HP Z8 G4 Workstation

HP's most powerful desktop workstation ²

Top-of-the-line power to fuel those who reimagine our world. When you need a workstation with the capability to run complex simulations, handle advanced Machine Learning algorithms and process huge amounts of data, the HP Z8 doesn't disappoint.



*Product image may differ from actual product

Extreme power

• Run 3D simulations and edit 8K video in real time with up to 56 processing cores and up to 3 TB high-speed memory. Certified for serious software, such as ANSYS or After Effects, you can ideate and iterate more to deliver better work in less time.

Industry-leading design and acoustics

• From the inside out, the Z8 is an engineering wonder. The modern exterior provides tool-free access to a clean, modular interior. Strategically placed vents and ducts throughout the system streamline airflow for ultra-quiet performance.

HP's most secure workstations

Advanced security features come standard on every Z8. Rest assured your device, identity and data are safe with security software like HP Client Security Suite Gen3³ and HP Sure Start Gen3⁸, the industry's first self-healing BIOS with intrusion detection.

Featuring

- Support your unique user needs with a choice of Windows 10 Pro 64 or Linux® operating systems.
- Achieve the performance you need with the ability to support two next generation Intel® Xeon® processors for up to 56 total processor cores in one system.
- Give ML developers high-performance GPU-accelerated algorithm development tools with support for the NVIDIA Deep Learning SDK and many widely used deep learning frameworks.
- Easily handle massive data sets with 24 memory slots supporting up to 3 TB of high-speed memory.
- Get ultra-flexible configuration with 7 high-performance PCIe Gen3 slots and get additional expandability supporting up to 4 PCIe storage devices with optional
- Providing a choice of 1125W, 1450W and 1700W 90% efficient power supplies, the Z8 fires up the maximum levels of processing, memory, graphics, storage and I/O
- Designed with two ports of lightning-guick 10 GbE network connection at a lower cost than standard PCIe add-in cards and with Thunderbolt™ 3 technology for fast data transfers.
- The tool-less chassis lets you quickly and easily access the interior for upgrades and maintenance.
- The Z8 workstation's modern, sophisticated look features built-in handles for easy relocation.
- Innovative acoustic design allows full range configurations to run cool and quiet for maximized productivity.
- 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.

