Extreme performance. Infinite possibilities

Experience a new echelon in high performance. Transformative single socket technology delivers extreme performance with up to 56 cores in a single CPU, to also unleash the power of up to 4 high-end GPUs. Now you can breeze through even the most complex deep learning, virtual production, and VFX.

Relentless power. Extraordinary expandability

Tackle the most complex workflows with up to a 56 core Intel® Xeon® W CPU¹, up to 4 high-end GPUs, 2TB DDR5 RAM, 136 TB storage and 2,250W of power. ^{2,3} Easily expand as work evolves with 8 PCle slots (up to Gen 5), and 4 front accessible NVMe bays.

Engineered to stay cool and quiet

Push your desktop workstation without disruptive noise. Smart fan control keeps the system whisper-quiet by tuning fan speeds in real-time using over 20 temperature sensors.

Precisely placed vents and ducts streamline airflow and heat removal.

Redundant power. Reassuring reliability

Never worry that your PC will fail mid-project. For the first time in a Z desktop workstation get a redundant power supply⁴ for built-in backup. This PC also undergoes 360K hours of rigorous testing, military-standard testing⁵ and ISV certifications.

*產品圖片可能與實際產品不同

在操作中實現可持續性

Solutions for smarter workflows

Remotely access the power of your Z with HP Anyware 6 . Get fast responsiveness and image quality even in high-end workflows. Save time with WSL2 7 , enabling Linux to run in Windows. Get easy access to tools from the Z by HP Data Science Stack Manager 8 .



功能特色

Operating Systems

Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.9

Intel® Xeon® W Processors

Power extreme professional workloads with a transformative single socket Intel® Xeon® W CPU (up to 56 cores¹), Intel vPro®¹0 manageability and security, and ECC Memory¹¹ for reliability.

Professional Grade Graphics

A first for Z desktop PCs - tackle complex renderings, simulations and datasets with up to 4 NVIDIA RTX $^{\text{\tiny{M}}}$ 6000 Ada Generation GPUs or 2 AMD Radeon $^{\text{\tiny{M}}}$ Pro W6800 GPUs. 13

Ultra Fast Memory Configurations

Accelerate workflows. Power through memory-intensive workloads with up to 2 TB DDR5 memory¹⁴ for fast rendering, simulation, film and video editing, and deep learning performance.

Storage

Get up to 136 TB of storage across a variety of devices, including 4 front-accessible, hot-swappable NVMe devices with status information via external LED.¹⁵

Redundant/Aggregate Power Supply

Use redundant power to stay up and running during critical workflow. Or switch to aggregate power to combine two power supplies for 2,250W power when you need it.¹⁶

Fast Data Transfer and Network Connectivity

Thunderbolt™ 4 technology¹⁷ for fast data transfers, two optional USB3.2 SuperSpeed Type-C® connectors for 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 18—remote access software delivering fast responsiveness and image quality, even in film editing and data visualizations.

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 reimaging—from anywhere. 19

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.²⁰

ISV Certified

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

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 20 temperature sensors.



