HP Z2 SFF G9 Workstation Desktop PC



Full size Z tower power at half the size

Get all the power of a full size tower at a fraction of the size. Re-engineered to fit full-height, full-length graphics while leaving room for upgrades and expansion, the Z2 SFF delivers high performance for your intensive workflow—from 3D design to real time ray tracing—now and in the future.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Full height, full length performance

Design, simulate and—for the first time—real time ray trace on a Z2 SFF. Now
fitting full height, full length pro graphics and Intel® Core™ processors, including KSeries, this PC delivers tower-sized performance that defies space constraints.

Configurable for today. Expandable for tomorrow.

 Accelerate your current workflow with a multitude of options across processor, graphics, memory, storage, and I/O ports. And with plenty of room to upgrade and expand, this PC is ready to grow with you as your workflow evolves.

Industry leading security. Reliability you can trust.

- Get peace of mind with a PC that's built to endure. The Z2 SFF undergoes 360K hours of rigorous testing, military-standard testing¹ and is certified for pro apps. And with HP Wolf Security for Business², it's protected below, in and above the OS.
- Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.⁴
- Bring your ideas to life quickly and run multiple apps simultaneously with the latest Intel® Core™ vPro®6 processors. For added performance, choose the K-Series.
- Design, real-time ray trace and simulate with up to NVIDIA RTX A4000 and AMD Radeon Pro X graphics with PCIe G4 high speed bandwidth.⁷
- Experience fast performance when working on complex design tasks with 4 DIMMs for up to 128GB DDR5 memory at an increased memory speed of up to 4400MHz.⁸
- Simplify your storage with up to 36TB with 3x M.2 storage slots and RAID for added performance and reliability.⁹
- Configure to the needs of today and tomorrow. Experience flexible I/O modules with multiple options for customers to choose from, including DP 1.4, VGA, HDMI, Dual USB Type-A, USB Type-C® with Alt-DP or 2nd Serial and more.¹⁰
- Custom tune your PC to ensure peak performance for your heaviest workloads.
 Now you're ready to take on any task.
- Evolve your work. Evolve your rig. With tool-less access to the interior, you can customize your Z to fit your needs.
- Get fast network connectivity with 10Gb Ethernet interface.
- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.¹¹
- Innovatively designed to keep hardware components cool and quiet no matter how hard you push it. Have confidence to run your system at max load 24/7.
- Work with confidence knowing your desktop is certified with leading software applications to ensure peak performance.³

