HP Z2 SFF G1i Workstation Desktop PC

Tower power at a third of the size.



Re-engineered to get all the power of a full-size tower at a fraction of the size. The Z2 SFF AI workstation delivers high performance for intensive workflows—from 3D design to real time ray tracing—now and in the future. When demands change, you have the impressive ability to upgrade and expand.

Small form. Big power. Impressive expandability.

Design, simulate, and real-time ray trace on the Z2 SFF AI workstation, with low-profile NVIDIA RTXTM graphics and up to an Intel® Core™ Ultra 9 processor¹, including K-Series. Easily upgrade memory² and storage as work evolves with tool-less access.

Smaller design. Big impact.

Whether placed horizontally or vertically, the Z2 SFF AI workstation defies space constraints. Its smaller size allows for 4 units across a 7U rack.³ Stylish yet purposeful venting improves airflow to enable powerful K-series CPUs and NVIDIA® low profile GPUs.

Power AI-accelerated workflows

Accelerate AI workflows with the Z2 SFF AI workstation. Iterate and problem solve faster locally with up to an NVIDIA RTX[™] 4000 SFF Ada Generation GPU that delivers up to 307 AI TOPS. A built-in NPU⁴ efficiently takes on productivity tasks.

Help protect our shared future

HP cares about the impact our products have on our people, communities, and planet. That's why this device contains 60% recycled plastics⁵, 20% recycled steel⁶, 100% sustainably sourced outer box packaging⁷, and is EPEAT® Gold with Climate+.⁸



HP Z2 SFF G1i Workstation Desktop PC

Operating System

Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.⁹

Intel® Core™ Ultra Processors

Unleash power-efficient performance with up to an Intel [®] Core[™] Ultra 9 CPU, including K-Series. This CPU unlocks performance for the next era of Alenhanced software, and the dedicated NPU greatly increases efficiency for productivity tasks.¹

Graphics

Design, real-time ray trace and simulate with up to NVIDIA RTX™ 4000 SFF Ada Generation graphics with PCIe G5 high speed bandwidth.¹⁰

Memory

High speed memory for near real-time responsiveness with fast data transfer speeds of up to 5600 MT/s and up to 256 GB DDR5 memory.^{2,11}

Storage

Make storage simple with up to 12TB, with 3 M.2 storage slots and RAID for added performance and reliability.¹²

Flexible I/O Modules

Configure to the needs of today with flexibility for the future with flexible I/O ports and 15 configurable I/O options.¹³

Tool-less Access

Evolve your work. Evolve your rig. With tool-less access to the interior, you can customize your Z to fit your needs.

Rackable Design

Whether positioned horizontally or vertically, the Z2 SFF defies space constraints. Its smaller size allows for a new rack solution – 4 units across a 7U rack.³

Independent Software Vendor Certifications

Work with confidence knowing your workstation is certified by leading software vendors to ensure peak performance even on complex projects.¹⁴

Thermal Management

Innovatively designed with hardware components like smart fan control and new lattice design venting to keep your PC cool and quiet no matter how hard you push it. Have confidence to run your system at max load.

Custom Performance Modes

Take on the toughest workflows with High Performance Mode set as the default and experience up to 34% performance improvement for multi-threaded workflows. Easily change to Quiet Mode with a BIOS setting.¹⁵

Power Supply

Multiple PSU options, including the 500W PSU that support the highest power CPU and GPU rich configurations.¹⁶



