# **HP Z440 Workstation**



Take your business to the next level of performance, expandability, and no compromise reliability in one complete package. Featuring a perfect mix of HP Z DNA in a performance workstation package with up to 8 discrete processor cores, up to 128 GB of RAM, and multiple storage and PCIe configuration options.

# HP recommends Windows.

- Windows 8.11
- Intel® Xeon™ processors²





### Get the job done fast

 Cross items off your to-do list fast. Achieve massive computational performance with a single processor personal workstation delivering support for up to 8 cores of processing power. Add in powerful graphics and performance features like optional Thunderbolt™ 2³, HP Z Turbo Drive⁴, and HP Remote Graphics Software,⁴ and you get a world-class workstation experience that never slows you down.

### Customize it to grow with you

• When your job requires more, the HP Z440 Workstation, with its sleek 4U form factor, tool-less design, and built in handles make it simple to expand. Easily configure memory, storage, graphics, and more to suit your needs.

### Position for the future

 Protect your investment and make downtime a thing of the past. Get no-compromise reliability and a standard 3/3/3 limited warranty from the HP Z440 Workstation.

#### Featuring:

- Achieve the performance you need with next generation Intel<sup>®</sup> Xeon<sup>®</sup> processors for up to 8 processor cores in one system.<sup>2</sup>
- Get serious about graphics and reach peak productivity with access to a breadth of AMD professional graphics from entry to high-end 3D.<sup>4</sup>
- Take productivity up a notch with the ability to do more thanks to NVIDIA professional graphics cards in 2D or 3D.<sup>4</sup>
- Maximize your time and increase your capabilities with USB and SATA ports, plus lightning-fast data transfers using optional Thunderbolt™ 2 technology.³
- A brand new tool-free chassis boasts low acoustics, single integrated Gb Ethernet and more.
- Reduce boot up, calculation, and graphics response and revolutionize how your HP Z440 handles large files with the HP Z Turbo Drive, a remarkably fast and innovative storage solution.
- You'll never run out of juice with two power supply options including a 525W option and a 700W option with two power cables for high-power professional graphics.
- Take multitasking to a new level with support for up to eight displays.<sup>5</sup>
- Optimize this HP Z440 for peak performance. HP Performance Advisor<sup>6</sup> configures your system with updated settings and drivers to help maximize performance.



# **HP Z440 Workstation Specifications Table**





Form Factor	Minitower
Operating System	Windows 8.1 Pro 64 <sup>1</sup> Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro 64) <sup>2</sup> Windows 7 Professional 64 (National Academic) <sup>1</sup> HP Installer Kit for Linux
	(HP Linux Installer Kit includes drivers for 64-bit versions of Red Hat® Enterprise Linux 5 and 6 and SUSE Linux Enterprise Desktop 11. Download Red Hat Enterprise Linux (1-year paper license only) which is available as a second operating system.)
Processor Family	Intel® Xeon® E5 v3 processor
Processors <sup>3,4</sup>	Intel® Xeon® E5-1680 v3 (3.2 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-1660 v3 (3.0 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-1650 v3 (3.5 GHz, 15 MB cache, 6 cores, Intel® vPro™); Intel® Xeon® E5-1650 v3 (3.5 GHz, 15 MB cache, 6 cores, Intel® vPro™); Intel® Xeon® E5-1630 v3 (3.7 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1620 v3 (3.5 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1603 v3 (2.8 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1603 v3 (2.8 GHz, 10 MB cache, 4 cores, Intel® vPro™)
Chipset	Intel® C612
Maximum Memory	128 GB DDR4-2133 ECC Registered SDRAM Actual memory speed dependent on processor. Only registered memory is supported.
Memory Slots	8 DIMM
Drive Controllers	Integrated SATA 6.0 Gb/s; LSI 9217-4i4e 8-port SAS 6.0 Gb/s RAID (optional)
Internal Storage	300 GB up to 600 GB SAS (15000 rpm) <sup>\$</sup> 300 GB up to 1.2 TB SAS (10000 rpm) <sup>\$</sup> 500 GB up to 3 TB SATA (7200 rpm) <sup>\$</sup> 500 GB SATA SED <sup>\$</sup> 128 GB up to 1 TB SATA SSD <sup>\$</sup> 256 GB SATA SE SSD <sup>\$</sup> 256 GB SATA SE SSD <sup>\$</sup>
Optical Storage	Slim SATA DVD-ROM; Slim SATA SuperMulti DVD writer; Slim SATA Blu-ray writer <sup>6,7</sup>
Additional Storage	1 15-in-1 media card reader (optional)
Available Graphics	Professional 2D: NVIDIA NVS 310 (512 MB); NVIDIA NVS 315 (1 GB); NVIDIA NVS 510 (2 GB) Entry 3D: NVIDIA Quadro K420 (1 GB); NVIDIA Quadro K620 (2 GB) Mid-range 3D: NVIDIA Quadro K2200 (4 GB); AMD FirePro W2100 (2 GB); AMD FirePro W5100 (4 GB) High-end 3D: NVIDIA Quadro K4200 (4 GB); NVIDIA Quadro K5200 (8 GB); NVIDIA Quadro K6000 (12 GB)
Audio	Integrated Realtek HD ALC221
Communications	Integrated Intel I218LM PCIe GbE; Intel I210AT PCIe GbE (optional); HP X520 10 GbE Dual Port Adapter (optional); HP 10 GbE SFP+SR Transceiver (optional); HP 361T PCIe dual-port gigabit (optional); Intel 7260 802.11a/b/g/n PCIe WLAN (optional) 8
Expansion Slots	2 PCIe Gen3 x16; 1 PCIe Gen3 x8 (open-ended); 1 PCIe Gen2 x4 (open-ended); 1 PCIe Gen2 x1 (open-ended); 1 PCI Open-ended connector allows a greater bandwidth card to be installed physically into a lower bandwidth connector/slot.
Ports and Connectors	Front: 4 USB 3.0; 1 microphone; 1 headset Back: 4 USB 3.0; 2 USB 2.0; 2 PS/2; 1 RJ-45; 1 audio line in; 1 audio line out Internal: 1 USB 2.0; 1 USB 3.0 Internal USB 2.0 available by the 2x5 header. Internal USB 3.0 available by the 2x10 header.
Drive Bays(Internal)	Two 3.5"
Drive Bays (External)	Two 5.25"; One slim ODD
Input Device	HP PS/2 Keyboard; HP USB Keyboard; HP USB SmartCard Keyboard; HP Wireless Keyboard and Mouse; <sup>9</sup> ; HP PS/2 Mouse; HP USB Optical Mouse; HP USB 1000 dpi Laser Mouse; HP USB Optical 3-Button Mouse; HP SpaceMouse Pro USB 3D Controller; HP SpacePilot Pro 3D USB Intelligent Controller; <sup>9</sup>
Software	HP Performance Advisor; HP Remote Graphics Software (RGS) 6.0; Cyberlink Media Suite & PowerDVD; Foxit PhantomPDF Express; Buy Office
Security	HP Solenoid Hood Lock & Hood Sensor; HP Business PC Security Lock Kit <sup>9</sup>
Power	525 W 85% efficient, wide-ranging, active PFC; 700 W 90% efficient, wide-ranging, active PFC
Dimensions	6.65 x 17.5 x 17 in 16.9 x 44.5 x 43.2 cm
Weight	24.3 lb 11 kg (Exact weight depends upon configuration.)
Energy Efficiency Compliance	ENERGY STAR® qualified and EPEAT® registered configurations available 10
Environmental Certification	Low halogen <sup>11</sup>

