HP Z4 G4 Workstation

HP's best-selling performance workstation

Perfect for engineering, visualization and Machine Learning, HP's most popular workstation delivers disruptive performance for a wide spectrum of applications. With a choice of Intel® Xeon® or Core™ X processors, and support for dual extreme graphics, you get all you need, nothing more.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Feature-rich functionality

 The Z4 is ahead of its time with more standard features than any other single processor HP workstation. With multiple configuration options, you can choose the perfect blend of components that meet your performance requirements.

Visualization powerhouse

 Visualize your project anytime with the power to move seamlessly between 3D CAD, rendering and simulation applications. The Z4 can easily handle tasks that require high frequency processing, multiple cores and high-powered GPUs for an optimized design process.

HP's most secure workstations

Advanced security features come standard on every Z4. Rest assured your device, identity
and data are safe with security software like HP Client Security Suite Gen3² and HP Sure
Start Gen3¹⁰ featuring a self-healing BIOS.

Featuring

- Support your unique user needs with a choice of Windows 10 Pro for Workstations 64 or Linux® operating systems.¹
- Run demanding professional apps with the newest generation Intel® Xeon® processors available with up to 18 cores for powerful performance and productivity.
- Experience disruptive price-performance on multi-threaded applications, or combined workflows such as simulation based design, with Intel® Core™ X-Series processors: the high-performance single-socket processors from Intel®.8
- Get serious about graphics and reach peak productivity with access to a breadth of NVIDIA® and AMD professional graphics from entry to high-end 3D.⁴
- Install pro-grade storage hardware and elevate your storage-bound apps without sacrificing standard PCIe slots.
- The simply stunning design features front and rear handles, so you can easily relocate your system.
- Save space within your office layout with a chassis that is 10% smaller than the previous generation.
- Multiple high-speed network connections are easy and speedy with dual embedded 1GbE LAN ports with Thunderbolt™ 3 technology* for fast data transfers.^{6,9}
- 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
- Optional self-encryption drives thwart outside access so your valuable IP won't fall into the wrong hands.⁴

HP Z4 G4 Workstation Specifications Table







*Product image may diffe	r from actual product
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Available Operating Systems	Windows 11 Pro for Workstations 1-7.24 Windows 11 Pro for Workstations 1-7.24 Windows 11 Pro for Workstations (preinstalled with Windows 10 Pro Downgrade for Workstations) Windows 10 Pro 1-7.25 Wind
Processor family ^{26,30}	Intel® Core™ X-series processor; Intel® Xeon® W processor
Available Processors ^{3,29,34}	Intel® Core ** In-10900X 6.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 19.25 MB L3 cache, 2 In Orens); Intel® Core ** Intel® Cor
Chipset ^{26,27}	Intel® (422; Intel® X299
Maximum memory	512 GB DDR4-2933 ECC SDRAM (for Intel® Xeon® configurations); 256 GB DDR4-2933 non-ECC SDRAM (for Intel® Core™ X configurations) ⁸ Transfer rates up to 2666 MT/s. Transfer rates up to 2666 MT/s.
Memory slots	8 DIMM
Internal storage	up to 300 GB SAS (15000 rpm) ⁴²³ 500 GB up to 2 TB SARIA (7200 rpm) ⁴ up to 500 GB SARIA (7200 rpm) ⁴ 11 Bu pt to 8 18 7200 rpm SARIA Enterprise ⁴ 256 GB up to 2 TB SARIA SSD ⁴ 256 GB up to 2 TB SARIA SSD ⁶ 256 GB up to 15 SARIA SSD Opal 2 SSD ⁴ 240 GB up to 178 SARIA Enterprise SSD ⁴ 256 GB up to 2 TB HP 2 Turbo Drive PCIe* NMe ²⁸ SSD SSD M.2 ⁴ 256 GB up to 2 TB HP 2 Turbo Drive PCIe* NMe ²⁸ SSD SSD M.2 ⁴ 256 GB up to 18 TB HP 2 Turbo Drive PCIe* NMe ²⁸ SSD SSD M.2 ⁴ 256 GB up to 18 TB HP 2 Turbo Drive Quad Pro PCIe* SSD ^{5,43} 256 GB up to 18 TB HP 2 Turbo Drive Quad Pro PCIe* SSD ^{5,43} 256 GB up to 18 TB HP 2 Turbo Drive Quad Pro PCIe* SSD ^{5,43}
Additional storage	HPSD 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: NVIDIA® *1400 (4 GB GDDR6 dedicated); NVIDIA® *1400 (2 GB GDDR6 dedicated); AVIDIA® *1700 (2 GB GDDR6 dedicated); AVIDIA® *171000 (8 GB GDDR6 dedicated); AVIDIA® *1710000 (8 GB GDDR6 dedicated); AVIDIA® *17100000 (8 GB GDDR6 dedicated); AVIDIA® *17100000000000000000000000000000000000
Expansion slots	1 PCle 3 x16; 2 M.2 PCle 3 x4
Ports and Connectors	Front (Premium version): ; Rear: 1 audio-in; 1 audio-out; 1 PS/2 keyboard port; 1 PS/2 mouse port; 1 serial; 2 RJ-45 (1 GbE); 6 USB 3.1 Gen 1; (The Intel® Core® X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.)
Input devices	HP PS/2 Business Slim Keyboard; HP 320K Wired Keyboard; 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: Intel® 1210-11 PCIe® GbE: Intel® 1350-12 dual-port GbE NIC: Intel® X550-12 dual-port GbE NIC; Intel® X710-DA2 dual-port GbE NIC; Integrated Intel® 1210-LM PCIe® GbE; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SP28 NIC; Allied Telesis AT-29111/2-901 dual-port GbE NIC; Integrated Intel® 1210-AT PCIe® GbE; Intel® 1350-14 dual-port GbE NIC; Integrated Intel® 1210-AT PCIe® GbE; Intel® 1350-14 dual-port GbE NIC; Intel® 10 GbE SFP+ SR transceiver ²² ; WLAN: Intel® Dual Band Wireless-AC 8265 802.11 arXiv [27] (17) (17) (17) (17) (17) (17) (17) (17)
Drive Bays	Two 5.25"; Two 2.5" or 3.5" ¹⁶
Software	ZCentral Remote Boost; 13,31
Security management	Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED); HP Wolf Security Pro Edition; 714,1517,1828
Power	1000 W internal power supply, up to 90% efficiency, active PFC; 465 W internal power supply, up to 90% efficiency, active PFC; 750 W internal power supply, up to 90% efficiency, active PFC; 2
Dimensions	38.6×16.9×44.5 cm
Weight	Starting at 10.2 kg; (Exact weight depends on configuration.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available 1.35
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.

