ProductSheet
HP Z4 G5 Workstation PC (A45NTUA)

HP's 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.



HP recommends Windows 11 Pro for business

Professional performance. Whisper quiet acoustics
Unlock your potential with high-end professional GPUs, a next-gen Intel® Xeon® processor, and ultra fast memory configurations. Now you can render and simulate or analyze advanced datasets faster with unthrottled, whisper quiet performance.[6]

Upgrade and expand with ease
Need to expand your workflow capabilities? Evolve your PC with plenty of space for high-end GPUs, loads of memory and storage—including front accessible NVMe bays—and even PCIe slots[3]. All easily accessible in a tool-less design.

Comprehensive security. Reliability you can trust
Trust the 360K hours of testing, certifications for pro apps, and world-class HP Wolf Security for Business[5].

Featuring

Intel® Xeon® W processor
Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor. [1]

Professional Grade Graphics
Tackle advanced video editing, machine learning and simulation projects

Ultra Fast Memory Configurations
Accelerate your workflow. Power through memory-intensive workloads with fast rendering, simulation, machine learning and video editing performance.

Specifications

Form factor	Tower
Operating system	Linux® Ready
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W3-2423 (up to 4.0 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads)[6,7]
Chipset	Intel® W790
Memory	16 GB DDR5-4800 MHz RAM (1 x 16 GB)
Memory Slots	8 DIMM
Internal Storage	1 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD
Internal drive bays	One 3.5"; Four PCIe® M.2 SSD; Three 3.5" HDD
External drive bays	Two NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays
Audio	Realtek ALC3205-CG
Minimum dimensions (W x D x H)	16.89 x 44.45 x 38.61 cm
Minimum dimensions (W x D x H)	6.65 x 17.50 x 15.20 in
Weight	Starting at 10.5 kg *(Exact weights depend upon configuration (System weight only))*
Weight	Starting at 23.2 lb *(Exact weights depend upon configuration (System weight only))*
Keyboard	HP 125 Wired Keyboard
Pointing device	HP Wired Desktop 128 Laser Mouse
Ports	2 SuperSpeed USB Type-C® 20Gbps signaling rate (USB Power Delivery); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headset/microphone combo[29]
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 are internal access only for M.2.)*
Ports	4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo
Ports	1 RJ-45; 1 audio-in/out
Package dimensions (W x D x H)	31.4 x 57.2 x 56.3 cm
Package weight	Starting at 14.35 kg
Power	775 W internal power supply, up to 90% efficiency, active PFC
Management features	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support
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
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[20,21,22,23,24,25,26,27]
Software included	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; HP Services Scan[11,17,18,19]
UPC number	198415232380

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

[1] 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.

[3] Optional, configurable features. Configuration for 92 TB requires separate additional purchase, including a Z Turbo Quad Pro storage carrier planned to be available in the second half of 2023. Two front accessible NVMe SSDs require a 5.25" bay carrier. 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.

[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.

[6] Unthrottled in Performance Mode.

Technical Specifications Footnotes

[6] Multi-core 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.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

[11] HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements . Not applicable in China.

[17] HP Performance Advisor Software - HP Performance Advisor 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://www8.hp.com/us/en/workstations/performance-advisor.html .

[18] HP Support Assistant requires Windows and Internet access.

[19] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html .

[20] HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A_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 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.

[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 or Adobe Acrobat are installed.

[24] HP Sure Run Gen5 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/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[26] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[27] HP BIOSphere Gen6 features may vary depending on the platform and configurations.

[29] Front Entry version contains: 1 headset/microphone combo; 4 SuperSpeed USB Type-A 5Gbps signaling rate.

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