

ProductSheet
HP Z2 G8 SFF Workstation (4L5H3PA)



Small size. Endless options.

Get high-end performance in a compact device. Designed to pack more graphics and processing power into less space, you can easily take on 2D and 3D CAD projects. And with near endless configuration options, it's the ideal hardware option for custom solutions.[1]



HP recommends Windows 10 Pro for business

Performance that defies space constraints.

Seamlessly render, design and run multiple apps with professional graphics and an Intel® processor. Designed for unthrottled performance, you can render and visualize projects faster.

Highly customizable to fit your needs.

Build a system matched exactly to your needs with over a million possible configurations. And with customizable I/O ports, you can support new and legacy technologies, dynamic displays and even a second LAN—without messy dongles or adapters.

Industry-leading security. Durability you can trust.

Backed by 360K hours of rigorous testing, military-standard testing,[3] and software certifications, every component is put to the test. And with hardened security features, your Z2 SFF is protected from the BIOS to the browser, above and below the OS.

Featuring

Windows 10 Pro 64

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

Intel® Core™ i5 processor

Experience powerful performance and seamless computing for your everyday tasks and higher performance needs with the Intel® Core™ i5 processor. [2]

NVIDIA® Quadro® P400 graphics card

Get stable, reliable performance on professional workflows that require you to manage complex 2D and 3D models with NVIDIA® Quadro® P400 graphics.

Smaller, Functional Design

The stunning new design features front and rear ledges, so you can easily move your system from location to location.

Specifications

Form factor	Small form factor
Operating system	Windows 10 Pro 64
Processor family	11th Generation Intel® Core™ i5 processor
Processor	Intel® Core™ i5-11500 (2.7 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) ^[6,7]
Chipset	Intel® W580
Memory	16 GB DDR4-3200 MHz RAM (1 x 16 GB)
Memory Slots	4 DIMM
Internal Storage	256 GB PCIe® NVMe™ TLC SSD
Internal drive bays	Two M.2 NVME 2280 SSD; One 2.5" HDD; One 3.5" HDD
External drive bays	One 3.5" HDD; One slim ODD
Optical drive	9.5 mm Slim DVD-Writer
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 750
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays
Audio features	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker
Minimum dimensions (W x D x H)	33.8 x 30.8 x 10 cm (Standard desktop orientation.)
Minimum dimensions (W x D x H)	13.3 x 12.1 x 3.95 in (Standard desktop orientation.)
Weight	Starting at 5.4 kg (Exact weight depends on configuration.)
Weight	Starting at 11.9 lb (Exact weight depends on configuration.)
Keyboard	HP USB wired keyboard
Pointing device	HP Wired 320M Mouse
Ports	2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 universal audio jack; 2 SuperSpeed Type-A USB 5Gbps signaling rate (1 charging); 1 Type-C SuperSpeed® USB 20Gbps signaling rate (1 charging)
Expansion slots	1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 M.2 2230 PCIe 3 x1; 1 PCIe 4 x16; 1 M.2 2280 PCIe 4 x4; 1 M.2 2280 PCIe 3 x4; 1 PCIe 3 x1 (x1 connector) (1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)
Ports	1 audio-out; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate
Ports	1 DisplayPort™
Management features	HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) ^[18]
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable
Security management	HP Secure Erase; HP Power On Authentication; HP Sure Click; Windows Defender; HP Sure Sense; HP BIOSphere Gen6; HP Client Security Manager Gen7; HP Sure Start Gen7; HP Sure Run Gen4; HP Sure Recover Gen4 ^[19,20,21,22,23,24,25,26]
Software included	HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Desktop Support Utilities; HP Image Assistant; HP Notifications; My HP; HP QuickDrop ^[15,16,17]

Top Recommended Displays, Accessories and Services

Keyboards

HP Wireless Premium Keyboard	Z9N41AA
HP USB Premium Keyboard	Z9N40AA
HP PS/2 Slim Business Keyboard	N3R86AA

Mice

HP Wireless Premium Mouse	1JR31AA
HP USB Premium Mouse	1JR32AA
HP Wired Desktop 320M Mouse	9VA80AA

Graphics Cards

NVIDIA Quadro P400 2GB Graphics	1ME43AA
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AA

DDR4 Memory

8GB (1x8GB) 3200 DDR4 ECC UDIMM	141J3AA
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Audio and Video Cables

HP DisplayPort to HDMI True 4K Adapter	2JA63AA
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PC SATA Hard Drives

HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
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PC Solid State Drives

HP ZTurbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AA
HP ZTurbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AA

Messaging Footnotes

[1] Based on HP's internal analysis of non-gaming small form factor desktop workstations with a minimum 3 ISV certs, configurable professional graphics, and a dedicated workstation brand as of April 2021. Power based on processor, graphics, memory, and power supply.

[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.

[3] Undergoes MIL-STD testing. MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Service.

Technical Specifications Footnotes

[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 ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. 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.

[16] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: <https://www8.hp.com/us/en/workstations/performance-advisor.html>

[17] HP Support Assistant requires Windows and Internet access.

[18] HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>

[19] HP Client Security Manager Gen7 requires Windows and is available on the select HP PCs.

[20] HP BIOSphere Gen6 features may vary depending on the platform and configurations.

[21] HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[22] HP Sure Start Gen7 is available on select HP PCs and workstations. See product specifications for availability.

[23] HP Sure Run Gen4 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.

[24] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[25] 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.

[26] HP Sure Sense requires Windows 10 Pro or Enterprise 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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