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.

Create, render, process—all at once

Tear through virtual production or 3D modeling. The system design packs up to 96 cores in a single workstation CPU¹ so there's room for up to three high-end GPUs³ and eight memory channels.⁴ 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 up to 6 PCIe slots (up to gen 5) and 12 NVMe SSDs.⁵ Conquer intense projects without throttling on 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,⁶ and is certified for pro apps. And with HP Wolf Security for Business, it's protected below, in, and above the OS.⁷

Part of the world's most sustainable PC portfolio⁸

At HP, we care about the impact our products have on our people, communities, and the planet. That's why this device contains 40% recycled plastics⁹ and is EPEAT® Gold registered.¹⁰ Take pride knowing that you are helping protect our shared future.









Operating Systems

Support your unique user needs with a choice of Windows 11 Pro¹¹ or Linux® operating systems.³

AMD Processor

Power the most demanding professional workloads with a next-gen AMD RyzenTM ThreadripperTM PRO CPU, delivering incredible performance for increased productivity and to get more done in less time.¹

Professional Grade Graphics

Tackle virtual production, visual effects, advanced 3D modeling, or AI and machine learning projects with up to 3 NVIDIA RTX[™] 6000 Ada or 1 AMD Radeon[™] Pro W7900 GPU.¹⁸

Ultra-Fast Memory Configurations

Accelerate your workflow. Power through memory-intensive workloads with up to 1 TB DDR5 memory¹³ at 5200Mhz for fast visual effects, compositing, and rendering performance.

Storage

Flexible storage options include 4 onboard, tool-less M.2 connections and 4 front-accessible, hot-swappable NVMe devices with status information via external LED and email notifications.⁵

World 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.

ISV Certified

Work with confidence knowing your AMD-based workstation is certified by leading software vendors to ensure peak performance even on complex projects.

Fast Data Transfer and Network Connectivity

Available with Thunderbolt[™] 4 technology,¹⁴ a USB 3.2 SuperSpeed Type-C[®] 20 Gbps signaling rate port, and/or two 10 GbE network ports for fast data transfer and network connectivity.

HP Anyware software

Access the power of the Z6 G5 A from any device with HP Anyware software,¹⁵ delivering fast responsiveness and image quality, even under varying network connections.

HP Anyware Remote System Controller

When paired with Z by HP desktops IT managers can perform out-of-band management tasks such as pre-boot access, BIOS updates, and re-imaging —from anywhere.¹⁶

Smart Support with HP TechPulse

Get enhanced support and reduce downtime. HP Smart Support¹⁷ provides support agents, secure access to device health insights, and configuration data for faster troubleshooting.

