HP Z4 G5 Workstation PC (805C5UT)



Overview

Our 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.

Unlock your potential with high-end professional GPUs, a next-gen Intel® Xeon® processor, and ultra fast memory configurations. Now you can render and simulate or analyze advanced datasets faster with unthrottled, whisper quiet performance.

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 testing[1] and is certified for pro apps. And with HP Wolf Security for Business[5], it's protected below, in and above the OS.

Upgrade. Expand. Evolve

Need to expand your workflow capabilities? Evolve your PC with plenty of space for high-end GPUs, loads of memory and storage—including front accessible NVMe bays—and even PCIe slots[3]. All easily accessible in a tool-less design.

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.

Features

Windows 11

Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

Intel® Xeon® W processor

Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor.[1]

Security is your top priority

The HP Wolf Pro Security Edition provides preconfigured enterprise-level PC protection for small and medium sized businesses.

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[3] Optional, configurable features. Configurations for 76TB storage and for front accessible NVME bays is planned to be available in the first half of 2023. Configuration for 76TB requires after-market purchase. Two front accessible NVMe bays require a 5.25 bay carrier.

[5] HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite and Workstation products. See product details for included security features and OS requirement.

[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.

Specifications

Form factor	Tower
Operating system	Windows 11 Pro
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W5-2445 (up to 4.4 GHz with Intel® Turbo Boost Technology, 26.25 MB L3 cache, 10 cores, 20 threads)[6,7]
Chipset	Intel® W790
Memory	16 GB DDR5-4800 MHz RAM (1 x 16 GB)
Memory Slots	8 DIMM
Internal Storage	512 GB HP Z Turbo Drive PCIe® NVMe™ TLC M.2 SSD
Internal drive bays	One 3.5"; Four PCIe® M.2 SSD; Three 3.5" HDD
External drive bays	Two 9.5 mm ODD
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays
Audio	Realtek ALC3205-CG
Minimum dimensions (W x D x H)	16.89 x 44.45 x 38.61 cm
Minimum dimensions (W x D x H)	6.65 x 17.50 x 15.20 in
Weight	Starting at 10.5 kg *(Exact weights depend upon configuration (System weight only))*
Weight	Starting at 23.2 lb *(Exact weights depend upon configuration (System weight only))*
Keyboard	HP USB 320K Keyboard
Pointing device	HP Wired 320M Mouse
Ports	2 SuperSpeed USB Type-C® 20Gbps signaling rate (USB Power Delivery); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headset/microphone combo[29]
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, 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).)*
Ports	6 SuperSpeed USB Type-A 5Gbps signaling rate; 1 RJ-45; 1 audio-in/out
Package dimensions (W x D x H)	31.4 x 57.2 x 56.3 cm
Package weight	Starting at 14.35 kg
Power	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
Management features	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support

Sustainable impact specifications	Low Halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion inserts contain 80% recycled content; Ocean-bound plastic in system fan; 10% post-industrial recycled metal; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable
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[20,21,22,23,24,25,26,27]
Software included	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[17,18,19]
UPC number	(ABA) 197497173536; (ABC) 197497173543

Additional specifications

Available software	HP Smart Support
ECC memory	non-ECC
Graphic card footnote number	[30]
Graphic card footnote number	[30]
Graphics	Discrete
Graphics (discrete)	NVIDIA® T1000 (4 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card memory size	4
Graphics card memory size uom	GB
Graphics card memory type	GDDR6
I/O Port location	Rear
I/O Port location	Front (Premium version)
Keyboard connectivity	wired
Keyboard interface	USB
Legal tagline	HP recommends Windows 11 Pro for business
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	4800
Memory speed uom	MHz
Memory type	DDR5
Model Number	T1000
Number of memory slots	1
Package dimensions (W x D x H)	12.36 x 22.52 x 22.17 in
Package weight	Starting at 31.61 lb
Playbook TS icon OS	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Playbook TS icon battery life	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS icon connectivity	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS icon dimensions tower	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png
Playbook TS icon graphics	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS icon memory	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png

