



HP Z4 G5 Workstation PC (86K04UT)



Overview

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

Render, simulate or analyze faster with high-end GPUs, an Intel® Xeon® CPU, and impressive memory and storage.

Comprehensive security. Reliability you can trust

Trust the 360K hours of testing, certifications for pro apps, and world-class HP Wolf Security for Business[5].

Upgrade and expand with ease

Evolve your PC with space for high-end GPUs, loads of memory and storage, plus front-accessible NVMe drives.

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.

[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® W3-2423 (up to 4.0 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 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 NVMe™ M.2 SSD; Two 3.5" HDD; 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 <i>(Exact weights depend upon configuration (System weight only))</i>
Weight	Starting at 23.2 lb <i>(Exact weights depend upon configuration (System weight only))</i>
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 <i>(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).)</i>
Ports	4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo
Ports	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	197497604191

Additional specifications

Additional information about HP in the countries	hp.com
Available software	HP Smart Support
Datasheet photo 1	AHID/0aeae95382f321cf9b9ee84c06ac5ea6d81152b3
Datasheet photo 3	AHID/7761f3725a5982ef06acbe9a7d9c6aa593fb177a
Datasheet photo 4	AHID/4834e51471c5504b7ef1465539da15fa976d7327
Datasheet photo 5	AHID/b1a955b4c730abbd5bb13dbccfdb83fb5272764a
ECC memory	non-ECC
Graphic card footnote number	[30]
Graphic card footnote number	[30]
Graphics	Discrete
Graphics (discrete)	NVIDIA® T400 (4 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	GeForce
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 (Entry version)
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	T400
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	15 MB L3
Processor core	6
Processor family	Xeon® W
Processor frequency technology	Intel® Turbo Boost Technology
Processor maximum frequency	4.0
Processor maximum frequency uom	GHz
Processor model	2423
Processor threads	12
Product long name specifications	HP Z4 G5 Workstation PC, Windows 11 Pro, Intel® Xeon® W, 16GB RAM, 512GB SSD, NVIDIA® GeForce T400
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

[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.

Services

HP Care Pack Services

★ : Recommended

Personal Systems Commercial Care Pack Services

HP 4 year Active Care Next Business Day Response Onsite Workstation Hardware Support	U56NQE ★
HP 5 year Active Care Next Business Day Resp Onsite w/Defective Media Retention WS HW Supp	U56NVE ★
HP 1y PW Onsite Care DMR WS HW Supp	U60PYPE
HP 1y PW Onsite Care Workstation HW Supp	U60PXPE
HP 3 year Active Care Next Business Day Resp Onsite w/Defective Media Retention WS HW Supp	U56NSE
HP 3 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U56NNE
HP 3 year Onsite Care Workstation Hardware Support	U61CCE
HP 3 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61CFE
HP 3y Active Care Next Business Day Onsite DMR WS Solution Supp	U64R3E
HP 3y Active Care Next Business Day Onsite WS Solution Supp	U64R0E
HP 3y onsite Care DMR Workstation Solution Supp	U64R9E
HP 3y onsite Care Workstation Sol Supp	U64R6E
HP 4 year Active Care Next Business Day Resp Onsite w/Defective Media Retention WS HW Supp	U56NTE
HP 4 year Onsite Care Workstation Hardware Support	U61CME
HP 4 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61CQE
HP 4y Active Care Next Business Day Onsite DMR WS Solution Supp	U64R4E
HP 4y Active Care Next Business Day Onsite WS Solution Supp	U64R1E
HP 4y onsite Care DMR Workstation Solution Supp	U64RBE
HP 4y onsite Care Workstation Sol Supp	U64R7E
HP 5 year Active Care Next Business Day Response Onsite Workstation Hardware Support	U56NRE
HP 5 year Onsite Care Workstation Hardware Support	U61CXE
HP 5 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61CZE
HP 5y Active Care Next Business Day Onsite DMR WS Solution Supp	U64R5E
HP 5y Active Care Next Business Day Onsite WS Solution Supp	U64R2E
HP 5y onsite Care DMR Workstation Solution Supp	U64RCE

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
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PC DVD-ROM Drives

HP 9.5mm Slim DVD-ROM Optical Drive	K3R63AA
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Removable Hard Drive Enclosure

HP DX175 Removable HDD Frame/Carrier	1ZX71AA
HP DX175 Removable HDD Spare Carrier	1ZX72AA
HP Z Turbo Drive Dual Pro PCIe-4x4 NVMe Carrier	56Q86AA

Personal Media Storage

HP SD 4 Card Reader Zx G4	2VK54AA
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PC Solid State Drives

Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AT
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AA
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AT

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	obsolete
HP Nvidia Quadro Sync II	1WT20AA	
NVIDIA RTX 6000 Ada 48 GB 4DP Graphics	79C23AA	
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
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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	266C9UT
HP 455 Programmable Wireless Keyboard	4R177A6
HP 455 Programmable Wireless Keyboard	4R177AA
HP 975 Dual-Mode Wireless Keyboard	3Z726AA
HP 975 Dual-Mode Wireless Keyboard	3Z726UT
HP Business Slim Smartcard Keyboard	Z9H48AA
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37UT

Mice

HP 125 Wired Mouse	265A9AA
HP 125 Wired Mouse	265A9UT
HP 128 Laser Wired Mouse	265D9AA
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	9VA80UT

Keyboard and Mouse Kits

HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009A6
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
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
HP Z4 HDD Cable Kit	79C24AA

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 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

169K0AT

HP Flex 1GbE Fiber LC Single Port

20J15AA

HP Internal Serial+PS/2 Port

56Q78AA

HP Serial Port Flex IO v3

5B895AA

HP USB-C 3.2 Gen2 Alt Flex Port 2020

141K6AA

Remote Interfaces

HP Anyware Integrated Remote System Controller

7K6D9AA

HP Anyware Remote System Controller

7K6D7AA

HP Anyware Remote System Controller Main Board Adapter

7K6D8AA

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 Fan and Front Card Guide Kit

56Q79AA

HP Z4 G4 Dust Filter

3DY47AA

Batteries/Chargers/Adapters

Power Cords

HP C13 1.83m AC Power Cord

6Z1T9AA

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

Rack Kits

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

NVIDIA 3D Stereo Bracket	K0A25AA
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Network Adapters

Wireless LAN

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

HyperX Gaming Headsets

★ : Recommended

HyperX Cloud Headsets SC

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

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

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

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

HyperX SoloCast Microphones SC

HyperX SoloCast - USB Microphone (Black)	4P5P8AA
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