HP Z400 Workstation
Raising the bar for entry workstations

With its revolutionary new architecture and bold new industrial design, the HP Z400 Workstation helps you accomplish more with every minute of your time and every dollar of your investment.

HP recommends Windows® 7.

Work smarter: run more tasks, processes and applications simultaneously with a workstation that brings together and optimizes the latest processors, memory, graphics and storage technologies.

Updated design: with a smart new chassis, quiet acoustics and optional liquid cooling that makes the system even quieter at heavy loads, the HP Z400 showcases HP innovation—inside and out.

Designed with the environment in mind: minimize power and cooling costs with ENERGY STAR® qualified systems featuring 85% efficient power supplies and an HP-developed energy-saving feature that helps lower energy consumption in off mode.

Do more every minute: take on bigger challenges with the new Intel® QuickPath Interconnect architecture and your choice of the latest dual- or quad-core Intel® Xeon® processors [1].

Latest graphics: drive four 3D or six 2D displays with the newest professional graphics options from ATI and NVIDIA.

Simple to service: the tool-less chassis and uncluttered internal design simplify access and service for adding or changing components quickly.

Everybody On

SPECIFICATIONS

Form Factor	Convertible minitower
Operating system	Genuine Windows® 7 Professional 32 Genuine Windows® 7 Professional 64 Genuine Windows® 7 Ultimate 64 Novell Suse SLED 11 Linux Red Hat Enterprise Linux WS 5 (drop-in-the-box only) HP Installer Kit for Linux HP Linux Installer Kit includes drivers for both 32-bit & 64-bit OS versions of Red Hat Enterprise Linux WS4 and WS5. Red Hat Enterprise Linux WS5: Software is not loaded on hard drive. URL and software license number for downloading latest version is included in box.
Processor	Intel® Xeon® Six-Core W3690 (3.46 GHZ, 12 MB cache, 1333 MHz memory); Intel® Xeon® Six-Core Processor W3680 (3.33 GHz, 12 MB cache, 1333 MHz memory); Intel® Xeon® Six-Core Processor W3670 (3.20 GHz, 12 MB cache, 1333 MHz memory); Intel® Xeon® Quad-Core Processor W3580 (3.33 GHz, 8 MB cache, 1333 MHz memory); Intel® Xeon® Quad-Core Processor W3565 (3.20 GHz, 8 MB cache, 1066 MHz memory); Intel® Xeon® Quad-Core Processor W3550 (3.06 GHz, 8 MB cache, 1066 MHz memory); Intel® Xeon® Quad-Core Processor W3520 (2.66 GHz, 8 MB cache, 1066 MHz memory); Intel® Xeon® Dual-Core Processor W3505 (2.53 GHz, 4 MB cache, 1066 MHz memory); Intel® Xeon® Dual-Core Processor W3503 (2.40 GHz, 4 MB cache, 1066 MHz memory)
Chipset	Intel® X58 Express
Memory	DDR3 1333 MHz ECC Unbuffered DIMMs
Internal Storage	SATA (7200 rpm) 160 GB up to 2 TB SATA (10000 rpm) 160 GB up to 300 GB SAS (15000 rpm) 300 GB up to 600 GB SATA Solid State Drive up to 160 GB Integrated SATA 3.0 Gb/s with RAID 0, 1, 10, 5 support. LSI 8888ELP 8-port SAS RAID (optional); LSI MegaRAID 9260-8i SAS 6Gb/s ROC RAID and iBBU08 Battery Backup Unit;
Removable media	HP SATA DVD-ROM Drive, HP SATA DVD+/-RW Drive, HP SATA Blu-Ray Writer
Graphics	Professional 2D, NVIDIA Quadro NVS 295 (256 MB); NVIDIA Quadro NVS 450 (512 MB); NVIDIA NVS 300 (512 MB); AMD FirePro 2270 (512 MB) Entry 3D, NVIDIA Quadro FX380 (256 MB); NVIDIA Quadro FX580 (512 MB); NVIDIA Quadro 600 (1 GB); ATI FirePro V3800 (512 MB); ATI FirePro V4800 (512 MB); NVIDIA Quadro 400 (512 MB) Midrange 3D, ATI FirePro V5800 (1 GB); NVIDIA Quadro 2000 (1 GB) High-end 3D, NVIDIA Quadro FX3800 (1 GB); NVIDIA Quadro FX4800 (1.5 GB); NVIDIA Quadro 4000 (2 GB); NVIDIA Quadro 5000 (2.5 GB)
Audio	Integrated High Definition Realtek ALC262 Audio, optional Creative X-Fi Titanium PCIe Audio Card, optional HP Thin USB Powered Speakers
Communications	Integrated Broadcom 5764 10/100/1000 PCIe LAN, optional Broadcom NIC, optional Intel NIC
Ports and Connectors	12 USB 2.0; 1 IEEE 1394a; 1 audio in; 2 audio out; 2 microphone in; 2 PS/2; 1 RJ-45 2 USB 3.0 (via optional PCIe card); 1 serial (optional), 2 IEEE 1394a or 1394b (via optional PCI card); 4 internal USB 2.0 available by 2 separate 2x5 headers
Input Device	HP Standard Keyboard (USB or PS/2) or USB Smart Card Keyboard USB 2-Button Optical Scroll Mouse, USB 3-Button Optical Mouse, USB SpaceExplorer, USB SpacePilot or USB Laser Scroll Mouse
Monitors	HP LP1965 19-inch LCD Monitor, HP LP2065 20-inch LCD Monitor, HP LP2275w 22-inch Widescreen LCD Monitor, HP LP2475w 24-inch Widescreen LCD Monitor, HP DreamColor LP2480zx Professional Display (24-inch widescreen), HP LP3065 30-inch Widescreen LCD Monitor (all sold separately)
Security	HP Solenoid Hood Lock/Sensor Kit, Kensington Security Cable & Lock
Dimensions	45.53 x 45.02 x 16.79 cm
Weight	Starting at 13.5 kg
Energy efficiency compliance	ENERGY STAR® qualified configurations available, EPEAT® registered where applicable/supported. See www.epeat.net for registration status by country
Power	475 watts wide-ranging, active Power Factor Correction, 85% efficient Power Supply
Expansion solutions	2 PCI Express Gen2 x16; 1 PCI Express Gen2 (x8 mechanically, x4 electrically); 1 PCI Express Gen1 (x8 mechanically, x4 electrically); 2 PCI; 1 22-in-1 Media Card Reader (optional); The PCIe x8 connectors are open ended, allowing a PCIe x16 card to be seated in the slot. 3 external 5.25" bays 2 internal 3.5" bays (up to 4 with converter)
Warranty	3-year worldwide parts, labour and next business day onsite service Terms and conditions may vary, restrictions apply