HP Z2 SFF G1i Workstation Desktop PC

Specifications Table

Available Operating Systems	Windows 11 Pro ¹ Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Linux® Ready ³ Ubuntu 24.04 LTS ²
Processor family ^{4,5}	Intel® Core™ Ultra 9 processor; Intel® Core™ Ultra 7 processor; Intel® Core™ Ultra 5 processor
Available Processors ^{4,5,6}	Intel® Core™ Ultra 9 285K with Intel® Graphics (3.2 GHz E-core base frequency, 3.7 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.5 GHz P-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 24 threads) Intel® Core™ Ultra 9 285 with Intel® Graphics (1.9 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 24 threads) Intel® Core™ Ultra 7 265K with Intel® Graphics (3.3 GHz E-core base frequency, 3.9 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 12 E-cores, 20 threads) Intel® Core™ Ultra 7 265 with Intel® Graphics (1.8 GHz E-core base frequency, 2.4 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 12 E-cores, 20 threads) Intel® Core™ Ultra 5 245K with Intel® Graphics (3.6 GHz E-core base frequency, 4.2 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 245K with Intel® Graphics (3.0 GHz E-core base frequency, 4.2 GHz P-core base frequency, up to 4.5 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 245 with Intel® Graphics (2.0 GHz E-core base frequency, 3.5 GHz P-core base frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 235 with Intel® Graphics (2.0 GHz E-core base frequency, 3.4 GHz P-core base frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 225 with Intel® Graphics (2.7 GHz E-core base fr
Chipset	Intel® W880
Product colour	Black
Form factor	Small form factor
Maximum memory	128 GB DDR5-5600 MT/s ECC; 192 GB DDR5-5600 MT/s non-ECC Transfer rates up to 5600 MT/s.
Memory slots	4 UDIMM
Internal storage	512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe [™] M.2 SSD ⁷ 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe [™] Opal 2 M.2 SSD ⁷ 1 TB up to 2 TB HP Z Turbo Drive PCIe® Gen5 NVMe [™] M.2 SSD ⁷ 1 TB up to 2 TB HP Z Turbo Drive PCIe® Gen5 NVMe [™] Opal 2 M.2 SSD ⁷ 512 GB up to 2 TB Citadel PCIe® NVMe [™] SSD M.2 ⁷ 512 GB up to 2 TB PCIe® NVMe [™] FIPS 140-2 SED SSD ⁷ 256 GB up to 1 TB PCIe® NVMe [™] Value M.2 SSD ⁷
Available Graphics	Integrated: Intel® Graphics Discrete: NVIDIA RTX™ 2000 Ada Generation (12 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ A1000 (8 GB GDDR6 dedicated) NVIDIA® A400 (4 GB GDDR6 dedicated)
Audio	Realtek ALC3252 codec, universal audio jack with CTIA and OMTP headset support
Expansion slots	2 M.2 2280 PCIe 4 x4; 1 M.2 2230 for WLAN; 1 PCIe 5 x16; 1 M.2 2280 PCIe 5 x4; 1 PCIe 4 x4
Ports and connectors	Front: 2 USB Type-C® 20Gbps signaling rate; 4 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo ; Rear: 2 USB Type-A 10Gbps signaling rate; 2 DisplayPort™ 1.4; 1 RJ-45; 1 audio line-in/line-out; 3 USB Type-A 480Mbps signaling rate ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 2.1 UHBR20, 1 HDMI 2.1, 1 VGA, 1 Dual USB Type-A 5Gbps signaling rate, 1 Dual USB Type-C® 10Gbps signaling rate, 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™1.4), 1 GbE LAN, 1 Thunderbolt™ 4, 2.5 GbE LAN. 10GbE LAN (10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC. Flex IO (fly cable) – choose one of the following options: 1 Dual USB Type-A 5Gbps signaling rate, USB-based Serial port option, 1GbE Fiber LC NIC.; Serial Port kit



