ProductSheet
HP Z6 G5 A Workstation (B46ZWUA)

Maximized Cores. Astounding Graphics. Unbound Potential

The Z6 G5 A is a powerhouse for virtual production, 3D rendering, AI and machine learning. Its innovative system design, with a next-gen AMD Ryzen™ Threadripper™ PRO CPU,[1] combines an astounding number of cores in a single CPU with multiple GPUs.[2] Create and render at once on intensive projects.

HP recommends Windows 11 Pro for business

Create, render, process—all at once
Tear through virtual production, 3D modeling, AI and machine learning. The system design packs a staggering number of cores into a single workstation CPU[1] so there's room for multiple high-end GPUs.[2] And do it all with efficient performance per watt.

Expandable. Flexible. Whisper Quiet
Designed to pack all the power and components you need now with room to grow. Get maximum expandability with large storage and memory configurations. Conquer intense projects with a device designed to run quiet and cool.

Comprehensive security. Trusted reliability
Get peace of mind with a workstation that's built to endure. The Z6 G5 A undergoes 360K hours of rigorous testing, MIL-STD testing,[3] and is certified for pro apps. And with HP Wolf Security for Business, it's protected below, in, and above the OS.[4]

Featuring

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

AMD® Ryzen™ processor
Bring your ideas to life quickly and effectively with the latest AMD® Ryzen™ processors.

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

Specifications

Form factor	Tower
Operating system	Windows 11 Pro[1]
Processor family	AMD Ryzen™ Threadripper™ PRO processor
Processor	AMD Ryzen™ Threadripper™ PRO 7965WX (up to 5.3 GHz max boost clock, 128 MB L3 cache, 24 cores, 48 threads) [6,7]
Memory	256 GB DDR5-5600 MT/s ECC (4 x 64 GB)
Internal Storage	2 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD
Hard drive (2nd)	2 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD
Internal drive bays	Two 3.5" HDD; Four PCIe® M.2 SSD
External drive bays	Four NVMe™ M.2 SSD; One 9.5 mm ODD
Graphics	Discrete
Graphics (discrete)	NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated)
Audio	Realtek ALC3205-CG
Minimum dimensions (W x D x H)	16.9 x 46.5 x 44.5 cm
Minimum dimensions (W x D x H)	6.65 x 18.3 x 17.5 in
Weight	Starting at 13.2 kg *(Exact weight depends on configuration.)*
Weight	Starting at 29.1 lb *(Exact weight depends on configuration.)*
Ports	4 USB Type-A 5Gbps signaling rate (1 charging); 1 headphone/microphone combo
Expansion slots	4 PCIe 5 x16; 2 PCIe 5 x4; 1 PCIe 4 x16; 3 PCIe 4 x4 *(Rear bulkhead access can be achieved through all slots, but 2 PCIe 5 x4 and 2 PCIe 4 x4 are internal access only for M.2.)*
Ports	1 audio-in/out; 6 USB Type-A 5Gbps signaling rate; 1 RJ-45 (1 GbE)
Ports	1 USB Type-C® 20Gbps signaling rate;2 USB Type-A 5Gbps signaling rate;1 headphone/microphone combo
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	40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; Plastic cushion inserts contain 80% recycled content; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic; Internal power supply 90% efficiency; Ocean-bound plastic in system and CPU fans
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[21,22,23,24,25,26,27,28]
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[18,19,20,31]
UPC number	198828819734

Top Recommended Displays, Accessories and Services

Speakerphones	
Poly Sync 20+ USB-C Speakerphone	772D0AA
Poly Sync 20 USB-C Speakerphone	7F0J7AA
Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
Wireless Headset	
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter	8G7T9AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA
Wired Headset	
Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA

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. AMD's numbering is not a measurement of clock speed.

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

[3] 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 Accidental Damage Protection Care Pack.

[4] HP Wolf Security for Business requires Windows 10 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 OS requirement.

Technical Specifications Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately 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. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

[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. AMD's numbering is not a measurement of clock speed.

[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

[18] 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 .

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

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

[21] HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

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

[23] 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.

[24] 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.

[25] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[26] 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.

[27] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.

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

[31] 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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