



# HP Z640 Workstation

Redefine versatility and flexibility. Expand your capabilities with HP's Z640 Workstation offering powerful performance, whisper-quiet computing, and tool-less access in compact design.



- Windows 10 Pro<sup>1</sup>
- Intel® Xeon™ processors<sup>2</sup>

## Power up

Experience massive workstation power with support for 145W processors powering up to 36 cores in a dual Intel® Xeon® processor configuration.<sup>3</sup> The HP Z640 Workstation uses Z DNA to provide a high-end workstation experience.

## Versatility redefined

Build the perfect workstation for your needs. The HP Z640 Workstation featuring Windows 8.1<sup>1</sup> provides incredible expansion in a small footprint. With up to 8 memory DIMMs, up to 4 internal hard drives, optional Thunderbolt™ 2,<sup>4</sup> and the HP Z Turbo Drive, you get storage, performance, and the freedom to create.

## Experience the quiet

Concentrate on your work using a workstation that is whisper quiet. When every inch, watt, and decibel makes a difference, count on the HP Z640 Workstation.

## Featuring:

- Achieve the performance you need with the ability to support two next generation Intel® Xeon® processors for up to 36 total processor cores in one system.<sup>2</sup>
- Take productivity up a notch with the ability to do more thanks to NVIDIA® professional graphics cards in 2D or 3D.<sup>5</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>5</sup>
- Maximize your time and increase your capabilities with USB and SATA ports, plus lightning-fast data transfers using optional Thunderbolt™ 2 technology.<sup>4</sup>
- A tool-free chassis boasts low acoustics, single integrated Gb Ethernet, a front and rear handle, rear ledge and is 4U rack mountable—all in a compact design.
- Reduce boot up, calculation, and graphics response and revolutionize how your HP Z640 handles large files with the HP Z Turbo Drive, a remarkably fast and innovative storage solution.
- Take multitasking to a new level with the ability to easily connect and work on up to eight displays.<sup>6</sup>
- Optimize this HP Z640 for peak performance. HP Performance Advisor<sup>7</sup> configures your system with updated settings and drivers to help maximize performance.
- Each HP Z640 Workstation works with HP Client Management Solutions,<sup>8</sup> and optional LANDesk<sup>9</sup> to deploy, manage, and secure your PC.

## HP Z640 Workstation Specifications Table



<b>Form Factor</b>	Tower
<b>Operating System</b>	Windows 10 Pro 64 <sup>1</sup> Windows 10 Home 64 <sup>1</sup> Windows 8.1 Pro 64 <sup>2</sup> Windows 7 Professional 64 <sup>2</sup> Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64) <sup>3</sup> HP Installer Kit for Linux <sup>®</sup> (HP Linux Installer Kit includes drivers for 64-bit versions of Red Hat <sup>®</sup> 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.)
<b>Processor Family</b>	Intel <sup>®</sup> Xeon <sup>®</sup> E5 1600 v3 processor; Intel <sup>®</sup> Xeon <sup>®</sup> E5 2600 v3 processor; Intel <sup>®</sup> Xeon <sup>®</sup> E5 2600 v4 processor; Intel <sup>®</sup> Xeon <sup>®</sup> E5 1600 v4 processor
<b>Processors<sup>5,6</sup></b>	Intel <sup>®</sup> Xeon <sup>®</sup> E5-2697 v4 (2.3 GHz, 45 MB cache, 18 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2695 v4 (2.1 GHz, 45 MB cache, 18 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2690 v4 (2.6 GHz, 35 MB cache, 14 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2683 v4 (2.1 GHz, 40 MB cache, 16 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2680 v4 (2.4 GHz, 35 MB cache, 14 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2667 v4 (3.2 GHz, 25 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2660 v4 (2 GHz, 35 MB cache, 14 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2650 v4 (2.2 GHz, 30 MB cache, 12 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2643 v4 (3.4 GHz, 20 MB cache, 6 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2640 v4 (2.4 GHz, 25 MB cache, 10 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2637 v4 (3.5 GHz, 15 MB cache, 4 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2630 v4 (2.2 GHz, 25 MB cache, 10 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2623 v4 (2.6 GHz, 10 MB cache, 4 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2620 v4 (2.1 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2609 v4 (1.7 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2603 v4 (1.7 GHz, 15 MB cache, 6 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-1680 v4 (3.4 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-1660 v4 (3.2 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-1650 v4 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<sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2680 v3 (2.5 GHz, 30 MB cache, 12 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2670 v3 (2.3 GHz, 30 MB cache, 12 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2667 v3 (3.2 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2660 v3 (2.6 GHz, 25 MB cache, 10 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2650 v3 (2.3 GHz, 25 MB cache, 10 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2643 v3 (3.4 GHz, 20 MB cache, 6 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2640 v3 (2.6 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2637 v3 (3.5 GHz, 15 MB cache, 4 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2630 v3 (2.4 GHz, 20 MB cache, 8 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> 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cache, 4 cores, Intel <sup>®</sup> vPro™) Intel <sup>®</sup> Xeon <sup>®</sup> E5-1603 v3 (2.8 GHz, 10 MB cache, 4 cores, Intel <sup>®</sup> vPro™)
<b>Chipset</b>	Intel <sup>®</sup> C612
<b>Maximum Memory</b>	Up to 256 GB DDR4-2400 ECC registered SDRAM <sup>10</sup> (Transfer rates up to 2400 MT/s. Only registered and load-reduced memory is supported.)
<b>Memory Slots</b>	4 DIMM (with 1 processor) and 8 DIMM (with 2 processors)