HP recommends Windows 10 Pro for husiness

HP Z8 G4 Workstation Specifications Table







*Product in	mage may	differ f	rom a	ctual p	product
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Forts and Connectors Front 1, Houselet connector 4 USB 3.1 (I charging) Resric USB 3.1 cen 1, 12 RH-5 (I GRE): 1 audio-rut, 1 PS/2 mouse port; 1 PS/2 keyboard port; 1 serial Perman more includes: 1 headed; 2 (USB 3.1 cen 2 it paper.") Analable Keyboards	*Product image may differ from actual pro	oduct				
Part		Uhuntu 20.04 LTS ^{co}				
Part	Available Operating Systems	HP Installer Kit for Linux ^{26,23} Red Hat ^{er} Enteriorise Linux ^{26,23}				
Add Promess* Ad		Ubuntu 20.04 LTS, 64 bit version, HP Linux-ready, Red Hart [®] Enterprise Linux [®] drop-in-box, 1 year entitlement				
Part	Processor family					
Assertions		Intel® Yeon® Silve 42100 (2.4 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 13.7 MBL3 carbe, 10 cores) Intel® Yeon® Silve 4210 (2.2 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 15.5 MBL3 carbe, 10 cores) Intel® Yeon® Silve 4210 (2.2 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 15.5 MBL3 carbe, 10 cores)				
Assertions		Intel® Woom® Sulve 421 407 (2.2 GHz base Frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 16.5 MB L3 cache, 12 cores) Intel® Woom® Sulve 421 407 (2.4 GHz base Frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 16.5 MB L3 cache, 12 cores)				
Assertions		Intel® Worn® Slive 4215 (2.5 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 11 MB (3 cache, 8 cores) Intel® Worn® Slive 4215 (2.7 GHz base frequency up to 3.6 GHz with Intel® Turbo Boost Technology, 11 MB (3 cache, 8 cores)				
Assertions		Intel® Xeon® Silver 4216 (2.1 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost, Technology, 22 MB L3 cache, 16 cores)				
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Action records of the control of the		Intel [®] Norm [®] Gold 5222.3 G size base frequency, up to 3.9 GHz with Intel [®] Turbo Boost Technology, 16.5 MB L3 carbe, 4 Cores) Intel [®] Norm [®] Gold 5223.4 G size base frequency, up to 3.7 GHz with Intel [®] Turbo Boost Technology, 19.5 MB L3 carbe, 4 Cores) Intel [®] Norm [®] Gold 5223.4 G size base frequency, up to 3.7 G the with Intel [®] Turbo Boost Technology, 19.5 MB L3 carbe, 4 Cores)				
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International Content Inte		Intel® Yearn® Gold 6154 (3.0 Get base frequency up to 3.7 Get with Intel® Turbo Booss Technology, 24.75 MBL3 cache, 18 cores) Intel® Yearn® Gold 6154 (3.0 Get base frequency up to 3.7 Get with Intel® Turbo Booss Technology, 192.5 MBL3 cache, 18 cores) Intel® Yearn® Gold 6256 (2.7 Get base frequency up to 3.7 Get with Intel® Turbo Booss Technology, 192.5 MBL3 cache, 12 cores)				
International Content Inte		Intel® Xeon® Gold 6226R (2.9 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 2.2 MB L3 cache, 1.6 cores) Intel® Xeon® Gold 6220L 7.6 Lt base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 2.7 SMB L3 cache, 2.0 cores) Intel® Xeon® Gold 6220L 7.6 Lt base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 2.7 SMB L3 cache, 2.0 cores)				
International Content Inte		Intel® Xeom® Codd G230R (2.1 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 33.75 MB (3. cache, 2.6 cores) Intel® Xeom® Codd G234 (3.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 42.75 MB (3. cache, 2.6 cores) Intel® Xeom® Codd G234 (3.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 42.75 MB (3. cache, 8. cores)				
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International Content Inte	Available Processors ^{2,3}	Intel [®] Xeon [®] Gold ScAVI 2.6 GHz base frequency, up to 3.9 GHz with intel [®] Turbo Boos Exchanging 2.47.5 MB 13 carbs. 18 coresi Intel [®] Xeon [®] Gold ScAVI 2.6 GHz base frequency, up to 3.9 GHz with intel [®] Turbo Boos Technology, 24.7.5 MB 13 carbs. 18 coresi Intel [®] Xeon [®] Gold ScAVI 2.6 GHz base frequency, up to 3.9 GHz with intel [®] Turbo Boos Technology, 24.7.5 MB 13 carbs. 18 coresi				
International Content Inte	Available Processors	Intel® Monife Gold 624 (20 Bit Labse Frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 357,5 MB L3 cache, 24 cores) Intel® Monife Gold 624 (2.0 Bit Labse Frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 22 MB L3 cache, 16 cores)				
International Content Inte		Intel® Weom® Gold 56248 (3.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 3.5.7 MBL 3 cache, 2D cores) Intel® Weom® Gold 56248 (3.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 24.75 MBL 3 cache, 2D cores) Intel® Weom® Gold 56248 (3.6 GHz base frequency, us to 4.4 GHz with Intel® Turbo Boost Technology, 24.75 MBL 3 cache, 2D cores)				
Interference Inte		Intel® Mont® Colif 62 64R (3.4 GHz base framework 9.7 ST 3 MR carbs 6 cross)				
Part		Intel® Weon® Bronze 3 106 (1.7 GHz base frequency, 11 MB.13 cathe, 8 cores) Intel® Weon® Bronze 3 106 (1.0 GHz base frequency, 11 MB.13 cathe, 8 cores)				
Part		Intel® Morn® Romas 2004 (1.9 GHz base frequency, 8.25 MB.13 cide, 6 cores) Intel® Morn® (Rom (Ed. State) (2.6 GHz base frequency, 8.25 MB.13 cide, 6 cores) Intel® Morn® (Rom (Ed. State) (2.6 GHz base frequency, 1.0 a.2 CHz with brilliand Brush Potest Technology, 13.75 1.3 MB ranhe, 10 roses)				
Part		Intel® Weam® Cold 512 (0.52 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 19.5 MB (3.3 cache, 14 coxes). Intel® Weam® Cold 512 (0.62 GHz base frequency, up to 3.2 GHz with Intel® Turbo Boost Technology, 19.5 MB (3.3 cache, 14 coxes).				
Part Control		Intel® Xeon® Gold G248 (2.5 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 27.5 MB L3 cache, 20 cores)				
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Part	Chipset	Intel® C622				
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Dive Bays Two 5.25°; Four 2.5° or 3.5° 16 Software HP Performance Advisor, HP Remote Graphics Software (RGS) South Management ^{14,15,18} HP Sum Start Cent, Secure authentication: Kensington cack sict, Full volume encryption; HP Keyed Cable Lock Kit, TPM 2.0 certified; HP Secure Erase Power 1700 Winternal power supply, up to 90% efficiency, active PFC, 1125 W Internal power supply, up to 90% efficiency, active PFC Weight Starting at 49.4 b; Starting at 22.4 kg (Esset weight depends on configuration.) Energy efficiency compliance DERGY STAR** certified and EPEAT** Solver registrated unfor explicable. EPEAT* egistration varies by country. See www.epeat.net for registration status by country.						
Software HP Performance Advisor, HP Remote Graphics Software RRGS Security Management **1.518 HP Sure Start Cent's, Secure authentication; Kenniquon lock soft, Full volume encrypton; HP Keyed Cable Lock KP; TPM 2.0 certified; HP Secure Erase Power 1700 W Internal power supply, up to 90% efficiency, active PFC; 1450 W Internal power supply, up to 90% efficiency, active PFC Dimensions 8.5 x 2.17 x 17.5 (nr.2.5 n x 5.12 x 4.4.45 cm Sating at 40.9 kg (Seatting at 22.4 kg (Seatt weight depends on configuration.) Energy efficiency compliance* Discriptions of the Configuration of the Configuration and EPEAT* Sherr registrated configurations available; DISRGY STAR* certified and EPEAT* 2019 registered where applicable. EPEAT* registration varies by country. See www.epeat.net for registration status by country.						
Security management *4.15.81 HP Sure Start Gent). Secure a sutheritication: Kensington lock stor; Full volume encryption; IP Keyed Cable Lock KIC; TPM 2.0 certified; IPP Secure Exists Power 1700 W internal power supply, up to 90% efficiency, active PFC 1155 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1155 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to 90% efficiency, active PFC. 1705 W internal power supply, up to	 					
Power 1700 W Internal power supply, up to 90% efficiency, active PPC, 1450 W Internal power supply, up to 90% efficiency, active PPC 1725 W Internal power s						
Dimensions 8.5 x 21.7 x 17.5 in; 21.59 x 55.12 x 44.45 cm Weight Starting at 49.4 b; Starting at 22.4 kg (Exact weight depends on configuration.) Energy efficiency compliance. Energy						
Weight Starting at 49.4 b; Starting at 22.4 kg (Exact weight depends on configuration.) Energy efficiency compliance. ENERGY STAR** certified and EPEAT* Solver registrated configurations available; ENERGY STAR** certified and EPEAT* 2019 registered where applicable. EPEAT* registration varies by country. See www.epeat.net for registration status by country.						
Seepy efficiency compliance ¹¹ ENERGY STAR* certified and EPEAT* Sheer registered configurations available. ENERGY STAR* certified and EPEAT* 2019 registered where applicable. EPEAT* registration varies by country. See www.epeat.net for registration status by country.	Dimensions					
	Weight	Starting at 49.4 lb; Starting at 22.4 lp (Snact weight depends on configuration.)				
	Energy efficiency compliance ¹¹	EHERGY STAP® certified and EPEAT* Silver registered configurations available. EHERGY STAP® certified and EPEAT* 2019 registered where applicable. EPEAT* registration varies by country. See www.epeat.net for registration status by country.				
Sustainable impact specifications ¹² Low halogen	Sustainable impact specifications ¹²					
Compatible displays All IP 2 Displays and IP DesamColor Displays are supported.	Compatible displays					
Warrandy Protected by HP Services, including a 3 years parts, 3 years labor, and 3 years onsite service (3-3-3) standard limited warrandy. Certain restrictions. 24/7 operation will not void the HP warrandy.	Warranty	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. 24/7 operation will not void the HP warranty.				

