Combining next-generation performance technologies into a powerful, flexible, and reliable single processor socket workstation, the HP xw4600 Workstation is designed and engineered to give you and your business a professional edge.

Decidedly powerful
Gain a productivity advantage and accomplish more in less time with outstanding price/performance from this affordable workstation solution:

• Intel® X38 Express performance chipset with ECC memory support and workstation-class Dual and Quad-Core Intel processors
• Dual PCIe x16 Gen2 graphics interfaces with up to twice the performance bandwidth of previous generation interfaces
• Professional 2D and 3D graphics cards drive up to four 3D or six 2D displays without compromise
• Realize savings in power consumption and energy costs with an 80 PLUS efficient power supply and ENERGY STAR® qualified options

Inherently flexible
Maximize your financial investment and meet the increasingly demanding requirements of graphics and other data-intensive professional applications such as mechanical design, digital content creation, or video editing and more:

• Flexible, workstation-class options and expandability and support for up to 8 GB of ECC memory
• More ports and expandability than before simplify adding memory, peripherals, and storage as your future requirements change
• Tool-less chassis design enables simple serviceability
• Optional HP Remote Graphics Software helps make your work life easier by enabling real-time remote connections over a network

Exceedingly reliable
Focus on your priorities and work with true confidence with the comprehensive support of HP and its global partner network backing your system.

• HP engineers work onsite with ISVs to test and certify applications, OS, and hardware configurations to help ensure that applications run better, faster and with greater reliability
• HP Performance Tuning Framework (available free on Microsoft® Windows®-based systems) helps you optimize and deliver the highest levels of system performance and application power throughout the life of your HP Workstation

HP recommends Windows Vista® Business
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Form factor: Convertible minitower

Operating systems:
- Genuine Windows Vista® Business 32-bit*
- Genuine Windows Vista® Business 64-bit*
- Genuine Windows Vista® Business 32-bit with downgrade to Windows® XP Professional 32-bit custom installed**
- Genuine Windows Vista® Business 64-bit with downgrade to Windows® XP Professional x64 custom installed**
- Genuine Windows Vista® Home Basic 32-bit**
- HP Installer Kit for Linux (includes drivers for both 32-bit & 64-bit OS versions of Red Hat Enterprise Linux WS4 and WS5)
- Novell Suse SLED 11

Available processors:
- Dual-Core1 Intel® Pentium® processor E2180/3/2.00 GHz, 1 MB L2 cache, 800 MHz FSB
- Intel Core 2 Duo™ E7200/3/1.60 GHz, 1 MB L2 cache, 800 MHz FSB
- Intel Core 2 Duo™ E8300/3/2.83 GHz, 6 MB L2 cache, 1333 MHz FSB
- Intel Core 2 Duo™ E8400/3/3.00 GHz, 6 MB L2 cache, 1333 MHz FSB
- Intel Core 2 Duo™ E8500/3/3.16 GHz, 6 MB L2 cache, 1333 MHz FSB
- Intel Core 2 Quad™ Q6600/3/3.33 GHz, 6 MB L2 cache, 1333 MHz FSB
- Intel Core 2 Quad™ Q9300/3/2.50 GHz, 6 MB shared L2 cache, 1066 MHz FSB
- Intel Core 2 Quad™ Q9400/3/2.66 GHz, 6 MB shared L2 cache, 1333 MHz FSB
- Intel Core 2 Quad™ Q9550/3/2.83 GHz, 12 MB shared L2 cache, 1333 MHz FSB
- Intel Core 2 Quad™ Q9650/3/3.00 GHz, 12 MB shared L2 cache, 1333 MHz FSB