HP Z2 SFF G1i Workstation Desktop PC

Specifications Table

Keyboard	HP 655 Wireless Keyboard and mouse combo; HP 455 Programmable Wireless Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard; HP 125 Black Wired Keyboard
Mouse	HP Wired Desktop 128 Laser Mouse; HP Wired 320M Mouse; HP 125 Wired Mouse
Communications	LAN: Intel® I350-T4 4-port GbE NIC; Integrated Intel® I219-LM PCIe® GbE; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-2911T/: 901 dual-port 1GbE NIC; Intel® i225-T1 single-port 2.5 GbE NIC; Intel® X550-T2 dual-port NIC; WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card; Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, non-vPro® ^{8,24} ;
Drive Bays	External: One slim ODD;
Software	HP Support Assistant ³⁴ ; HP UEFI BIOS Certification Level 2.7B; HP PC Hardware Diagnostics Windows; HP Manageability Integration Kit ¹⁰ ; HP Notifications; HP Desktop Support Utilities; HP Documentation; myHP ²⁵ ; WPS Office; Touchpoint Customizer for Commercial
Security management	HP Secure Erase ¹¹ ; HP Sure Click ¹² ; HP BIOSphere Gen6 ¹³ ; HP Sure Admin ¹⁴ ; Hood Sensor Optional Kit; HP Client Security Manager Gen6 ¹⁵ ; HP Sure Start ¹⁶ ; HP Sure Recover ¹⁷ ; HP Sure Sense ¹⁸ ; HP Sure Run ²² ; HP Tamper Lock ²⁷
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Management features	HP Client Catalog (download) ³⁰ ; HP Cloud Recovery ²⁶ ; HP Driver Packs ³¹ ; HP Client Management Script Library (download) ³² ; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Image Assistant (download) ³³
Power	500 W internal power adapter, up to 92% efficiency, active PFC; 400 W external power adapter, up to 92% efficiency, active PFC
Dimensions	10 x 30.8 x 30.3 cm; (Standard desktop orientation.); 49.9 x 20 x 39.4 cm (Package)
Weight	Starting at 4.0 kg; Starting at 6.5 kg (Package) ; (Exact weight depends on configuration.)
Ecolabels	CECP; SEPA; Taiwan Green Mark; Japan PC Green Label; TCO Certified; FEMP; EPEAT® Gold with Climate+; Korea MEPS ^{23,29}
Sustainable impact specifications	Low halogen; 10% ITE-derived closed loop plastic; 80 Plus® Platinum power supplies available; Product Carbon Footprint; Contains at least 20% post-industrial recycled steel; At least 25% ocean-bound plastic in system fans; System has a QR code enabled experience where the user has access to a product portal – beginning December 2025, this is complete with product feature highlights, sustainability information, getting started guides, and direct setup and support options; New Energy Consumption dashboard available to customers providing timely carbon usage including recommended actions users can take to decrease carbon footprint ^{19,20,21,28}



HP Z2 SFF G1i Workstation Desktop

Messaging Footnotes

¹ 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 is not a measurement of clock speed. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors. ² Memory is an optional feature that must be configured at purchase. ³ Deck mounting hardware acid is generately.

Rack mounting hardware sold separately.

⁴ Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use configuration, and other factors

Consignation, and one intactors. ⁶ Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard. ⁶ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25

⁷ HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based

materials inside the box. Packaging for personal systems accessories and spare parts is not included ⁸ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more

information. Information.
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 11 Pro 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

Sold separately or as an optional feature

¹ Up to 192 GB memory is available at launch. Up to 256 GB memory is planned to be available in the second half of 2025. ¹² For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of disk is reserved for system recovery software.

³ Optional features that must be configured at purchase or are sold separately.

 ¹⁴ Optimal readies that must be computed at publicase of are sold separately.
 ¹⁵ Third party software sold separately.
 ¹⁵ Compared to Performance Mode. Performance increase based on Z2 Tower G9 with 64GB of memory, 1TB NVMe, Windows 11 22H2
 OS, RTX A4000, i9-13900 CPU using SPECworkstation 3.1. Optional feature that must be configured at purcha

Technical Specifications 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 11 is automatically updated, which hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 11 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.indows.com. ² Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates. ³ For detailed OS/hardware support information for Linux, see: http://www.hp.com/support/linux_hardware_matrix, ⁴ 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 vay depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance. ⁵ Seatures a software that require a NPL may require software ourchase.

