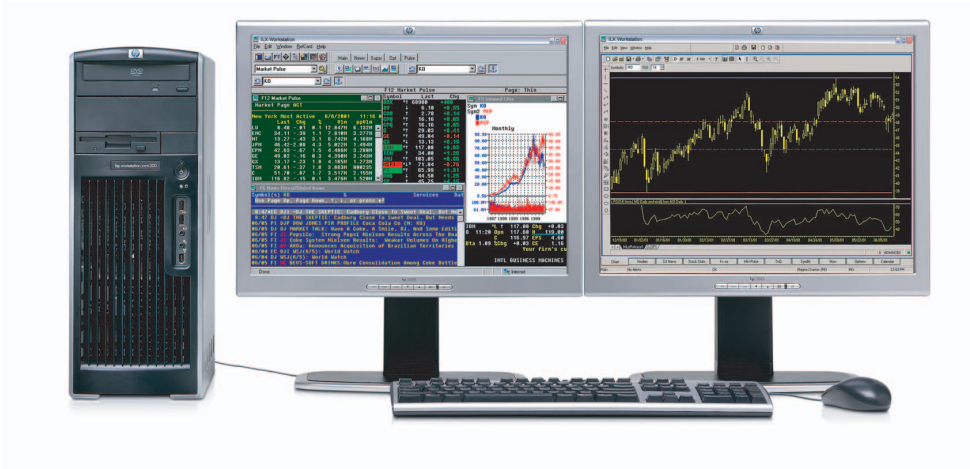
HP xw6200 Workstation



HP recommends Microsoft® Windows® XP Professional

Limited space? Big computing demands? With the HP xw6200, HP delivers a scalable, expandable, dual-processing workstation in an industry-leading small package. Designed for demanding, space-constrained environments, the HP xw6200 features the latest Intel® Xeon™ technology, for the power to crank through massive amounts of real-time data uninterrupted. A tool-less chassis design allows easy access for service or upgrades. The HP xw6200 provides the financial analyst, engineer, or designer a wide range of ISV-certified 3D & 2D PCI Express graphics solutions and storage choices.

Features

- **Get the highest performance Intel technology available on a personal workstation:** Intel's E7525 next generation, 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 PC3200 DDR2 400 MHz SDRAM memory subsystem. New Intel Xeon processors have more than doubled the cache of previous Xeon systems (up to 2 MB) putting increased power and efficiency behind demanding applications.
- **Save space—service conveniently:** One of the smallest dual-processor form factors in the industry, the HP xw6200 fits neatly into cramped workspaces such as financial traders' desks. The new tool-less chassis design eases servicing, upgrading, and maintenance.
- **View 8 monitors simultaneously:** The HP xw6200 supports up to 8 monitors, allowing visualization of huge amounts of data from multiple sources while lessening the need to toggle between applications on screens.
- **Expand memory capacity to handle large and complex data sets:** Large memory configurations (up to 8 GB) can be built for applications that take advantage of additional memory.
- **Accommodate today and tomorrow's application demands:** HP xw6200 supports Extended Memory 64-bit Technology (EM64T), extending the address space to a maximum of 16 TB virtual memory and allowing the design and manipulation of huge data sets or models. 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).
- **Enable advanced high-performance visualization:** The PCI Express (PCIe) x16 graphics interface provides four times the total peak bandwidth and two times the unidirectional bandwidth of AGP 8X graphics.
- **Significantly increase bandwidth with one slot for PCI Express x4 I/O:** The next-generation I/O interface increases bandwidth 1 GB/s (unidirectional) and 2 GB/s (bidirectional). Cards plugging into the interface no longer share data bandwidth with other cards.
- **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**

