The HP xw6400 is distinguished by what has been taken away-size, power demands, heat and noise—making this new mid-range workstation the ideal solution for space- and power-constrained environments. Added is Intel’s new dual processor, quad-core\(^1\) technology and the next-generation Intel chipset, delivering the performance you need today with the expandability and flexibility for adapting to tomorrow. Focused on specific customer requirements, the HP xw6400 Workstation’s innovative, tool-less chassis was designed for small spaces.

**A choice of operating environment**

The HP xw6400 is available with preinstalled genuine Windows\(^\circledR\) XP Professional (32- or 64-bit), as well as Windows Vista\(^\circledR\) Business (32- or 64-bit).

It also supports Red Hat Enterprise Linux WS 4 (64 bit). The HP Installer Kit for Linux is available to ease installation and help create a custom operating system image. The preinstalled HP Performance Tuning Framework (PTF)\(^2\) and HP Cool Tools help ease implementation and increase productivity.

We also offer 32-bit or 64-bit Red Hat Linux, either pre-installed or through our HP Installer Kit for Linux, which ensures you have all the tested drivers you need for the install.

**Meet the challenges of a 64-bit world**

The HP xw6400 delivers the new Quad-Core\(^1\) Intel\(^\circledR\) Xeon\(^\circledR\) Processor 5300 Sequence and Dual-Core\(^1\) Intel Xeon Processor 5100 Sequence for the high performance and expandability you need in a midrange personal workstation. Intel’s 5000X next-generation, high-end performance chipset for Intel Xeon processors supports 1,333 MHz dual system bus\(^3\), and a 4 channel 667 MHz Fully Buffered DIMM (FBDIMM) memory subsystem, providing substantial improvement in throughput over previous Intel\(^\circledR\) chipset technology.

Supporting up to three internal hard disk drives, two optical disks, four PCI Express (PCIe) I/O slots, and two legacy PCI slots, the HP xw6400 delivers the capacity to handle large and complex data sets. With 4 GB DIMMs, the HP xw6400 can achieve configurations supporting applications that take advantage of up to 16 GB of memory to better accommodate our evolving 64-bit world.

**Big innovations in a small package**

With one of the smallest dual-processor form factors in the industry, the HP xw6400 Workstation fits neatly into cramped workspaces. Industry-leading, tool-less chassis design eases servicing, upgrading and maintenance.

The HP xw6400 supports up to eight monitors, allowing visualization of huge amounts of data from multiple sources with less need to toggle between applications. From Professional 2D through high-end 3D graphics, the HP xw6400 delivers the visual accuracy and image clarity your job demands. Strong relationships with application providers and graphics card vendors provide reliable, industry-standard, optimal solutions.
**Form factor**
Rackable minitower

**Operating systems**
Genuine Windows® XP Professional 32-bit
Genuine Windows® XP Professional x64
Genuine Windows Vista™ Business 32-bit
Genuine Windows Vista™ Business 64-bit
Enterprise Linux™ WS 4 64-bit
HP Installer Kit for Linux (includes drivers for both 32-bit & 64-bit OS versions of Red Hat Enterprise Linux 3 and 4)
Certified on Novell Linux Desktop 9

**Available processors**
One or two Quad-Core™ Intel® Xeon® Processor 5300 Sequence (8 MB total L2 cache) per processor (2 x 4 MB shared):
1.60 GHz/1066 MHz FSB¹, 1.86 GHz/1066 MHz FSB¹,
2.00 GHz/1333 MHz FSB¹, 2.33 GHz/1333 MHz FSB¹

One or two Dual-Core™ Intel Xeon Processor 5100 Sequence (4 MB shared L2 cache per processor):
1.60 GHz/1066 MHz FSB¹, 1.86 GHz/1066 MHz FSB¹,
2.00 GHz/1333 MHz FSB¹, 2.33 GHz/1333 MHz FSB¹,
2.66 GHz/1333 MHz FSB¹,
3.00 GHz/1333 MHz FSB¹

