



HP Z800 WORKSTATION

The ultimate in power and expandability

Combining ultimate performance with a revolutionary new industrial design, the HP Z800 Workstation delivers the extreme speed and massive expandability that you demand to tackle your biggest challenges.

Innovation that transforms the way you work

Designed for speed, inside and out, the new HP Z800 revolutionizes workstation industrial design. With brushed aluminum side panels, integrated handles, visually cable-less engineering that optimizes airflow, modular component removal and reconnect, and optional liquid cooling (expected availability 07/09) among the many signature HP Workstation innovations, this is a system you'll want everyone to see.

- Minimize power and cooling costs with ENERGY STAR® qualified configurations featuring 85% or 89% efficient power supplies
- Help save energy with HP WattSaver which, when activated, lowers energy consumption to less than 1 Watt in off mode

Performance to help you accomplish more every minute

Get massive, whole-system computational power from a workstation that optimizes the way the processor, memory, graphics, OS, and software technology work together.

- Process more tasks—in less time—with the massive horsepower of new quad-core Intel® Xeon® processors¹ and Intel® QuickPath Technology
- Customize your HP Z800 with faster and larger memory capacity and large-scale storage
- Choose from a breadth of operating systems and new professional graphics options from NVIDIA and ATI

Reliability derived from our legendary, confidence-inspiring quality

- Close relationships with ISVs help ensure fully certification and optimization for your applications
- In-depth testing and quality assurance keep you productively up-and-running
- HP Performance Tuning Framework helps ease configuration and updates while optimizing a range of applications
- Quickly capture system configuration data and share it with IT personnel with HP Vision Field Diagnostics, an easy-to-use system diagnostics tool that runs outside the OS
- Comprehensive, lifetime HP Total Care options, easy HP financing solutions, and an array of monitors and other accessories make HP Workstations easy to own and use

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HP recommends Windows Vista® Business

