

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
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported.
Minimum 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]
Sustainable impact 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]

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	Discrete
Graphics (discrete)	NVIDIA RTX™ A2000 (6 GB GDDR6 dedicated)
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
Legal tagline	HP recommends Windows 11 Pro for business
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
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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 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.

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