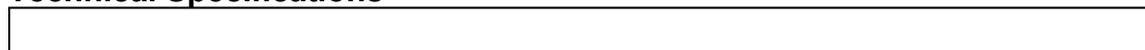## PS955AV - HP xw8400 Base Model Workstation

Summary

Bringing powerful, intelligently engineered workstations to power users who demand IT that performs – with uncompromising graphics and speed. HP Workstations are easy-to-buy, quick-to-deploy and simple-to-maintain solutions that support businesses, grow with complex needs and anticipate challenges.

Related products

Key Features

- Equipped with the new Dual-Core EM64T Intel® Xeon® Processor 5100 Sequence, the HP xw8400 offers all the performance and expandability you could possibly need. Intel's 5000X next-generation, high-end performance chipset for Intel Xeon™ processors supports 1,333 MHz dual system bus, and a 4 channel 667 MHz Fully Buffered DIMM memory subsystem. So you can experience substantial improvement in throughput over previous Intel® chipset technology.
- The HP xw8400 implements 8 memory DIMM slots, and with 4 GB DIMMs can achieve the largest memory configuration supported by the Intel 5000X chipset – up to 32 GB on Linux and on Microsoft® Windows® XP Professional 64-bit edition.
- Supporting up to 5 internal hard drives, 3 optical disks, 3 PCI Express (PCIe) I/O slots, 3 PCI-X, and 1 legacy PCI slot, the HP xw8400 provides the hard disk space, I/O expandability, and performance needed in the most demanding work environments.
- A full range of the latest professional graphics solutions delivers the visual accuracy, image clarity and exceptional performance your business demands – from professional 2D through to high-end 3D.
- The HP xw8400 is available with your choice of preinstalled Microsoft Windows XP Professional (32- or 64-bit) or Red Hat Enterprise Linux® WS 4 (64- bit). The HP Installer Kit for Linux is also available to ease installation and help create a custom operating system image while keeping HP as your single point of support. HP Performance Tuning Framework preinstalled on xw8400 is an easy-to-use tool that guides workstation setup and custom configuration to help increase performance of selected applications and overall productivity.

Technical Specifications

Audio

Audio	Integrated High Definition audio with Jack Retasking technology, optional PCI Sound Blaster X-Fi Xtreme Music
Internal audio	Integrated High Definition audio with Jack Retasking technology, optional PCI Sound Blaster X-Fi Xtreme Music

Displays

Display	HP L2465 24in Flat Panel Monitor, HP L2065 20.1in Flat Panel Monitor, HP L1955 19.1in Flat Panel Monitor (all sold separately)
Display features	HP L2465 24in Flat Panel Monitor, HP L2065 20.1in Flat Panel Monitor, HP L1955 19.1in Flat Panel Monitor (all sold separately)

Expansion slots

Expansion slot	7 slots: 1 PCI Express (x16) Graphics slot, 1 PCI Express (x16 mechanically, x4 electrically), 1 PCI Express (x8 mechanically, x4 electrically), 1 133 MHz PCI-X slot, 2 100 MHz PCI-X slots, and 1 legacy PCI slot
Expansion slots	7 slots: 1 PCI Express (x16) Graphics slot, 1 PCI Express (x16 mechanically, x4 electrically), 1 PCI Express (x8 mechanically, x4 electrically), 1 133 MHz PCI-X slot, 2 100 MHz PCI-X slots, and 1 legacy PCI slot

Input devices

Keyboard	HP Standard Keyboard (USB or PS/2)
Pointing device	Choice of 2-button scroll mouse (USB optical or PS/2 mechanical); 3-button mouse (USB optical); USB SpaceMouse; USB SpaceBall, USB SpacePilot

Memory

Memory type	DDR-2 667MHz ECC
Memory type	DDR-2 667 MHz ECC registered 4 channel Fully Buffered DIMMS
Maximum memory	Up to 32 GB
Memory slots	8 DIMM slots
Memory slots	8 DIMM slots

Memory upgrade	Up to 32 GB
Cache	4 MB L2 cache per processor
Networking	
Network interface	Integrated Broadcom 5752 Netxtreme Gigabit PCIe LAN on motherboard, optional Broadcom 5751 Gigabit PCIe NIC
Network interface	Integrated Broadcom 5752 Netxtreme Gigabit PCIe LAN on motherboard, optional Broadcom 5751 Gigabit PCIe NIC
Ports	
I/O port	Front: Headphone, microphone, and 2 USB 2.0, 1 IEEE 1394; Rear: 5 USB 2.0, 1 standard serial port, 1 parallel port, PS/2 keyboard and mouse, 1 RJ-45, 1 audio in, 1 audio out, 1 IEEE 1394; Internal: 1 USB 2.0
External I/O ports	Front: Headphone, microphone, and 2 USB 2.0, 1 IEEE 1394; Rear: 5 USB 2.0, 1 standard serial port, 1 parallel port, PS/2 keyboard and mouse, 1 RJ-45, 1 audio in, 1 audio out, 1 IEEE 1394; Internal: 1 USB 2.0
Power	
Power requirements	800 watts
Power requirements	800 watts
Processor	
Chipset	Intel® 5000X
Chipset	Intel® 5000X
Software	
Operating system software 01	Genuine Windows XP Professional Genuine Windows XP Professional x64 Edition Red Hat Enterprise Linux WS 4 (32/64-bit) HP Installer Kit for Linux Optional Red Hat Enterprise Linux® WS 3 (32/64-bit)
Operating system software	Genuine Windows XP Professional Genuine Windows XP Professional x64 Edition Red Hat Enterprise Linux WS 4 (32/64-bit)

