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.

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 testing 6 and is certified for pro apps. And with HP Wolf Security for Business 7 , 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.







Additional Features

Operating Systems

Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.8

Intel® Xeon® W Processors

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 Memory¹¹ for data reliability.

Professional Grade Graphics

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}

Ultra Fast Memory Configurations

Accelerate your workflow. Power through memory-intensive workloads with up to 1 TB DDR5 memory³ for fast machine learning, visual effects, and simulation performance.

Storage

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

Integrated Wi-Fi® Enablement

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 PCIe slot. 14

Fast Data Transfer and Network Connectivity

ThunderboltTM 4 technology¹⁵ 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.

HP Anyware

Access the power of your Z from any device with HP Anyware ¹⁶—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.¹⁷

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.¹⁸

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 desktop is certified with leading software applications to ensure peak performance even with complex projects.

Specifications Table

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 MB L3 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 MB L3 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 MB L3 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 MB L3 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 MB L3 cache, 16 cores, 32 threads) Intel® Xeon® W5-3433 (2.0 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 45 MB L3 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 MB L3 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 MB L3 cache, 12 cores, 24 threads)
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 Dual Pro PCle® SSD ⁸
Optical drive	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer 9.10 (##opticaldriveavailnote##)
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 (16 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (12 GB GDDR6 dedicated) NVIDIA RTX™ A2000 (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® T1000 (4 GB GDDR6 dedicated) NVIDIA® T400 (4 GB GDDR6 dedicated) Intel® Arc™ Pro A40 (6 GB GDDR6 dedicated) Intel® Arc™ Pro A40 (6 GB GDDR6 dedicated)
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
Keyboard	HP 125 Wired Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard ¹³
Mouse	HP wired desktop 128 laser mouse; HP Wired 320M Mouse ¹³

Specifications Table

Communications	LAN:Intel® Ethernet Network Adapter I225-T1; Integrated Intel® I219-LM PCIe® GbE, vPro®; 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 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;
	WLAN:Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna; Intel® Wi-Fi 6 AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with internal antenna ^{31,34} ;
Drive Bays	External: One 3.5" HDD; Two 9.5 mm ODD; Internal: Four PCIe® M.2 SSD; Three 3.5" HDD
Software ^{17,18,19}	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
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	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	6.65 x 18.30 x 17.50 in; 16.89 x 46.48 x 44.45 cm
Weight	Starting at 28.2 lb; 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	ENERGY STAR® certified (configurations available)
Sustainable impact	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
specifications	box is 100% sustainably sourced and recyclable ^{16,35,36,37,38}

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).

 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
- Optional, configurable features. Configuration for 1 TB DDR5 memory is planned to be available in the first half of 2023.
- ⁵ Optional, configurable features. Configurations for 1TB memory, 88TB of storage, and front accessible NVME bays are planned to be available in the first half of 2023. Configuration for 88TB requires separate additional purchase. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB 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.

 7 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.

 8 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com .
- ⁹ 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.

 10 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
- 11 Error Correction Code (ECC) Memory enables enhanced data reliability. ECC memory is only available on Intel® Xeon®
- processor options. 12 3 NVIDIA RTX $^{\text{M}}$ A6000 GPUs are only configurable on the 1450W power supply (in 200V countries, which does not
- include USA).

 13 Configurations for 88TB of storage and for front accessible NVME bays is planned to be available in the first half of 2023. Configuration for 88TB requires after-market purchase. Two front accessible NVMe bays require a 5.25 bay carrier. Fo storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB is reserved for system
- recovery software.

 14 Enabled through a flex I/O port. 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 spec-
- Two ports of 10 GbE network connection is planned to be available in the first half of 2023. SuperSpeed USB 20Gbps is not
- available with Thunderboth 4.

 16 Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Reneware 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:
- $https://docs.teradici.com/find/product/hp-anyware . \\ ^{17} HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level or the product of the product to deliver device-level or the product of the$ 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
- ¹⁸ Z by HP Data Science Stack Manager requires Windows 10 version 21H2 (Build 19044) and higher or 64-bit Ubuntu 20.04

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.

 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
- 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.
- Note: For detailed Linux® OS/hardware support information, see: http://www.hp.com/support/linux_hardware_matrix
- 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 require a DVI or Home require section of this Desktop PC.

 11 The 2TB memory configuration requires 128GB DIMMs which is planned to be available in the first half of 2023.

- 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
- External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase

 16 External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase
- 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 .
- HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
 HP Sure Start Gen7 is available on select HP PCs and Workstations. See product specifications for availability.
 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
- 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 HF
- 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.

 31 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.

 34 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
- Percentage of ocean-bound plastic 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 and recyclable 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
- Fiber cushions made from 100% recycled wood fiber and organic materials

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