

HP recommends Windows Vista® Business



HP xw8600 WORKSTATION

Extreme performance with unlimited possibilities



The HP xw8600 Workstation delivers the extreme performance that allows you to tackle the most demanding challenge. Building upon and advancing the performance and expandability of the widely successful HP xw8400, the HP xw8600 Workstation provides power, versatility and reliability for massive compute and visual capacity—giving you and your business a professional edge.

Extraordinarily powerful

The HP xw8600 takes high performance to the extreme delivering leading performance for computationally-intense applications. Meet your most demanding engineering, digital content creation, video and multimedia production challenges with the latest Intel® Dual-Core¹ and Quad-Core processors. Integrating the Intel® 5400 chipset, the HP xw8600 delivers 4x the graphics processing throughput capability of previous generation systems along with support for high-end graphics cards and multiple displays. The 80 PLUS high-efficiency power supply and low-power processors give you maximum compute power while making the most of every watt of power.

Uniquely versatile

The HP xw8600 has the greatest expandability and range of options in the HP Workstation family. Built on a space-efficient, tool-less chassis, the HP xw8600 is designed to make serviceability simple and comes with remote management and support capabilities that make your work life easier.

Like all of our workstations, the HP xw8600 is designed to run quietly and be less disruptive to your work environment. Choose from our leading Linux® support (simplified installation, dedicated Linux R&D team, single point of customer support) or a breadth of Microsoft® Windows®-based OS choices.

Definitively reliable

Work with greater confidence and improve the ability to focus on your job, with reliable HP Workstation engineering and certified solutions backed by world-class service and support. Extensive testing helps ensure the quality for which HP is renowned. In-depth engineering and technical relationships with ISVs to test and certify applications, OS, and hardware configurations assist in delivering faster, more reliable applications.

