ProductSheet
HP ZCentral 4R (88T78UT)

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]



HP recommends Windows 11 Pro for business

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.

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.

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.

Featuring

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. [2]

Security is your top priority
The HP Wolf Pro Security Edition provides preconfigured enterprise-level PC protection for small and medium sized businesses.

NVIDIA® Quadro® Graphics
Experience high-end visualization and seamlessly render your biggest projects with the next generation NVIDIA® Quadro® T-Series graphics; Certified and supported for the apps you use every day.

Specifications

Form factor	Rackable
Operating system	Windows 11 Pro
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	16 GB DDR4-2933 MHz RAM (2 x 8 GB)
Memory Slots	4 DIMM
Internal Storage	512 GB HP Z Turbo Drive TLC SSD
Internal drive bays	Two 2.5"
External drive bays	One 3.5"; Two 2.5" (select models)
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated)
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) *(Exact weight depends on configuration.)*
Weight	Starting at 23.7 lb (without rack rails); Starting at 30.3 lb (with rack rails) *(Exact weight depends on configuration.)*
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) 196068879082; (ABC) 196068879099
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.

Top Recommended Displays, Accessories and Services

Z Displays	
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
Keyboards	
HP Wireless Premium Keyboard	Z9N41AA
DDR4 Memory	
HP 16GB (1x16GB) DDR4-2933 ECC RegRAM	5YZ54AA
HP 8GB (1x8GB) DDR4-2933 ECC RegRAM	5YZ56AA
HP 32GB (1x32GB) DDR4-2933 ECC RegRAM	5YZ55AA
PC Solid State Drives	
960 GB 2.5 in Enterprise SATA3 SSD	1W6P8AA
HP Z Turbo Drive Dual Pro 2TB SSD	4YF63AA
Removable Hard Drive Enclosure	
HP ZCentral 4R 2.5 Drive Carrier	16G56AA

Messaging Footnotes

[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.

Technical Specifications Footnotes

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[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 .

[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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