Expansive power for constrained spaces

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Form factor	Rackable minitower
Supported 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® WS3, or HP Installer Kit for Linux (includes 32-bit and 64-bit drivers)
Processor	One or two 64-bit Intel® Xeon™ processor(s)[i] with Hyper-Threading Technology[ii] at 2.8, 3.0, 3.2, 3.4, and 3.6 GHz with 1 MB L2 cache, or 2.8, 3.0, 3.2, 3.4, 3.6 and 3.8 GHz with 2 MB L2 cache, all support 800 MHz Front Side Bus
Chipset	Intel E7525 (supports 800 MHz Front Side Bus)
Memory	Up to 8 GB of Registered ECC DDR2 400 MHz SDRAM (4 DIMMs in 2 pairs, dual-channel architecture)
Expansion bays	2 external 5.25 inch bays, 2 internal 3.5 inch bays, 1 external 3.5 inch bay with optional floppy
Drive controllers	Integrated dual channel SATA 1.5 Gb/s controller with RAID 0 or 1[iii], opt. single channel Ultra320 SCSI controller, opt. single channel Ultra320 SCSI controller with RAID 0, 1, 10, 5 capability, opt. 4 channel SATA 3 Gb/s RAID controller
Hard drive(s)	Up to 2 SATA drives, 1 TB max.; 250, 400 GB (7200 rpm) SATA 1.5 Gb/s or 74 GB (10,000 rpm) SATA 1.5 Gb/s, or 80, 250 GB (7200 rpm) SATA 3 Gb/s[v] or 160, 500 GB (7200 rpm) SATA 3 Gb/s NCQ[v] Up to 3* Ultra320 SCSI drives, 900 GB max.; 73, 146, 300 GB (10K rpm) or 36, 73 GB (15K rpm) * Using one external 5.25 inch drive bay
Removable media	48X CD-ROM, 48X CD-RW, 16X DVD-ROM, 48X CD-RW/DVD combo, 16X DVD+/-RW DL LightScribe Disc Labeling (Microsoft Windows 2000 & XP only, requires LightScribe media for labeling)
Expansion slots	6 slots: 1 PCIe x16 graphics slot, 1 PCIe x8 mechanically (x4 electrically), and 4 legacy PCI slots
Graphics	Professional 2D: NVIDIA Quadro NVS 280 (PCI or PCIe), Quadro NVS 400 (PCI), Quadro NVS 285 with NVIDIA TurboCache technology (PCIe) Entry 3D: ATI FireGL V3100 (PCIe), NVIDIA Quadro FX 540 (PCIe) Midrange 3D: NVIDIA Quadro FX 1400 (PCIe), ATI FireGL V5100 (PCIe) High-end 3D: NVIDIA Quadro FX 3450 (PCIe)
Audio	Integrated AC'97/16-bit stereo full-duplex, opt. SoundBlaster Audigy 2-ZS (PCI), opt. SoundBlaster X-Fi XtremeMusic (PCI)
I/O ports and connectors	Front: Headphone, microphone, and 2 USB 2.0, 1 IEEE 1394 (requires PCI card to enable functionality) 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 mic in
Communications	Integrated Broadcom 5751 Gigabit LAN with PCIe interface, opt. Broadcom 5782 Gigabit NIC (PCI) with failover support, opt. Broadcom 5751 Gigabit NIC (PCIe) with failover support
Power supply	500 watts
Input devices	USB or PS/2 keyboard; choice of 2-button scroll mouse (optical or mechanical); 3-button mouse (optical or mechanical); USB SpaceBall, USB SpacePilot
Dimensions (h × w × d)	17.35 inches (44.1 cm) × 6.5 inches (16.5 cm) × 17.32 inches (44.0 cm)
Weight	Min. configuration: 15 kg (33 lbs); Max. configuration: 19 kg (42 lbs)
Monitors	HP L1755 17 inch flat panel, HP L1955 19 inch flat panel, HP L2035 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] Intel 64-bit 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 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.

[v] SATA 3 Gb/s drives require optional SATA 3 Gb/s controller, which has an expected availability of December 2005, for full performance and (if supported by drive) Native Command Queuing (NCQ), otherwise they perform like SATA 1.5 Gb/s drives with the integrated SATA 1.5 Gb/s controller

Screen image courtesy of ILX.

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

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