business

HP Z6 G4 Workstation

A future-proof powerhouse

HP recommends Windows 11 Pro for

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.



• 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 graphics-intensive 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 PCIe 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





*Product image may differ from actual product

HP Z6 G4 Workstation Specifications Table

*Product image may differ from actual produc	*
Available Operating Systems	Windows 11 Pro for Workstations ^{1,21,22} Windows 11 Pro for Workstations ^{1,21,22} Windows 11 Pro for Workstations (reinstalled with Windows 10 Pro Downgrade for Workstations) ¹ Ubrutiz 20.04 UT5 ²⁵ HP Installer K1 for Linux ^{0,21} Ref Haf ⁰ Enterprise Linux ^{0,21} Ref Haf ⁰ Enterprise Linux ^{0,21} HP Linux ⁰ Installer K1 for Linux ^{0,21} (HP Linux ^{0,21})
Processor family	Intel [®] Xeon [®] Scalable processor
Available Processors ^{2,3}	Intel [®] Near 9 Store 42.1 RE 2.4 GHz base frequency, up 0.3.5 GHz with Intel [®] Turbo Boost Technology, 25 BH I3 cache, 15 cores); Intel [®] Xeom [®] Store 42.15 GHz base frequency, up 0.3.6 GHz with Intel [®] Turbo Boost Technology, 25 BH I3 cache, 15 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.6 GHz with Intel [®] Turbo Boost Technology, 27 BH I3 cache, 15 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.6 GHz with Intel [®] Turbo Boost Technology, 27 BH I3 cache, 15 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.6 GHz with Intel [®] Turbo Boost Technology, 27 BH I3 cache, 15 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.0 GHz with Intel [®] Turbo Boost Technology, 27 BH I3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.7 GHz with Intel [®] Turbo Boost Technology, 27 BH I3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.7 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3.7 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 5 cores); Intel [®] Xeom [®] Giod 51.20 GHz base frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 16 cores); Intel [®] Xeom [®] Giod 62.42 CHz BHz frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 16 cores); Intel [®] Xeom [®] Giod 62.42 CHz BHz frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SH BH3 cache, 16 cores); Intel [®] Xeom [®] Giod 62.42 CHz BHz frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 35 ST MBH3 cache, 16 cores); Intel [®] Xeom [®] Giod 62.42 CHz BHz frequency, up 0.3 GHz with Intel [®] Turbo Boost Technology, 27 SHB1 cache, 16 cores); Intel [®] Xeom [®] Giod 62.42 CHz BHz fre
	3245 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores); Intel® Xeon® W-3265 (2.7 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 33 MB L3 cache, 24 cores)
Chipset	htgh 622
Maximum memory	384 GB DDR4-2666 ECC RAM; 768 GB DDR4-2933 ECC RAM ²⁰ Transfer rates up to 2933MT/s.
Memory slots	12 DIMM with 2 processors
Internal storage	up to 300 GR54 (f 1500 mm ⁴ 500 GB to 2 71 GR41 R700 mm ⁴ 11 Bu ob 5 18 7200 mm ⁴ 21 Bu ob 5 18 7200 mm ³ 25 GB up to 7 18 SAR SED 0pal 250 ⁴ 26 GB up to 7 21 GR4 SED 0pal 250 ⁴ 26 GB up to 72 mb of 28 SAR SED 0pal 250 ⁴ 26 GB up to 17 He 72 Tub of the PCIe ⁴ NMe ⁴⁴ SD ⁴ 27 SG GB up to 17 He 72 Tub of the PCIe ⁴ NMe ⁴⁴ SD ⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ NMe ⁴⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ NMe ⁴⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ NMe ⁴⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ SD M ²⁴ 28 GB up to 17 He 72 Tub of the PCIe ⁴ SD M ²⁴
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} (##opticaldriveavailnote##)
Available Graphics	Entry 3D: NURUR # TAOJ (G GE COBRG dedicated); NURUA [®] Deadro [®] PEGJ (C GE COBRG dedicated) Mid-ange 3D: AND Radeon [®] Pro WI 3200 (G GE GODRS dedicated); NURUA [®] (Loadro [®] # 1000 (G GE GODRS dedicated); NURUA # 11000 (G GE GODRS dedicated); High-end 3D: NVIDIA # TX [™] A4500 (2) GE GODRS dedicated); NVIDIA [®] (Loadro [®] # 1000 (G GE GODRS dedicated); AMD Radeon [®] Pro W5700 (G GE GODRS dedicated); AMD Radoon [®] Pro W5700 (G GE GODRS dedicated); AMD Radoo
Expansion slots	3 PCIe x4; 1 PCIe x8; 2 PCIe x16; 2 N2 PCIe 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 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: 5 USB 3.1 (a): E214-615 (06): Lando-mit audio-mit 1 PS/2 mouse port; 1 PS/2 keyboard port; 1 serial; (Premium front includes: 1 headset, 2 USB 3.1 Gen 1 (1 charging), 2 USB 3.1 Gen 2 Type-C ^m .)
Input devices	HP Wireless Business Slim Keyboard and mouse combo; HP 320K Wired Keyboard; HP USB Business Slim Keyboard; USB Premium wired keyboard; USB Smart Card CCID keyboard ¹⁰ ; 3D connexion CADMouse; HP USB Optical Mouse; HP PS/2 Mouse; HP USB Hardened Mouse ¹⁰ ;
Communications	LAY: HP-dual-port 10GBase-TNIC: Intel [®] 1210-T1 PCIe [®] OBE; Intel [®] X550-T2 dual-port GbE NIC; Intel [®] X710-DA2 dual-port GbE NIC; Intel [®] 129-LM PCIe [®] GbE; NVDIA [®] Mellanox ConnectX+6 DX Dual Port 10/25GbE 5FP28 NIC; Atlied Telesis AT-291 1172- 901 dual-port 10GE NIC; Intel [®] 130-74 dual-port GbE (NIC) Intel [®] 10 GbE 5FP-5 SR transceiver; IN-25 dual-port GbE NIC; Intel [®] 129-LM PCIe [®] GbE; NVDIA [®] Mellanox ConnectX+6 DX Dual Port 10/25GbE 5FP28 NIC; Atlied Telesis AT-291 437(J) NIC Intel [®] Dual Bond Witeless-AE G258 D20: L11ably/and C220, WT+8 [®] at Bluender 42 Corton, on revPo [®] ;
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; ^{14,15,18}
Power	1000 Winternal power supply, up to 90% efficiency, active PFC, 700 Winternal power supply, up to 90% efficiency, active PFC.
Dimensions	16.9 x 46.5 x 44.5 cm
Weight	Starting at 1.1. kg; (Exact weight depends on configuration.)
Ecolabels	EPEAT [®] registered configurations available; TC0 Certified configurations available ^{11,26}
Energy star certified (series fixed)	ENERCY STAP [®] certified
Sustainable impact specifications	Low halopen ¹²
Compatible displays	
Warranty	All HP Z Displays and HP DreamColor Displays are supported. 3 year (3-3-3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)