[1] Quad-Core is 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. 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information

For more information, please visit **www.hp.eu/workstations**

Accessories and Services

HP 2 GB (1x2GB) DDR3-1333 MHz ECC DIMM

Upgrading your memory is a cost-effective way to improve system performance when insufficient memory and hard drive paging is slowing your applications down

Product number: FX699AA

HP SpacePilot Pro USB 3D Input Device

Working in 3D has just become easier and more efficient with an HP SpacePilot Intelligent Controller, which combines refined sensing technology, extendable speed keys, and ergonomic design to give you 3D control, speeding up your design work -faster than you ever thought possible. When you intuitively push, tilt, or twist the control cap, the response is immediate. SpacePilot also features 21 speed keys that increase your efficiency and make working with your designs less stressful and more enjoyable, without the intrusive functionality of a mouse and keyboard alone.

Product number: WH343AA

NVIDIA Quadro 2000 1.0GB Graphics Card

The NVIDIA Quadro 2000, based on Fermi architecture, maximizes productivity for engineers and designers by up to 5 times

Product number: WS094AA

HP 1 GB (1x1GB) DDR3-1333 MHz ECC DIMM

Upgrading your memory is a cost-effective way to improve system performance when insufficient memory and hard drive paging is slowing your applications down

Product number: FX698AA

ATI FirePro V3800 512MB Graphics Card

This entry workstation solution with 512MB of GDDR3 frame buffer memory is ideally suited for work with large models and complex data sets plus a 30-bit display pipeline for accurate color reproduction and superior visual quality. Based on a new generation GPU with 400 Stream processor units, the ATI FirePro V3800 ultra parallel processing architecture maximizes throughput my automatically directing graphics horsepower where it's needed. Intelligent management of computational resources enables enhanced utilization of the GPU to enable real-time rendering of complex models and scenes while increasing frame rates when animating.

Product number: WL048AA

3 years 4-hour 13x5 Onsite Workstation HW Support

Improve your hardware availability and productivity with this prompt HP onsite support service. Extend your hardware warranty coverage with prompt service for key systems and devices.

Product number: U8303E

For more information, please visit www.hp.com/eur/hpoptions

Keep your PC running at its best with HP Support Assistant www.hp.eu/supportassistant