<b>Drive Controllers</b>	Integrated SATA 6.0 Gb/s; LSI 9217-4i4e 8-port SAS 6.0 Gb/s RAID (optional); LSI MegaRAID® 9270-8i SAS 6.0 Gb/s ROC RAID Card and iBBU09 Battery Backup Unit (optional); Factory integrated RAID available for SATA/SAS drives (RAID 0, 0 Data, 1, 5, and 10); Factory integrated RAID available for PCIe SSDs (RAID 0 Data)
<b>Internal Storage</b>	300 GB up to 600 GB SAS (15000 rpm) <sup>7</sup> 300 GB up to 1.2 TB SAS (10000 rpm) <sup>7</sup> 500 GB up to 4 TB SATA (7200 rpm) <sup>7</sup> 500 GB SATA SED (7200 rpm) <sup>7</sup> 128 GB up to 1 TB SATA SSD <sup>7</sup> 256 GB up to 512 GB SATA SED SSD <sup>7</sup> 1 TB (8 GB cache) SATA SSHD (7200 rpm) <sup>7</sup> 256 GB up to 512 GB HP Z Turbo Drive (PCIe SSD) <sup>7</sup> 256 GB up to 1 TB HP Z Turbo Drive G2 (PCIe SSD) <sup>7</sup> 512 GB (2x256 GB) up to 2 TB (4x512 GB) HP Z Turbo Drive Quad Pro (PCIe SSD) <sup>7</sup>
<b>Optical Storage</b>	Slim SATA DVD-ROM; Slim SATA SuperMulti DVD writer; Slim SATA BDXL Blu-ray writer <sup>8,9</sup>
<b>Additional Storage</b>	15-in-1 media card reader (optional); HP DX115 Removable HDD Frame/Carrier (optional)
<b>Available Graphics</b>	Professional 2D: NVIDIA® NVS™ 310 (1 GB); NVIDIA® NVS™ 315 (1 GB); NVIDIA® NVS™ 510 (2 GB) Entry 3D: NVIDIA® Quadro® K420 (2 GB); NVIDIA® Quadro® K620 (2 GB); AMD FirePro™ W2100 (2 GB) Mid-range 3D: NVIDIA® Quadro® M2000 (4 GB); NVIDIA® Quadro® K2200 (4 GB); NVIDIA® Quadro® K1200 (4 GB); AMD FirePro™ W4300 (4 GB); AMD FirePro™ W5100 (4 GB) High-end 3D: NVIDIA® Quadro® M6000 (24 GB); NVIDIA® Quadro® M6000 (12 GB); NVIDIA® Quadro® M5000 (8 GB); NVIDIA® Quadro® M4000 (8 GB); AMD FirePro™ W7100 (8 GB) High Performance GPU Computing: NVIDIA® Tesla® K40
<b>Audio</b>	Integrated Realtek HD ALC221
<b>Networking</b>	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 802.11 a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC (optional) <sup>11</sup>
<b>Expansion Slots</b>	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.)
<b>Ports and Connectors</b>	Front: 4 USB 3.0; 1 headset; 1 microphone 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
<b>Drive Bays (Internal)</b>	Two 3.5"
<b>Drive Bays (External)</b>	Two 5.25"; One slim ODD
<b>Input Device</b>	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 <sup>12</sup> 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 <sup>12</sup>
<b>Software</b>	HP Performance Advisor; HP Remote Graphics Software (RGS) 7.2; CyberLink PowerDVD/Power2Go; Foxit PhantomPDF Express; Buy Office <sup>15</sup>
<b>Security</b>	HP Solenoid Hood Lock & Hood Sensor; HP Business PC Security Lock Kit; TPM 1.2 certified; HP Keyed Cable Lock (optional) <sup>12</sup>
<b>Power</b>	925 W 90% efficient, active PFC
<b>Dimensions (W x D x H)</b>	6.75 x 18.3 x 17.5 in 17.5 x 46.48 x 44.45 cm
<b>Weight</b>	33.1 lb 15 kg (Exact weight depends upon configuration.)
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified and EPEAT® registered configurations available <sup>13</sup>
<b>Environmental Certification</b>	Low halogen <sup>14</sup>
<b>Compatible Displays</b>	All HP Z Displays and HP DreamColor Displays are supported. For more information see <a href="http://www.hp.com/go/zdisplays">www.hp.com/go/zdisplays</a> .
<b>Warranty</b>	Protected by HP Services, including a 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) standard limited warranty. Certain restrictions

