#### **eDatasheet**

# HP Z2 SFF G5 Workstation (209B2PA)



### HP's most powerful small form factor, reimagined.

Get high-end performance in a compact device. Completely redesigned to pack more graphics and processing into less space, you can easily take on complex 3D design projects. And with near endless configuration options, it's the ideal hardware when you need a custom solution.



HP recommends Windows 10 Pro

#### Performance that defies space constraints.

Get high-end professional graphics and an Intel® processor in a small form factor. Re-engineered from the ground up, you get full, unthrottled performance for real-time rendering and faster visualizations.

#### Make it your own with our most customizable small form factor.

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.

#### We test it so you can trust it. 24/7.

We know you need performance you can rely on. That's why our products endure over 360K hours of rigorous testing, MIL-STD testing[3] and software certifications.

#### **Featuring**

#### 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. [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. <sup>[2]</sup>

#### NVIDIA® Quadro® P1000 graphics card

Get stable, reliable performance on demanding professional applications with NVIDIA® Quadro® P1000 graphics.

# **Specifications**

Form factor	Small form factor	
Operating system	Windows 10 Pro for Workstations	
Processor family	Intel® Xeon® W processor	
Processor	Intel® Xeon® W-1250 (3.3 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) <sup>[6,7]</sup>	
Chipset	Intel® W480	
Memory	32 GB DDR4-3200 SDRAM (1 x 32 GB)	
Memory Slots	4 DIMM	
Internal Storage	512 GB SATA SSD	
Hard drive (2nd)	1 TB 7200 rpm SATA HDD	
Internal drive bays	One 2.5"; One 3.5"; Two M.2 NVME 2280 SSD	
External drive bays	One 3.5" HDD	
Graphics	Discrete	
Graphics (discrete)	NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated)	
Graphics	Integrated	
Graphics (integrated)	Intel® UHD Graphics P630	
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays	
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 Wired Desktop 320K keyboard	
Pointing device	HP USB wired premium mouse	
Ports	1 headphone/microphone combo; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate	
Expansion slots	1 PCle 3 x4 (x16 connector); 2 PCle 3 x1 (x1 connector); 1 PCle 3 x16 (x16 connector); 1 M.2 2230 PCle 3 x1; 2 M.2 2280 PCle 3 x4	
Ports	1 audio-out; 1 RJ-45; 2 USB 2.0; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate	
Ports	1 Media Card Reader	
Sustainable impact specifications	Low halogen	
Security management	HP Business PC Security Lock Kit; HP Keyed Cable Lock Kit; HP Solenoid Hood Lock and Sensor; HP UltraSlim Cable Lock Kit; HP Secure Erase; HP Sure Click; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Admin; HP Client Security Manager Gen6 <sup>[15,20,21,22,24,25,26,27,28,34,35,36]</sup>	
Software included	HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit <sup>[11,12,16,23]</sup>	
UPC number	195161710025	

# **Top Recommended Displays, Accessories and Services**

Z Displays	
HP Z24n G2 24-inch Display	1JS09A4
HP Z27n G2 27-inch Display	1JS10A4 1AA81A4
HP Z32 31.5-inch 4K UHD Display	
Keyboards	
HP Wireless Premium Keyboard	Z9N41AA
Mice	
HP Wireless Premium Mouse	1JR31AA
HP USB Premium Mouse	1JR32AA
Graphics Cards	
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AA
NVIDIA Quadro P400 2GB Graphics	1ME43AA
NVIDIA Quadro P1000 4GB Graphics	1ME01AA
PC SATA Hard Drives	
HP 1TB Enterprise SATA 7200 HDD	WOR10AA
HP 4TB SATA 7200 Hard Drive	K4T76AA

#### **Messaging Footnotes**

- [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] 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.
- [11] HP Support Assistant requires Windows and Internet access.
- [12] 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 7operating 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
- [15] HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs..
- [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
- [22] HP BIOSphere Gen6 features may vary depending on the platform and configurations.
- [23] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html
- [24] HP Client Security Manager Gen6 requires Windows and is available on select HP Elite, Pro and Workstations.
- [25] HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A\_SureClick for complete details.
- [26] HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.
- [27] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors
- [28] HP Sure Recover Gen3 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.
- [34] 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
- [35] 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.
- [36] HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

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