HP Z2 SFF G9 Workstation Desktop PC Specifications Table







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Available Operating Systems	Windows 11 Pro ¹ Windows 11 Home—HPrecommends Windows 11 Pro for business ¹ Linux [®] Ready ² Ubuntu 2004 UTS ²⁷	
Processor family ⁴	12th Generation Intel® Core™17 processor; 12th Generation Intel® Core™19	
Available Processors	Intel® Core® 15-12400 with Intel® UHD Graphics (2.5 GHz P-core base frequency, up to 4.4 GHz P-core Max Turbo frequency, 18 MBL3 cache, 6 P-cores, 12 threads); intel® Core® 13-12300 with Intel® UHD Graphics (3.5 GHz P-core Max Turbo frequency, 12 MBL3 cache, 4 P-cores, 8 threads); intel® Core® 15-12400 with intel® UHD Graphics (1.3 GHz P-core Max Turbo frequency, 12 MBL3 cache, 4 P-core Max Turbo frequency, 14 MBL3 cache, 6 P-cores, 8 threads); intel® Core® 15-12400 with intel® UHD Graphics (1.3 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, up to 3.6 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, up to 3.6 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 2 GHz P-core Max Turbo frequency, 10 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, 2 GHz P-core base frequency, 2 GHz P-core base frequency, 2 GHz P-core Max Turbo frequency, 2 GHz P-core base frequency, 2 GHz P-core bas	
Maximum memory	128 GB DDRS-4400 non-ECC SDRAM; 128 GB DDRS-4400 ECC SDRAM ³² Transfer rates up to 4400 MT/s.	
Internal storage	\$00 GBup to 2 TB 7200 rpm \$ATAHDD7 1 TBup to 12 TB 7200 rpm Enterprise \$ATAHDD7 up to 500 GB 7200 rpm ESH DDD7 512 GBup to 4 TBHP 2 Turbo Drive PCle® NVMe™ LC M2 SSD7 512 GBup to 4 TBHP 2 Turbo Drive PCle® NVMe™ ED 0 pal 2 TLC M2 SSD7 512 GBup to 1 TBPCle® NVMe™ Value M2 SSD7 550 GBup to 1 TBPCle® NVMe™ Value M2 SSD7 550 GBup to 1 TBPCle® NVMe™ Value M2 SSD7 500 GBup to 2 TBC (RUS HISP Semonable NVMe™ Module7	
Optical drive	HPSlim DVD-ROM; HPSlim DVD-Writer 11.12	
Available Graphics	Integrated:Intel® UHD Graphics 770 Entry 30: NVDIA® 1400 2 GB; NVDIA® 1500 2 GB; NVIDIA® 1500 4 GB ^{3.0} Mid-range 30: AMD Radeon® Pro W6600 (8GB CDDR6 dedicated); NVDIA® 11000 8 GB; NVIDIA® RTX™A2000 12 GB; NVIDIA® 11000 4 GB High-end 30: NVIDIA® RTX™A2000 16 GB; AMD Radeon® M6 6700XT (12 GB CDDR6 dedicated)	
Audio	Realtek ALC3252	
Expansion slots	1 half-height PCle 4 x16; 1 half-height PCle 3 x4; 1 half-height PCle 3 x4 (x16 connector); 1 half-height PCle 3 x1; 1 full-height PCle 4 x16; 1 full-height PCle 4 x16 (x16 connector) (1 M.2 2230 slot for WLAN and 3 M.2 2280 slots fi storage)	
Ports and Connectors	Front: 4 SuperSpeed USBType-A 10Gbps signaling rate (1 charging); 1 universal audio jack; Rear: 1 audio-in:1 audio-ui;1 R4-45; 2 DisplayPort**1.4;2 SuperSpeed USBType-A 10Gbps signaling rate; 3 UsBType-A 5Gbps signaling rate; 3 USBType-A 480Mbps signaling rate; 9 UptralPorts-Rives 0 - drose one of the following options: 1 DisplayPort**1.4; 1 H0M 20b, 1 VGA1 2nd 1GbE LAN, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-C* 10Gbps signaling rate (1 USBPower Delivery, Alt Mode DisplayPort*)*1 Thunderboit**3 with SuperSpeed USBT Type-C* 20G USBPower Delivery, Alt Mode DisplayPort*)*1 Thunderboit**3 with SuperSpeed USBT Type-C* 20G Signaling rate (1 draging), 2 SuperSpeed USBT Type-C*	
Input devices	HPWired Desktop 320K keyboard; HPWired Desktop 320MK Mouse and Keyboard; HP 125 Wired Keyboard; HP 655 Wireless Keyboard and mouse combo; HP 975 Wireless Keyboard; HP 455 Programmable Wireless Keyboard ⁹ ; HPWired Desktop 320M mouse; HP wired desktop 128 laser mouse; HP 125 Wired Mouse; HP Creator 935 Black Wireless Mouse ⁸ ;	
Communications	LAN: Integrated Intel® 1219-LM GbE; Intel® 1225-LM 2.5 GbE LOM, non-vPro®; Intel® Ethernet Network Adapter 1225-11; Intel® XSS0-T2 dual-port 10GbE NIC; NVIDIA® Mellanox CornectX-6 DX Dual Port 10/25 GbE SFP28 NIC; NVIDIA® Mellanox 10GbE SFP-268 NIT canscever; NVIDIA® Mellanox 10GbE SFP-268 NIT canscever; NVIDIA® Mellanox 10GbE SFP-269 NIT (2-90 NIT)	
Drive Bays	One 3.5" HDD; One sim ODD; One 2.5" HDD; One 3.5" HDD; Three M2 NVME 2280 SSD	
Software	HPPCHardware Diagnostics UEFkHPSupport Assistant; HPPCHardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0; 15,16,17	
Security management	HPSecure Erase; HPSure Clidx: HPBIOSphere Gen6; HPSure Admin; Hood Sensor Optional Kit; HPClient Security Manager Gen6; HPSure Start Gen7; HPSure Recover Gen4; HPSure Sense Gen2; HPSure Run Gen5; 19.20.21.22.23.24.25.26.31	
Security Software Licenses	HPWolf Pro Security Edition ⁵⁶	
Management features	HPDriver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) 18	
Power	260 W 92% efficient, wide-ranging, active PFC; 550 W 92% efficient, wide-ranging, active PFC; 450 W 90% efficient, wide-ranging, active PFC 10	
Dimensions	38.4 x 30.8 x 10 cm; (Standard desktop orientation.)	
Weight	Starting at 5.0 kg; (Exact weights depend upon configuration (System weight only))	
Ecolabels	IT ECO Dedaration; TCO Certified configurations available; EPEAT® Cold registered in the U.S. ¹³	
Energy star certified (series fixed)	ENERGY STAR® certified	
Sustainable impact specifications	Ocean-bound plastic in speaker endosure; 45% post-consumer recycled plastic 25% (TE-derived dosed loop plastic Bulk packaging available; 80 Plus * Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker endosure and system fan; Contains recycled metal	
Compatible displays	All HPZ Displays and HPD reamColor Displays are supported. For more information see www.hp.com/go/z/displays (Supports 8 displays, driving 8 displays requires the use of integrated and discrete graphics ports. Each source can drive a total of 4 displays. At least one of the integrated graphics ports need to drive two displays in a daisy chain configuration.)	