Form factor	Rackable minitower
Operating systems	Genuine Windows Vista® Business 32-bit with downgrade to Windows® XP Professional 32-bit custom installed* Genuine Windows Vista® Business 64-bit with downgrade to Windows® XP Professional x64 custom installed* Genuine Windows Vista® Business 32-bit** Genuine Windows Vista® Business 64-bit** HP Installer Kit for Linux (includes drivers for both 32-bit and 64-bit OS versions of Red Hat Enterprise Linux WS4 and WS5) (expected availability 05/09)
Available processors	Intel® Xeon® processor ^{1,2} E5504 ³ , 2.00 GHz, 4 MB cache, 800 MHz memory, Quad-Core Intel Xeon processor ^{1,2} E5506 ³ , 2.13 GHz, 4 MB cache 800 MHz memory, Quad-Core Intel Xeon processor ^{1,2} E5520 ³ , 2.26 GHz, 8 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor ^{1,2} E5530 ³ , 2.40 GHz, 8 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor ^{1,2} E5540 ³ , 2.53 GHz, 8 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor ^{1,2} X5550 ³ , 2.66 GHz, 8 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor ^{1,2} X5560 ³ , 2.80 GHz, 8 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor ^{1,2} X5570 ³ , 2.93 GHz, 8 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor ^{1,2} W5580 ³ , 3.20 GHz, 8 MB cache, 1333 MHz memory, Quad-Core
Chipset	Intel® 5520 (Dual)
Memory⁴	12 DIMM slots, up to 192 GB (expected availability 2H09), 6-channel DDR3 1333 MHz**, 3 channels per CPU (**actual memory speed dependent on processor capability)
Drive controllers⁵	Integrated SATA 3Gb/s controller, RAID 0, 1, 5, 10 capable; Integrated 8-channel SAS controller, RAID 0, 1, 10 capable; Optional LSI 8888 ELP 8-port SAS HW RAID 0, 1, 5, 10 capable; 6-channel SATA 3Gb/s
Hard drive(s)⁶	Up to (5) 3.5-inch 7200 rpm SATA drives: 160, 250, 320, 500 GB, 1, 1.5* TB, 7.5 TB max*; Up to (6) 2.5-inch 10K rpm SATA drives: 160, 300 GB SFF, 1.8 TB max; Up to (5) 3.5-inch 15K rpm SAS drives: 146, 300, 450 GB, 2.25 TB max (*1.5 TB SATA drive expected availability 9/09)
Optical drives^{7,8}	DVD-ROM, DVD+/-RW, Slot-load DVD+/-RW, Blu-Ray Writer (expected availability 05/09)
Drive bays	3 external 5.25-inch bays, 4 internal 3.5-inch bays, Up to 4 eSATA, Up to 8 external SAS
Slots	2 PCI Express Gen2 x16, 2 PCI Express Gen2 x16 mechanical/x8 electrical, 1 PCI Express Gen2 x8 mechanical/x4 electrical, 1 PCI
Graphics (dual graphics on selected cards)	Professional 2D: NVIDIA Quadro NVS 295 (256 MB) Entry 3D: NVIDIA Quadro FX 380 (256 MB), ATI FirePro V3700 (256 MB), NVIDIA Quadro FX 580 (512 MB) Midrange 3D: NVIDIA Quadro FX 1800 (768 MB), ATI FirePro V5700 (512 MB) High-end 3D: NVIDIA Quadro FX 3800 (1 GB) (available 06/09), ATI FirePro V7750 (1 GB), NVIDIA Quadro FX 4800 (1.5 GB), NVIDIA Quadro CX, NVIDIA Quadro FX 5800 (4 GB)
Audio	High-definition integrated Realtek ALC262 Audio, optional Creative X-Fi Titanium PCIe Audio Card, optional HP Thin USB Powered Speakers
Network	Integrated Dual Broadcom 5764 LAN, Infineon TPM 1.2 Controller, Optional Broadcom NIC, Optional Intel NIC
Ports	Front: 3 USB 2.0, 1 IEEE 1394a, 1 microphone in, 1 headphone out Rear: 6 USB 2.0, 1 IEEE 1394a, 1 audio in, 1 audio out, 1 microphone in, 2 PS/2, 2 RJ-45 to integrated Gb LAN, 1 serial Internal: 3 USB 2.0
Input devices	PS/2 standard keyboard, USB standard keyboard, USB Smart Card Keyboard, PS/2 optical scroll mouse, USB 2-button optical scroll mouse, USB 3-button optical mouse, USB SpaceExplorer, USB SpacePilot, USB Laser Scroll Mouse
Dimensions (H x W x D)	17.5 x 8.0 x 20.7 in (44.51 x 20.35 x 52.65 cm)
Power supply	850-Watt 85% efficient power supply or 1110-Watt 89% efficient (ENERGY STAR® SILVER) power supply; direct connection Power Supplies
Monitors (screen size diagonally measured)	HP LP1965 19-inch LCD Monitor, HP LP2275w 22-inch Widescreen LCD Monitor, HP LP2475w 24-inch Widescreen LCD Monitor, HP DreamColor LP2480zx Professional Display (24-inch diagonal widescreen), HP LP3065 30-inch Widescreen LCD Monitor
Warranty	Limited three-year next business day ⁹ , parts, labor and 8x5 phone support; Terms and conditions may vary.

*Windows Vista Business disk may also be included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image.

**Certain Windows Vista product features require advanced or additional hardware. See www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit www.windowsvista.com/upgradeadvisor.

¹ Quad-Core technologies are designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefits; check with software provider to determine suitability; Not all customers or software applications will necessarily benefit from use of these technologies.

² 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information.

³ Intel's numbering is not a measurement of higher performance.

⁴ Each processor supports up to 3 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel. To get full 6 channel support, 2 processors MUST be installed.

⁵ SATA hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit <http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf> for RAID capabilities with Linux.

⁶ For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 12 GB of hard drive (or system disk) is reserved for the system recovery software (XP and XP Pro). Up to 3 GB of system disk is reserved for system recovery software. (Vista).

⁷ Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful uses. Double Layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.

⁸ As Blu-Ray is a new format containing new technologies, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this workstation.

⁹ HP Care Pack Services extend service contracts beyond the standard warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at www.hp.com/hps/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.



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