

# HP Workstation xw8200



**HP recommends Microsoft® Windows® XP Professional for Business**

The HP Workstations xw8200 will satisfy your insatiable demand for performance and expandability. Combining the latest processing and I/O power from Intel, new graphics technology from leading graphics providers, the HP xw8200 delivers top-of-the-line dual-processing performance, large computational and visualization capacity, expandability, and HP's renowned reliability. The HP xw8200 features Intel® Extended Memory 64 Technology, which will greatly expand addressable memory space. A broad range of ISV-certified 3D and 2D PCI Express graphics solutions are available, along with operating system choices to best fit your requirements. The HP Workstation xw8200 is intelligently engineered to meet your present and future business demands.

## 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 SDRAM memory subsystem. Xeon processors have double the cache (1 MB), 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 PCI Express, 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 on future Microsoft Windows XP Professional 64-bit edition.

## • Accommodate today and tomorrow's application demands:

Intel Extended Memory 64 technology (EM64T) expands addressable memory space to 256 TB, aiding in the design and manipulation of huge data sets or models. This enhancement to Intel's processor portfolio should provide an easy transition path from 32-bit to 64-bit computing, enabling 32-bit applications to run at full performance on an architecture also capable of supporting 64-bit operating systems and applications.

HP provides 64-bit support -today- for Red Hat Enterprise Linux WS3. HP's 20+ years of developing both 64-bit systems and operating systems and close collaboration with independent software vendors (ISVs) allow us to deliver highly tuned, stable, and certified platforms with the latest technology available.

- **Enable advanced high-performance visualization:** The PCI Express (x16) graphics interface provides four times the total peak bandwidth and two times the unidirectional bandwidth of AGP 8X graphics. The HP Leadership Graphics Program offers a wide range of graphics choices for applications that are fully supported on the HP xw8200 platform.
- **Choose your preferred operating system:** HP offers choices. The HP xw8200 comes with your choice of preinstalled Microsoft® Windows® XP Professional, Red Hat Enterprise Linux® WS3 (available in Summer, 2004), or the HP Installer Kit for Linux. The HP xw8200 also supports Microsoft Windows 2000 Professional.
- **Custom configure your workstation to your requirements:** The HP Performance Tuning Framework will guide your system setup, allowing a "custom" configuration that best matches the workstation to user requirements. This customization facilitates availability of the latest graphics cards and drivers and removes some memory constraints. For more information, go to: [www.hp.com/go/framework](http://www.hp.com/go/framework)

Top-of-the-line dual processing Personal Workstation.



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<b>Form factor</b>	Rackable minitower
<b>Supported operating systems</b>	Preinstalled Microsoft® Windows® XP Professional; Microsoft Windows 2000 Professional supported Preinstalled Red Hat Enterprise Linux® WS3 <sup>i</sup> ; HP Installer Kit for Linux
<b>Processor</b>	One or two Intel® Xeon™ processor(s) at 2.8, 3.2, 3.4, and 3.6 GHz with 1 MB L2 cache, Intel Extended Memory 64 technology and Hyper-Threading Technology <sup>ii</sup>
<b>Front side bus</b>	800 MHz
<b>Chipset</b>	Intel E7525 chipset
<b>Memory</b>	Up to 16 GB* of Registered ECC DDR-2 400 MHz SDRAM
<b>Expansion bays</b>	3 external 5.25 inch bays, 5 internal 3.5 inch bays
<b>Drive controllers</b>	Integrated dual channel SATA/150 controller with RAID (0 or 1) capability, integrated dual channel Ultra320 SCSI controller with RAID (0 or 1) capability, optional 4 channel SATA controller with RAID (0 or 1) capability, optional single channel Ultra320 SCSI controller with RAID (0, 1, 01, 5) capability
<b>Hard drive(s)</b>	Up to 4 SATA drives, 1.2 TB max.; 40, 80, 160, 250, 300 <sup>iii</sup> GB (7200 rpm) or 36, 74 GB (10k rpm) Up to 5 Ultra320 SCSI drives, 1.5 TB max.; 73, 300 <sup>iii</sup> GB (10K rpm) or 36, 73, 146 <sup>iii</sup> GB (15k rpm)
<b>Removable media</b>	48X CD-ROM, 48X CD-RW, 16X DVD-ROM, 48X CD-RW/DVD combo, 8X DVD+RW
<b>Expansion slots</b>	7 slots: 1 PCI Express (x16) Graphics slot, 1 PCI Express (x8 mechanical, x4 electrical), 1 133MHz PCI-X slot, 2 100 MHz PCI-X slots, and 2 legacy PCI slots
<b>Graphics</b>	Professional 2D: NVIDIA NVS 280 (PCI), NVIDIA NVS 280 (PCI-E) Entry 3D: NVIDIA Quadro FX 330 (PCI-E), ATI FireGL V3100 (PCI-E) Midrange 3D: NVIDIA Quadro FX 1300 (PCI-E), ATI FireGL v5100 (PCI-E) <sup>iii</sup> High-end 3D: NVIDIA Quadro FX 3400 (PCI-E) <sup>i</sup>
<b>Audio</b>	Integrated AC'97/16-bit stereo full-duplex, optional SoundBlaster Audigy 2-ZS PCI
<b>I/O ports and connectors</b>	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
<b>Communications</b>	Integrated Intel Pro MT 10/100/1000 LAN, optional Intel Pro MT PCI NIC, optional Intel Pro XT PCI-X NIC, optional Broadcom Gbit PCI NIC
<b>Power supply</b>	600 watts
<b>Security</b>	Standard, side cover key lock, USB ports can be deactivated, padlock loop, Kensington lock provision, universal chassis clamp lock, chassis intrusion sensor
<b>Input devices</b>	USB or PS/2 keyboard; choice of 2-button scroll mouse (optical or mechanical); 3-button mouse (optical or mechanical); USB Spaceball
<b>Dimensions (h x w x d)</b>	45.5 cm (17.9 inches) x 21.0 cm (8.3 inches) x 52.5 cm (20.7 inches)
<b>Weight</b>	Minimum configuration: 19 kg (42 lbs) Maximum configuration: 24 kg (54 lbs)
<b>Monitors</b>	HP P1230 22 inch CRT, HP L1925 19 inch flat panel, HP L2035 20.1 inch flat panel, HP L2335 23 inch flat panel
<b>Warranty</b>	Parts, labor, and onsite service (3-3-3 worldwide); 24 x 7 telephone support; terms and conditions may vary, certain restrictions apply

<sup>i</sup> Available August 2004.

<sup>ii</sup> Hyper-Threading (HT) Technology requires a computer system with an Intel Pentium 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.

<sup>iii</sup> Available September 2004.

\* When 2 GB DIMMs become available in October 2004.

Screen image courtesy of CMS, Inc.

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For more information, visit [www.hp.com/go/workstations](http://www.hp.com/go/workstations)

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