Engineered in close collaboration with hardware and software partners the HP xw9300 Workstation delivers the ultimate 64-bit personal workstation performance and visualization for compute-intensive environments. Supporting dual PCI Express x16 graphics and up to 2 single or dual-core AMD Opteron™ processors, the HP xw9300 meets the combined needs for computational and visualization power and I/O performance while helping to lower total cost of ownership. The HP xw9300 is ideal for scientists, engineers, designers and digital artists who have extremely complex analyses and/or advanced visualization requirements.

Implement a high-performance, power efficient architecture with complete software compatibility
The HP xw9300 Workstation is based on AMD Opteron 200 series processors delivering high-performance dual processing, with up to 4 processor cores of performance and complete Intel compatibility. AMD64® extends the address space to a maximum of 16 TB virtual memory and allows the design and manipulation of huge data sets or models.

Get superior computing performance through Direct Connect Architecture
With the AMD Direct Connect Architecture, the HP xw9300’s memory and I/O are connected directly to the CPU optimizing performance, helping to balance throughput and enable expandable I/O.

Receive unmatched workstation visualization capability
The HP xw9300 has two x16 PCI Express (PCIe) ports supporting dual, high-end graphics and SLI for NVIDIA Quadro enablement. Enabling up to 4 full-performance, 3D displays, the HP xw9300 provides cost-effective, scalable visualization capability for demanding high-performance graphics solutions such as parallel rendering or compositing.

Handle very large and complex data sets
The HP xw9300 Workstation supports up to 32 GB of system memory. That, combined with the highest levels of expandability available in a workstation, allows users to solve the toughest of problems.

Access the latest technology
The HP xw9300 is first workstation available based on NVIDIA’s nForce Professional chipset supporting dual PCIe x16 graphics and 4 Serial ATA 3 Gb/s disk interface channels facilitating exceptional performance and excellent expandability.
**Specifications**

**Form factor**
Rackable minitower

**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 Red Hat Enterprise Linux® WS 3 Update 5 (64-bit only), or HP Installer Kit for Linux (includes drivers for the 64-bit OS version)

**Available processors**
Single or dual AMD Opteron™ 200 series processors 246 (2.00 GHz), 248 (2.20 GHz), 250 (2.40 GHz), 252 (2.60 GHz), 254 (2.80 GHz), 256 (3.00 GHz); dual-core processors 270 (2.00 GHz), 275 (2.20 GHz), 280 (2.40 GHz), 285 (2.60 GHz) with AMD64 Technology® & 1.00 GHz AMD HyperTransport™ technology

**Chipset**
NVIDIA nForce Professional with AMD-8131 HyperTransport PCI-X tunnel

**Memory**
Up to 32 GB of ECC registered DDR1 400 MHz SDRAM in 8 DIMM slots, up to 12.8 GB/sec throughput

**Drive controllers**
Integrated SATA 3 Gb/s controller (4 channels) with RAID 0, 1, 0+1 capability; Integrated dual channel Ultra320 SCSI controller with opt. external connector; Opt. Ultra 320 SCSI controller – basic; Opt. Ultra 320 SCSI controller – advanced with RAID 0, 1, 10, 5, 50, JBOD capability

**Hard drive(s)**
Up to 4 SATA drives, 2 TB max.; 74 GB (10K rpm) SATA 1.5 Gb/s or 80, 250 GB (7200 rpm) SATA 3 Gb/s, 500 GB SATA 3 Gb/s NCO; or 73, 146, 300 GB (10K rpm) Ultra320 SCSI, 36, 73 or 146 GB (15K rpm) Ultra320 SCSI

**Optical drives**

**Drive bays**
3 external 5.25 inch bays (opt. StorCase enclosure enables 3.5 inch SATA drive to be added to 5.25 inch bay), 5 internal 3.5 inch bays

**Slots**
6 slots: 2 PCI Express (PCIe) x16 graphics and I/O; 3 full-height PCI-X slots (one 133 MHz, two 100 MHz slots); 1 full-length PCI slot

**Graphics**
Professional 2D: NVIDIA Quadro NVS 285 with NVIDIA TurboCache Technology (PCIe)
Entry 3D: NVIDIA Quadro FX 540
Midrange 3D: NVIDIA Quadro FX 1400; NVIDIA SLI Technology capable
High-end 3D: NVIDIA Quadro FX 3450, NVIDIA Quadro FX 4500 with opt. Quadro G-Sync card; NVIDIA SLI Technology capable

**Audio**
Integrated AC'97/16-bit stereo full-duplex, opt. SoundBlaster X-Fi XtremeMusic (PCI), opt. Sound Blaster Audigy 2 ZS (PCI)

**Network**
Integrated NVIDIA Gigabit LAN-On-Motherboard, opt. Broadcom 5751 Gigabit PCIe NIC, opt. Intel Pro GT/1000 NIC (PCI)

**Ports**
Front: 2 USB 2.0, Headphone, Microphone, IEEE 1394
Back: 4 USB 2.0, 1 standard serial port, IEEE 1394, PS/2 keyboard and mouse, 1 RJ-45 to integrated Gigabit LAN, Audio In, Audio Out, Mic In

**Input devices**
USB or PS/2 keyboard; choice of 2-button scroll mouse (optical or mechanical); USB 3-button mouse (optical); USB SpaceBall, USB SpacePilot

**Dimensions (H × W × D)**
17.9 inch (45.5 cm) x 8.3 inch (21.0 cm) x 20.7 inch (52.5 cm)

**Power**
700 watts

**Monitors**
HP L1755 17 inch flat panel, HP L1955 19 inch flat panel, HP L2065 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

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