HP Z6 G4 Workstation



A future-proof powerhouse

No matter what the future holds, you'll have all the performance you need. Ideal for VFX and rendering, this workhorse offers a wide range of processing power and the flexibility to upgrade components over time.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Designed to grow with you

Invest only in the technology you need today, and easily upgrade in the future. Scale
up with a broad range of configurations from single or dual processors to multiple
graphics cards.

Relentless power

 Take on demanding workloads with high-powered processors, professional graphics and 768 GB of memory. Experience seamless performance during graphicsintensive work, such as visual effects and design visualization.

HP's most secure workstations

 Advanced security features come standard on every Z6. Rest assured your device, identity and data are safe with security software like HP Client Security Suite² and HP Sure Start, the industry's first self-healing BIOS with intrusion detection.

Featuring

- Support your unique user needs with a choice of Windows 10 Pro or Linux® operating systems.¹
- Achieve the performance you need with the ability to support two next generation Intel® Xeon® processors for up to 52 total processor cores in one system.³
- Get serious about graphics and reach peak productivity with access to a breadth of NVIDIA® and AMD professional graphics from entry to ultra 3D.⁴
- Install the fastest professional grade storage hardware around, unlocking performance for storage-bound applications without sacrificing standard PCIe slots.
- The Z6 workstation's sleek, iconic design doesn't compromise on quiet, reliable performance.
- HP SureStart automatically detects intrusions in real-time, notifies you, and restores the BIOS you use, so you can breathe easier.
- Create two network connections without the added cost of a PCle NIC with dual embedded 1GbE LAN ports which come standard.
- The optional dual front I/O USB 3.1 G2 Type C[™] module lets you transfer data to devices using modern connection technology at higher data rates.⁵
- Super fast network connenctions^{6,7}
- Optional self-encryption drives thwart outside access so your valuable IP won't fall into the wrong hands.⁴
- Future-proof your Z with Intel[®] Optane[™] DC Persistent Memory for the best price/performance with the ability to load large data sets entirely into memory for fast access and application responsiveness.⁸

