



HP Workstation Z4 G4 Tower (4F7M9EA)



Overview

HP's best-selling performance workstation

Perfect for engineering, visualization and Machine Learning, HP's most popular workstation delivers disruptive performance for a wide spectrum of applications. With a choice of Intel® Xeon® or Core™ X processors, and support for dual extreme graphics, you get all you need, nothing more.

Feature-rich functionality

The Z4 is ahead of its time with more standard features than any other single processor HP workstation. With multiple configuration options, you can choose the perfect blend of components that meet your performance requirements.

HP's most secure workstations

Advanced security features come standard on every Z4. Rest assured your device, identity and data are safe with security software like HP Client Security Suite Gen3[2] and HP Sure Start Gen3[10] featuring a self-healing BIOS.

Visualization powerhouse

Visualize your project anytime with the power to move seamlessly between 3D CAD, rendering and simulation applications. The Z4 can easily handle tasks that require high frequency processing, multiple cores and high-powered GPUs for an optimized design process.

Features

Windows 10 Pro 64

Work without compromising on performance or security with Windows 10 Pro, powered by HP's collaboration and connectivity technology.^[1]

Intel® Xeon® W processor

Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor.^[3]

Intel® Core™ X-Series processors

Experience disruptive price-performance on multi-threaded applications, or combined workflows such as simulation based design, with Intel® Core™ X-Series processors: the high-performance single-socket processors from Intel®.^[8]

Graphics

Get serious about graphics and reach peak productivity with access to a breadth of NVIDIA® and AMD professional graphics from entry to high-end 3D.^[4]

Storage

Install pro-grade storage hardware and elevate your storage-bound apps without sacrificing standard PCIe slots.

Functional Design

The simply stunning design features front and rear handles, so you can easily relocate your system.

[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 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> .

[2] HP Client Security Suite features vary by platform.

[3] 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.

[8] Windows 10 Pro is preinstalled. Windows 7 is not supported on the Intel® Core™ X - Series processor configurations. Configurations with the Intel® Core™ X processors support only a subset of the full features of the Z4 G4 system, including, but not limited to: memory type and maximum memory, PCIe slot configurations, M.2 storage capacity, GbE interface and manageability features. Please refer to the product QuickSpecs for complete details.

Specifications

Operating system	Windows 10 Pro <i>(Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).)</i>
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W-2223 (up to 3.9 GHz with Intel® Turbo Boost Technology, 8.25 MB L3 cache, 4 cores, 8 threads) ^[6,7]
Number of processors	1
Chipset	Intel® C422 ^[26,27]
Memory	16 GB DDR4-2933 MHz ECC RAM (1 x 16 GB)
Memory Slots	8 DIMM
Internal Storage	256 GB HP Z Turbo Drive PCIe® SSD
Hard drive (2nd)	1 TB 7200 rpm SATA HDD
Internal drive bays	Two 2.5" or 3.5"
External drive bays	Two 5.25"
Optical drive	9.5 mm Slim DVD-Writer
Graphics	Discrete
Graphics (discrete)	NVIDIA RTX™ A2000 (6 GB GDDR6 dedicated)
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported.
Dimensions (W x D x H)	38.6 x 16.9 x 44.5 cm
Weight	Starting at 10.2 kg <i>(Exact weight depends on configuration.)</i>
Keyboard	HP USB Slim Business Keyboard
Pointing device	HP USB optical mouse
Ports	1 headset connector; 4 USB 3.1 (1 charging) <i>(The Intel® Core™ X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.)</i>
Expansion slots	1 PCIe 3 x16; 2 M.2 PCIe 3 x4
Ports	1 audio-in; 1 audio-out; 1 PS/2 keyboard port; 1 PS/2 mouse port; 1 serial; 2 RJ-45 (1 GbE); 6 USB 3.1 Gen 1
Network interface	Integrated Intel® I219-LM GbE
Power	750 W internal power supply, up to 90% efficiency, active PFC ^[22]
Sustainability specifications	Low halogen

Security management

Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED); HP Wolf Security Pro Edition^[7,14,15,17,18,28,37]

Software included

ZCentral Remote Boost

UPC number

(A2N) 196337356290; (AB6) 196337356306; (AB8) 196337356313; (AB9) 196337356320; (ABB) 196337356337; (ABD) 196337356344; (ABE) 196337356351; (ABF) 196337356368; (ABH) 196337356375; (ABN) 196337356382; (ABT) 196337356399; (ABU) 196337356405; (ABV) 196337356412; (ABY) 196337356429; (ABZ) 196337356436; (ACB) 196337356443; (ACQ) 196337356450; (AK8) 196337356467; (AKC) 196337356474; (AKD) 196337356481; (BCM) 196337356498; (UUG) 196337356511; (UUW) 196337356528; (UUZ) 196337356535

Manufacturer Warranty

3 year (3/3/3) limited warranty includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Additional specifications