Playbook TS icon processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS icon storage	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS icon weight imperial	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS icon weight metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Processor Brand	Intel®
Processor cache	26.25 MB L3
Processor core	10
Processor family	Xeon® W
Processor frequency technology	Intel® Turbo Boost Technology
Processor maximum frequency	4.4
Processor maximum frequency uom	GHz
Processor model	2245
Processor threads	20
Product long name specifications	HP Z4 G5 Workstation PC, Windows 11 Pro, Intel® Xeon® W, 16GB RAM, 512GB SSD, NVIDIA® T1000
Product short name specifications	HP Z4 G5 Workstation PC, Intel® Xeon® W, 16GB RAM, 512GB SSD
Security Software Licenses	HP Wolf Pro Security Edition (1 year)
Standard memory note	Transfer rates up to 4800 MT/s.
Storage brand 01	HP Z Turbo Drive
Storage capacity	512
Storage capacity uom 01	GB
Storage controller	Integrated SATA 6.0 Gb/s; Integrated RAID 0, 1 available for SATA drives
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211515

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[6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

[17] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html .

[18] HP Support Assistant requires Windows and Internet access.

[19] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html .

[20] HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[21] HP Sure Start Gen7 is available on select HP PCs and Workstations. See product specifications for availability.

[22] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[23] HP Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

[24] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[25] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[26] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[27] HP BIOSphere Gen6 features may vary depending on the platform and configurations.

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

Accessories

Memory

★ : Recommended

DDR5 Memory

16GB DDR5 4800 ECC Memory	340K1AA
32GB DDR5 4800 ECC Memory	340K2AA
64GB DDR5 4800 ECC Memory	340K3AA

PC Drives and Storage

PC SATA Hard Drives

2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
HP 4TB SATA 7200 Hard Drive	K4T76AA
HP 4TB SATA 7200 Hard Drive	K4T76AT

Blu-ray Drives

HP 9.5mm Slim BDXL Blu-Ray Writer Drive	K3R65AA

PC DVD-ROM Drives

HP 9.5mm Slim DVD-ROM Optical Drive	K3R63AA

Removable Hard Drive Enclosure

HP DX175 Removable HDD Frame/Carrier	1ZX71AA
HP Z Turbo Drive Dual Pro PCIe-4x4 NVMe Carrier	56Q86AA

Personal Media Storage

HP SD 4 Card Reader Zx G4	2VK54AA

PC Solid State Drives

Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA

Graphics Cards

Graphics Cards

AMD Radeon Pro W6600 8GB GDDR6 4DP Graphics	340K5AA

AMD Radeon Pro W6800 32GB GDDR6 6mDP Graphics	340K7AA
AMD Radeon RX 6400 4GB DP+HDMI Graphics	6Q3U4AA
AMD Radeon RX 6400 4GB DP+HDMI Graphics	6Q3U4AT
HP Nvidia Quadro Sync II	1WT20AA
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AA
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AT
NVIDIA RTX A2000 6GB DP 4mDP Graphics	340L0AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AT
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AA
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AT
NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AA
NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AT
NVIDIA RTX A6000 48 GB 4DP Graphics	2S6U3AA
NVIDIA RTX A6000 48 GB 4DP Graphics	2S6U3AT
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AA
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AT
NVIDIA T400 4 GB 3mDP Graphics	5Z7E0AA
NVIDIA T400 4 GB 3mDP Graphics	5Z7E0AT

Graphics Connectors/Adapters

NVIDIA NVLink 3-Slot Bridge	340L3AA

PC Controller/Controller Options

PC Processor Cards

Allied Telesis AT-2911T/2-901 Dual Port 1GbE NIC	6E3Y9AA
NVIDIA Mellanox ConnectX-6 LX Dual Port 25GbE SFP28 NIC	436M8AA