HP Z6 G4 Workstation Specifications Table







*Product image may differ from actual pro	oduct
Available Operating Systems	Windows 11 Pro for Workstations 21 22 Windows 10 Pro for Workstations 21 22 Ubuntu 20.04 ITS ²⁵ HP Installer Rt for Linux ⁸²³ Red Hel [®] Enterprise Linux ⁸²³ (HP Linux ⁸ Installer Rt includes drivers for 64-bit versions of Red Hat [®] Enterprise Linux ⁸ 7.4, SUSE Linux ⁸ Enterprise Desktop 12 and Ubuntu 16.04. Red Hat [®] Enterprise Linux ⁸ (1-year paper license only) is available as a second operating system.)
Processor family	Intel® Xeon® Scalable processor
Available Processors ^{2,3}	Intel® Xcon® Silvar 4214R (2.4 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 1.6.5 MB L3 cache, 1.2 cores), intel® Xcon® Silvar 4215R (3.2 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 1.2 cores), intel® Xcon® Gold 518 CL, GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 1.2 cores), intel® Xcon® Gold 5218 CL, GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 2.0 cores), intel® Xcon® Gold 5218 CL, GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 2.0 cores), intel® Xcon® Gold 5218 CL, GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 2.0 cores), intel® Xcon® Gold 5218 CL, GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 2.7 MB L3 cache, 2.0 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 1.5 MB L3 cache, 2.0 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 2.7 SMB L3 cache, 2.0 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 1.2 SMB L3 cache, 2.0 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 1.2 SMB L3 cache, 1.2 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 1.2 SMB L3 cache, 1.2 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.0 GHz with Intel® Turbo Boost Technology, 1.2 SMB L3 cache, 1.2 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.0 GHz with Intel® Turbo Boost Technology, 2.4 SMB L3 cache, 2.5 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.0 GHz with Intel® Turbo Boost Technology, 2.4 SMB L3 cache, 2.5 cores), intel® Xcon® Gold 5220 CL, GHz base frequency, up to 3.0 GHz with Intel® Turbo Boost Technology, 2.4 SMB L3 cache, 2.5 cores), intel® Xcon®
Chipset	Intel® C622
Maximum memory	384 GB DDR4-2666 ECC RAM; 768 GB DDR4-2933 ECC RAM ²⁰ Transfer rates pu to 2933MTS.
Memory slots	12 DIMM with 2 processors
Internal storage	up to 300 GB SAS (1 5000 rm) ⁴ 500 GB up to 2 TB SATA (7200 rm) ⁴ up to 500 GB SATA SED (7200 rm) ⁴ 1 TB up to 6 TB 7200 rm SATA Enterprise ⁶ 256 GB up to 2 TB SATA SSD ⁴ 256 GB up to 2 TB SATA SSD ⁶ 256 GB up to 2 TB SATA SSD ⁶ 240 GB up to 480 GB SATA Enterprise SSD ⁶ 240 GB up to 480 GB SATA Enterprise SSD ⁶ 256 GB up to 1 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 1 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 1 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 1 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 8 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 8 TB HP Z Turbo Drive PCle [®] NVMe [™] SSD M2 256 GB up to 8 TB HP Z Turbo Drive Qual Pro PCle [®] SSD ⁶ 256 GB up to 8 TB HP Z Turbo Drive Qual Pro PCle [®] SSD ⁶
Additional storage	HP SD 4 Media Card Reader (optional)
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer ^{5,6}
Available Graphics	Entry 3D: NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NVIDIA® T600 (4 GB GDDR6 dedicated); NVIDIA® T400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (3 GB GDDR5 dedicated); NVIDIA® Quadro® P200 (5 GB GDDR6 dedicated); NVIDIA® Quadro® P200 (5 GB GDDR5 dedicated); NVIDIA® QUAdro® P200 (5 GB
Expansion slots	3 PCle x4; 1 PCle x8; 2 PCle x16; 2 M.2 PCle x4 (Slot 1: CPU with open-ended connector. Slots 3 and 6: PCH with open-ended connector. Slot 4: CPU with open-ended connector (slot converts to x4 electrical when SSD is installed in 2nd M.2 slot). M.2 Slots 1 and 2: CPU up to 80 mm storage devices.)
Ports and Connectors	Front: 1 headset connector; 4 USB 3.1 (1 charging); Rear: 6 USB 3.1 Gen 1; 2 R1-45 (1 6bE); 1 audio-in; 1 audio-out; 1 PS/2 mouse port; 1 PS/2 keyboard port; 1 serial; (Premium front includes: 1 headset, 2 USB 3.1 Gen1 (1 charging), 2 USB 3.1 Gen2 Type-C™.)
Input devices	HP Wireless Business Slim Keyboard and Mouse Combo; HP USB Business Slim Keyboard; USB Premium wired keyboard; USB Smart Card (CCID) keyboard 10; 3Dconnexion CADMouse; HP USB Optical Mouse; HP PS/2 Mouse; HP USB Hardened Mouse 10.
Communications	LAN: HP dual-port 10GBase-T NIC; Integrated Intel® 1219-LM PCle® GbE; Integrated Intel® X722 PCle® GbE; Intel® 10 GbE SFP+ SR transceiver; Intel® 1210-T1 PCle® GbE; Intel® 1350-T4 dual-port GbE NIC; Intel® X550-T2 dual-port GbE NIC; Intel® X710-DA2 dual-port GbE NIC; Intel® 1350-T2 GbE NIC ¹⁹ ; WLAN: Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™;
Drive Bays	Two 5.25°; Two 2.5° or 3.5° ¹⁶
Software	HP Performance Advisor; HP Remote Graphics Software (RGS);
Security management	HP Sure Start Gen3; Secure authentication; Kensington lock slot; Full volume encryption; HP Keyed Cable Lock Kit; TPM 2.0 certified; HP Secure Erase; A:15:18
Power	1000 W internal power supply, up to 90% efficiency, active PFC; 700 W internal power supply, up to 90% efficiency, active PFC
Dimensions	6.65 x 18.3 x 17.5 in 16.9 x 46.5 x 44.5 cm
Weight	Starting at 29 lb Starting at 13.1 kg (Exact weight depends on configuration.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available 11.26
Energy star certified (series fixed)	ENERGY STAR® certified
Sustainable impact specifications	Low halogen ¹²
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported.

