HP Z4 G5 Workstation Desktop PC



Our best-selling workhorse, now more powerful

This high-performance desktop workstation does it all. Tackle advanced workflows—from rendering and simulation to advanced video editing and massive dataset preparation. The Z4 G5 accelerates workflows across a wide range of professional apps and provides plenty of room to expand as work evolves.



 $* Product image may differ from {\it actual} {\it product}$

HP recommends Windows 11 Pro for business

- Support your unique user needs with a choice of Windows 11 Pro for Workstations, WSL2 or Linux® operating systems.⁶
- Power demanding professional workloads with up to 24 cores¹ in a next-gen Intel[®]
 Xeon[®] W CPU, plus Intel vPro[®]⁷ enhanced manageability and security, and ECC
 Memory⁸ for data reliability.
- Tackle advanced video editing, machine learning and simulation projects with up to 2 NVIDIA RTX™ A6000 or 2 AMD Radeon™ Pro W6800 GPUs.⁹
- Accelerate your workflow. Power through memory-intensive workloads with up to 512 GB DDR5 ECC memory¹⁰ for fast rendering, simulation, machine learning and video editing performance.
- Get up to 76TB of storage across a variety of device options, including new frontaccessible, hot-swappable NVMe devices with external LED and an email to alert you of any error.
- Untether your device from network cables and enjoy the flexibility to work from almost anywhere with new integrated Wi-Fi 6 without taking up a PCIe slot. ¹²
- Access the power of your Z from any device with HP Anyware¹³—remote access software delivering fast responsiveness and image quality, even in film editing and data visualizations.
- Z by HP Data Science Stack Manager provides easy access to popular data science tools and updates them automatically, to help you customize your environment on Windows or Ubuntu.¹⁴
- Work with confidence knowing your desktop is certified with leading software applications to ensure peak performance even with complex projects.
- Get enhanced support and reduce downtime. HP Smart Support¹⁵ provides support agents, secure access to device health insights, and configuration data for faster troubleshooting.
- Get a hardware-enforced, always-on defense. From the BIOS to the browser above, in, and below the OS - these constantly evolving solutions help protect from modern threats.⁵
- Keep quiet, cool and focused even at peak performance. Smart fan control keeps the system whisper-quiet by tuning fan speeds in real-time using over 20 temperature sensors.

