HP's best-selling workhorse, now more powerful



This high-performance desktop workstation does it all. Tackle advanced workflows—from rendering and simulation to advanced video editing and massive dataset preparation. The Z4 G5 accelerates workflows across a wide range of professional apps and provides plenty of room to expand as work evolves.

Professional performance. Whisper quiet acoustics

Master intense workflows with up to 2 high-end professional GPUs, 24 cores¹ in a next-gen Intel® Xeon® W processor and 512 GB of memory.² Now you can render and simulate or analyze advanced datasets faster with unthrottled, whisper quiet performance.¹⁶

Upgrade. Expand. Evolve

Need to expand your workflow capabilities? Evolve your PC with space for up to 2 high-end GPUs, 512 GB memory, 92 TB storage, 2 front accessible NVMe bays, and even 5 PCIe slots (Gen 4/5).³ All easily accessible in a tool-less design.

Comprehensive security. Reliability you can trust

Get peace of mind with a PC that's built to endure. The Z4 undergoes 360K hours of rigorous testing, military-standard testing⁴ and is certified for pro apps. And with HP Wolf Security for Business⁵, it's protected below, in and above the OS.

Maximize your IT lifecycle

Designed for simpler IT management, the Z4 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.







Operating Systems

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

Intel® Xeon® W Processors

Power demanding professional workloads with up to 24 cores¹ in a next-gen Intel® Xeon® W CPU, plus Intel vPro®⁷ enhanced manageability and security, and ECC Memory⁸ for data reliability.

Professional Grade Graphics

Tackle advanced video editing, machine learning and simulation projects with up to 2 NVIDIA RTX™ 6000 Ada Generation GPUs or 2 AMD Radeon™ Pro W6800 GPUs.⁹

Ultra Fast Memory Configurations

Accelerate your workflow. Power through memory-intensive workloads with up to 512 GB DDR5 ECC memory¹⁰ for fast rendering, simulation, machine learning and video editing performance.

Storage

Get up to 92 TB of storage across a variety of device options, including two front-accessible, hot-swappable NVMe devices with external LED.¹¹

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. ¹²

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.

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.¹⁴

ISV Certified

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

Smart Support with HP TechPulse

Get enhanced support and reduce downtime. HP Smart Support¹⁵ provides support agents, secure access to device health insights, and configuration data for faster troubleshooting.

HP Wolf Pro Security

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

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.

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® W7-2495X (2.5 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 45 MB L3 cache, 24 cores, 48 threads) Intel® Xeon® W7-2475X (2.6 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 37.5 MB L3 cache, 20 cores, 40 threads) Intel® Xeon® W7-2465X (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 33.75 MB L3 cache, 16 cores, 32 threads) Intel® Xeon® W5-2455X (3.2 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 12 cores, 24 threads) Intel® Xeon® W5-2445 (3.1 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 26.25 MB L3 cache, 10 cores, 20 threads) Intel® Xeon® W3-2435 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 22.5 MB L3 cache, 8 cores, 16 threads) Intel® Xeon® W3-2425 (3.0 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads) Intel® Xeon® W3-2423 (2.1 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads)
Chipset	Intel® W790
Form factor	Tower
Maximum memory	512 GB DDR5-4800 ECC SDRAM 11 Transfer rates up to 4800 MT/s.
Memory slots	8 DIMM
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 ^{8,39} 512 GB up to 4 TB HP Z Turbo Drive PCle® SSD M.2 ⁸ 512 GB up to 4 TB HP Z Turbo Drive PCle® SSD M.2 ⁸ 512 GB up to 4 TB HP Z Turbo Drive PCle® SSD Opal 2 M.2 SSD ⁸ 512 GB up to 4 TB HP Z Turbo Drive Dual Pro PCle® SSD ⁸ 512 GB up to 4 TB HP Z Turbo Drive Quad 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™ 4500 (20 GB GDDR6 dedicated) NVIDIA RTX™ A5000 (24 GB GDDR6 dedicated) NVIDIA RTX™ A5000 (24 GB GDDR6 dedicated) NVIDIA RTX™ A5000 (24 GB GDDR6 dedicated) NVIDIA RTX™ 6000 Adda Generation (48 GB GDDR6 dedicated) NVIDIA RTX™ 5000 Adda Generation (48 GB GDDR6 dedicated) NVIDIA RTX™ 5000 Adda Generation (32 GB GDDR6 dedicated) NVIDIA RTX™ 5000 Adda Generation (32 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (12 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (12 GB GDDR6 dedicated) NVIDIA RTX™ A4000 (12 GB GDDR6 dedicated) NVIDIA RTX™ A4000 Add Generation (24 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Add Generation (24 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Add Generation (24 GB GDDR6 dedicated) NVIDIA® T1000 (8 GB GDDR6 dedicated) NVIDIA® T1000 (8 GB GDDR6 dedicated) AMD Radeon™ Pro W7500 (8 GB GDDR6 dedicated) AMD Radeon™ RX 6400 (4 GB GDDR6 dedicated) Intel® Arc™ Pro A400 (6 GB GDR6 dedicated)
Audio	Realtek ALC3205-CG
Expansion slots	1 PCIe 5 x16; 2 PCIe 4 x16; 2 PCIe 4 x4 (Rear bulkhead access can be achieved through all slots but 2 PCIe 4 x8 are internal access only for M.2.)
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 headset/microphone combo ²⁹ ; Front (Entry version): 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo; Rear: 1 RJ-45; 1 audio-in/out; Optional Ports: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