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Form factor	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* Red Hat Enterprise Linux® WS 5 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)
Available processors	Intel® Xeon® processor ² E5205 ³ 1.86 GHz 6 MB L2 1066 MHz FSB Intel Xeon processor ² E5240 ³ 3.00 GHz 6 MB L2, 1333 MHz FSB Intel Xeon processor ² X5260 ³ 3.33 GHz 6 MB L2, 1333 MHz FSB Intel Xeon processor ² X5270 ³ 3.50 GHz 6 MB L2, 1333 MHz FSB Intel Xeon processor ² X5272 ³ 3.40 GHz 6 MB L2, 1600 MHz FSB Intel Xeon processor ^{1,2} E5405 ³ 2.00 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} E5410 ³ 2.33 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} E5420 ³ 2.50 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} E5430 ³ 2.66 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} E5440 ³ 2.83 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} X5450 ³ 3.00 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} X5460 ³ 3.16 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} X5470 ³ 3.33 GHz 2x6 MB L2 cache 1333 MHz FSB Intel Xeon processor ^{1,2} X5472 ³ 3.00 GHz 2x6 MB L2 cache 1600 MHz FSB Intel Xeon processor ^{1,2} X5482 ³ 3.20 GHz 2x6 MB L2 cache 1600 MHz FSB Intel Xeon processor ^{1,2} X5492 ³ 3.40 GHz 2x6 MB L2 cache 1600 MHz FSB
Chipset	Intel® 5400
Memory⁴	DDR2-667 and DDR2-800 ECC Memory; up to 128 GB available with 16 DIMM slots and 8 GB DDR2-667 DIMMs
Drive controllers	Integrated 6 channel SATA 3.0 Gb/s Controller, RAID 0, 1, 10, 5 capability ⁵ ; integrated 8 channel Serial Attached SCSI (SAS) 3.0Gb/s Controller supporting RAID level 0, 1, 10 capability ⁵ (Factory integrated RAID is Microsoft OS's only.); optional LSI 8888ELP 8-port, PCIe SAS RAID Controller with RAID 0, 1, 5, and 10 capability ⁵
Hard drive(s)	Up to 5 SATA drives; 5 TB max; 80 GB ⁶ (7200 rpm) SATA 3.0 Gb/s; or 160, 250, 500, or 1000 GB ⁶ (7200 rpm) SATA 3.0 Gb/s NCQ; or 80 or 160 GB ⁶ (10K rpm) SATA 1.5-Gb/s NCQ; 300 GB ⁶ (10K rpm) 2.5" SATA 3.0 Gb/s NCQ; 73 or 146 GB ⁶ (10K rpm) 2.5" SAS; or 73, 146, 300, or 450 GB ⁶ (15K rpm) SAS
Optical drives	DVD-ROM (SATA); DVD±/RW Double Layer SuperMulti (SATA) with LightScribe Direct Disc Labeling (Microsoft Windows only, requires LightScribe media for labeling) ⁷
Drive bays	3 external 5.25-inch bays*; 5 internal 3.5-inch bays (4 with acoustic dampening rail assemblies) *Third external 5.25" bay is not full-depth, bottom bay is limited to 200 mm device depth.
Slots	7 full length slots: 2 PCIe x16 Gen2 Graphics ⁸ , 2 PCIe (x8 mechanically, x4 electrically), 1 PCIe x8 (switchable as x1 or x8), 1 PCI-X 133 MHz slot, and 1 PCI 32-bit/33 MHz slot
Graphics (Up to two cards)	Professional 2D: NVIDIA Quadro NVS 290 (256 MB) Entry 3D: NVIDIA Quadro FX 370 (256 MB) and NVIDIA Quadro FX 570 (256 MB) Mid-range 3D: ATI FireGL V5600 PCIe (512 MB) and NVIDIA Quadro FX 1700 (512 MB) High-end 3D: ATI FireGL V7700 (512 MB), NVIDIA Quadro FX 3700 (512 MB), NVIDIA Quadro FX 4600 (768 MB), NVIDIA Quadro FX 4800 (1.5 GB), NVIDIA Quadro CX (1.5 GB), NVIDIA Quadro FX 5600 (1.5 GB), and NVIDIA Quadro FX 5800 (4 GB)
Audio	High Definition Integrated Realtek ALC262 Audio; optional Sound Blaster X-Fi XtremeGamer Audio Card; optional HP Thin USB Powered Speakers
Network	Dual integrated Broadcom 5755 NetXtreme Gigabit PCIe; optional Broadcom 5751 NetXtreme Gigabit PCIe; optional Intel Pro 1000 PT Gigabit Ethernet Controller (PCIe) ⁹
Ports	Front: 2 USB 2.0; IEEE 1394; 1 microphone in; 1 headphone out Internal: 1 USB 2.0 Rear: 5 USB 2.0; 1 IEEE 1394; 1 serial; 2 PS/2; 2 RJ-45 to integrated Gigabit LAN; 1 audio in; 1 audio out; 1 microphone in
Input devices	PS/2 standard keyboard; USB standard keyboard; USB Smart Card Keyboard; 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)	17.9 x 8.3 x 20.7 in (45.5 x 21.1 x 52.6 cm)
Power supply	800 watts and 1050 watts 80 PLUS efficient power supply wide ranging, Active Power Factor Correction
Compliance and regulatory	80 PLUS efficient
Monitors (screen size measured diagonally)	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 widescreen); HP LP3065 30-inch Widescreen LCD Monitor
Warranty	Limited three-year next business day, parts, labor and 24 x 7 phone support; Terms and conditions may vary, certain restrictions apply. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/lookuptool . Additional HP Care Pack Services information by product is available at http://www.hp.com/hps/carepack .

*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/upgradedeadvisor.

¹Quad-Core and Dual-Core 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. ²64-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. ³Intel's numbering is not a measurement of higher performance. ⁴Dual Channel is only supported when the system is configured with DDR2 symmetric memory (i.e. 2 x 256). ⁵Hardware 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. ⁶1 GB = 1 billion 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) ⁷Actual 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. LightScribe creates a monochrome image. LightScribe media required and sold separately. ⁸I/O card must also be Gen2 in order to realize PCI Express Base 2.0 Specification (also known as PCIe Gen2) graphics performance. ⁹The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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