HP Z4 G5 Workstation Desktop PC Specifications Table







*Product image may differ from actual product

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Available Operating Systems	Windows 11 Pro for Workstations ^{2,3} Ubuntu 22.04 LTS Linux® Ready ⁵ Red Hat [®] Enterprise Linux®
Processorfamily	Intel®Xeon®processor
Available Processors ⁷	Intel®Xeon®W7-2495X (2.5 GHz base frequency, up to 4.6 GHz with Intel®Turbo Boost Technology, 45 MBL3 cache, 24 cores, 48 threads); Intel®Xeon®W7-2475X (2.6 GHz base frequency, up to 4.6 GHz with Intel®Turbo Boost Technology, 37.5 MBL3 cache, 20 cores, 40 threads); Intel®Xeon®W5-2465X (3.1 GHz base frequency, up to 4.5 GHz with Intel®Turbo Boost Technology, 33.75 MBL3 cache, 16 cores, 32 threads); Intel®Xeon®W5-2455X (3.2 GHz base frequency, up to 4.4 GHz with Intel®Turbo Boost Technology, 20.25 MBL3 cache, 10 cores, 20 threads); Intel®Xeon®W5-2445 (3.1 GHz base frequency, up to 4.4 GHz with Intel®Turbo Boost Technology, 26.25 MBL3 cache, 10 cores, 20 threads); Intel®Xeon®W3-2435 (3.1 GHz base frequency, up to 4.3 GHz with Intel®Turbo Boost Technology, 22.5 MBL3 cache, 8 cores, 16 threads); Intel®Xeon®W3-2425 (3.0 GHz base frequency, up to 4.2 GHz with Intel®Turbo Boost Technology, 15 MBL3 cache, 6 cores, 12 threads); Intel®Xeon®W3-2423 (2.1 GHz base frequency, up to 4.0 GHz with Intel®Turbo Boost Technology, 15 MBL3 cache, 6 cores, 12 threads);
Chipset	ntd®W790
Form factor	Tower
Maximum memory	512 GB DDR5-4800 ECC SDRAM ¹¹ Transfer rates up to 4800 MT/s.
Memoryslots	8 DIMM
Internal storage	1 TB up to 12 TB 7200 rpm SATA Enterprise HDD ⁸ 512 GB HP Z Turbo Drive PCLe ⁹ SSD M.2 ⁸ 512 GB HP Z Turbo Drive PCLe ⁹ SSD Dal 2 M.2 SSD ⁸ 512 GB Up to 2 TB HP Z Turbo Drive PCLe ⁹ SSD ⁹
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Write ^{9,10}
AvailableGraphics	Ultra High-End: NVIDIA RTX™A6000 (48 GB GDDR6 dedicated); NVIDIA RTX™A5000 (24 GB GDDR6 dedicated); AMD Radeon™Pro W6800 (32 GB GDDR6 dedicated)³0 High-End: NVIDIA RTX™A4500 (20 GB GDDR6 dedicated); NVIDIA RTX™A4000 (16 GB GDDR6 dedicated); NVIDIA RTX™A2000 (12 GB GDDR6 dedicated); NVIDIA RTX™A2000E (12 GB GDDR6 dedicated); AMD Radeon™RX 6700 XT (12 GB GDDR6 dedicated)³0 Mid-Range: NVIDIA®T1000 (8 GB GDDR6 dedicated)³1 Mid-Range: NVIDIA®T1000 (8 GB GDDR6 dedicated); NVIDIA®T1000E (8 GB GDDR6 dedicated); AMD Radeon™Pro W6600 (8 GB GDDR6 dedicated) Entry: NVIDIA®T1000 (4 GB GDDR6 dedicated); NVIDIA®T400 (4 GB GDDR6 dedicated); AMD Radeon™RX 6400 (4 GB GDDR6 dedicated)
Audio	Realtek ALC3205-CG
Expansion slots	1 PCle 5 x 16; 2 PCle 4 x 16; 2 PCle 4 x 4 (Rear bulkhead access can beachieved through all slots but 2 PCle 4 x 8, and 2 PCle 4 x 8 are internal access only for M.2 (1 PCle 4 x 16 available when 2 nd CPU is not installed; 1 PCle 3 x 16 available only when 2 nd CPU is installed).)
Memory card device	1 SD card reader (optional)
Ports and Connectors	Front (Premium version): 2 SuperSpeed USB Type-C *20Gbps signaling rate (USB Power Delivery); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headset/microphone combo ²⁹ ; Rear: 6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 RJ-45; 1 audio-in/but
Input devices	HP 125 Wired Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard; HP 125 Black Wired Keyboard ¹³ ; HP Wired Desktop 320M mouse; HP wired desktop 128 laser mouse ¹³ ;
Communications	LAN: htel®Ethernet Network Adapter 1225-T1; Integrated htel®1219-LM PCle®GbE, vPro®, NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-2911T/2-901 dual-port 1GbE NIC; Allied Telesis AT-29145X/LC PCleFiber NIC; httl®X550-T2 dual-port NIC; HP 1 GbE LC Fiber Rex ID port; HP 10 GBASE-T Rex ID port; HP Rex ID 1 GbE single-port NIC; HP 2.5 GbE Flex/Dport; WIAh: httl® Wi-Fi6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna; httl® Wi-Fi6 AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with internal antenna 31.34;
Drive Bays	Two 9.5 mm 0DD; One 3.5"; Four PCle® M.2 SSD; Three 3.5" HDD
Software	HP PC Hardware Diagnostics UEFt; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit; HP Anyware; HP Data Science Stack; 17,18,19
Security management	Full volume encryption; HP Secure Erase; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP BIOSphere; HP Sure Run; HP Sure Click; HP Sure Sense; HP Sure Admin; HP Platform Certificate; HP Sure Start; HP Sure Recover; Self-Encrypted Drives; 2021 2223 2425 2627
Security Software Licenses	HP Wolf Pro Security Edition ²⁸
Management features	$HP\ Driver\ Packs;\ HP\ System\ Software\ Manager\ (download);\ HP\ BIOS\ Configuration\ Utility\ (download);\ HP\ Smart\ Support$
Power	525 W internal power supply, up to 90% efficiency, active PFC; 1125 W internal power supply, up to 90% efficiency, active PFC; 775 W internal power supply, up to 90% efficiency, active PFC
Dimensions	16.89x44.45x38.61cm
Weight	Starting at 10.5 kg; (Exact weights depend upon configuration (System weight only))
Ecolabels	EPEAT*registered configurations available; TC0 Certified configurations available ^{14,15}
Energy star certified (series fixed)	ENERGY STAR® certified (configurations available)
Sustainable impact specifications	Low Halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion inserts contain 80% recycled content; Ocean-bound plastic in system fan; 10% post-industrial recycled metal; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable 16.353.637.38
Compatible displays	$All\ HP\ Z\ Displays\ and\ HP\ Dream\ Color\ Displays\ are\ supported.\ For\ more\ information\ see http://www.hp.com/go/zd isplays$
Warranty	1year(1/1/1)limitedwarranty includes1yearofparts, labor andon-site repair.Termsandconditionsvarybycountry.Certainrestrictionsandexclusionsapply.