Receive 5 years of next business day onsite HW Support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. **Product number: U7944E**

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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

⁴ Sold 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 featur

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 Xeon 82xx, 62xx, 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 Pullicare is designed to improve performance of certain software products. Net all customers or software applications will necessarily benefit from uses designed to improve 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 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 applications for Intel vPro technology is a first endology is a first endology."

dependent on 3rd party software providers, Microsoft Windows required. ⁴ 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. ⁵ 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. No support for DVD RAM.

6 With Blue-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.

⁹ Wireless access point and Internet access required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11 ac WLAN devices.

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¹² External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen. (Note: optional low-halogen power cables are available for some countries in Europe) ¹³ HP Remote Graphics Software requires a Windows, Linux[®], or Mac[®]OS X 10.10 and newer operating system and network access. ¹⁴ HP Sure Start Gen3 is available on HP EliteBook, HP ZBook, and HP Z Workstation products equipped with Intel[®] 7th generation processors.

15 HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite platforms with BIOS version F.03 or higher

¹⁶ Each bay is configurable to 2.5" or 3.5".
¹⁷ NVIDIA® Quadro® SYNC II sold separately

¹⁸ HP Keyed Cable Lock Kit is available only as an aftermarket option ¹⁹ HP dual-port 10GBase-T NIC is sold separately or as an optional feature ²⁰ Available in the first half of 2019.

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 Linux² OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix
 ²⁴ Intel[®] 1350-74 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 Ubuntu. 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

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