



## HP xw6600 WORKSTATION

Workspace innovation with commanding performance



The HP xw6600 Workstation is designed and engineered for environments where space is at a premium and noise must be minimized. Delivering an intriguing mix of high performance and design, the HP xw6600 offers maximum computing horsepower in an optimally-sized form factor with the flexibility to meet the needs of the professional.

### Uniquely unobtrusive

The HP xw6600's small form factor and quiet operation can help you build a more productive work environment in which to create, design, analyze or produce. Though it is one of the smallest dual-processor socket workstations in the industry, the HP xw6600 Workstation delivers uncompromised performance and future-ready expandability. Through close attention to airflows, quiet fan technology, internal board and system layout, and other core engineering designing principles, the HP xw6600 has a distinctly quiet and thermally-efficient acoustic signature.

### Clearly powerful

Next-generation dual and quad-core Intel processor and chipset technology help enable your staff and business to accomplish more in less time. With dual Gen2 PCI-e interfaces<sup>1</sup>, the HP xw6600 leverages an architecture that can deliver up to twice the graphic performance of previous systems. Add more visual capability and flexibility with the HP xw6600's support of up to four 3D displays or up to eight 2D displays. And, with an energy-wise system design you can help lower your energy consumption and reduce your power costs with 80 watt processors and an 80 PLUS efficiency power supply.

### Consistently reliable

Ensure the smooth operation of your business with confidence, through up-time focused engineering, certified solutions, and world-class service and support. HP engineers work onsite with ISVs to test and certify applications and OS and hardware configurations to help ensure that applications run better, faster, and with greater reliability. HP workstations are backed by dedicated HP service and support, with up to a five-year limited warranty and 24/7 support.

