



HP ZCentral 4R (2L0M9UT)

Overview

Our most powerful 1U rack workstation.



For the first time ever, get Z performance in a high-density 1U footprint. This slim powerhouse lets you pack more units—and power—into your data closet. Perfect for use with HP ZCentral, our single-source remote workstation solution frees power users to work from anywhere.[1]

Z4 Power. 1U Form Factor.

We've packed the performance of our best-selling Z4 into a slim, 1U design. Power complex workflows while saving space with an Intel® Xeon® W processor[2], and support for NVIDIA® Quadro® graphics.

Cut costs, not performance. Centralize with Z.

Maximize your compute investment by centralizing a suite of ZCentral 4Rs that can be accessed remotely across users. Plus, software certifications for leading apps come standard[5], delivering professional reliability and predictable licensing fees.

Create your own upgrade path.

Invest only in the technology you need now, knowing you can scale over time. Get the ability to expand as the compute demands of your workforce evolve, with impressive memory capacity, space for multiple GPUs [4]and upgradable power supply options.

HP's most secure workstation.

Advanced security features come standard on every ZCentral 4R. System safeguards like the industry's first self-healing BIOS help lock your device, data and identity down tight.[6]

Features

Windows 10 Pro for Workstations 64

Work without compromising on performance or security with Windows 10 Pro for Workstations, powered by HP's collaboration and connectivity technology.^[3]

Intel® Xeon® W processor

Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor.^[2]

[1] HP ZCentral Connect Software is a one-time software license purchase and requires download at hp.com/ZCentral. Not available until early 2020. Requires HP ZCentral Remote Boost which can be downloaded at hp.com/ZRemoteGraphicsSoftware, a Windows 10, Windows Server 2016 or newer operating system, Microsoft Active Directory and Intel Active Management Technology for select features. HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without an additional license purchase. When you purchase a Z device, you get an embedded license. With non-Z sender devices, it is a perpetual or floating license. ZCentral Remote Boost requires a Windows (10 or 7 SP2), RHEL (6, 7 or 8), UBUNTU 18.04 LTS, or HP ThinPro operating system. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[2] 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.

[4] Support for one ultra high-end or two mid-tier NVIDIA® Quadro® professional graphics options.

[5] Select ISV certifications included. Software sold separately.

[6] Based on HP's unique and comprehensive security capabilities at no additional cost among desktop workstation vendors as of January 2017 on HP Desktop Workstations with 7th Gen and higher Intel® Processors.

[3] 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>.

Specifications

Operating system	Windows 11 Pro for Workstations
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W-2223 (3.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 4 cores) ^[6,7]
Chipset	Intel® C422
Memory	8 GB DDR4-2933 MHz RAM (1 x 8 GB)
Memory Slots	4 DIMM
Internal Storage	1 TB 7200 rpm SATA HDD
Internal drive bays	Two 2.5"
External drive bays	One 3.5"; Two 2.5" (select models)
Audio	Realtek HD ALC3601
Minimum dimensions (W x D x H)	4.3 x 43.8 x 62.5 cm (without rack mounting ears); 4.3 x 48.7 x 64.6 cm (with front bezel)
Minimum dimensions (W x D x H)	1.69 x 17.25 x 24.61 in (without rack mounting ears); 1.69 x 19.17 x 25.42 (with front bezel)
Weight	Starting at 10.7 kg (without rack rails); Starting at 13.7 kg (with rack rails) <i>(Exact weight depends on configuration.)</i>
Weight	Starting at 23.7 lb (without rack rails); Starting at 30.3 lb (with rack rails) <i>(Exact weight depends on configuration.)</i>
Keyboard	HP Wired Desktop 320K keyboard
Pointing device	HP Wired Desktop 320M mouse
Ports	1 headset connector; 4 SuperSpeed USB Type-A 5Gbps signaling rate (1 Charging)
Expansion slots	1 PCIe 3 x16; 2 M.2 PCIe 3 x4; 1 PCIe 3 x16 mechanical (x8 electrical); 1 PCIe 3 x8 mechanical (x8 electrical)
Ports	4 SuperSpeed USB Type-A 5Gbps signaling rate; 1 RJ-45 (10 GbE); 1 RJ-45 (1 GbE)
Security management	Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Sure Click; HP MIK/SCCM Gen2; HP Sure Sense; HP Sure Start Gen6; HP BIOSphere Gen6; HP Client Security Manager Gen6; HP Wolf Security Pro Edition ^[15,18,19,22,24,25,28,34]
Software included	HP ZCentral Remote Boost 2020
UPC number	(ABA) 195161666360; (ABC) 195161666377
Manufacturer Warranty	On-site limited warranty and service with 3 year limited warranty and service offering delivers on-site, service levels and response times may vary depending on your geographic location. 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

ECC memory	ECC
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	Quadro®
Graphics card form factor	PCIe x16
Graphics card memory size	2
Graphics card memory size uom	GB
Graphics card memory type	GDDR5
I/O Port location	Front
I/O Port location	Rear
Keyboard connectivity	wired
Keyboard interface	USB
Legal tagline	HP recommends Windows 11 Pro for business
Memory and storage	8 GB memory; 1 TB HDD storage
Memory layout (slots & size)	1 x 8 GB
Memory module type	DIMM
Memory size	8
Memory size uom	GB
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Model Number	P400
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 MB L3
Processor core	4
Processor family	Xeon® W
Processor frequency UOM	GHz
Processor maximum frequency	3.9
Processor maximum frequency uom	GHz
Processor model	2223
Processor threads	8
Product long name specifications	HP ZCentral 4R, Windows 11 Pro for Workstations, Intel® Xeon® W, 8GB RAM, 1TB HDD, NVIDIA® Quadro® P400
Product short name specifications	HP ZCentral 4R, Intel® Xeon® W, 8GB RAM, 1TB HDD
Standard memory note	Transfer rates up to 2933 MT/s.
Storage capacity	1
Storage capacity uom 01	TB
Storage controller	Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 10
Storage interface 01	SATA
Storage speed 01	7200
Storage speed uom 01	rpm
Storage type	HDD
Storage type 01	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.

[15] 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™.

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

[19] HP Manageability Integration Kit can be downloaded from [Http://www.hp.com/go/clientmanagement](http://www.hp.com/go/clientmanagement) .

[22] HP Sure Sense requires Windows Pro or Enterprise. See product specifications for availability.

[24] HP Sure Start Gen6 is available on select HP PCs.

[25] HP BIOSphere Gen6. Features may vary depending on the platform and configurations.

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

[34] HP Client Security Manager Gen6 requires Windows.

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