技術規格

1X W1 ACTO	
可用作業系統	Windows 11 Pro for Workstations ^{2,3} Ubuntu 22.04 LTS Linux® Ready ⁵ Red Hat® Enterprise Linux® ⁵
處理器系列	Intel® Xeon® processor
可用處理器 ⁷	Intel® Xeon® W9-3495X (1.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 105 MB L3 cache, 56 cores, 112 threads) 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, 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) 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) Intel® Xeon® Gold 5416S (2.0 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 32 threads)
晶片組	Intel® W790
機型	Tower
最大記憶體	2 TB DDR5-4800 ECC SDRAM; ¹¹ Transfer rates up to 4800 MT/s.
記憶體插槽	16 DIMM
內建儲存裝置	1 TB 高達 12 TB 7200 rpm SATA Enterprise HDD ^{8,40} 512 GB 高達 2 TB HP Z Turbo Drive NVMe™ M.2 SSD ⁸ 512 GB 高達 4 TB HP Z Turbo Drive PCle® SSD M.2 ⁸ 512 GB 高達 4 TB HP Z Turbo Drive PCle® SED Opal 2 M.2 SSD ⁸ 512 GB 高達 4 TB HP Z Turbo Drive PCle® SED Opal 2 M.2 SSD ⁸ 512 GB 高達 4 TB HP Z Turbo Drive Dual Pro PCle® SSD ⁸ 512 GB 高達 4 TB HP Z Turbo Drive Quad Pro PCle® SSD ^{5,41}
光碟機	HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer 9,10
可用圖形	Ultra High-End: NVIDIA RTX™ 6000 Ada Generation (48 GB GDDR6 dedicated); NVIDIA RTX™ A6000 (48 GB GDDR6 dedicated); NVIDIA RTX™ 5000 Ada Generation (32 GB GDDR6 dedicated); NVIDIA RTX™ A5000 (24 GB GDDR6 dedicated); AMD Radeon™ Pro W7900 (48 GB GDDR6 dedicated); AMD Radeon™ Pro W6800 (32 GB GDDR6 dedicated); NVIDIA® A800 (40 GB GDDR6 dedicated)³³0 High-End: NVIDIA RTX™ 4500 Ada Generation (24 GB GDDR6 dedicated); NVIDIA RTX™ A4500 (20 GB GDDR6 dedicated); NVIDIA RTX™ 4000 Ada Generation (20 GB GDDR6 dedicated); NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated); NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated); NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated); NVIDIA® RTX™ A2000 (12 GB GDDR6 dedicated) GDDR6 dedicated)³³0 Mid-Range: NVIDIA® T1000 (8 GB GDDR6 dedicated); NVIDIA® T400 (4 GB GDDR6 dedicated); NVIDIA® T1000 (8 GB GDDR6 dedicated); NVIDI
音效	Realtek ALC3205-CG
擴充插槽	1 PCle 3 x8; 2 PCle 5 x16; 1 PCle 5 x4; 2 PCle 4 x16; 2 PCle 4 x4; 2 PCle 4 x8 (Rear bulkhead access can be achieved through all slots but 2 PCle 4 x8 are internal access only for M.2.)
連接埠與端子	Front: 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ²⁹ ; 選購的連接埠: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™1.4); 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
輸入裝置	HP USB Business Slim SmartCard CCID Keyboard; HP USB 320K Keyboard; HP 125 Black Wired Keyboard ¹³ ; HP Wired Desktop 320M mouse; HP wired desktop 128 laser mouse ¹³
通訊	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 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 dual-port 10 GBASE-T NIC (PCIe slot not required); HP 10 GbE SFP+ SR LC Fiber transceiver; HP 25 GbE SFP28 LC Fiber transceiver³9; WLAN: Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® with external antenna
磁碟機塢	Four NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD Six PCle® M.2 SSD; Six 3.5" HDD
軟體	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 ^{17,18,19,32,33}
安全性管理	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



安全軟體授權

HP Wolf Pro Security Edition²⁸

相容的顯示屏

HP Z8 Fury G5 工作站桌上型電腦

技術規格	
管理功能	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support
記憶卡設備	1SD card reader (optional)
電源	2250 W aggregate internal power supply, up to 90% efficiency, active PFC; 1450 W internal power supply, up to 90% efficiency, active PFC; 1450 W redundant internal power supply, up to 90% efficiency, active PFC; 1125 W internal power supply, up to 90% efficiency, active PFC
尺寸	21.59 x 55.12 x 44.45 cm; 33.2 x 73.4 x 63.6 cm (套裝)
重量	Starting at 22 kg; (Exact weights depend upon configuration (System weight only))
生態標章	EPEAT® registered configurations available; TCO Certified configurations available 14,15
取得 ENERGY STAR 認證	ENERGY STAR® certified (configurations available)
永續性影響規格	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 16

All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays



附註

消息註腳

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.

² 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. Four 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.

Redundant and aggregate power requires configuring two 1125W power supplies at hardware purchase.

⁴ Optional, configurable feature. Redundant and aggregate power requires configuring two 1125W power supplies at hardware purchase

⁵ 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.

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 .

⁷WSL 2 is an optional feature available on select Z workstations, You must be running Windows 10 version 21H2 and higher (Build 19044 and higher) or Windows 11.

⁸ 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.

¹² 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.

9 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

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.

13 GPUs are sold separately or as an optional feature.

¹⁴ 2 TB DDR5 memory is planned to be available in the first half of 2023.

15 Optional, configurable features. Configurations for 120TB storage and for front accessible NVME bays are planned to be available in the first half of 2023. Configuration for 120TB 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.

16 Redundant and aggregate power requires configuring two 1125W power supplies at hardware purchase.

17 Two ports of 10 GbE network connection is planned to be available by the first half of 2023. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

We port so in obserted with Connection is planifed to be advantable by the initiation of the State of the Connections and the Connections 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.

規格註腳

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 $^\circ$ 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 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.

Optional or add-on feature.

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

5 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

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

THP 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 is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license with a term length 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: 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 is effective upon 4 months after the date the HP Product was shipped by HP and will continue for the term communicated to you at purchase and in your 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.

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

 30 NVIDIA graphics cards denoting a letter "E" refer to long-life variants of the card.

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. 22 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 ground devices and applications. For full system requirements or to disable this feature, please visit http://www.hpdagas.com/requirements. Not applicable in China.

33 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://www.hp.com/us-en/workstations/performanceadvisor.html

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

36 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

39 TOW, Outer pox packaging and corrugated custions indue from sustainably sourced certained and regarded in the sustainable from 100% recycled wood fiber and organic materials.
 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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