## HP Z640 Workstation

### Recommended accessories and services (not included)

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#### HP Z24n 24-inch Narrow Bezel IPS Display (ENERGY STAR)



Create a seamless 16:10 multi-display setup with the HP Z24n Narrow Bezel IPS Display, which has a virtually borderless screen for maximum impact imagery, factory color calibration to ensure optimal color accuracy, and flexible connectivity for all of your devices.

**Product number: K7B99A8**

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#### HP 16GB (1x16GB) DDR4-2400 ECC Reg RAM



Boost the capabilities of your HP Workstation and improve system performance and application responsiveness with low-power, high-speed DDR4 memory from HP.

**Product number: T9V40AT**

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#### HP Z Turbo Drive G2 512GB PCIe Solid State Drive



Super charge your productivity and creativity and deliver optimized HP Workstation workflows with the HP Z Turbo Drive G2 PCIe SSD, which delivers four times the read performance of traditional SSDs at a cost that's remarkably similar.

**Product number: M1F74AT**

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#### HP 2TB SATA 6Gb/s 7200 Hard Drive



SATA 7200 rpm drives are our standard high bandwidth hard drive storage options; most workstation models are also available with high performance 10K rpm rotation speeds. Storage capabilities range up to a massive 2.0 TB.

**Product number: QB576AA**

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#### 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 Workstations with this 1-port I/O Card driven by Thunderbolt™ 2 technology. Power through projects with data transfer speeds nearly 4x that of USB 3.0.

**Product number: F3F43AA**

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#### HP 5 year Next Business Day Onsite with Defective Media Retention



Defective Media Retention (DMR) allows you to keep your hard drive if it is defective and requires replacement while under warranty. You maintain control of your sensitive data, and dispose of the defective media in a way that meets your security standards

**Product number: UE344E**

## Messaging 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, 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>.
- <sup>2</sup> 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.
- <sup>3</sup> Available with 128GB DIMMs.
- <sup>4</sup> Thunderbolt is an optional or add-on 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>5</sup> Sold separately or as an optional feature.
- <sup>6</sup> Support for up to eight displays requires purchase of two graphics cards that support up to 4 displays simultaneously. Displays sold separately.
- <sup>7</sup> HP Performance Advisor requires Windows and Internet access.
- <sup>8</sup> Requires Windows operating system.
- <sup>9</sup> LANdesk software is sold separately. Managed devices must be connected to the management server. Requires active LANdesk maintenance service. Wipe functionality performs a "Windows 8 Reset" and requires Windows 8. Lock performs a Windows "Lock Computer."

## 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, 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>.
- <sup>2</sup> 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>.
- <sup>3</sup> 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.
- <sup>4</sup> 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.
- <sup>5</sup> 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.
- <sup>6</sup> 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.
- <sup>7</sup> 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.
- <sup>8</sup> 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>9</sup> Only Registered and LR ECC DIMMs are supported. Do not install memory modules into memory slots if corresponding processor is not installed. Dual processor configurations with memory modules installed for only one processor is not supported. RDIMM (Registered) and LRDIMM (Load Reduced) memory cannot be mixed. All memory installed in the system must be either RDIMM or LRDIMM.
- <sup>10</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>11</sup> Optional or add-on feature
- <sup>12</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.
- <sup>13</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>14</sup> HP Performance Advisor and HP Remote Graphics Software requires Windows and an internet connection.

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