Specifications Table

Mouse H	
	HP Wired Desktop 320M mouse; HP wired desktop 128 laser mouse ¹³
Communications F	AN:Intel® Ethernet Network Adapter I225-T1; Integrated Intel® I219-LM PCIe® GbE, vPro®; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-29117/2-901 dual-port 1GbE NIC; Allied Telesis AT-2914SXLC PCIe Fiber NIC; Intel® X550-T2 dual-port NIC; HP 1 GbE LC Fiber Flex IO port; HP 10 GBASE-T Flex IO 1 GbE single-port NIC; HP 2.5 GbE Flex IO port; HP 10 GbE SFP+ SR LC Fiber transceiver; HP 25 GbE SFP28 LC Fiber transceiver ³² ; 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} ;
	External: Two NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD; nternal: One 3.5"; Four PCle® M.2 SSD; Three 3.5" HDD ³⁹
F F Software F F F	HP PC Hardware Diagnostics UEFI HP Performance Advisor HP Support Assistant HP PC Hardware Diagnostics Windows HP PC Hardware Diagnostics Windows HP Image Assistant HP Manageability Integration Kit HP Anyware HP Anyware HP POSTA Science Stack HP Services Scan ^{11,17,18,19}
Security management H	Full volume encryption HP Secure Erase (ensington lock slot Secure authentication TPM 2.0 certified HP BIOSphere HP Sure Run HP Sure Click HP Sure Click HP Sure Sense HP Sure Sense HP Sure Sense HP Sure Start HP Sure Recover
Security Software Licenses	P Wolf Pro Security Edition ²⁸
Management features	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support
Power e	1125 W internal power supply, up to 90% efficiency, active PFC; 775 W internal power supply, up to 90% efficiency, active PFC; 525 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
	5.65 x 17.50 x 15.20 in; 16.89 x 44.45 x 38.61 cm; 12.36 x 22.52 x 22.17 in 31.4 x 57.2 x 56.3 cm (Package)
	Starting at 23.2 lb; Starting at 10.5 kg; Exact weights depend upon configuration (System weight only))
Ecolabels E	PEAT® registered configurations available; TCO Certified configurations available ^{14,15}
Energy star certified E	ENERGY STAR® certified (configurations available)
Sustamable impact	ow Halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion nserts 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 A	All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays

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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

³ Optional, configurable features. Configuration for 92 TB 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

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 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

Unthrottled in Performance Mode.

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

enables. They are the interiest and windows account required. IS rece may apply and administrate interior and you were that updates. See http://www.windows.com.

7 Intel VPr0® Enterprise technologies are available only on Intel® Xeon® W-3400 and Intel® Xeon® W-2400 processors. Intel VPr0® requires Windows 10 Pro 6 4 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 VPr0® Essentials and Enterprise vary. See http://intel.com/vpro

B Error Correction Code (ECC) memory is only available on Intel® Xeon® processor options

9 Graphics are sold separately or as an optional feature. Two AMD Radeon™ Pro W6800 GPUs is planned to be available in the first half

The Error Correction Code (ECC) memory is only available on Intel® Xeon® processor options.

10 Optional, configurable features. Configuration for 92 TB 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. The storage three in the second half of 2023. Two front accessible storage is the second of the storage drives, GB = 1 billion bytes. The storage drives is the storage of the storage drives are storage of the storage drives.

² Enabled through a flex I/O port. Wireless access point and Internet service required and sold separately. Availability of put

¹² 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 of (802.11ax) is access points limited. Wi-Fi of (802.11ax) internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi of (802.11ax) in a subscription term. 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 http. com/Anyware. ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 9), 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 Management for the Admin Girdes as a three "Windows server (2016 or 2019) and any system and to install HP Anyware and Anyware Management for the Admin Girdes as a three "Microsoft Active". Manager, refer to the Admin Guides at: https://docs.teradici.com/find/product/hp-anyware .

¹⁴ Z by HP Data Science Stack Manager requires Windows 10 version 21H2 (Build 19044) and higher or 64-bit Ubuntu 20.04 and is

available on select Z workstations.

15 HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration

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 and Windows 10 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

e 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 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

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. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided Version 1.0 Media. 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

¹² With Blu-Pay, certain disc, digital connection, compability and/or performance issues may arise, and do not constitute defects in the product. Flawbess playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may retire a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.
¹¹ 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 autically. 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.

Opitional of add-on rectains.
¹⁴ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more

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.

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

from day one-and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html

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

Per since language in integration in a can be commonated in the printips. The language in the since the

that, a block, 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

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 "Clear"

Secure Erase for the memous outlined in the National institute of Standards and lectenology Special Publication 8:00-88 "Clear aution method. HP Secure Erase does not support platforms with Intel® Optane".

BIOSphere Genß features may vary depending on the platform and configurations.

Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, nding 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 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 (35) 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.

3º Front Entry version contains: 1 headset/microphone combo; 4 SuperSpeed USB Type-A 5Gbps signaling rate.

3º MVIDIA graphics cards denoting a letter "E" refer to long-life variants of the card.

3º MVIDIA graphics cards denoting a letter "E" refer to long-life variants of the card.

3º MVIDIA graphics cards denoting a letter "E" refer to long-life variants of the CGHz band. Availability of public wireless access points limited.

3º MVIDIA graphics vards commatible with prior R9 11 spers. And available in countries where W.F.I EF is supported.

Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.

32 The NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC requires a transceiver in order to connect to a network.

Yell-Gibbs. So 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.

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

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

100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
 150 ber ushions made from 100% recycled wood fiber and organic materials.
 150 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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