# HP XW6600 WORKSTATION

HP recommends Windows Vista® Business

<b>Form factor</b>	Minitower
<b>Operating systems</b>	Genuine Windows Vista® Business 32-bit* Genuine Windows Vista® Business 64-bit* Genuine Windows Vista® Business 32-bit* downgrade to Genuine Microsoft® Windows® XP Professional 32-bit** Genuine Windows Vista® Business 64-bit* downgrade to Genuine Microsoft® Windows® XP Professional 64-bit** (available 02/08) Red Hat Enterprise Linux® WS 4 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) <sup>2</sup>
<b>Available processors</b>	Intel® Xeon® processor <sup>3</sup> E5205 <sup>4</sup> 1.86 GHz <sup>5</sup> 6 MB L2 cache 1066 MHz FSB <sup>6</sup> Intel Xeon processor <sup>3</sup> X5260 <sup>4</sup> 3.33 GHz <sup>5</sup> 6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5405 <sup>4</sup> 2.00 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5410 <sup>4</sup> 2.33 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5420 <sup>4</sup> 2.50 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5430 <sup>4</sup> 2.66 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5440 <sup>4</sup> 2.83 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup> Quad-Core <sup>2</sup> Intel Xeon processor <sup>3</sup> E5450 <sup>4</sup> 3.00 GHz <sup>5</sup> 2x6 MB L2 cache 1333 MHz FSB <sup>6</sup>
<b>Chipset</b>	Intel® 5400
<b>Memory</b>	Up to 32 GB DDR2-667 ECC; 8 DIMM slots
<b>Drive controllers</b>	Integrated SATA 3.0 Gb/s Controller, RAID 0, 1, 5 capability <sup>7</sup>
<b>Hard drive(s)</b>	Up to 3 SATA drives (with the optional optical bay converter kit), or up to 3 of the small form factor SAS drives (with the HDD bay converter kit); 3 TB max; 80 GB <sup>8</sup> (7200 rpm) SATA 3.0 Gb/s; or 160, 250, 500, or 1000 GB <sup>8</sup> (7200 rpm) SATA 3.0 Gb/s NCQ; or 80 or 160 GB <sup>8</sup> (10K rpm) SATA 1.5-Gb/s NCQ; or 73 or 146 GB <sup>8</sup> (10K rpm) 2.5" SAS; or 73, 146, or 300 GB <sup>8</sup> (15K rpm) SAS
<b>Optical drives</b>	DVD-ROM (SATA); DVD/CD-RW combo (SATA); DVD+/-RW Double Layer SuperMulti (SATA) with LightScribe Direct Disc Labeling (Microsoft Windows only, requires LightScribe media for labeling) <sup>9</sup>
<b>Drive bays</b>	2 external 5.25-inch bays; 2 internal 3.5-inch bays or 3 internal 2.5-inch bays; 1 floppy bay (optional)
<b>Slots</b>	6 full length slots: 2 PCIe x16 Gen2 Graphics <sup>1</sup> , 2 PCIe (x8 mechanically, x4 electrically), 2 legacy PCI slots
<b>Graphics</b>	<b>Professional 2D:</b> NVIDIA Quadro NVS 290 (256 MB, up to two cards) and NVIDIA Quadro NVS 440 (256 MB, up to two cards) <b>Entry 3D:</b> NVIDIA Quadro FX 370 (256 MB, up to two cards) and NVIDIA Quadro FX 570 (256 MB, up to two cards) <b>Mid-range 3D:</b> ATI FireGL V5600 PCIe (512 MB; up to two cards) and NVIDIA Quadro FX 1700 (512 MB, up to two cards) <b>High-end 3D:</b> NVIDIA Quadro FX 3700 (512 MB), NVIDIA Quadro FX 4600 (768 MB)
<b>Audio</b>	High Definition Integrated Realtek ALC262 Audio; optional Sound Blaster X-Fi XtremeGamer Audio Card
<b>Network</b>	Integrated Broadcom 5755 NetXtreme Gigabit PCIe; optional Broadcom 5751 NetXtreme Gigabit PCIe; optional Intel Pro 1000 PT Gigabit Ethernet Controller (PCIe) <sup>10</sup>
<b>Ports</b>	Front: 2 USB 2.0; 1 IEEE 1394 (optional); 1 microphone in; 1 headphone out Rear: 5 USB 2.0; 1 serial (optional); 2 PS/2; 1RJ-45; 1 audio in; 1 audio out; 1 microphone in Internal: 1 USB 2.0
<b>Input devices</b>	PS/2 standard keyboard; USB standard keyboard; USB Smart Card Keyboard; PS/2 2-button optical scroll mouse; USB 2-button optical scroll mouse; USB 3-button optical mouse; USB SpaceExplorer; USB SpacePilot
<b>Dimensions (H x W x D)</b>	17.3 x 6.5 x 17.3 in (44 x 16.5 x 44 cm)
<b>Power</b>	650 watts 80 PLUS power supply wide ranging, Active Power Factor Correction
<b>Compliance and regulatory</b>	80 PLUS efficient; ENERGY STAR® qualified configurations
<b>Monitors (screen size measured diagonally)</b>	HP LP1965 19-inch LCD Monitor; HP LP2065 20-inch LCD Monitor; HP LP2465 24-inch Widescreen LCD Monitor; HP LP3065 30-inch Widescreen LCD Monitor
<b>Warranty</b>	Limited three-year next business day, parts, labor and 8x5 phone support; Terms and conditions may vary, certain restrictions apply. Service levels and response times for HP Care Packs may vary depending on your geographic location. Restrictions and limitations apply. For details, visit <a href="http://www.hp.com/go/carepack">www.hp.com/go/carepack</a> . <sup>11</sup>

\* Certain Windows Vista product features require advanced or additional hardware. See <http://www.microsoft.com/windowsvista/getready/hardwarereqs.aspx> and <http://www.microsoft.com/windowsvista/getready/capable.aspx> 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>

\*\* Available for end user customers that are a business (including governmental or educational institutions) who are expected to annually order at least 25 Customer Systems with the same Custom Image.

<sup>1</sup> I/O card must also be Gen2 in order to realize PCI Express® Base 2.0 Specification (also known as PCIe Gen2) graphics performance.

<sup>2</sup> Quad-Core and Dual Core are new technologies 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.

<sup>3</sup> 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.

<sup>4</sup> Intel's numbering is not a measurement of higher performance.

<sup>5</sup> GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance.

<sup>6</sup> Actual bus clock rate is less. Listed bus speed represents the effective data transfer rate.

<sup>7</sup> 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.

<sup>8</sup> 1 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).

<sup>9</sup> Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copy-right 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.

<sup>10</sup> The 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.

<sup>11</sup> Service levels and response times for HP Care Packs may vary depending on your geographic location. Restrictions and limitations apply. For details, visit [www.hp.com/go/carepack](http://www.hp.com/go/carepack).

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