



Expand your power.



The HP Z420 gives you professional expandability in an accessible tool-free mini-tower form factor—all at a great price. With up to 8 discrete processing cores, the latest processing and I/O power from Intel®, and the latest graphics technology from leading graphics providers, the HP Z420 has the power you need to get the job done.

Designed With Ease.

Enjoy the control that comes with being able to swap out parts or make upgrades on your own. The HP Z420 Workstation features a smart chassis that offers tool-less access to the inside, easy configurability and an optional optical bay handle for seamless deployment. And with optional liquid cooling designed to deliver whisper-quiet performance, the HP Z420 is built to make your work flow more smoothly.

Enjoy Superb Performance.

Achieve the highest performance available in a single-processer personal workstation. The HP Z420 Workstations offers your choice of Intel® Xeon® E5-1600 and E5-2600 series processors 1,2,3—with base clock frequencies of up to 3.6 GHz and the new Intel® C602 chipset. Delivering support for up to 8 cores of processing power, the HP Z420 never slows you down.

Build It Your Way.

Build the HP Z420 Workstation the way you want with multiple SATA and SAS RAID configuration options that support a wide range of high-performance, high capacity storage solutions. Always know you're a step ahead with 8 DIMM slots in 4-channel memory architecture, delivering up to 64GB of 1600 MHz memory.



HP Z420 Workstation

HP recommends Windows® 7.

www.hp.com/zworkstations

Form Factor	Convertible minitower							
Available Operating Systems	Genuine Windows® 7 Professional 32-b Genuine Windows® 7 Professional 64-b Genuine Windows® 7 Ultimate 64-bit HP Linux Installer Kit* SUSE Linux Enterprise Desktop 11* Red Hat Enterprise Linux Desktop/Work	it	paper licens	e: no preinstalle	d OS)*			
Available Processors 1,2,3,4	Processor	GHz	Cache	Memory	Cores	Hyper- Threading	Featuring Intel® vPro™ Technology	Intel® HD Graphics ⁵
	Intel® Xeon® Processor E5-2687W Intel® Xeon® Processor E5-2665 Intel® Xeon® Processor E5-1660 Intel® Xeon® Processor E5-1650	3.1 2.4 3.3 3.2	20 MB 20 MB 15 MB 12 MB	1600 MHz 1600 MHz 1600 MHz 1600 MHz	8 8 6 6	Y Y Y	Y Y Y	3, 7 4, 7 3, 6 3, 6
	Intel® Xeon® Processor E5-1620 Intel® Xeon® Processor E5-1607 Intel® Xeon® Processor E5-1603	3.6 3 2.8	10 MB 10 MB 10 MB	1600 MHz 1066 MHz 1066 MHz	4 4 4	Y N N	Y Y Y	2, 3 N/A N/A
Chipset	Intel® C602 Chipset							
Memory ⁶	8 DIMM slots, Up to 64 GB ECC unbuffered DDR3 1600 MHz; 4 channels per CPU							
Drive Controllers	Integrated 6-channel SATA controller: 2 ports 6 Gb/s + 4 ports 3 Gb/s, RAID 0, 1, 5, 10 capable; Optional SAS controller: LSI 9212-4i 4-port SAS/SATA 6 Gb/s, RAID 0, 1, 10 capable							
Storage ^{7,8}	Up to (4) 3.5-inch 7200 rpm SATA drives: 250, 500 GB, 1, 2, 3 TB, 11 TB max; Up to (4) 2.5-inch 10K rpm SAS drives: 300, 600 GB, 2.4 TB max; Up to (4) 3.5-inch 15K rpm SAS drives: 300, 450, 600 GB, 2.4 TB max; Up to (4) 2.5-inch SATA solid state drives: 128, 160, 256, 300 GB, 1.2 TB max; Note: Fourth drive occupies one external 5.25-inch bay							
Optical Storage ^{9,10}	DVD-ROM, DVD+/-RW DL Super-Multi, Blu-ray Writer, 22-in-1 Media Card Reader							
Drive Bays	3 external 5.25-inch bays, 3 internal 3.5-inch HDD bays (4 total when using 5.25-inch bay converters); up to 4 eSATA							
Expansion Slots	2 PCI Express Gen3 x 16 mechanical/electrical; 1 PCI Express Gen3 x 8 mechanical/electrical; 1 PCI Express Gen2 x 8 mechanical/x 4 electrical; 1 PCI Express Gen2 x 4 mechanical/x 1 electrical; 1 Legacy PCI							
Available Graphics	Professional 2D: NVIDIA NVS 300, NVIDIA NVS 310,** AMD FirePro™ 2270, NVIDIA Quadro NVS 450 Entry 3D: NVIDIA Quadro 410,** NVIDIA Quadro 600, AMD FirePro™ V3900, AMD FirePro™ V4900 Mid-range 3D: NVIDIA Quadro 2000, AMD FirePro™ V5900 High-end 3D: NVIDIA Quadro 4000, AMD FirePro™ V7900, NVIDIA Quadro 5000, NVIDIA Tesla C2075							
Audio	Integrated Intel/Realtek HD ALC262 Audio; Creative Recon3D PCIe Audio Card; optional HP Thin USB Powered Speakers							
Network	Integrated Intel GbE LAN; Infineon TPM 1.2 Controller; Optional Broadcom NIC; Optional Intel NIC							
Ports	Front: 2 USB 3.0, 1 USB 2.0, 1 IEEE 1394a standard, 1 microphone in, 1 headphone out, HP 22:in-1 Media Card Reader (optional) Rear: 2 USB 3.0, 4 USB 2.0, 2 IEEE 1394b ports via optional add-in PCle card, 1 audio in, 1 audio out, 1 microphone in, 2 PS/2, 1 RJ-45 to integrated Gigabit LAN, 1 serial via optional adapter Internal: 6 USB 2.0, supports up to three HP Internal USB Port Kits (one two-port kit on each 2x5 header)							
Input Devices	PS/2 standard keyboard; USB standard keyboard; USB Smart Card Keyboard; PS/2 optical scroll mouse; USB 2-button optical scroll mouse; USB 3-button optical mouse; USB SpaceExplorer; USB SpacePilot; USB Laser Scroll Mouse							
Dimensions (H x W x D)	17.63 x 7.0 x 17.5 in (44.76 x 17.78 x 44.52 cm)							
Power Supply	600-Watt 90% efficient power supply							
Compatible Displays (screen size diagonally measured)	HP DreamColor LP2480zx Professional Display (24-inch diagonal widescreen), HP ZR30w 30-inch S-IPS LCD Monitor, HP ZR2740w 27-inch LED Backlit IPS Monitor, HP ZR2440w 24-inch S-IPS LCD Monitor, HP ZR2240w 21.5-inch LED Backlit IPS Monitor, HP ZR22w 21.5-inch S-IPS LCD Monitor, HP ZR2040w 20-inch LED Backlit IPS Monitor							
Warranty ¹¹	Limited three-year Mon-Fri 8-5 next business day, parts, labor and 24x7 phone support, terms and conditions may vary.							