HP Z6 G4 Workstation

Accessories and services (not included)

HP 5 year Next Business Day Onsite HW Support w/Defective Media Retention for Workstations HP 5 year Next Business Day Onsite HW Support w/Defective Media **Retention for Workstations**



When hardware issues come up, the sooner you can get running again, the better. Have expertise at the ready with HP Hardware Next Business Day Onsite Service with Defective Media Retention, and vastly improve your product uptime. With high-quality remote assistance or convenient onsite support available the next business day, help is there when you need it—so you can get back to work.

Product number: UE344E

HP Z6 G4 Workstation

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.windows.com
 2 HP Client Security Suite features vary by platform.
 3 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 is not a measurement of higher performance
- hardware and software configurations, Intel's numbering is not a measurement of highe
 5 AGI separately or as an optional feature.
 5 HP Z Premium Front I/O 2xUSB-A 2xUSB-C is sold separately or as an optional feature.
 6 HP dual-port 10GBase-T NIC is sold separately or as an optional feature.
 7 Available in the first half of 2019.
 Screen image courtesy of Chris McLennan
 Screen image courtesy of Renault Sport Racing
 8 Supported only with Yeon 2xX 6xxx 5xxx and 4215 processors. Available as factory

- Supported only with Xeon 82xx, 52xx, and 4215 processors, Available as factory configured in Memory Mode or Storage Mode, See Quick Specs for more information.

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.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

- * For hard drives and solid state drives, 1 GB = 1 billion bytes. Actual spread may vary. Double Layer media compatibility 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. No support for DVD RAM.
- 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. 7 HP VR Ready Configurations available.
- 7 HP VR Ready Configurations available.
 8 For systems installed with Microsoft Windows 7 (Ultimate, Enterprise or Professional), the maximum accessible system memory is 192 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Pro), the maximum accessible system memory is 512 GB. Wireless access point and internet access proint and internet access point and internet

- 20 Available in the first half of 2019.

 Note that for the proof of the Windows 10 Pro is preinstalled. Windows 7 media is only available upon request from HP Customer Support. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one

- ²¹ Windows 11 Pro and Windows 10 Pro is preinstalled. Windows 7 media is only available upon request from HP Customer Support. 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.

 ²² NOTE: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

 ²³ Notes: For detailed Linux® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix

 ²⁴ Intel® 1350-14 dual/quad-port GbE NIC is sold separately or as an optional feature.

 ²⁵ Not all features are available in all editions or versions of Ubuntus, Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates.

 ²⁶ TCC Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C® connector. ENERGY STAR available with a combination of high-performance CPU's, high-performance GPU's and select memory configurations.

Sign up for updates hp.com/go/getupdated

Copyright © 2019 HP Development Company, L.P. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Xeon and Intel vPro are trademarks of Intel Corporation or subsidiaries in the U.S. and/or other countries. Bluetooth is a trademark of its proprietor and used by HP Inc. under license. USB Type-CTM and USB-CTM are trademarks of USB Implementers Forum. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. DisplayPortTM and the DisplayPortTM logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. AMD and Radeon are trademarks of Advanced Micro Devices, Inc. NVIDIA. The NVIDIA logo and Quadro are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. All other trademarks are the property of their respective owners.

