# 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 actual 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.<sup>6</sup>
- Power demanding professional workloads with up to 24 cores<sup>1</sup> in a next-gen Intel® Xeon® W CPU, plus Intel vPro®<sup>7</sup> enhanced manageability and security, and ECC Memory<sup>8</sup> 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.<sup>9</sup>
- Accelerate your workflow. Power through memory-intensive workloads with up to 512 GB DDR5 ECC memory<sup>10</sup> for fast rendering, simulation, machine learning and video editing performance.
- Get up to 76TB of storage across a variety of device options, including new front-accessible, 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 Anyware 13—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.<sup>14</sup>
- 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 Support<sup>15</sup>
  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.<sup>5</sup>
- 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 |   |
|---|---|
| Available Operating Systems                   | Windows 11 Pro for Workstations <sup>2,3</sup> Ubuntu 22.04 LTS Linux® Ready <sup>5</sup> Red Hat® Enterprise Linux®  |
| Processor family                              | Intel® Xeon® processor  |
| Available Processors <sup>7</sup>             | Intel® Xeon® W7-2495X (2.5 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 45 MB L3 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 MB L3 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 MB L3 cache, 15 cores, 32 threads); Intel® Xeon® W5-2455X (3.2 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 12 cores, 24 threads); Intel® Xeon® W5-2445 (3.1 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 26.25 MB L3 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 MB L3 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 MB L3 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 MB L3 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 MB L3 cache, 6 cores, 12 threads) |
| Chipset                                       | Intel® W790   |
| Form factor                                   | Tower   |
| Maximum memory                                | 512 GB DDRS-4800 ECC SDRAM <sup>11</sup><br>Transfer rates up to 4800 MT/s.   |
| Memory slots                                  | 8 DIMM  |
| Internal storage                              | 1 TB up to 12 TB 7200 rpm SATA Enterprise HDD <sup>8</sup> 512 GB HP Z Turbo Drive PCle® SSD M.2 <sup>8</sup> 512 GB HP Z Turbo Drive PCle® SED Opal 2 M.2 SSD <sup>8</sup> 512 GB up to 2 TB HP Z Turbo Drive Dual Pro PCle® SSD <sup>8</sup>  |
| Optical drive                                 | HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer <sup>9,10</sup>   |
| Available Graphics                            | 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) <sup>30</sup> 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) <sup>30</sup> 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 PCIe 5 x16; 2 PCIe 4 x16; 2 PCIe 4 x4 (Rear bulkhead access can be achieved through all slots but 2 PCIe 4 x8, and 2 PCIe 4 x8 are internal access only for M.2 (1 PCIe 4 x16 available when 2nd CPU is not installed; 1 PCIe 3 x16 available only when 2nd 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 <sup>29</sup> ; Rear: 6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 RJ-45; 1 audio-in/out  |
| Input devices                                 | HP 125 Wired Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard; HP 125 Black Wired Keyboard <sup>13</sup> ; HP Wired Desktop 320M mouse; HP wired desktop 128 laser mouse <sup>13</sup> ;  |
| Communications                                | LAN: Intel® Ethernet Network Adapter I225-T1; Integrated Intel® I219-LM PCIe® GbE, vPro®; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-29117X2-901 dual-port 1GbE NIC; Allied Telesis AT-2914SX/LC PCIe Fiber NIC; Intel® X550-T2 dual-port NIC; HP 1 GbE LC Fiber Flex I0 port; HP 10 GBASE-T Flex I0 port; HP 16 EAX 10 1 GbE single-port NIC; HP 2.5 GbE Flex I0 port; WLAN: Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with internal antenna; Intel® Wi-Fi 6 AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with internal antenna 31,34;  |
| Drive Bays                                    | Two 9.5 mm ODD; One 3.5"; Four PCie® M.2 SSD; Three 3.5" HDD  |
| Software                                      | HP PC Hardware Diagnostics UEFI; 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 <sup>28</sup>  |
| 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                                    | 16.89 x 44.45 x 38.61 cm  |
| Weight  | Starting at 10.5 kg; (Exact weights depend upon configuration (System weight only))   |
| Ecolabels                                     | EPEAT® registered configurations available; TCO 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 <sup>16,35,36,37,38</sup>  |
| Compatible displays                           | All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays   |
|   |   |

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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 drivers of the production of the production

- 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 \( \text{b}\) 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 backup all data files, photos, etc.) before uninstalling 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 information, see: http://www.hp.com/support/inux\_hardware\_matrix.

  7 Intel VPo® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled wired LAN and \( \textit{bir requires Windows 10} \). Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/pro.

  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 vary. 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.

  1 With Blue. Accuration disc, didital connection, compatibility and broefformance issues may arise, and do not constitute defects in the product. Flawless playback on a

- 10 With Blu-Ray, certain disc, digital connection, compatibility and broeformance 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/ussen/workstations/performance-advisor.html.

  ## P Support Assistanterquies Windows and Internetacess.

  19 HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/klientmanagement/bverview.html.

  20 HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PtIT 6A\_SureClick for complete details.

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

  22 HP Sure Recover Gen4 is availabile 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.

  23 HP 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 Microsoft Office (Word, Excel, PowerPoint) and PDF files in read
- Microsoft Office or Adobe Acrobat are installed
- <sup>24</sup> 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.
  Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month licenseterm ("Initial Term"). At the end of the hitial Term you may either (a) purchase are newal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no futures of tware updates or HP Support.
  29 Front Entry version contains: 1 headset/microphone combo; 4 Supe/Speed USB Type-A Sobps signaling rate.
  30 MVDN graphics cards denoting a letter "Frefer to long-life variants of the Card.
  31 WF-IEE requires aWF-IEE routes sold separately, to function in the 6GHz band. Availability of public wireless access points limite

- 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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