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.⁷



Specifications Table

Available Operating Systems	Windows 11 Pro ^{1,2} Ubuntu 22.04 LTS ³ Linux® Ready ³ Red Hat® Enterprise Linux® ³
Processor family	AMD Ryzen™ Threadripper™ PRO processor
Available Processors	AMD Ryzen™ Threadripper™ Pro 7995WX (2.5 GHz base clock, up to 5.1 GHz max boost clock, 384 MB L3 cache, 96 cores, 192 threads) AMD Ryzen™ Threadripper™ Pro 7985WX (3.2 GHz base clock, up to 5.1 GHz max boost clock, 256 MB L3 cache, 64 cores, 128 threads) AMD Ryzen™ Threadripper™ Pro 7975WX (4.0 GHz base clock, up to 5.3 GHz max boost clock, 128 MB L3 cache, 32 cores, 64 threads) AMD Ryzen™ Threadripper™ Pro 795WX (4.2 GHz base clock, up to 5.3 GHz max boost clock, 128 MB L3 cache, 32 cores, 64 threads) AMD Ryzen™ Threadripper™ Pro 795WX (4.2 GHz base clock, up to 5.3 GHz max boost clock, 128 MB L3 cache, 24 cores, 48 threads) AMD Ryzen™ Threadripper™ Pro 7955WX (4.5 GHz base clock, up to 5.3 GHz max boost clock, 64 MB L3 cache, 16 cores, 32 threads) AMD Ryzen™ Threadripper™ Pro 7945WX (4.7 GHz base clock, up to 5.3 GHz max boost clock, 64 MB L3 cache, 12 cores, 24 threads)
Product colour	Black
Form factor	Tower
Maximum memory	1 TB DDR5-5600 ECC SDRAM Transfer rates up to 5200 MT/s.
Internal storage	1 TB up to 12 TB 7200 rpm SATA Enterprise HDD ⁵ 512 GB up to 4 TB HP Z Turbo Drive NVMe [™] M.2 SSD ⁵ 512 GB up to 4 TB HP Z Turbo Drive PCIe® SSD M.2 ⁵ 512 GB up to 4 TB HP Z Turbo Drive PCIe® SED Opal 2 M.2 SSD ⁵ 512 GB up to 4 TB HP Z Turbo Drive Dual Pro PCIe® SSD ⁵ 512 GB up to 4 TB HP Z Turbo Drive Quad Pro PCIe® SSD ^{5.41}
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer ^{6,7}
Available Graphics	Ultra High-End: NVIDIA RTX [™] 6000 Ada Generation (48 GB GDDR6 dedicated) AMD Radeon [™] Pro W7900 (48 GB GDDR6 dedicated) NVIDIA® A800 (40 GB GDDR6 dedicated) High-End: NVIDIA RTX [™] 4500 Ada Generation (24 GB GDDR6 dedicated) NVIDIA RTX [™] 4500 Ada Generation (24 GB GDDR6 dedicated) NVIDIA RTX [™] 4500 Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX [™] 4000 Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX [™] 4000 Ada Generation (16 GB GDDR6 dedicated) NVIDIA RTX [™] 4000 (16 GB GDDR6 dedicated) NVIDIA RTX [™] 42000 (12 GB GDDR6 dedicated) NVIDIA RTX [™] 42000 (12 GB GDDR6 dedicated) AMD Radeon [™] Pro W7500 (8 GB GDDR6 dedicated) AMD Radeon [™] Pro W7500 (8 GB GDDR6 dedicated) NVIDIA RTX [™] A1000 (8 GB GDDR6 dedicated) NVIDIA RTX [™] A1000 (8 GB GDDR6 dedicated) NVIDIA RTX [™] A1000 (4 GB GDDR6 dedicated) AMD Radeon [™] RX 6400 (4 GB GDDR6 dedicated) NVIDIA® T400 (4 GB GDDR6 dedicated)
Audio	Realtek ALC3205-CG
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.)
Memory card device	1 SD card reader (optional)
Ports and connectors	Front: 4 USB Type-A 5Gbps signaling rate (1 charging); 1 headphone/microphone combo ; Rear: 1 audio-in/out; 6 USB Type-A 5Gbps signaling rate; 1 RJ-45 (1 GbE) ; Optional Ports: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); Flex IO – choose one of the following options: 2 USB Type-A 5Gbps signaling rate, 1 USB Type-C® 10Gbps signaling rate, 1 serial, 1 HP 1 GbE LC fiber NIC, 1 HP 10 GBase-T NIC, 1 HP 1 GbE single-port NIC, 1 HP 2.5 GbE NIC; Front Premium Version: 1 USB Type-C® 20Gbps signaling rate, 2 USB Type-A 5Gbps signaling rate, 1 headphone/microphone combo



Specifications Table

Keyboard	HP 125 Wired Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard ¹⁰
Mouse	HP Wired Desktop 128 Laser Mouse; HP Wired 320M Mouse ¹⁰
Communications	LAN: HP dual-port 10GBase-T NIC; Intel® X550-T2 dual-port 10GbE NIC; Allied Telesis AT-2911T/2-901 dual-port 1GbE NIC; Allied Telesis AT-2914SX/LC PCIe Fiber NIC; HP 1 GbE LC Fiber Flex IO port; HP 10 GBASE-T Flex IO port; HP Flex IO 1 GbE single-port NIC; HP 2.5 GbE Flex IO port; Integrated Realtek 1 GbE LAN; Intel® Ethernet Network Adapter I226-T1; WLAN: Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna; MediaTek Wi-Fi 6 RZ616 (2x2) and Bluetooth® 5.3 wireless card with internal antenna;
Drive Bays	External: Four NVMe™ M.2 SSD; One 9.5 mm ODD; Internal: Two 3.5" HDD; Four PCIe® M.2 SSD
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 Services Scan HP Data Science Stack Manager ^{18,19,20,31}
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}
Security Software Licenses	HP Wolf Pro Security Edition ²⁹
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; 1275 W internal power supply, up to 90% efficiency, active PFC
Dimensions	6.65 x 18.3 x 17.5 in; 16.9 x 46.5 x 44.5 cm; 12.32 x 23.35 x 24.02 in; 31.3 x 59.3 x 61.0 cm (Package)
Weight	Starting at 29.1 lb; Starting at 13.2 kg; Starting at 40.23 lb; Starting at 18.3 kg (Package) ; (Exact weight depends on configuration.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available ^{11,12}
Energy star certified	ENERGY STAR® certified (configurations available)
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 ^{13,14,15,16,17}



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.

Graphics are sold separately or as an optional feature

Graphics are sold separately or as an optional feature Optional, configurable feature

⁵ Optional, configurable features. For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes, Actual formatted capacity is less. Up to

Optional, computate readures, rob a torage dirves, Go 1 billion bytes. IS – 1 million bytes, Actual ionimistic dapacity is ress. Option 55GB is reserved for system recovery software.
⁶ 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.

Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for

Comparison of the provide the second seco

⁹ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard

¹⁰ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www

information.
¹¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased
¹² 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 . ¹² Graphics are sold separately or as an optional feature. Three NVIDIA RTX™ 6000 Ada GPUs are only configurable on the 1450W

¹² Graphics are sold separately or as an optional feature. Three NVIDIA RTX[™] 6000 Ada GPUs are only configurable on the 1450W power supply (in 200V countries, which does not include USA).
¹³ Optional, configurable feature. 128GB DIMMs available early 2024.
¹⁴ SuperSpeed USB 20Gbps is not available with Thunderbolt[™] 4. 20Gbps is available with USB 3.2 SuperSpeed Type-C. Thunderbolt[™] 4 not planned to be available until mid-2024.
¹⁵ 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 subscription deconcerting the construct) with a minimum endor concurrent. 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 subscription also includes access and support for Z-central Hemote boost and Z-central Connect and is available for purchase through an HP reseller or contact sales at the p.com/Anyware. Z-central Remote Boost Sender requires Windows 10 and 11, RH-L/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. Z-Central 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. ¹¹ HP Anyware. Controller is sold separately and requires internet access. Automation of tasks and viewing system information only available with select 2 desktop workstations, see datasheet for details. HP Anyware Integrated Remote System Centrality active constribution of 20 biol separately and requires internet access. Automation of tasks and viewing system

Controller not compatible with Z2 Mini platforms and not recommended for non-Z devices. HP service and support not available for non-Z devices. Full suite of hardware alerts available with select Z desktop workstations. See datasheet for details. HP Anyware Remote System Management must be purchased separately and is required for fleet management and viewing of consolidated reports from all vices. Planned to be available 2H of 2023.

devices. Planned to be available 2H of 2023. ¹⁷ HP Smat 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. ¹⁶ Graphics are sold separately or as an optional feature. Three NVIDIA RTXM- 6000 Ada GPUs is compatible with up to a 16C AMD RyzenTM ThreadripperTM PRO 7000 WX-Series CPU and requires 1450W power supply in 220V/230V/240V outlets. AMD RadeonTM Pro

W7900 GPU planned to be available 1H 2024

Technical Specifications Footnotes

¹ Windows 11 Pro 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 Tequine you to ultrastant one version and instant ne uner uner uner version. Four must back up an oata (mes, photo, et al., pleore antiastant) and installing operating systems to avoid loss of your data.¹ A tot 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.

vs 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

Note: For detailed Linux® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix ⁵ 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. ⁶ 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. some home DVD players and DVD-ROM drives. No support for DVD RAM. 7 With BiL-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. ⁶ Wi-Fi BE requires a Wi-Fi BE router, sold separately, to function in the GRHz band. Availability of public wireless access points limited. ⁶ Wi-Fi BE reguires a Wi-Fi BE router, sold separately, to function in the GRHz band. Availability of public wireless access points limited.

⁹ Wi-Fi 6 is an optional feature that must be configured at the time of purchase. 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. Optional or dd-on feature 11 Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more

nformation

Information. ¹² 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 CPUs, high-performance GPUs and select memory configurations. ¹³ This product is low halogen except for HP Z Turbo Quad Pro PCIe TLC SSD, power cords, cables, and peripherals. Service parts obtained after purchase may not be Low Halogen. CRU QX448 removable storage frames are not low halogen. ¹⁴ Percentage of ocean-hound industic contained in each composate under the service of the serv

Percentage of ocean-bound plastic contained in each component varies by product

¹⁵ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard

¹³ Recycled plastic content percentage is based on the definition set in the IEEE 1660.1-2018 standard.
 ¹⁴ 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.
 ¹⁸ Piber cushions made from sustainably sourced certified and recycled fibers.
 ¹⁹ 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/cifek from complex devices.
 ²¹ HP Support (extramines Windows 11 Pron or Emergies. See Statistic (bit M2021 T6A. Sureflick from complex devices.

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

² HP Sure Static Very is a variable on select HP PCs and requires an open network connection. You must back up important files, ³ 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. ⁴ HP Sure Sense requires Windows 11 Pr or c 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

⁶ PF Security Erase for the internous obtained in the valorital instantiation and rectiniougy spectral point and internation over-8.
⁸ PF BIOSphere Gen6 features may vary depending on the platform and configurations.
⁸⁰ PF Wolf Pro Security Edition is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license with a term flexific communicated to you at purchase and in your order confirmation email. 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: Intervide and the testing control of the rest of the r order confirmation email ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro

order confirmation email ("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. Notwithstanding the foregoing, the license shall expire no later than one year after the fixed term of the subject license ends. 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 applications. For full system requirements or to disable tris feature, please visit thtp://www.hpdaes.com/requirements. Not applicable in China. ⁴⁰ The following components will not be available at product launch. Availability differs hy component with a target evailability of end-

⁴⁰ Control (place of the second provide and the second provide

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