

HP Z8 G5 Workstation (9Z4T5UA)



Take on processor-intensive workloads. Relentlessly

Processor-intensive workflows have met their match. The Z8 G5 offers more CPU performance than ever before, in a classic dual socket design, to accelerate rendering with real-time ray tracing, data visualization, and model training while also providing plenty of room to expand as demands change.



HP recommends Windows 11 Pro for business

Remarkable performance. Whisper-quiet acoustics

Tackle processor-intensive workflows with up to 64 cores^[1] across 2 Intel® Xeon® CPUs, 2 high-end GPUs, and 1 TB DDR5 RAM2—all while running quiet. With a world class acoustic design, push this desktop workstation to the max without disruptive noise.

Upgrade and expand with ease

Need to upgrade your device? Go for it. Easily expand and add-on components as your work evolves with room for high-end graphics cards, loads of memory and storage—including front accessible NVMe bays—PCIe slots, and tool-less access.

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® processor

Get professional-class speed to maximize your performance and uptimes on the most demanding professional workflows with the Intel® Xeon® processor. ^[1]

Professional Grade Graphics

Tackle processor-heavy rendering, machine learning, and data visualization projects.

Ultra Fast Memory Configurations

Power through memory-intensive workloads with fast CPU-dependent rendering, model training and development, and data visualization performance.

Specifications

Form factor	Tower
Operating system	Linux® Ready
Processor family	Intel® Xeon® processor
Processor	Intel® Xeon® Silver 4416+ (up to 3.9 GHz with Intel® Turbo Boost Technology, 37.5 MB L3 cache, 20 cores, 40 threads) ^[6,7]
Chipset	Intel® C741
Memory	256 GB DDR5-4800 MHz ECC RAM (4 x 64 GB)
Memory Slots	16 DIMM (with dual processors)
Internal Storage	1 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD
Hard drive (2nd)	4 TB 7200 rpm SATA HDD
Internal drive bays	Six PCIe® M.2 SSD; Six 3.5" HDD
External drive bays	Two 9.5 mm ODD
Graphics	Discrete
Graphics (discrete)	NVIDIA RTX™ 6000 Ada Generation (48 GB GDDR6 dedicated)
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)	21.59 x 55.12 x 44.45 cm
Minimum dimensions (W x D x H)	8.5 x 21.7 x 17.5 in
Weight	Starting at 22.5 kg (Exact weights depend upon configuration (System weight only))
Weight	Starting at 49.6 lb (Exact weights depend upon configuration (System weight only))
Ports	4 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ^[31]
Expansion slots	1 PCIe 3 x16; 1 PCIe 3 x8; 2 PCIe 3 x4; 1 PCIe 5 x16; 2 PCIe 4 x16; 2 PCIe 4 x8 (Rear bulkhead access can be achieved through all slots but 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).)
Ports	6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 audio-in/out; 2 RJ-45 (1 GbE AMT, 1GbE, optional 10GbE)
Package dimensions (W x D x H)	33.2 x 73.4 x 63.6 cm
Package weight	Starting at 27.95 kg
Power	1700 W internal power supply, up to 90% efficiency, active PFC; 1450 W internal power supply, up to 90% efficiency, active PFC; 1125 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 Services Scan; HP Data Science Stack Manager ^[17,18,19,37]
UPC number	198122519361

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.

[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.

Technical Specifications Footnotes

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

[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.

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

[31] Front I/O offers Battery Charging 1.2 through one of the USB Type-A ports.

[37] 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.

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