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Messaging Footnotes

- 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 for naming is not a measurement of higher performance.

 2 Optional, configurable features.
- Optional, configurable features. Configurations for 76TB storage and for front accessible NVME bays is planned to be available in the first half of 2023. Configuration for 76TB requires after-market purchase. Two front accessible NVMe bays require a 5.25
- Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP

- *Testing is not intended to demonstrate litness or U.S. Department of Defense (DOD) contract requirements or for minitary use. Testines and advantage Protection Care Pack.

 5 HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite and Workstation products. See product details for included security features and 0S requirement.

 6 Not all features are available in all editions or versions of Windows. Systems may require upgraded and for separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and and analytically intended and divisors of recountering and diditional requirements may apply and additional requirements may apply and additional requirements may apply under additional requirements. Provided the provided and provided

- Wi-Fi6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro®Essentials and Enterprise vary. See http://intel.com/vpro.

 Berror Correction Code(ECC) memory is only available on thet®Xeon®processor options.

 Graphics are sold separately oras an optional feature. Two AMD Radeom®Pro WS800 GPUs is planned to be available in the first half of 2023.

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Technical Specifications Footnotes

- Not all features are available in all editions or versions of Windows. Systems may require upgraded and \(\textit{b}\) reparately 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. SP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

 2 Windows 11 Pro for Workstations and Windows 10 Pro for Workstations can be preinstalled. 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 count installing and installing operating systems to avoid loss of your data.

 3 Note: Windows 7 and Windows 8 operating systems are not supported on this product. No Windows 7 or Windows 8 drivers will be provided on http://www.support.hp.com.

 5 Note: For detailed Linux® OS/hardware support in fromation, see: http://www.hp.com/support/linux_hardware_matrix.

 7 Intel VPo® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled wired LAN and \(\textit{b}\) requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled wired LAN and \(\textit{b}\) reserved for system recovery software.

 8 For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

 9 Duplication of copyrighted material is strictly prohibited. Actual speeds may vay. Double Layer media compatibility will widely vary with somehome DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2

 DoubleSided-Version 1.0 Media. No support for DVD RAM.

 4 With Blue-Ray certain disc, didital connection, compatibility and broefformance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is n

- 10 With Blu-Ray, certain disc, digital connection, compatibility and for 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 ¹ With Blu-Ray, certan disc, digital connection, compatibility and prientormance sisues may arise, and do not constitute detects in the product. Hawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVIor HDMIdigital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.

 ¹³ Optional or add-on feature.

 ¹³ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www. epeat. net for more information.

 ¹⁵ 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.

 ¹⁵ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

 ¹⁵ HP PerformanceAdvisor Software- HP PerformanceAdvisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www.b.np.com/usehn/workstations/performance-advisor.html.

- https://www8.hp.com/us.sen/workstations/performance-advisor.html.

 ## P Support Assistant requires Windows and Internetaccess.

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 ## P Suprover Assistant requires Windows 11 Pro or Enterprise. See https://bit.ly/2PtIT 6A_SureClickfor complete details.

 ## P Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PtIT 6A_SureClickfor complete details.

 ## P Sure Start Gen7 is available on select HP PCs and Workstations. See product specifications for availability.

 ## P Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

 ## P Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Micr
- Microsoft Office or Adobe Acrobat are installed
- ²⁴ HP Sure Run Gen 5 is available on select HP PCs and requires Windows 10 and highe

- 24 HP Sure Run Gen 5 is available on select HP PCs and requires Windows 10 and higher.
 25 HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/Lientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
 26 HP Secure Frase for themethods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erasedoes not support platforms with Intel® Optane™.
 27 HP BIOS phere Gen 6 features may vary depending on the platform and configurations.
 28 HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the licenses terms of the HP Wolf Security Software End User licenses Agreement (EULA) that can be found at https://support.hp.com/us-en/document/sh_3875769-3873014-16 as that EULA is modified by the following: 77. Term.
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- 802.11 specs 35 Percentage of ocean-bound plastic contained in each component varies by produc
- Recycled plastic content per centage is based on the definition set in the IEEE 1680.1–2018 standard.
 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
 18 Fiber cushions made from 100% recycled wood fiber and organic materials.

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