

HP xw8200 Workstation

HP recommends genuine Windows® XP Professional.



Top-of-the-line Intel®-based personal workstation.
Satisfy your insatiable demand for performance and
expandability.

Combining the highest processing and I/O power from Intel with the latest graphics technology from leading graphics providers, the HP xw8200 Workstation delivers dual-processing performance, large computational and visualization capacity, expandability and HP's renowned reliability. A broad range of ISV-certified 3D and 2D PCI Express (PCIe) graphics solutions are available, along with operating system choices to best fit your requirements. Supporting Extended Memory 64 Technology (EM64T), the HP xw8200 Workstation is engineered to meet your present and future business demands.

Get the highest performance Intel technology available on a personal workstation

Intel's E7525 high-end performance chipset for Intel® Xeon® processors supports dual processing, an 800 MHz system bus (6.4 GB/sec bandwidth) and a dual-channel DDR2 400 MHz SDRAM memory subsystem, putting increased power and efficiency behind demanding applications.

Expand to meet your performance and storage needs

Supporting up to five internal HDD, three optical disks, two PCIe, three PCI-X (1 x 133 MHz and 2 x 100 MHz), and 2 PCI slots, the HP xw8200 provides the hard disk space and performance needed for large models and storage-intensive projects.

Handle very large and complex data sets

The HP xw8200 implements 8 memory DIMM slots. With 2 GB DIMMs, the HP xw8200 can achieve the largest memory configuration supported by the Intel E7525 chipset - 16 GB on Linux and the Microsoft Windows XP Professional x64 Edition.

Enable advanced, high-performance visualization

The PCIe x16 graphics interface provides 4x the total peak bandwidth and 2x the unidirectional bandwidth of AGP 8X graphics. HP workstations offer a wide range of graphics choices for applications that are fully supported on the HP xw8200 platform.

Custom configure your workstation

HP Performance Tuning Framework, available on HP workstations with Microsoft® Windows®, will guide your setup, allowing a "custom" configuration that best matches the workstation to user requirements. This customization facilitates availability of the latest graphics drivers and removes some memory constraints. For more information, go to: www.hp.com/go/framework



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Specifications

Form factor	Rackable minitower
Operating systems	Preinstalled Microsoft® Windows® XP Professional x64 Edition (64-bit) – workstation is WHQL certified or preinstalled Microsoft Windows XP Professional (32-bit) – workstation is WHQL certified or Microsoft Windows 2000 Professional supported or preinstalled Red Hat Enterprise Linux® WS 3 (64-bit), or HP Installer Kit for Linux (includes 32- and 64-bit drivers for WS 3 & 4)
Available processors	One or two EM64T ⁱ Intel® Xeon® processor(s) with Hyper-Threading Technology ⁱⁱ at 2.80, 3.00, 3.20, 3.40, 3.60 and 3.80 GHz with 2 MB L2 cache, all support 800 MHz Front Side Bus (FSB)
Chipset	Intel E7525 chipset (supports an 800 MHz FSB)
Memory	Up to 16 GB of registered ECC DDR2 400 MHz SDRAM in 8 DIMM slots
Drive controllers	Integrated 2 channel SATA 1.5 Gb/s controller with RAID 0 or 1 capability ⁱⁱⁱ , integrated 2 channel Ultra320 SCSI controller with RAID 0 or 1 capability ⁱⁱⁱ , opt. 4 channel SATA 1.5 Gb/s controller with RAID 0 or 1 capability ⁱⁱⁱ , opt. single channel Ultra320 SCSI controller with RAID 0, 1, 10, 5 capability ⁱⁱⁱ
Hard drive(s)	Up to 4 SATA drives, 2 TB max.; 74 GB (10k rpm) SATA 1.5 Gb/s or 80, 250 GB (7200 rpm) SATA 3 Gb/s ^{iv} or 160, 500 GB (7200 rpm) SATA 3 Gb/s NCQ ^{iv} Up to 5 Ultra320 SCSI drives, 1.5 TB max.; 73, 146, 300 GB (10K rpm) or 36, 73 GB (15K rpm)
Optical drives	48X CD-ROM, 48X CD-RW, 16X DVD-ROM, 48X CD-RW/DVD combo, 16X DVD+/-RW DL with LightScribe Direct Disc Labeling (Microsoft Windows 2000 & XP only, requires LightScribe media for labeling)
Drive bays	3 external 5.25 inch bays (opt. StorCase enclosure enables 3.5 inch SATA drive to be added to 5.25 inch bay), 5 internal 3.5 inch bays
Slots	7 slots: 1 PCIe x16 graphics slot, 1 PCIe x8 mechanical (x4 electrical), one 133 MHz PCI-X slot, two 100 MHz PCI-X slots, & 2 PCI slots
Graphics	Professional 2D: NVIDIA Quadro NVS 285 with NVIDIA TurboCache technology (PCIe) Entry 3D: NVIDIA Quadro FX 540 (PCIe), ATI FireGL V3100 (PCIe) Midrange 3D: NVIDIA Quadro FX 1400 (PCIe), ATI FireGL V5100 (PCIe) High-end 3D: NVIDIA Quadro FX 3450 (PCIe), NVIDIA Quadro FX 4500 (PCIe) with opt. Quadro G-Sync card
Audio	Integrated AC'97/16-bit stereo full-duplex, opt. SoundBlaster X-Fi XtremeMusic (PCI), opt. Sound Blaster Audigy 2 ZS (PCI)
Network	Integrated Intel Pro/1000 MT Gigabit LAN-On-Motherboard, opt. Intel Pro MT/1000 or opt. Intel Pro GT/1000 NIC (PCI), opt. Intel Pro/1000 XT NIC (PCI-X), opt. Broadcom Gigabit NIC (PCI)
Ports	Front: Headphone, microphone, and 2 USB 2.0, 1 IEEE 1394 Rear: 6 USB, 1 standard serial port, 1 parallel port, PS/2 keyboard and mouse, 1 RJ-45, 1 audio in, 1 audio out, 1 IEEE 1394
Input devices	USB or PS/2 keyboard; choice of 2-button scroll mouse (optical or mechanical); USB 3-button mouse (optical); USB SpaceBall, USB SpacePilot
Dimensions (H x W x D)	17.9 inches (45.5 cm) x 8.3 inches (21.0 cm) x 20.7 inches (52.5 cm)
Power	600 watts
Monitors	HP L1755 17 inch flat panel, HP L1955 19 inch flat panel, HP LP2065 20.1 inch flat panel, HP L2335 23 inch flat panel
Warranty	Basic 3 years next business day, parts, labor, and 8x5 phone support; terms and conditions may vary, certain restrictions apply

i An EM64T enabled workstation should provide leading performance for many 32-bit applications. Although not all 32-bit applications may run as normal when you decide to change to a 64-bit operating system, many will, providing excellent flexibility. It is advised to pre-test your applications by visiting Microsoft's 64-bit 120 day free trial before you order EM64T (www.microsoft.com/windowsxp/64bit/evaluation/trial.mspx). EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel 64-bit processor will not operate (including 32-bit operation) without a 64-bit enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information including details on which processors support Intel EM64T or consult with your system vendor for more information.

ii Hyper-Threading (HT) Technology requires a computer system with an Intel Xeon processor supporting HT Technology and an HT Technology enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. See <http://www.intel.com/info/hyperthreading/> for more information including details on which processors support HT Technology.

iii 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.

iv SATA 3 Gb/s drives perform as SATA 1.5 Gb/s using integrated controller, Native Command Queuing (NCQ) is not enabled

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

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