**Chipset**
Intel 5000X

**Memory**
Up to 16 GB of ECC registered 4-channel DDR2 667 MHz fully buffered DIMMs via 4 GB DIMMs in 4 DIMM slots

**Drive controllers**
Integrated quad channel SATA 3 Gb/s controller with RAID 0 or 1 capability

**Hard drive(s)**
Up to 3 SATA drives *, 2.25 TB max.;
80 GB² (7200 rpm) SATA 3 Gb/s, or 160, 250, 500, 750 GB² (7200 rpm) SATA 3 Gb/s NCQ; 80, 160 GB² (10K rpm) SATA 1.5 Gb/s NCQ; Up to 3 Serial Attached SCSI (SAS) drives**, 900 GB² max.; 146, 300 GB² (10K rpm) or 73, 146, 300 GB² (15K rpm)**
*Two 3.5-inch drive bays standard, third drive requires one external 5.25-inch drive bay.
**Optional SAS controller required.

**Optical drives**
CD-ROM, DVD-ROM, CD-RW/DVD combo, SATA CD-RW/DVD combo, DVD+/-RW DL with LightScribe Direct Disc Labeling (Microsoft Windows XP Professional only, requires LightScribe media for labeling), SATA DVD+/-RW Multi

**Drive bays**
2 external 5.25-inch bays, 2 internal 3.5-inch bays, 1 external 3.5-inch bay with optional floppy

**Slots**
6 slots: 1 PCIe x16 graphics slot, 1 PCIe x16 mechanically (x4 electrically), 2 PCIe x8 mechanically (x4 electrically), and 2 legacy PCI slots

**Graphics**
Professional 2D: NVIDIA Quadro NVS 285 (128 MB, dual display & up to 2 cards supported)
NVIDIA Quadro NVS 440 (256 MB, quad display & up to 2 cards supported)
Entry 3D: NVIDIA Quadro FX 560 (128 MB), ATI FireGL V3350 (256 MB)
Mid-range 3D: NVIDIA Quadro FX 1500 (256 MB), ATI FireGL V7200 (256 MB)
High-end 3D: NVIDIA Quadro FX 3500 (256 MB), NVIDIA Quadro FX 4500 (512 MB) with opt. Quadro G-Sync card, NVIDIA Quadro FX 4600 (768 MB)

**Audio**
Integrated High Definition audio with Jack Retasking technology, opt. Sound Blaster X-Fi XtremeMusic

**Network**
Integrated Broadcom 5752 Gigabit8 PCIe LAN on Motherboard, opt. Broadcom 5753 Gigabit8 PCIe NIC

**Ports**
Front: 2 USB 2.0, 1 IEEE 1394 (requires PCI card to enable functionality), 1 audio line out, 1 microphone line in
Rear: 5 USB 2.0, 1 standard serial port, 1 parallel port, PS/2 keyboard and mouse, 1 RJ-45, audio line in, audio line out, 1 microphone line in
Internal: 1 USB 2.0 (requires optional "Internal USB Kit" for connecting USB device)

**Input devices**
PS/2 Scroll Mouse; USB Optical Scroll Mouse; USB 3-Button Optical Mouse; USB SpaceMouse; USB SpaceBall; USB Space Pilot

**Dimensions (H x W x D)**
17.3 in (44.1 cm) x 6.5 in (16.5 cm) x 17.3 in (44.1 cm)

**Power**
575 watts, active Power Factor Correction

**Monitors**
19-inch HP LP1965 Flat Panel Monitor, 20.1-inch HP LP2065 Flat Panel Monitor, 24-inch HP LP2465 Flat Panel Monitor, 30-inch HP LP3065 Flat Panel Monitor

**Warranty**
Basic three years next business day, parts, labor, and 8x5 phone support; terms and conditions may vary, certain restrictions apply.

Certain Windows Vista product features require advanced or additional hardware. For more information, visit www.hp.com/go/workstations

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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.

¹ PT1 preinstalled on HP xw6400 with Microsoft Windows XP Professional.
² Actual bus speed is less. Listed bus speed represents the equivalent effective throughput for data
³ GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance.
⁴ 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.
⁵ One or two Quad-Core® Intel Xeon Processor 5300 Sequence (8 MB total L2 cache per processor): 1.60 GHz/1066 MHz FSB, 1.86 GHz/1066 MHz FSB,
2.00 GHz/1333 MHz FSB, 2.33 GHz/1333 MHz FSB, 2.66 GHz/1333 MHz FSB,
3.00 GHz/1333 MHz FSB
⁶ 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.
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