HP Z600 Workstation

Maximum computing power in minimal space

The HP Z600 packs compute and visualization power into a small, quiet package—for the ideal workstation when every inch, watt, and decibel make a difference.

Innovation that transforms the way you work
The HP Z600's sleek new industrial design—brushed aluminum side panels, tool-less access chassis, integrated handles, and visually cable-less engineering—creates new standards for ease of service, lowered acoustics, and energy efficiency.

- Enhance your work area with HP's quietest workstation, designed to fit where space is at a premium
- Minimize power and cooling costs with ENERGY STAR® qualified configurations featuring 85% efficient power supplies and HP WattSaver which, when activated, lowers energy consumption to less than 1 Watt in off mode
- See, share, and show your work across the world with the new HP SkyRoom collaboration solution, which combines real-time 3D graphics sharing and video conferencing

Performance to help you accomplish more every minute
The HP Z600 is engineered to optimize the way processor, memory, graphics, OS and software technology work together to deliver massive, whole-system computational power.

- Tackle bigger problems faster and process more tasks and threads in parallel with the new Intel® QuickPath Technology and new Intel® Xeon® processors[1] with integrated memory controllers.
- Get maximum I/O bandwidth and expandability from a range of Gen2 PCI Express slots and optical drives and up to 5 storage bays
- Choose the simplified HP Installer Kit for Linux installation or a breadth of Microsoft® Windows® selections
- Drive up to 8 displays with new dual graphics support and the latest NVIDIA and ATI graphics cards

Reliability derived from our legendary, confidence-inspiring quality
- Close relationships with ISVs help ensure full certification for your applications
- In-depth testing and quality assurance keep you productively up-and-running
- HP Performance Advisor helps ease configuration and updates and maximize a range of applications
- Comprehensive, lifetime HP Total Care options provide personal attention, convenient tools, and reliable service

HP Z600 WORKSTATION

Windows®. Life without Walls™. HP recommends Windows 7.

Form factor	Rackable minitower
Operating systems	Genuine Windows® 7 Professional 64-bit* Genuine Windows® 7 Professional 32-bit* Genuine Windows® XP Professional 32-bit available through downgrade rights from Windows® 7 Professional 32-bit*,† Genuine Windows® XP Professional 64-bit available through downgrade rights from Windows® 7 Professional 64-bit*,† Genuine Windows® XP Professional 32-bit available through downgrade rights from Windows Vista® Business**,† Genuine Windows® XP Professional 64-bit available through downgrade rights from Windows Vista® Business**,† 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) Red Hat Linux WS5 (as drop-in-the-box only)
Available processors	Intel® Xeon® processor[1,2] E5620[3], 2.40 GHz, 12 MB cache, 1066 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] E5630[3], 2.53 GHz, 12 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor[1,2] E5507[3], 2.26 GHz, 4 MB cache, 800 MHz memory, Quad-Core Intel Xeon processor[1,2] E5640[3], 2.66 GHz, 12 MB cache, 1066 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] X5650[3], 2.66 GHz, 12 MB cache, 1333 MHz memory, Six-Core Intel Xeon processor[1,2] E5530[3], 2.40 GHz, 8 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor[1,2] X5660[3], 2.80 GHz, 12 MB cache, 1333 MHz memory, Six-Core Intel Xeon processor[1,2] E5540[3], 2.53 GHz, 8 MB cache, 1066 MHz memory, Quad-Core Intel Xeon processor[1,2] X5667[3], 3.06 GHz, 12 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor[1,2] E5550[3], 2.66 GHz, 8 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor[1,2] X5670[3], 2.93 GHz, 12 MB cache, 1333 MHz memory, Six-Core Intel Xeon processor[1,2] X5560[3], 2.80 GHz, 8 MB cache, 1333 MHz memory, Quad-Core Intel Xeon processor[1,2] E5504[3], 2.00 GHz, 4 MB cache, 800 MHz memory, Quad-Core Intel Xeon processor[1,2] X5570[3], 2.93 GHz, 8 MB cache, 1333 MHz memory, Quad-Core
Chipset	Intel 5520
Memory[4]	6 DIMM slots, up to 48 GB, 6-channel DDR3 1333 MHz, 3 channels per CPU (actual memory speed dependent on processor capability)
Drive controllers[5]	Integrated SATA 3 GB/s controller, RAID 0, 1, 5, 10 capable; Optional SAS controller, LSI 3041E 4-port SAS/SATA, RAID 0, 1, 10 capable
Hard drive(s)[6]	Up to (3) 3.5-inch 7200 rpm SATA drives: 160, 250, 320, 500 GB, 1, 1.5, 2 TB, 6 TB max; Up to (4) 2.5-inch 10K rpm SATA drives: 160, 300 GB SFF, 1.2 TB max; Up to (3) 3.5-inch 15K rpm SAS drives: 146, 300, 450 GB, 1.35 TB max. Note: Third and fourth drives occupy one external optical bay.
Optical drives[7,8]	DVD-ROM, DVD+/-RW, Slot-load DVD+/-RW, Blu-Ray Writer
Drive bays	2 external 5.25-inch bays, 2 internal 3.5-inch HDD bays, Up to 4 eSATA. Note: Third and fourth HDDs occupy one external bay.
Slots	2 PCI Express Gen2 x16, 1 PCI Express Gen2 x8 mechanical/x4 electrical, 1 PCI Express Gen1 x8 mechanical/x4 electrical, 2 PCI
Graphics (dual graphics on selected cards)	**Professional 2D:** NVIDIA Quadro NVS 295 (256 MB), NVIDIA Quadro NVS 450 (512 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), ATI FirePro V7750 (1 GB), NVIDIA Quadro FX 4800 (1.5 GB), Elemental Accelerator Software for NVIDIA Quadro
Audio	High Definition Integrated RealTek ALC262 Audio, optional Creative X-Fi Titanium PCIe Audio Card, optional HP Thin USB Powered Speakers
Network	Integrated 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, HP 22-in-1 Media Card Reader (optional) **Rear:** 6 USB 2.0, 1 audio in, 1 audio out, 1 microphone in, 2 PS/2, 1 RJ-45 to integrated Gb LAN, 1 serial (optional) **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 6.5 x 17.3 in (44.51 x 16.53 x 44 cm)
Power supply	650 Watt 85% efficient power supply, direct connection power supplies
Monitors (screen size diagonally measured)	HP LP1965 19-inch LCD Monitor, HP LP2065 20-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 24 x 7 phone support; Terms and conditions may vary.

* Windows 7 systems may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

** Certain Windows Vista product features require advanced or additional hardware. See http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and http://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 http://www.windowsvista.com/upgradeadvisor.

† 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.

[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 http://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 8 GB of hard drive (or system disk) is reserved for the system recovery software (XP and XP Pro). Up to 12 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 http://www.hp.com/hps/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.