRAM in 8 DIMM slots - 6.4 GB/s effective processor bandwidth, a maximum of 8.6 GB/s memory bandwidth and 80 ns memory access latency, 3.5 GB/s I/O bandwidth; Independent internal data paths for sustained peak performance
Drive controllers	Integrated Ultra320 SCSI controller, Integrated Ultra/ATA IDE controller
Hard drive(s)	73, 146, 300 GB (10K rpm) 73 GB (15K rpm) Ultra 320 SCSI drives; maximum of 1.2 TB internal storage 80 GB Ultra/ATA IDE Drive (7200 rpm); maximum of 160 GB internal storage
Optical drives	DVD-ROM, DVD+RW, CD-RW (up to 3 with SCSI disks)
Drive bays	4 internal 3.5 inch HDD bays, 3 externally accessible 5.25 inch bays
Slots	1 AGP-8X pro slot, (150 watts max power including auxiliary power connector), 6 PCI slots: 4 full-length (1 64-bit/133 MHz PCI-X, 2 64-bit/66 MHz PCI-X, 1 64-bit/33 MHz PCI); 2 half-length (32-bit/33 MHz PCI)
Graphics	Entry-level 3D: ATI FireGL T2 (dual display capable) Mid-to-High-end 3D: ATI FireGL X3 (dual display capable)
Audio	Optional 16-bit stereo full-duplex - uses half-length slot
Network	Integrated 10/100/1000 Mbps Base-T Ethernet
Ports	5 USB 1.1 ports (2 front, 3 rear), 2 9-pin DIN serial (rear), 1 RJ-45 port (rear)
Input devices	USB keyboard; USB 3-button optical mouse (scroll mouse optional), USB SpacePilot
Dimensions (H x W x D)	Tower configuration: 49 cm (19.3 inch) x 28.7 cm (11.3 inch) x 57.2 cm (22.5 inch) Rackable configuration: 20.3 cm (8 inch) x 42.4 cm (16.7 inch) x 57.2 cm (22.5 inch)
Power	650 watts maximum output
Acoustic properties	4.2 bels idle; 5.0 bels maximum operating; ISO 9296 Declared sound power levels
Monitors	HP L1955 19 inch flat panel, HP LP2065 20.1 inch flat panel, HP LP2465 24 inch flat panel
ROHS compliancy	All HP c8000 Workstations have been RoHS compliant since June 1, 2006.
Warranty	1 year parts, labor, and next-day on-site service, upgrades available to same-day service; 8am - 5pm telephone support; terms and conditions may vary, certain restrictions apply

© Copyright 2006 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind. The warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

UNIX is a registered trademark of The Open Group.

For more information, visit www.hp.com/go/workstations

4AA0-1656ENW, June 2006

