



HP Workstation Z4 G4 Tower (873P4UA)



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

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]

Professional Performance

Run demanding professional apps with the newest generation Intel® Xeon® processors available with up to 18 cores for powerful performance and productivity.

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.

[2] HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.

[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	Linux® Ready
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]
Chipset	Intel® C422 ^[26,27]
Memory	128 GB DDR4-2933 ECC SDRAM (4 x 32 GB)
Memory Slots	8 DIMM
Internal Storage	2 TB SATA SSD
Internal drive bays	Two 2.5" or 3.5"
External drive bays	Two 5.25"
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
Minimum dimensions (W x D x H)	15.2 x 6.65 x 17.5 in
Weight	Starting at 10.2 kg (Exact weight depends on configuration.)
Weight	Starting at 22.4 lb (Exact weight depends on configuration.)
Pointing device	HP USB optical mouse
Ports	1 headset connector; 4 USB 3.1 (1 charging) (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.)
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
Ports	1 DisplayPort™
Power	1000 W internal power supply, up to 90% efficiency, active PFC; 465 W internal power supply, up to 90% efficiency, active PFC; 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

Manufacturer Warranty

On-site limited warranty and service with 3 year limited warranty and service offering delivers on-site, next business-day service for parts and labor and includes free telephone support 8 am - 5 pm. Global coverage ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering. 24/7 operation will not void the HP warranty.

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	Publication photos/Pike_Z4_1.jpg
Datasheet photo 3	Publication photos/Pike_Z4_3.jpg
Datasheet photo 4	Publication photos/Pike_Z4_4.jpg
Datasheet photo 5	Publication photos/Pike_Z4_5.jpg
Datasheet publication number	4AA7-0828
ECC memory	ECC
Graphic card footnote number	[19]
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	128 GB memory; 2 TB SSD storage
Memory layout (slots & size)	4 x 32 GB
Memory module type	DIMM
Memory size	128
Memory size uom	GB
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	4
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 Workstation Z4 G4 Tower, Linux® Ready, Intel® Xeon® W, 128GB RAM, 2TB SSD
Product short name specifications	HP Workstation Z4 G4 Tower, Intel® Xeon® W, 128GB RAM, 2TB SSD
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 Quad Pro
Storage capacity	2
Storage capacity uom 01	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 interface 01	SATA
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.

[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.

Accessories for PC

Keyboards/Other Input Devices

★ : Recommended

Wireless Keyboards

HP Wireless Premium Keyboard	Z9N41AA ★
HP Wireless Premium Keyboard	Z9N41AT

Components/Upgrades

Storage

HP 4TB SATA 7200 Hard Drive	K4T76AA ★
HP Z Turbo Drive Dual Pro 1TB SSD	4YF62AA ★
1920 GB 2.5 in Enterprise SATA3 SSD	1W6P9AA
2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
960 GB 2.5 in Enterprise SATA3 SSD	1W6P8AA
HP 1TB Enterprise SATA 7200 HDD	W0R10AA
HP 1TB M.2 2280 PCIeTLC SSD Z2/4/6 Kit	8PE70AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AT
HP 256GB M.2 2280 PCIeTLC SSD Z2/4/6 Kit	8PE68AA
HP 4TB SATA 7200 Hard Drive	K4T76AT
HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AA
HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AT
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
HP Enterprise Class 240GB SATA SSD	T3U07AA
HP Enterprise Class 480GB SATA SSD	T3U08AA
HP Z Turbo Drive Dual Pro	4YF59AA
HP Z Turbo Drive Dual Pro 2TB SSD	4YF63AA
HP Z Turbo Drive Dual Pro 512GB SSD	4YF61AA
Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA

Graphics

AMD Radeon Pro W6800 32GB GDDR6 6mDP Graphics	340K7AA
NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AT
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