HP Z8 G4 Workstation

Accessories and services (not included)

HP Z32 31.5-inch 4K UHD Display



Experience extraordinary, precise color and see more of your projects at one time on a display with stunning $4K^1$ resolution. **Product number: 1AA81A8**

HP Z24nf G2 23.8-inch Display



Be a productive powerhouse with the sleek HP Z24nf G2 23.8-inch Display. This virtually seamless Full HD display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen tiling, and expansive device connections.

Product number: 1JS07A8

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 Day¹ 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 Z8 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 Based on desktop workstations as of June 14, 2017 and power based on processor, graphics, memory, and power supple ³ HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
- 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 HP dual-port 10GBase-T NIC is sold separately or as an optional feature.
- Sold separately or as an optional feature.
 Available in the first half of 2018.
- ⁸ HP Sure Start Gen3 is available on HP EliteBook, HP ZBook, and HP Z Workstation products equipped with Intel[®] 7th generation processors. Screen image courtesy of Renault Sport Racing
- Screen image courtesy of Chris McLennan
- 9 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 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 Multitore 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 and/or n
- Intel vPro technology is 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 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.

 Bror 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.)
- system memory is 512 GB.

 ⁹ Wireless access point and Internet access required. Availability of publis 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 802,11ac WLAN devices
- 10 Optional or add-on feature.

 11 Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
- External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
 HP Remote Graphics Software requires a Windows, Linux®, or Mac®OS X 10.10 and newer operating system and network access.
 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 10GBASE-T Dual NIC Z6/8 G4 is sold separately or as an optional feature.
- ²⁰ The 3TB memory configuration requires 128GB DIMMs which are supported but no longer sold by HP.
 ²¹ 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
- Note: For detailed Linux® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix and lintel® 1350-T4 dual4-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 apply and additional requirements may apply over time for updates.

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