# HP recommends Windows.

Compatible Displays	HP Z Display Z30i 30-inch IPS LED Backlit Monitor; HP Z Display Z27i 27-inch IPS LED Backlit Monitor; HP Z Display Z24i 24-inch IPS LED Backlit Monitor; HP Z Display Z23i 23-inch IPS LED Backlit Monitor; HP Z Display Z23i 23-inch IPS LED Backlit Monitor; HP DreamColor Z27x Professional Display; HP DreamColor Z24x Professional Display
Warranty	Protected by HP Services, including a standard limited 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) warranty. Certain restrictions and exclusions apply.

# **HP Z440 Workstation**

# Accessories and services (not included)

# HP Thunderbolt-2 PCIe 1-port I/O Card



Ultra-fast backup, editing, and file sharing, and reduce the time on tasks on select HP Z Workstations¹ with this 1-port I/O Card driven by Thunderbolt $^{\text{M}}$  2 technology.² Power through projects with data transfer speeds nearly 4x that of USB 3.0.

Product number: F3F43AA

## HP Z Turbo Drive 256GB PCIe Solid State Drive



Reduce boot up, calculation, and graphics response times (even with 4K video) and revolutionize how your HP Z Workstation handles large files with the HP Z Turbo Drive PCIe Solid State Drive, a remarkably affordable and innovative storage solution.

Product number: G3G88AA

## HP Z Turbo Drive 512GB PCIe Solid State Drive



Reduce boot up, calculation, and graphics response times (even with 4K video) and revolutionize how your HP Z Workstation handles large files with the HP Z Turbo Drive PCle Solid State Drive, a remarkably affordable and innovative storage solution.

Product number: G3G89AA

## HP Z Display Z24i 24-inch IPS LED Backlit Monitor (ENERGY STAR)



Get outstanding image accuracy, exceptional adjustability, and mission-critical reliability optimized for commercial environments. Built with IPS Gen 2 panels, the HP Z24i 24-inch IPS Display delivers power savings over first-generation IPS technology and extra-wide viewing angles that foster collaboration.

Product number: D7P53A4

### **Messaging Footnotes**

- 1 Not all features are available in all editions or versions of Windows, Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com.
- 2 Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing system required. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- 3 Thunderbolt is an optional or after-market feature. Thunderbolt cable and Thunderbolt device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt Certified for Windows, see https://thunderbolttechnology.net/products.
- <sup>4</sup> Sold separately or as an optional feature.
- Support for up to eight displays requires purchase of two graphics cards that support up to 4 displays simultaneously. Displays sold separately.
- <sup>6</sup> HP Performance Advisor requires Windows and Internet access.

#### **Technical Specifications Footnotes**

- <sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com
- <sup>2</sup> This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 8.1 Pro software. You may only use one version of the Windows software at a time. Switching between version's will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data
- 3 Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing system required. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- Some vPro functionality of this technology, such as Intel® Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel VPro technology is dependent on 3rd party software providers. Microsoft Windows required.

  For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 20 GB of system disk is reserved for Windows 7 and higher system recovery software.

  Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write
- to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media.
- With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.
- <sup>8</sup> Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited.
- <sup>9</sup> Optional or add-on feature
- 10 EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
- 11 External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

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