Accessories	NVIDIA® Quadro® P5000 Z0B13AT, AMD Radeon™ Pro WX 7100 Z0B14AT, HP Z Turbo Drive Quad Pro 2x512 GB N2M99AA, HP Z27n 27-inch Narrow Bezel IPS Display: K7C09A8, HP 5 year Next Business Day Onsite with Defective Media Retention U1G57E
Additional storage	HP SD 4 Media Card Reader (optional)
Datasheet photo 1	AHID/9787db1e04d8e3430861a1012d628179e0e856d0
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/d6e3c849ddd483cc2027bff449527615c6b5e445
Datasheet photo 4	AHID/bc2c2c99d7781806c3d0dc4634770166c40f08fd
Datasheet photo 5	AHID/9957be37f7bc0deca403c536eb11155021f25715
ECC memory	ECC
Graphic card footnote number	[19]
Graphics card brand	NVIDIA®
Graphics card family	Quadro®
Graphics card memory size	6
Graphics card memory size uom	GB
Graphics card memory type	GDDR6
I/O Port location	Front (Premium version)
I/O Port location	Rear
Keyboard interface	USB
Memory and storage	16 GB memory; 1 TB HDD storage; 256 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Model Number	RTX™ A2000
Number of memory slots	1
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 base frequency	3.6
Processor cache	8.25 MB L3
Processor core	4
Processor family	Xeon® W
Processor frequency UOM	GHz
Processor frequency technology	Intel® Turbo Boost Technology
Processor maximum frequency	3.9
Processor maximum frequency uom	GHz
Processor model	2223
Processor threads	8
Product long name specifications	HP 5 year Next Business Day Onsite Hardware Support for Workstations
Product safety	https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true
Product short name specifications	HP Workstation Z4 G4 Tower, Intel® Xeon® W, 16GB RAM, 256GB SSD, 1TB HDD
Quickspec	http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05527757
Standard memory note	Transfer rates up to 2933 MT/s.
Storage brand 01	HP Z Turbo Drive
Storage capacity	256
Storage capacity 02	1
Storage capacity uom 01	GB
Storage capacity uom 02	TB
Storage controller	Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10; Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface 02	SATA
Storage memory technology 01	TLC

Storage speed 01	7200
Storage speed 02	7200
Storage speed uom 01	rpm
Storage speed uom 02	rpm
Storage type	HDD; SSD
Storage type 01	SSD
Storage type 02	HDD
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.

[14] HP BIOSphere G3 requires Intel® 7th generation processors.

[15] HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

[17] HP MIK/SCCM - HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

[18] HP Keyed Cable Lock Kit is available only as an aftermarket option.

[22] 465W and 750W power supply options are only available for Intel® Xeon® configurations.

[26] Choice of Intel Core X processor family will affect other configuration choices and system feature set availability; refer to the product Quickspecs for details.

[27] Intel® C422 for Intel® Xeon® configurations, Intel® X299 for Intel® Core™ X configurations.

[28] HP Sure Click is available on most HP PCs 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.

[37] 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.

Hybrid Work Solutions

Audio

★ : Recommended

Wireless Headset

Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter	8G7T9AA ★
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA ★

Wired Headset

Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA ★
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Speakerphones

Poly Sync 10 USB-A USB-C Speakerphone	772C3AA ★
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Accessories for PC

Components/Upgrades

★ : Recommended

Storage

HP 4TB SATA 7200 Hard Drive	K4T76AA ★
2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
HP 9.5mm Slim BDXL Blu-Ray Writer Drive	K3R65AA
HP 9.5mm Slim DVD-ROM Optical Drive	K3R63AA
HP 9.5mm Slim SuperMulti DVD Writer Drive	K3R64AA
Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA

Internal ports/Modules/Controllers

Allied Telesis AT-2914SX/LC-901 1GB LC Fiber NIC	1C7Q2AA
HP Internal USB Port Kit	EM165AA
Intel Ethernet I350-T4 4-Port 1Gb NIC	W8X25AA
Intel X550 10GBASE-T Dual Port NIC	1QL46AA
NVIDIA 3D Stereo Bracket	K0A25AA

Chassis/Rails

HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
HP Optical Bay HDD Mounting Bracket	NQ099AA
HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit	2A8Y5AA
HP Z4 G4 Dust Filter	3DY47AA

Port Replicators/Dongles/Docking

Cables/Cable Adapters/Dongles

HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP Single miniDP-to-DP Adapter Cable	2MY05AA
HP miniDP-to-DP Adapter Cables (Bulk 12)	2KW87A6

Mice/Pens/Other Pointing Devices

Wired Mice

HP Wired Desktop 320M Mouse

9VA80AA

Monitors

Business Monitors

★ : Recommended

E-Series

HP E24mv G4 FHD Conferencing Monitor	169L0AA
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Accessories

Point of Sales System Options

★ : Recommended

POS Display Accessories

HP L7010t 10.1-inch Retail Touch Monitor

T6N30AA

HP L7014 14-inch Retail Monitor

T6N31AA

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