HP Z6 G5 Workstation Desktop PC



Unleash extreme graphics performance

Accelerate your most graphics-intensive projects—from machine learning and simulation to advanced visual effects. The Z6 desktop workstation is redesigned with new, powerful single socket technology and now fits up to 3x more GPUs than the previous gen while also providing plenty of room to expand.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Remarkable performance. Whisper-quiet acoustics

Tackle graphics-intensive workflows with up to 3 high-end GPUs¹, an Intel[®] Xeon[®] W CPU with up to 36 cores², and 1 TB DDR5 RAM³—all while running whisper quiet. With a world class acoustic design, push your system to the max without disruptive noise.

Upgrade. Expand. Evolve

 Need to upgrade your device? Go for it. Easily expand and add-on components as your work evolves with room for up to 3 high-end graphics cards¹, 1 TB memory, 88 TB storage, 4 front accessible NVMe bays, 6 PCle slots (up to Gen 5), and tool-less access.⁵

Comprehensive security. Reliability you can trust

 Get peace of mind with a PC that's built to endure. The Z6 undergoes 360K hours of rigorous testing, military-standard testing⁶ and is certified for pro apps. And with HP Wolf Security for Business⁷, it's protected below, in and above the OS.

Maximize your IT lifecycle

- Designed for simpler IT management, the Z6 is built for longevity with a 3 year lifecycle—longer than
 entry workstations. Plan for the future and avoid re-qualifying devices every year, saving you serious
 time and money.
- Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.⁸
- Power demanding professional workloads with a transformative new single socket Intel[®] Xeon[®] W
 CPU (up to 36 cores⁹), Intel vPro[®] 10 enhanced security, and ECC Memory 11 for data reliability.
- Tackle 4K visual effects, advanced simulation, and machine learning projects with up to 3 NVIDIA RTX™
 A6000 or 2 AMD Radeon™ Pro W6800 GPUs.^{1,12}
- Accelerate your workflow. Power through memory-intensive workloads with up to 1 TB DDR5 memory³ for fast machine learning, visual effects, and simulation performance.
- Get up to 72TB of storage across a variety of devices, including new front-accessible, hot-swappable NVMe devices with status information via external LED and email notifications.¹³
- 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 PCle slot.¹⁴
- ThunderboltTM 4 technology ¹⁵ for fast data transfers, two optional USB3.2 SuperSpeed Type-C[®] connectors for data transfer rates up to 20Gbps, and two ports of 10 GbE network connection.
- Access the power of your Z from any device with HP Anyware¹⁶—remote access software delivering
 fast responsiveness and image quality, even in film editing and data visualizations.
- Get enhanced support and reduce downtime. HP Smart Support* provides support agents, secure access to device health insights, and configuration data for faster troubleshooting. 17
- 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.¹⁸
- Keep quiet, cool and focused even at peak performance. Smart fan control keeps the system whisperquiet by tuning fan speeds in real-time using over 20 temperature sensors.
- Work with confidence knowing your desktop is certified with leading software applications to ensure peak performance even with complex projects.

HP Z6 G5 Workstation Desktop PC Specifications Table







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Available Operating Systems	Windows 11 Pro for Workstations ^{2,3} Ubuntu 22.04 LTS Linux® Ready ⁵ Red Hat® Enterprise Linux®		
Processor family	Intel® Xeon® processor		
Available Processors ⁷	Intel® Xeon® W9-3475X (2.2 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 82.5 MBL3 cache, 36 cores, 72 threads); Intel® Xeon® W7-3465X (2.5 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 75 MBL3 cache, 28 cores, 56 threads); Intel® Xeon® W7-3455 (2.5 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 67.5 MBL3 cache, 24 cores, 48 threads); Intel® Xeon® W7-3445 (2.6 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 52.5 MBL3 cache, 20 cores, 40 threads); Intel® Xeon® W5-3435X (3.1 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 45 MBL3 cache, 16 cores, 32 threads); Intel® Xeon® W5-3425 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3425 (2.1 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MBL3 cache, 12 cores, 24 threads); Intel® Xeon® W5-3423 (2.1 G		
Chipset	Intel® W790		
Form factor	Tower		
Maximum memory	512 GB DDR5-4800 ECC SDRAM ¹¹ Transfer rates up to 4800 MT/s.		
Internal storage	1 TB up to 12 TB 7200 rpm SATA Enterprise HDD ⁸ 512 GB up to 2 TB HP Z Turbo Drive PCle® SSD M.2 ⁸ 512 GB up to 2 TB HP Z Turbo Drive PCle® SED Opal 2 M.2 SSD ⁸ 512 GB up to 2 TB HP Z Turbo Drive PCle® SED Opal 2 M.2 SSD ⁸ 512 GB up to 2 TB HP Z Turbo Drive Dual Pro PCle® SSD ⁸		
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer ^{9,10}		
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); NVIDIA RTX™ 6000 Ada Generation (48 GB GDDR6 dedicated) High-End: NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated); NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated); NVIDIA RTX™ A4500 (12 GB GDDR6 dedicated); NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated); NVIDIA RTX™ A5000 (12 GB GDDR6 dedicated); AMD Radeon™ RX 6700 XT (12 GB GDDR6 dedicated) Mid-Range: NVIDIA® T1000 (8 GB GDDR6 dedicated); AMD Radeon™ Pro W6600 (8 GB GDDR6 dedicated) Entry: NVIDIA® T1000 (4 GB GDDR6 dedicated); NVIDIA® T400 (4 GB GDDR		
Audio	Realtek ALC3205-CG		
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, 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 headphone/microphone combo ²⁹ ; Rear: 6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 audio-in/out; 2 RJ-45 (1 GbE AMT, 1GbE, optional 10GbE); Optional Ports: Flex IO port – choose one of the following options: 2 SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate. 1 Serial		
Input devices	HP 125 Wired Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard ¹³ ; HP wired desktop 128 laser mouse; HP Wired 320M Mouse ¹³ ;		
Communications	LAN: Intel® Ethernet Network Adapter 1225-T1; Integrated Intel® 1219-LM PCIe® GbE, vPro®; Intel® X550-T2 dual-port 10GbE NIC; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE 5FP28 NIC; Allied Telesis Ar-29117/2-901 dual-port 16bE NIC; Allied Telesis Ar-2914SX/LC PCIe Fiber NIC; HP 10 GBASE-T Flex 10 port; HP Flex 10 1 GbE single-port NIC; HP 2.5 GbE Flex 10 port; WLAN: Intel® Wi-Fi GE AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna; Intel® Wi-Fi G AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna; Intel® Wi-Fi G AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with internal antenna 31.34;		
Drive Bays	One 3.5" HDD; Two 9.5 mm ODD; Four PCle® 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 Manager; 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; ^{20,21,22,23,24,25,26,27}		
Security Software Licenses	HP Wolf Pro Security Edition ²⁸		
Management features	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support		
Power	1450 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 46.48 x 44.45 cm		
Weight	Starting at 12.8 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 16.35.36.37.38		
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