Keyboards/Mice and Input Devices

Keyboards

HP 125 Wired Keyboard	266C9AA
HP 125 Wired Keyboard	266C9ET
HP 125 Wired Keyboard	266C9UT
HP 455 Programmable Wireless Keyboard	4R177A6
HP 455 Programmable Wireless Keyboard	4R177AA

HP 455 Programmable Wireless Keyboard	4R177ET
HP 975 Dual-Mode Wireless Keyboard	3Z726AA
HP 975 Dual-Mode Wireless Keyboard	3Z726UT
HP Business Slim Smartcard Keyboard	Z9H48AA
HP Business Slim Smartcard Keyboard	Z9H48AT
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37ET
HP Wired Desktop 320K Keyboard	9SR37UT

Mice

HP 125 Wired Mouse	265A9AA
HP 125 Wired Mouse	265A9ET
HP 125 Wired Mouse	265A9UT
HP 128 Laser Wired Mouse	265D9AA
HP 128 Laser Wired Mouse	265D9ET
HP 128 Laser Wired Mouse	265D9UT
HP 935 Creator Wireless Mouse	1D0K8AA
HP 935 Creator Wireless Mouse	1D0K8UT
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET
HP Wired Desktop 320M Mouse	9VA80UT

Keyboard and Mouse Kits

HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009A6
HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009ET
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT

Cables/Cable Kits/Cable Adapters

PC Cable Options

HP 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
HP Z4 HDD Cable Kit	74Y88AA

Audio and Video Cables

HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter (Bulk 90)	FH973A6
HP DisplayPort to HDMI True 4K Adapter	2JA63AA

Cable Adapters

HP Single miniDP-to-DP Adapter Cable	2MY05AA
HP miniDP-to-DP Adapter Cables (Bulk 12)	2KW87A6

Expansion Solution and Controller Cards

Port Adapters

HP 2.5GbE LAN Flex Port Z2 Mini	169K0AA
HP 2.5GbE LAN Flex Port Z2 Mini	169K0AT
HP Dual USB-A 3.2 Gen1 Flex 2020	141J8AA
HP Flex 1GbE Fiber LC Single Port	20J15AA
HP Internal Serial+PS/2 Port	56Q78AA
HP Serial Port Flex IO v3	5B895AA
HP Type-C SuperSpeed USB 20Gbps Front Premium Module	38T92AA
HP USB-C 3.2 Gen2 Alt Flex Port 2020	141K6AA

Chassis and Chassis Accessories

Brackets/Bezels/Panels

HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
HP Optical Bay HDD Mounting Bracket	NQ099AA
HP Z4 G4 Dust Filter	3DY47AA

Security and Protection

PC Locks

HP Keyed Cable Lock 10 mm	T1A62AA
HP Keyed Cable Lock 10 mm	T1A62UT
HP Master Keyed Cable Lock 10mm	T1A63AA

Rack Brackets/Bezels/ Panels/Rails/ Trays/Mounting

Rack Kits

HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit	2A8Y5AA

Mounting Kits

NVIDIA 3D Stereo Bracket	K0A25AA

Network Adapters

Wireless LAN

WLAN I AX210 Wi-Fi6e nvP +BT 5.2 ExtAnt	340L7AA

HyperX Gaming Peripherals

HyperX Gaming Headsets

★ : Recommended

HyperX Cloud Headsets SC

HyperX Cloud Core + 7.1 - Gaming Headset (Black)	4P4F2AA

HyperX Cloud Flight Headsets SC

HyperX Cloud Flight - Wireless Gaming Headset (Black-Red)	4P5L4AA

HyperX Cloud MIX Headsets SC

HyperX Cloud MIX - Gaming Headset (Black-Gunmetal)	4P5K9AA

HyperX Cloud Stinger Headsets SC

HyperX Cloud Stinger Core - Gaming Headset (Black)	4P4F4AA

HyperX Microphones

HyperX SoloCast Microphones SC

HyperX SoloCast - USB Microphone (Black)	4P5P8AA

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