ProductSheet
HP Z6 G5 Tower Workstation (8H8K6UA)

Unleash extreme graphics performance

Accelerate AI and graphics-heavy projects—from data visualization and machine learning to real-time ray tracing and advanced visual effects. With powerful single socket technology and up to 3 high-end GPUs, the Z6 AI workstation is ideal for demanding workflows, with plenty of room to expand.



HP recommends Windows 11 Pro for business

Remarkable performance. Extraordinary expandability.
Tackle graphics-intensive workflows with up to 3 high-end GPUs[1], an Intel® Xeon® W CPU with up to 36 cores[2], and 1 TB DDR5 RAM3. Easily expand as work evolves with with tool-less access, 6 PCIe slots, 4 front accessible NVMe bays[3].

Engineered to stay cool and quiet.
Push your desktop workstation without disruptive noise. Smart fan control keeps the system whisper-quiet by tuning fan speeds in real-time using over 20 temperature sensors. Precisely placed vents and ducts streamline airflow and heat removal.

Ignite AI innovation
Accelerate AI development and inferencing with the Z6 AI workstation, with up to 3 NVIDIA RTX™ 6000 Ada Generation GPUs[4] delivering up to 4,371 AI TOPS for advanced AI. Process proprietary data securely on a local workstation to gain insights faster.

Featuring

Windows 11
Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

Intel® Xeon® W processor
Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor. [2]

Professional Grade Graphics
Tackle 4K visual effects, advanced simulation, and machine learning projects

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

Specifications

Form factor	Tower
Operating system	Windows 11 Pro
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W5-3435X (up to 4.7 GHz with Intel® Turbo Boost Technology, 45 MB L3 cache, 16 cores, 32 threads) [6,7]
Chipset	Intel® W790
Memory	64 GB DDR5-4800 MT/s ECC (4 x 16 GB)
Internal Storage	1 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD
Internal drive bays	Four PCIe® M.2 SSD; Four 3.5" HDD
External drive bays	Four NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD
Graphics	Discrete
Graphics (discrete)	NVIDIA® T400 (4 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)	16.89 x 46.48 x 44.45 cm
Minimum dimensions (W x D x H)	6.65 x 18.30 x 17.50 in
Weight	Starting at 12.8 kg *(Exact weights depend upon configuration (System weight only))*
Weight	Starting at 28.2 lb *(Exact weights depend upon configuration (System weight only))*
Keyboard	HP USB 320K Keyboard
Pointing device	HP Wired 320M Mouse
Ports	4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo[29]
Expansion slots	2 PCIe 4 x4; 2 PCIe 4 x16; 1 PCIe 3 x16; 1 PCIe 5 x16 *(Rear bulkhead access can be achieved through all slots but 2 PCIe 4 x8 are internal access only for M.2.)*
Package dimensions (W x D x H)	31.3 x 61.0 x 59.3 cm
Package weight	Starting at 17.25 kg
Power	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[6,17,18,19]
UPC number	197497761276

Top Recommended Displays, Accessories and Services

Personal Systems Commercial Care Pack Services	
HP 3 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U56NNE

Messaging Footnotes

[1] Graphics are sold separately or as an optional feature. 3 NVIDIA RTX™ A6000 GPUs are only configurable on the 1450W power supply (in 200V countries, which does not include USA).

[2] 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.

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[3] Optional, configurable features.

[4] Graphics are sold separately or as an optional feature.

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.

[29] Front entry contain: 1 headset connector; 4 SuperSpeed USB Type-A 5Gbps signaling rate. Front Entry and Front Premium offer Battery Charging 1.2 through one of the USB Type-A ports.

Learn more at

hp.com

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