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Accessories and services (not included)

HP DisplayPort to HDMI True 4K Adapter



Make the most of the available ports on your HP Business Desktop or HP Workstation with the HP DisplayPort to HDMI True 4K Adapter, which converts your DisplayPort™ output to HDMI for quick and easy connection to a range of multimedia devices that can support 4K resolution and 60hz refresh.

Product number: 2JA63AA

HP Keyed Cable Lock 10 mm



Help keep your notebook safe in the office and high-traffic areas by tethering it to a secure surface with the HP Master Keyed Cable Lock 10mm, designed specifically for ultra-thin profile

Product number: T1A62AA

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Messaging Footnotes

- 1 HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
 2 MLSTD 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 Protection Care Pack.
 3 Third party software sold separately.

- 4 Not all features are available in all editions or versions of Windows, Systems may require upgraded and brise parately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 11 Pro is automatically *Notal leatures are available in all editions or versions of Windows. Systems may require upgraded and months eparately purchased hardware, drivers, software or BIDS update to take full advantage of Windows functionality. Windows 11 Pro is automatically updated, which is always enabled. IS Prese may apply and additional requirements may apply over time for updates. See http://www. windows.com.

 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 hardwareand software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

 For full Intel® VPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and br WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/pro

- Sold separately or as an optional feature

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- For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB of system disk (for Windows 11) is reserved for system recovery software
- 10 Optional features that must be configured at purchase or are sold separately.

 11 HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.

Technical Specifications Footnotes

1 Not all features are available in all editions or versions of Windows. Systems may require upgraded and brise parately purchased hardware, drivers, so ftware or BIOS update to take full advantage of Windows functionality. Windows is automatically updated

- Notal leatures are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIDS update to take full advantage of Windows in unctionality. Windows is automatically updated and enabled. High speed in tenented and Microsoft account required. SP fees may apply and additional required additional required and additional required in additional required and additional required in the state of the
- http://intel.com/vpro
- 6 Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.
- For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB of system disk (for Windows 11) is reserved for system recovery software.
- 8 Flex IO port and one PCIeslot will be occupied when Thunderbolt is installed.

- 8 Flex/D port and one PC les for will be occupied when Thunderbolt is installed.

 9 Keyboard and Mouseare optional or add on features.

 10 Specific chassis required for 550 W 92 % efficient, wide-ranging, active PFC power supply.

 11 Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.66B Single Sided/5.2 Double Sided-Version 1.0 Media.

 12 With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a

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- THP Support Assistant requires Windows and Internet access.

 18 HP Manageability Integration Kit can be downloaded from http://www.8.hp.com/us/en/ads/kilentmanagement/bverview.html

 18 HP Client Security Manager Gen 7 requires Windows and is available on the select HP PCs.

 20 HP BIOSphere Gen 6 features may vary depending on the platform and configurations.

 21 HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bt.ly/2PtT 6A_SureClick for complete details.

 22 HP Sure Start Gen 7 is available on select HP PCs and workstations. See product specifications for availability.

 23 HP Sure Run Gen 5 is available on select HP PCs and workstations. See product specifications for availability.

- ²³ HP Sure Run Gen 5 is available on select HP PCs and requires Windows 10 and higher.

 ²⁴ HP Sure Recover Gend 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 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™.

 ²⁶ HP Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

 ²⁷ A certified preloaded version of Ubunitu® 20.04 IT S is available from HP for this platform.

 ²⁸ Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-FI6 (802.11ax) is backwards compatible with prior 802.11 specs.

 ²⁹ When slot 2's configured with a PC (Lecard, slot 1 will automatically downgrade to PC (Lexê electrical.

 ³⁰ NVDIA® **1400 (2 GB GDDRG dedicated) may go End of Life in late 2022.

 ³¹ HP Sure Admin requires Windows 110 or higher HP BIOS. HP Manageability Integration KI from http://www.hp.com/toc/lientmanagement and HP Sure Admin Local Access Authenticator smarth-pope and from the Android or Apple store.

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 31 HP Sure Admin Lequise Windows 10 or higher HP BIOS. HP Anagaeability Integration Kit from http://www.hp.com/go.klientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Applestore.

 32 Due to the non-industry standard nature of some third-party memory modules, were commend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

 35 HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available perloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software End-User license Agreement (EULA) that can be found at this typort. hp. com/us-en/document/sh_38757014-15 is a that EULA is modified by the following: '7. Term.

 Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve(12) month or thirty-six (36) month licenses term ('nitial Term') cut means a provided by the production of HP Sure Click Pro) is effective upon activation and will continue for either a twelve(12) month or thirty-six (36) month licenses term ('nitial Term') cut means a provided by the production of HP Sure Click Pro) is effective upon activation and will continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no futures of tweetons are new all icenses for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no futures of tweetons.

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