HP Z8 G5 Workstation Desktop PC

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.

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 RAM[2]—all while running whisper quiet. With a class-leading 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 components as your work evolves with room for up to 2 high-end graphics cards, 1 TB memory, 136 TB storage, 2 front accessible NVMe bays, 7 PCIe slots (up to Gen 5), and tool-less access.[3]

Comprehensive security. Reliability you can trust

Get peace of mind with a PC that's built to endure. The Z8 undergoes 360K hours of rigorous testing, military-standard testing[4] and is certified for pro apps. And with HP Wolf Security for Business[5], it's protected below, in and above the OS.

Maximize your IT lifecycle

Designed for simpler IT management, the Z8 is built for longevity with a 3 year lifecycle—longer than typical business PCs. Plan for the future and avoid re-qualifying devices every year, saving you serious time and money.[2,6]

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Operating Systems

Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.[6]

Intel® Xeon® Processors

Power demanding professional workloads with more CPU performance than ever before—up to 64 cores[7] with 2 next-gen Intel® Xeon® CPUs—and professional grade security[8] and reliability[9].

Professional Grade Graphics

Tackle processor-heavy rendering, machine learning, and data visualization projects with up to 2 NVIDIA RTX™ 6000 Ada Generation GPUs or 2 AMD Radeon™ Pro W6800 GPUs.[10]

Ultra Fast Memory Configurations

Power through memory-intensive workloads with up to 1 TB DDR5 memory[11] for fast CPU-dependent rendering, model training and development, and data visualization performance.

Storage

Get up to 136 TB of storage across a variety of devices, including two front accessible, hot-swappable NVMe devices with status information via external LED.[3]

Word Class Design & Acoustics

Keep quiet, cool and focused even at peak performance. Smart fan control keeps the system whisper-quiet by tuning fan speeds in real-time using over 20 temperature sensors.

Fast Data Transfer and Network Connectivity

Thunderbolt™ 4 technology[12] for fast data transfers, and two ports of lightning-quick 10 GbE network connection at a lower cost than standard PCIe add-in cards.

HP Anyware

Access the power of your Z from any device with HP Anyware[13]—remote access software delivering fast responsiveness and image quality, even in film editing and data visualizations.

Smart Support with HP TechPulse

Get enhanced support and reduce downtime. HP Smart Support provides support agents, secure access to device health insights, and configuration data for faster troubleshooting.

Z by HP Data Science Stack Manager

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.[15]

ISV Certified

Work with confidence knowing your desktop is certified with leading software applications to ensure peak performance even with complex projects.

HP Wolf Security for Business

Get a hardware-enforced, always-on defense. From the BIOS to the browser - above, in, and below the OS - these constantly evolving solutions help protect from modern threats.[5]

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Specifications Table

Available Operating Systems	Windows 11 Pro for Workstations[2,3] Ubuntu 22.04 LTS Linux® Ready[5] Red Hat® Enterprise Linux®[5]
Processor family	Intel® Xeon® Scalable processor
Available Processors[6,7,30]	Intel® Xeon® Gold 6448Y (2.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 60 MB L3 cache, 32 cores, 64 threads) Intel® Xeon® Gold 6444Y (3.6 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 45 MB L3 cache, 16 cores, 32 threads) Intel® Xeon® Gold 6442Y (2.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 60 MB L3 cache, 24 cores, 48 threads) Intel® Xeon® Gold 6438Y+ (2.0 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 60 MB L3 cache, 32 cores, 64 threads) Intel® Xeon® Gold 6434 (3.7 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 22.5 MB L3 cache, 8 cores, 16 threads) Intel® Xeon® Gold 6430 (2.1 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 60 MB L3 cache, 32 cores, 64 threads) Intel® Xeon® Gold 6426Y (2.5 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 37.5 MB L3 cache, 16 cores, 32 threads) Intel® Xeon® Gold 5420+ (2.0 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 52.5 MB L3 cache, 28 cores, 56 threads) Intel® Xeon® Gold 5418Y (2.0 GHz base frequency, up to 3.8 GHz with Intel® Turbo Boost Technology, 45 MB L3 cache, 24 cores, 48 threads) Intel® Xeon® Gold 5416S (2.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 32 threads) Intel® Xeon® Gold 5415+ (2.9 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 22.5 MB L3 cache, 8 cores, 16 threads) Intel® Xeon® Silver 4416+ (2.0 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 37.5 MB L3 cache, 20 cores, 40 threads) Intel® Xeon® Silver 4410Y (2.0 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 12 cores, 24 threads)
Chipset	Intel® C741
Form factor	Tower
Maximum memory	1 TB DDR5-4800 ECC SDRAM [11] Transfer rates up to 4800 MT/s.
Memory slots	16 DIMM (with dual processors)
Internal storage	1 TB up to 12 TB 7200 rpm SATA Enterprise HDD[8,40] 512 GB up to 2 TB HP Z Turbo Drive NVMe™ M.2 SSD[8] 512 GB up to 4 TB HP Z Turbo Drive PCIe® SSD M.2[8] 512 GB up to 4 TB HP Z Turbo Drive PCIe® SED Opal 2 M.2 SSD[8] 512 GB up to 4 TB HP Z Turbo Drive Dual Pro PCIe® SSD[8] 512 GB up to 4 TB HP Z Turbo Drive PCIe® SSD[5,41]
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)[29] High-End: NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated) NVIDIA® A4000E (16 GB GDDR6 dedicated) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) NVIDIA RTX™ A2000E (12 GB GDDR6 dedicated)[29] Mid-Range: NVIDIA® T1000 (8 GB GDDR6 dedicated) NVIDIA® T1000E (8 GB GDDR6 dedicated) AMD Radeon™ Pro W6600 (8 GB GDDR6 dedicated) Intel® Arc™ Pro A40 (6 GB GDDR6 dedicated)[29] Entry: NVIDIA® T1000 (4 GB GDDR6 dedicated) NVIDIA® T400 (4 GB GDDR6 dedicated) AMD Radeon™ RX 6400 (4 GB GDDR6 dedicated)[39]
Audio	Realtek ALC3205-CG
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).)
Memory card device	1 SD card reader (optional)
Ports and connectors	Front: 4 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo[31] ; Rear: 6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 audio-in/out; 2 RJ-45 (1 GbE AMT, 1GbE, optional 10GbE) ; Optional Ports: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