- Linux available 2nd calendar quarter 2012 (CQ2'12)
- Available June/July 2012
- Dual-, Quad-, Six- and Eight-Core technologies are designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefits; 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 https://www.intel.com/info/em641 for more informations.

Intel's numbering is not a measurement of higher performance.

Although the Intel Xeon E5-2600 processor family supports dual processors, the HP Z420 Workstation does not support dual processor configurations.

The specifications shown in this column represent the following: (all core maximum turbo steps). Turbo boost stepping occurs in 100MHz increments. Processors that do not have turbo functionality are denoted as In/A. Intel® Turbo Boost technology requires a PC with a processor with Intel® Turbo Boost performance varies depending on hardware, software, and overall system configuration. Please visit https://www.intel.com/technology/turboboost for more information.

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Each processor supports up to 4 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.

SATA hardware RAID is not supported on Linux systems. The Linux kernel, with builthis software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit http://h20000.www.Z-hp.com/bc/docs/support/SupportManual/c006684/c0006684.pdf for RAID capabilities with Linux

For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 8 GB of hard drive (or system disk) is reserved for the system recovery software for Windows® XP and XP Pro,

8 For hard drives, 1 GB = 1 billion bytes. Actual tormatted capacity is less. Up to 8 GB of hara arrive (or system aisk) is reserved for the system recovery survivaries of the control of vary depending on your geographic location.

Screen images courtesy of Autodesk



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