Internal ports/Modules/Controllers

Allied Telesis AT-2911T/2-901 Dual Port 1GbE NIC	6E3Y9AA
Allied Telesis AT-2914SX/LC-901 1GB LC Fiber NIC	1C7Q2AA
HP Internal USB Port Kit	EM165AA
HP USB to Serial Port Adapter	J7B60AA
Intel Ethernet I350-T4 4-Port 1Gb NIC	W8X25AA
Intel X550 10GBASE-T Dual Port NIC	1QL46AA
NVIDIA 3D Stereo Bracket	K0A25AA

Memory

HP 16GB (1x16GB) DDR4-2933 ECC RegRAM	5YZ54AA
HP 16GB (1x16GB) DDR4-2933 ECC RegRAM	5YZ54AT
HP 32GB (1x32GB) DDR4-2933 ECC RegRAM	5YZ55AA
HP 32GB (1x32GB) DDR4-2933 ECC RegRAM	5YZ55AT
HP 64GB (1x64GB) DDR4-2933 ECC RegRAM	5YZ57AA
HP 64GB (1x64GB) DDR4-2933 ECC RegRAM	5YZ57AT
HP 8GB (1x8GB) DDR4-2933 ECC RegRAM	5YZ56AA
HP 8GB (1x8GB) DDR4-2933 ECC RegRAM	5YZ56AT

Chassis/Rails

HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
HP Optical Bay HDD Mounting Bracket	NQ099AA
HP SD 4 Card Reader Zx G4	2VK54AA
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 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
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 USB-C to DP Adapter	4SH08AA
HP miniDP-to-DP Adapter Cables (Bulk 12)	2KW87A6

Security

Security Cables

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

Mice/Pens/Other Pointing Devices

Wired Mice

HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET
HP Wired Desktop 320M Mouse	9VA80UT

Industries

Architecture/Engineering and Construction

★ : Recommended

Architecture/Engineering and Construction

Architecture/Engineering and Construction Overview	AECOVERVIEW
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Communications/Media and Entertainment

Communications/Media and Entertainment

Communications/Media and Entertainment Overview	HPCMESOVERVIEW
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Education

Education

Education K-12	HPEDUSOVERVIEW
Higher Education	HPHIEDUOVRVIEW

Healthcare

Healthcare

Healthcare Overview	HPHLSSOVERVIEW
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Solutions

Workstation Solutions

★ : Recommended

Workstation Solutions

Data Science Workstation Solution	DATASCIENCE
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Virtual Reality Solutions

Virtual Reality Solutions

Virtual Reality Solutions Overview	VRSOVERVIEW
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Monitors

Business Monitors

★ : Recommended

E-Series

HP E24 G4 FHD Monitor	9VF99AA	
HP E24d G4 FHD USB-C Docking Monitor	6PA50AT	obsolete
HP E24i G4 WUXGA Monitor	9VJ40AA	
HP E24mv G4 FHD Conferencing Monitor	169L0AA	
HP E24u G4 FHD USB-C Monitor	189T0AA	
HP E27q G4 QHD Monitor	9VG82AA	
HP E27u G4 QHD USB-C Monitor	189T3AA	

P-Series

HP P24h G4 FHD Monitor	7VH44AA	
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Z Displays

HP Z24f G3 FHD Display	3G828AA	
HP Z24n G3 WUXGA Display	1C4Z5AA	
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA	
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA	
HP Z27k G3 4K USB-C Display	1B9T0AA	
HP Z27q G3 QHD Display	1C4Z7AA	
HP Z27u G3 QHD Display	1B9X2AA	
HP Z38c 37.5-inch Curved Display	Z4W65A4	
HP Z38c 37.5-inch Curved Display	Z4W65A8	
HP Z38c 37.5-inch Curved Display	Z4W65AT	

Point of Sales System Options

★ : Recommended

POS Display Accessories

HP L7010t 10.1-inch Retail Touch Monitor	T6N30A8
HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
HP L7014 14-inch Retail Monitor	T6N31A8
HP L7014 14-inch Retail Monitor	T6N31AA
HP L7014t 14-inch Retail Touch Monitor	T6N32A8
HP L7014t 14-inch Retail Touch Monitor	T6N32AA
HP L7016t 15.6-inch Retail Touch Monitor	V1X13A8
HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA

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