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 10 Pro.

- Windows 10 Pro[1]
- Intel® Xeon™ processors[2]

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™ 2[3], HP Z Turbo Drive[4], 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® Xeon® processors for up to 8 processor cores in one system.[2]
- Get serious about graphics and reach peak productivity with access to a breadth of AMD professional graphics from entry to high-end 3D.[4]
- Take productivity up a notch with the ability to do more thanks to NVIDIA® professional graphics cards in 2D or 3D.[4]
- 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.[5]
- Optimize this HP Z440 for peak performance. HP Performance Advisor[6] configures your system with updated settings and drivers to help maximize performance.

HP Z440 Workstation Specifications Table
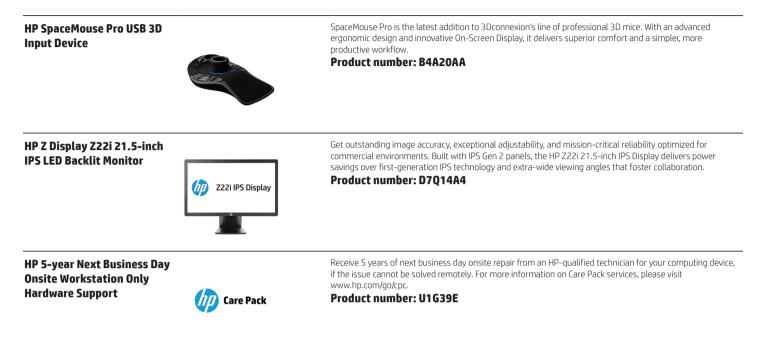
Form Factor	Tower
Operating System	Windows 10 Pro 64 for Workstations – HP recommends Windows 10 Pro. [1] Windows 10 Home 64 [1] Windows 8.1 Pro 64 [2] Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64) [3] Windows 7 Professional 64 [2] HP Installer Kit for Linux® HP Linux Installer Kit includes drivers for 64-bit versions of Red Hat® Enterprise Linux 6.7 and 7, SUSE Linux Enterprise Desktop 11 and Ubuntu 14.04. Red Hat Enterprise Linux (1-year paper license only) is available as a second operating system.
Processor Family	Intel® Xeon® E5 1600 v3 processor; Intel® Xeon® E5 2600 v3 processor; Intel® Xeon® E5 2600 v4 processor; Intel® Xeon® E5 1600 v4 processor
Processors[4,5]	Intel® Xeon® E5-2637 v4 (3.5 GHz, 15 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-2623 v4 (2.6 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1680 v4 (3.4 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-1660 v4 (3.2 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-1650 v4 (3.6 GHz, 15 MB cache, 6 cores, Intel® vPro™); Intel® Xeon® E5-1630 v4 (3.7 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1620 v4 (3.5 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1607 v4 (3.1 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1603 v4 (2.8 GHz, 10 MB cache, 4 cores, Intel® vPro™); Intel® Xeon® E5-1680 v3 (3.2 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-2630 v3 (2.4 GHz, 20 MB cache, 8 cores, Intel® vPro™); Intel® Xeon® E5-1660 v3 (3 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® E5-1630 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® E5-1607 v3 (3.1 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	Up to 256 GB DDR4-2400 ECC registered SDRAM DDR4-2133 ECC Registered SDRAM Transfer rates up to 2400 MT/s. Only registered memory is supported.
Memory Slots	8 DIMM
Drive Controllers	Integrated SATA 6.0 Gb/s; LSI MegaRAID® 9270-8i SAS 6.0 Gb/s ROC RAID Card and iBBU09 Battery Backup Unit (optional); LSI 9217-4i4e 8-port SAS 6.0 Gb/s RAID (optional); Factory integrated RAID available for SATA/SAS drives (RAID 0 Data, 1, and 10); Factory integrated RAID available for PCIe SSDs (RAID 0 Data)
Internal Storage	300 GB up to 600 GB SAS (15000 rpm) [6] 300 GB up to 1.2 TB SAS (10000 rpm) [6] 500 GB up to 4 TB SATA (7200 rpm) [6] up to 500 GB SATA SED (7200 rpm) [6] 128 GB up to 2 TB SATA SSD [6] up to 512 GB SATA SE SSD [6] up to 1 TB SATA SSHD (7200 rpm) [6]
Optical Storage	Slim SATA DVD-ROM; Slim SATA BDXL Blu-ray writer; Slim SATA DVD-Writer [7,8]
Additional Storage	15-in-1 media card reader (optional); HP DX115 Removable HDD Frame/Carrier (optional)
Available Graphics	Professional 2D: NVIDIA® NVS™ 510 (2 GB); NVIDIA® NVS™ 315 (1 GB); NVIDIA® NVS™ 310 (1 GB) Entry 3D: AMD FirePro™ W2100 (2 GB); NVIDIA® Quadro® P600 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® K420 (2 GB); NVIDIA® Quadro® K620 (2 GB) Mid-range 3D: AMD FirePro™ W5100 (4 GB); AMD FirePro™ W4300 (4 GB); NVIDIA® Quadro® P2000 (5 GB); NVIDIA® Quadro® P1000 (4 GB); NVIDIA® Quadro® M2000 (4 GB); NVIDIA® Quadro® K2200 (4 GB); NVIDIA® Quadro® K1200 (4 GB) High-end 3D: AMD FirePro™ W7100 (8 GB); AMD Radeon™ Pro WX 7100 (8 GB); AMD Radeon™ Pro WX 4100 (4 GB); NVIDIA® Quadro® P6000 (24 GB); NVIDIA® Quadro® P5000 (16 GB); NVIDIA® Quadro® P4000 (8 GB); NVIDIA® Quadro® M6000 (24 GB); NVIDIA® Quadro® M5000 (8 GB); NVIDIA® Quadro® M4000 (8 GB) [14]
Audio	Integrated Realtek HD ALC221
Communications	Integrated Intel® I218LM PCIe GbE; Intel® I210-T1 PCIe GbE (optional); HP X540-T2 10 GbE Dual Port Adapter (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); Intel® 8260 802.11a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC (optional) [9]
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
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; HP PS/2 Business Slim Keyboard; HP USB Business Slim Keyboard; HP Wireless Business Slim Keyboard[10]; HP PS/2 Mouse; HP USB Optical Mouse; HP USB 1000 dpi Laser Mouse; HP USB Optical 3-Button Mouse; HP SpacePilot Pro 3D USB Intelligent Controller; 3Dconnexion CADMouse; HP USB Hardened Mouse[10]
Software	HP Performance Advisor; HP Remote Graphics Software (RGS) 7.2; CyberLink PowerDVD/Power2Go; Foxit PhantomPDF Express; Buy Office [13]
Security	HP Solenoid Hood Lock & Hood Sensor; HP Business PC Security Lock Kit; TPM 1.2 certified; HP Keyed Cable Lock (optional) [10]
Power	525 W 85% efficient, wide-ranging, active PFC; 700 W 90% efficient, wide-ranging, active PFC
Dimensions	16.9 x 44.5 x 43.2 cm
Weight	11 kg
Environmental Certification	Low halogen[12]
Compatible Displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays.
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available [11]
Warranty	On-site limited warranty and service with 3 year limited warranty and service offering delivers on-site, next business-day service for parts and labor and includes free telephone support 8 am - 5 pm. Global coverage ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering