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| Graphs: are sold sep aretely or as an optional feature. 3 NNDIR RTX**A6000 GPUs are only configurable on the 1450W power supply fin 200V countries, which does not include USA).

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| Authorised separate of more preformance configuration is high sumbering, branding and broaming is not a measurement of high per performance.

| Application of the preformance of the

Technical Specifications Footnotes

- Not all features are available in all editions or versions of Windows. Systems may require upgraded and br 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. SP fees may apply and additional required artifour separategy purchased randware, drivers, software or box by drafted to take that warring and enabled. High speed internet and Microsoft account required. SP fees may apply and additional requirements may apply und additional require power time for updates. See thisty://www.windows.com.

 2 Windows 11 Pro for Workstations can be preinstalled. You may only use on eversion of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up 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® 05/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix.

 7 Intel VPro® requires Windows 10 Pro 6 4 bit or higher, avPro supported processor, vPro enabled chipset, vPro enabled wired LAN and DrW.-Fi6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Exercicities and Extensionality Republic Combiners.

Essentials and Enterprise vary. See http://intel.com/vpro.

B 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

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 **Po Duplication of copyrighted material sist richt als peeds may away. Double Leaper media compatibility will wild by vary with some home DVD players and DVD-ROM drives. No support for DVD RAM.

 **D With Blu-Ray, certain disc, digital connection, compatibility and/or performance 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 DVI or HOMI digital connection and your displaymay require HDCP support. HD-DVD movies cannot be played on this Desktop PC.

 **The PEB memory configuration requires 128GB DIMMs which is planned to be available in the first half of 2023.

 JO ptional or add-on feature.

 Based on US EPEAT registration according to EEE 1680.1-2018 EPEAT*. Status varies by country. Visit www.epeat.net for more information.

 STOC artific on forwards or and show the NERCY STAR and registration according to the PEAT. On forwards or status or and solve the performance Of UK* high perfor

- 14 Optional or add-on feature.

 18 Based on DS EPEAT® registration according to EEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

 15 TCO critified configurations available when ENRRGY STAR configurations are selected with a USB Type-C® connector. ENRRGY STAR available with a combination of high-performance CPUs, high-performance GPUs and select memory configurations.

 15 External power cords, cables and peripherals are not low had logen. Service parts obtained after purchase may not bellow had logen.

 17 HP Performance Advisor S oftware HP Performance Advisor is ready and waiting to help you get themost out of your HP Workstation from day one—and every day after. Learn more or download at: https://www.hp.com/usken/horkstations/performance-advisor is ready and waiting to help you get themost out of your HP Workstation from day one—and every day after. Learn more or download at: https://www.hp.com/usken/ads/skientmanagement/beveivew.html.

 19 HP Sure Post (ske requires Windows and Internet access.)

 19 HP Manageabitity hitegration Kit can be downloaded from http://www.b.hp.com/usken/ads/skientmanagement/beveivew.html.

 20 HP Sure Start Gen 7 is available on select HP PCs and workstations. See product specifications for availability.

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 24 HP Sure Start Gen 7 is available on select HP PCs and requires Windows 10 and higher.

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 27 HP Sure Start Gen 7 is available on select HP PCs and requires Windows 10 and higher.

 28 HP Sure Start Gen 7 is available o

- -- Petcentage on cean-routing prastic contained in each component varies by product.

 36 Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

 37 Outside box and corrugated cushions are 100% sustainably sourced and recyclable 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

 38 Fiber cushions made from 100% recycled wood fiber and organic materials.

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