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	
	Windows 11 Pro for Workstations; ^{1,2,1,2} Windows 10 Pro for Workstations; ^{1,2,1,2} Windows 10 Pro fiy Workstations; ^{1,2,1,2}
vailable Operating Systems	Ubuntu 20.04 LT5 ²⁻⁹ HP Installer Kif for Linux ^{46,23}
- Tunada Spending Systems	Red Hat* Enterprise Linux*23 (HP Linux*2) (HP Linux*2) (HP Linux*2) (HP Linux*2) (HP Linux*2) (HP Linux*2) (HP Linux*3) (HP Linux*4) (H
	second operating system.)
rocessor family	Intel® Xeon® Scalable processor
Available Processors ^{2,3}	Intel® Keon® Silver 4214R (2.4 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 116 MBL 3 cache, 12 cores); Intel® Keon® Silver 4215R (3.2 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 22 MBL 3 cache, 12 cores); Intel® Keon® Gold 518 (2.3 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 22 MBL 3 cache, 12 cores); Intel® Keon® Gold 5218 (2.3 GHz base frequency, up to 3.9 GHz base frequency, up to 3.9 GHz base frequency, up to 3.0 GHz base frequency, up to 4.0 GHz base frequency, up to 4.0 GHz base frequency, up to 3.0 GHz base frequency, up to 3.0 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 24.75 MB 13 cache, 8 cores); Intel® Xeon® Gold 6230 RC 2.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology
hipset	Intel® (622
faximum memory	384 GB DDR4-2666 ECC RAM; 768 GB DDR4-2933 ECC RAM ²⁰ Transfer rates up to 2933MT/6.
Memory slots	Trainer white 3 processors 12 DIMM with 2 processors
Territory stock	up to 300 GB 75 JR 60 (5000 rpm) ⁴
	500 GB up to 2 TB SAÑA (7/200 rpm) ⁴ up to 500 GB ANA SED (7/200 rpm) ⁴
	1 TB up to 6 TB 7200 rpm SATÁ Enterprise ⁴ 256 GB up to 2 TB SATÁ SSD ⁹
nternal storage	256 GB up to 512 GB 547h SED Opal 2 SSD ⁴ 240 GB up to 480 GB 547h Etreprise SSD ⁴
	256 GB up to 1 TB HP Z Turbo Drive PCle® NVMe™ SSD ⁴
	256 GB up to 1 TB HP Z Turbo Drive PCle® NVMe™ SSO M.2⁴ 256 GB up to 15 CB GH PZ Turbo Drive PCle® NVMe™ SSO M.2⁴
	256 GB up to 8 TB HP Z Turbo Drive Quad Pro PCle* SSD 4 256 GB up to 4 TB HP Z Turbo Drive Quad Pro PCle* SSD 4
Additional storage	HP SD 4 Media Card Reader (optional)
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer ^{5,5}
	Entry 3D: NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NVIDIA® T600 (4 GB GDDR6 dedicated); NVIDIA® T400 (2 GB GDDR6 dedicated) Mid-range 3D: AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated); NVIDIA RTX™ A2000 (6 GB GDDR6 dedicated)
Available Graphics	High-end 3D: NVIDIA® Ousdro RTX™ 4000 (8 GB GDDR6 dedicated); NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated); AMD Radeon™ Pro W5500 (8 GB GDDR5 dedicated); AMD Radeon™ Pro W5700 (8 GB GDDR5 dedicated); AMD RADEON™ ATX™ A5000 (20 GB GDDR6 dedicated); AMD RADEON™ A5000
	Ultra Hinh- end 3D. NVIDIA® Quadro SYNC II; NVIDIA® Quadro RTX™ 5000 (16 GB GDDR6 dedicated); NVIDIA® RTX™ A5000 (24 GB GDDR6 dedicated); NVIDIA® RTX™ A5000 (48 GB GDDR6 dedicated); AVIDIA® RTX™ A5
	3 PCIe x4.1 PCIe x8.2 PCIe x16.2 M.2 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
xpansion slots	installed in 2nd M.2 slot). M.2 Slots 1 and 2: CPU up to 80 mm storage devices.)
Ports and Connectors	Front: Theadset connector; 4 USB 3.1 (1 charging); Rear: G USB 3.1 (6 10 Pc); and G (1 GbP); and G (n); a udio-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 Gen 2 Type-C™.)
nput 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 Mous HP USB Hardened Mouse ¹⁰ ;
Communications	LAN: HP dual-port 106Base-T NiC; Integrated Intel® 1219-LM PCL® GbE; Intel® 1350-T4 dual-port GbE MC; Intel® 1350-T4 dual-port GbE NiC; Intel®
Orive Bays	Two 5.25°; Two 2.5° or 3.5° ¹⁶
oftware	HP Performance Advisor; HP Remote Graphics Software (RGS);
ecurity 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
ower	1000 W internal power supply, up to 90% efficiency, active PFC; 700 W internal power supply, up to 90% efficiency, active PFC
imensions	16.9 x 46.5 x 44.5 cm
eight	Starting at 13.1 kg (Exact weight depends on configuration.)
colabels	EPEAT® registered configurations available; TCO Certified configurations available ^{11,26}
nergy star certified (series fixed)	ENERGY STAR® certified
iustainable impact specifications	Low halogen ¹²
ompatible displays	All HP Z Displays and HP DreamColor Displays are supported.
Warranty	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)

HP 5 year Next Business Day Onsite Hardware Support for Workstations



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
- 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 and/or profession of copyrighted material is strictly profibited. Actual speeds 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 Prof, the maximum accessible system memory is 192 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 192 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof), the maximum accessible system memory is 512 GB. Wireless access point and Interprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. Wireless access point and Interprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system memory is 512 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Prof, the maximum accessible system periodical systems and enterprise or Prof, the first all for systems and enterprise or Prof, the maximum accessible system memory is 512 GB. For systems and enterprise or Prof, the first all for systems and enterprise or Prof, the first all for systems and enterprise or Prof, the f

- 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.

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