⁵ Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by us

configuration, and other factors. Computation, and other natures. I findel VPO® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro. ⁷ Supports dual channel memory.

⁸ Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 24H2 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backward compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported.
¹⁰ HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
¹¹ 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[™].

PP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details

¹³ HP BIOSphere Gen6 features may vary depending on the platform and configuration.

⁴⁴ HP Suc Admin requires Windows 11, 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.
 ¹⁵ HP Client Security Manager Genő requires Windows and is available on the select HP PCs.
 ¹⁶ HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
 ¹⁷ HP Sure Recover is available on select HP PCs and requires Windows 10 and higher.
 ¹⁷ HP Sure Recover is available on select HP PCs and requires Windows 10 and higher.
 ¹⁶ IP Dimensional and the PC and requires Windows 10 and higher.
 ¹⁶ IP Sure Recover is available on select HP PCs and requires Windows 10 and higher.
 ¹⁶ IP Sure Recover is available on select HP CS and requires Windows 10 and higher.

Fi is only available on select PCs. ¹⁸ HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11

Enterprise OS. ¹⁹ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25

 ²⁰ Recycled instants opposed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in EPEAT standard for computers, IEEE 1680.1-2018 standard.
 ²¹ HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based certified, by a packaging for commercial, personal systems accessories, and spare parts is not included. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

²³ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more

information 24 Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. The availability of public wireless access points is mited. Wi-Fi 6E is backward compatible with prior 802.11 specs and available in countries where Wi-Fi 6E is supported

Imited: Wi-H be Is backward compatible with prior 802.11 specs and available in countries where Wi-H be Is supported. ²⁶ My-IP requires Windows OS. ²⁶ HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data.

Detail please refer to: https://support.hp.com/us-en/document/c05115630 ⁷ HP Tamper Lock must be enabled by the customer or your administrator.

¹⁴ Jumper Lock must be enabled by the customer or your administrator.
 ²⁶ Percentage of occan-bound plastic contained in each component varies by product. Occan Bound plastic is expressed as a percentage of the total weight plastic. Occan Bound plastic is based on the definition set by the UL2809 standard.
 ²⁶ TCO Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C⁶ connector. ENERGY STAR available with a combination of high-performance CPUs, high-performance GPUs and select memory configurations.
 ²⁶ HC Clert Catalog not preinstalled, however available for download at http://www.hp.com/us-en/solutions/tient-management.
 ²⁸ HC Dirtwer Packs not preinstalled, however available for download at http://www.hp.com/go/clentmanagement.
 ²⁸ HC Clert Management Solutions, html:

PP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools ³² HP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html/tab=manageability-tools ³⁴ JP Image Assistant on tpresistalled, however available for download at https://ftp.exth.p.com/pub/caps-sofpaq/cmi/bHPA.html.
³⁴ HP Support Assistant on termistalled, however available for download at https://ftp.exth.p.com/pub/caps-sofpaq/cmi/bHPA.html.
³⁴ HP Support Assistant on termistalled, however available for download at https://ftp.exth.p.com/pub/caps-sofpaq/cdiv/bHPA.html.
³⁴ HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant.
⁵⁶ HP Wolf Pro Security Edition is available preloaded on select SKUs, and, depending on the HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Proface virity Software - End-User license Agreement (ELLA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as 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 is effective upon 4 months after the date the HP Product was shipped by HP and will continue for the term communicated to you at purchase and in your odder confirmation email. Therm: All therm end of the Initial Term you may wither (a) purchase a renewal license for the HP Wolf Pro Security Edition Software Product was shipped by HP and will continue for the term communicated to you at purchase.

order confirmation email ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license 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 future software updates or HP Support. Notwithstanding the foregoing, the license shall expire no later than one year after the fixed term of the subject license ends

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