02	HP Installer Kit for Linux Optional Red Hat Enterprise Linux® WS 3 (32/64-bit)
Operating system software 03	Genuine Windows XP Professional Genuine Windows XP Professional x64 Edition Red Hat Enterprise Linux WS 4 (32/64-bit) HP Installer Kit for Linux Optional Red Hat Enterprise Linux® WS 3 (32/64-bit)
Operating system software 04	Genuine Windows XP Professional Genuine Windows XP Professional x64 Edition Red Hat Enterprise Linux WS 4 (32/64-bit) HP Installer Kit for Linux Optional Red Hat Enterprise Linux® WS 3 (32/64-bit)
Operating system software 05	Genuine Windows XP Professional Genuine Windows XP Professional x64 Edition Red Hat Enterprise Linux WS 4 (32/64-bit) HP Installer Kit for Linux Optional Red Hat Enterprise Linux® WS 3 (32/64-bit)

Storage	
Optical drives	48X CD-ROM, 16X DVD-ROM, 48X CD-RW/DVD combo, 16X DVD+/-RW DL with LightScribe Direct Disc Labeling
Flexible disk drive	Optional floppy
Hard disk drive	Up to 5 SATA drives, 2.5 TB maximum, 80, 160, 250, 500 GB (7200 rpm) or up to 4 SAS drives, 584 GB maximum, 146 GB (10000 rpm), 73 and 146 GB (15000 rpm)
Hard disk speed	From 7200 to 15000 rpm
Disk subsystem controller	Integrated 6 channel SATA 3 Gb/s controller with RAID (0,1,5, 10) capability, integrated 4 channel SAS controller with RAID (0 or 1) capability
Internal drive bays	5 internal 3.5" bays
Internal drive bays	5 internal 3.5" bays

External drive bays	3 external 5.25" bays
External drive bays	3 external 5.25" bays

System

Chassis	Minitower, rack-mountable
Chassis type	Minitower, rack-mountable
Security management	Standard, side cover key lock, USB ports can be deactivated, padlock loop, Kensington lock provision, universal chassis clamp lock, chassis intrusion sensor
Security management	Standard, side cover key lock, USB ports can be deactivated, padlock loop, Kensington lock provision, universal chassis clamp lock, chassis intrusion sensor
Upgradability	Windows Vista® capable
System bus	Up to 1333 MHz Front Side Bus

Video

Graphic card 01	Professional 2D: NVIDIA Quadro NVS 285 (128 MB with NVIDIA TurboCache technology, dual display); Entry 3D: ATI FireGL V3300 (128 MB), NVIDIA Quadro FX 560 (128 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 PCI Express (512 MB) with Optional Quadro G-Sync card; All cards are optional and are all PCI Express
Graphic subsystem name	Professional 2D: NVIDIA Quadro NVS 285 (128 MB with NVIDIA TurboCache technology, dual display); Entry 3D: ATI FireGL V3300 (128 MB), NVIDIA Quadro FX 560 (128 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 PCI Express (512 MB) with Optional Quadro G-Sync card; All cards are optional and are all PCI Express

Environmental information

Operating humidity range	10 to 85% RH
Operating temperature	5° to 35° C

range	
Operating temperature range	5° to 35° C
Non-operating altitude	10000 m
Non-operating altitude	10000 m

Compliance information

UNSPC code	43211507

Physical information

Dimensions, metric	21.0 x 52.5 x 45.4 cm
Weight	Minimum configuration: 19.5 kg; Maximum configuration: 28 kg
Dimensions (W x D x H)	21.0 x 52.5 x45.4 cm

Legal Disclaimer
Certain Windows Vista® product features require advanced or additional hardware. See http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and http://www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista® Upgrade Advisor can help you determine which features of Windows Vista® will run on your computer. To download the tool, visit www.windowsvista.com/upgradeadvisor.

Trademark
Intel and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation in the United States and/or other countries. Linux is a U.S. registered trademark of Linus Torvalds.

 close