HP Z8 G5 Workstation Desktop PC

Specifications Table

Keyboard	HP USB Business Slim SmartCard CCID Keyboard; HP USB 320K Keyboard; HP 125 Black Wired Keyboard[13]
Mouse	HP wired desktop 128 laser mouse; HP Wired 320M Mouse[13]
Communications	LAN:Intel® Ethernet Network Adapter I225-T1; Integrated Intel® I219-LM PCIe® GbE, vPro®; Integrated Intel® I210-AT PCIe® GbE, non-vPro®; HP dual-port 10GBase-T NIC; Intel® X550-T2 dual-port GbE NIC; Intel® X550-T2 dual-port 10GbE NIC; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-2911T/2-901 dual-port 1GbE NIC; Allied Telesis AT-2914SX/LC PCIe Fiber NIC; HP 10 GbE SFP+ SR LC Fiber transceiver; HP 25 GbE SFP28 LC Fiber transceiver[39]; WLAN:Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna[12,32];
Drive Bays	External: Two 9.5 mm ODD; Internal: Six PCIe® M.2 SSD; Six 3.5" HDD
Software[17,18,19,37]	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
Security management[20,21,22,23,24,25,26,27]	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
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	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 PFC1700 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
Dimensions	8.5 x 21.7 x 17.5 in; 21.59 x 55.12 x 44.45 cm; 13.07 x 28.90 x 25.04 in 33.2 x 73.4 x 63.6 cm (Package)
Weight	Starting at 49.6 lb; Starting at 22.5 kg; (Exact weights depend upon configuration (System weight only))
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available[14,15]
Energy star certified	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[16,33,34,35,36]
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays

HP Z8 G5 Workstation Desktop PC

Messaging Footnotes

[1] 64 cores is enabled through installation of two CPUs. 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.
[2] Optional, configurable features.
[3] Optional, configurable features. Configuration for 136TB 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.
[4] 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.
[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 and OS requirement.
[6] 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 .
[7] 64 cores is enabled through installation of two CPUs. 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.
[8] Professional grade security is enabled with Intel vPro®2 Enterprise technologies. Intel vPro® Enterprise technologies are available only on Intel® Xeon® W-3400 and Intel® Xeon® W-2400 processors. Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro .
[9] Error Correction Code (ECC) Memory enables enhanced data reliability. ECC memory is only available on Intel® Xeon® processor options.
[10] Graphics are sold separately or as an optional feature.
[11] Up to 1 TB DDR5 memory is an optional, configureable feature.
[12] Thunderbolt™ 4 technology and two ports of 10 GbE network connection are planned to be available in the second half of 2023. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
[13] Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentral Connect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: https://docs.teradici.com/find/product/hp-anyware .
[14] HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, or it can be downloaded. For more information about how to enable HP Smart Support or to download, please visit http://www.hp.com/smart-support .

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 .
[2] Windows 11 Pro for Workstations can be preinstalled. You may only use one version 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® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix .
[6] 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.
[7] Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro .
[8] 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.
[9] Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. No support for DVD RAM.
[10] 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 HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.
[11] The 2TB memory configuration requires 128GB DIMMs which is planned to be available in the first half of 2023.
[12] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
[13] Optional or add-on feature.
[14] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
[15] TCO Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C® connector. ENERGY STAR available with a combination of high-performance CPU's, high-performance GPU's and select memory configurations.
[16] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[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.
[28] HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.
[29] NVIDIA graphics cards denoting a letter "E" refer to long-life variants of the card.
[30] Y = Supports Intel Speed Select Technology - Performance Profile 2.0 (Intel SST-PP) + = Feature plus SKUs denote support of built-in accelerators (QuickAssist, Dynamic Load Balancer, In-memory Analytics Accelerator) for workload optimized acceleration.
[31] Front I/O offers Battery Charging 1.2 through one of the USB Type-A ports.
[32] Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
[33] Percentage of ocean-bound plastic contained in each component varies by product.
[34] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[35] 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
[36] Fiber cushions made from 100% recycled wood fiber and organic materials.
[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.
[39] The NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC requires a transceiver in order to connect to a network. Transceivers sold separately.
[40] Starting November 1, 2023, HP PCs with Windows require Windows to be installed on SSD. HDD can only be configured as additional data drives and not as the boot drive.
[41] Available late 2023.

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October 2023