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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.
- 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. Sold separately or as an optional feature.

- Sold separately or as an optional feature.

 6 HP Z Premium Front I/O ZAVISH AZVISH- is sold separately or as an optional feature.

 8 Windows 10 Pro is preinstalled. Windows 7 is not supported on the Intel® Core™ X Series processor configurations. Configurations with the Intel® Core™ X processors support only a subset of the full features of the Z4 G4 system, including, but not limited to: memory type and maximum memory. PCle slot configurations, M.2 storage capacity, 6bE interface and manageability features. Please refer to the product QuickSpecs for complete details.

 9 Dual embedded 16bE LAN ports on Intel® Keon® processor configurations; single embedded 16bE LAN ports.

 10 HP Sure Start Gen 3 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

Technical Specifications Footnotes

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 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.
 3 Some Intel® "Pro®" functionality of this technology, such as Intel® Active management technology and intel Virtualization technology, requires additional 3'd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent to 3'd party software providers. Microsoft Windows required. Intel vPro is supported only with Intel® Yeon® configurations.
 4 For storage drivers, GB = 1 billion bytes. TB + 1 tillion bytes. At tell formated capacity is less. Up to 356f (file Virtuality) is seen yet or 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. Defeats. 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 HDM individual vary with some home DVD players and DVD-ROM drives. Note that DVD-ROM drives.
 6 For systems installed with Microsoft Windows of Utilitate, Enterprise or Professional, the maximum accessible system memory is 192 GB. Window

- 17 HP Mix/SCCM HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement .

 18 HP Keyed Cable Lock Kit is available only as an aftermarket option.

 19 MDIA® Quadro® SYNC II sold separately

 20 [210-AT, [219-V are available in Intel® Xeon® configurations only.

 21 Plan ATT (219-V are available in Intel® Xeon® configurations only.

 22 (450 And 750W power supply options are only available for Intel® Xeon® configurations.

 23 Supported only on Intel® Xeon® uprocessors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

 24 (450 And 750W power supply options are only available for Intel® Xeon® configurations.

 25 Supported only on Intel® Xeon® uprocessor configurations only.

 26 (Anailable on Intel® Xeon® w processor configurations only.

 27 Intel® Care≥ for Intel® Core™ TX-Series processor configurations only.

 28 (Intel® Care≥ for Intel® Xeon® configurations, Intel® Xeon® configurations, Intel® Xeon® of Intel® Xeon® configurations, Intel® Xeon® of Intel® Xeon® of
- information
- 30 Your product does not support Windows 8 or Windows 7. 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

- hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

 35 TCO 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.

³⁶ Front entry contain: 1 headset connector; 4 USB 3.1 (1 charging)

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