HP Z440 Workstation

Recommended Accessories and Services

HP SpaceMouse Pro USB 3D Input Device

SpaceMouse Pro is the latest addition to 3Dconnexion's line of professional 3D mice. With an advanced ergonomic design and innovative On-Screen Display, it delivers superior comfort and a simpler, more productive workflow.

Product number: B4A20AA

HP Z Display Z22i 21.5-inch IPS LED Backlit Monitor

Get outstanding image accuracy, exceptional adjustability, and mission-critical reliability optimized for commercial environments. Built with IPS Gen 2 panels, the HP Z22i 21.5-inch IPS Display delivers power savings over first-generation IPS technology and extra-wide viewing angles that foster collaboration.

Product number: D7Q14A4

HP 5-year Next Business Day Onsite Workstation Only Hardware Support

Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit www.hp.com/go/cpc.

Product number: U1G39E

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, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.
[2] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming 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.
[4] Sold separately or as an optional feature.
[5] Support for up to eight displays requires purchase of two graphics cards that support up to 4 displays simultaneously. Displays sold separately.
[6] HP Performance Advisor requires Windows and Internet access.

Technical Specifications Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.
[2] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See http://www.microsoft.com.
[3] This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions 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.
[4] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
[5] 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.
[6] For hard drives and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for system recovery software.
[7] 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.
[8] 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.
[9] 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.
[10] Optional or add-on feature
[11] EPEAT® Gold registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar energy accessory at www.hp.com/go/options.
[12] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[13] HP Performance Advisor and HP Remote Graphics Software requires Windows and an internet connection.
[14] HP VR Ready Configurations available.

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