Chipset:
- Intel X38 Express chipset

Memory:
- Up to 8 GB DDR2 800 MHz ECC, 4 DIMM slots

Hard drive(s):
- Up to 4 drives (will require optional expander kit), 4 TB max.; 80, 160 GB (10k rpm) SATA 1.5 Gb/s; or 300 GB (10k rpm) SATA 3.0 Gb/s NCQ; or 80, 160, 250, 500 GB, or 1 TB (7200 rpm) SATA 3 Gb/s NCQ or 73, 146, 300, 450 GB (15k rpm) SAS 3 Gb/s

Optical drives:
- DVD-ROM (SATA); DVD+/-RW Double Layer SuperMulti (SATA) with LightScribe Direct Disc Labeling (Microsoft Windows only, requires LightScribe media for labeling)*; 16-in-1 Media Card Reader (occupies lowest Optical Bay)

Drive bays:
- 3 external 5.25-inch bays (opt. CRU) drive enclosure enables 3.5-inch SATA hard drive to be added to 5.25-inch bay, not available in all regions)
- 2 internal 3.5-inch bays, 1 external 3.5-inch bay

Slots:
- 7 full length slots: PCI Express (PCIe) x16 Gen 2 graphics, 1 PCIe x8 (x4 electrical) slot, 1 PCIe x1 slot, 3 PCI slots

Graphics:
- Professional 2D: NVIDIA Quadro NVS 290 (256 MB, up to two cards) and NVIDIA Quadro NVS 450 (512 MB, can be used in dual configuration with NVS 290)
- Entry 3D: NVIDIA Quadro FX 370 (256 MB, up to two cards), NVIDIA Quadro FX 570 (256 MB, up to two cards), and ATI FirePro V3700 (256 MB, up to two cards)
- Mid-range 3D: ATI FireGL V5700 (512 MB, up to two cards), and NVIDIA Quadro FX 1700 (512 MB, up to two cards)
- High-end 3D: NVIDIA Quadro FX 3700 (512 MB, ATI FireGL V7750 (1 GB), NVIDIA Quadro FX 4600 (768 MB), NVIDIA Quadro FX 4800 (1.5 GB), and NVIDIA Quadro CX (1.5 GB)

Audio:
- Integrated high definition audio with jack retasking capability, opt. PCI Sound Blaster X-Fi XtremeGamer, opt. HP Thin USB Powered Speakers

Network:
- Integrated Broadcom 5755S NetXtreme Gigabit™ PCIe, opt. Broadcom 5751 NetXtreme Gigabit™ PCIe

Ports:
- Front: 2 USB 2.0, 1 headphone, 1 microphone, IEEE 1394 (optional)
- Rear: 7 USB 2.0, 1 standard serial port (opt. 2-1), 1 parallel, 2 PS/2, 1 external SATA 1.5 Gb/s, 1 RJ-45 to integrated Gigabit LAN, audio in, audio out, microphone
- Internal: 3 USB 2.0

Input devices:
- PS/2 standard keyboard, USB standard keyboard, USB Smart Card Keyboard, USB 2.0 optical scroll mouse, USB 3-button optical mouse; USB SpaceExplorer, USB SpacePilot, USB Laser Scroll Mouse

Dimensions (H x W x D):
- 17.7 in (44.9cm) x 6.7 in (17.0cm) x 18.0 in (45.7 cm)

Power supply:
- 475W, active Power Factor Correction

Compliance and regulatory:
- 80 PLUS efficient; ENERGY STAR® qualified configurations

Monitors (diagonally measured):
- HP LP1965 19-inch LCD Monitor; HP LP2065 20-inch LCD Monitor; HP LP2275w 22-inch Widescreen LCD Monitor; HP EB416 24-inch widescreen LCD Monitor; HP 2240a 24-inch widescreen LCD Monitor (Vista)
- HP 2459w 24-inch WideScreen LCD Monitor (Vista)
- HP 2459w 24-inch WideScreen LCD Monitor

Warranty:
- Limited three-year next business day business, parts, labor and 8x5 phone support; Terms and conditions may vary, certain restrictions apply. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Service Lookup Tool at http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at http://www.hp.com/hpcc/pack.