

HP Z2 SFF G1i Workstation Desktop PC (BV5M0PT)



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 RTX™ graphics and an Intel® Core™ Ultra processor,[1] including K-Series. Easily upgrade memory[2] and storage as work evolves with tool-less access.

Smaller design. Big impact.

Whether placed horizontally or vertically, the Z2 SFF 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 on your local device with a powerful discrete GPU delivering AI TOPS while a built-in NPU[4] takes on productivity tasks.

Featuring

HP recommends Windows 11 Pro for business

Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology. Summarize and rewrite content, get relevant content recommendations, and stay organized with Microsoft Copilot. [7]

Smaller, Functional Design

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

Independent Software Vendor Certifications

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

Specifications

Form factor	Small form factor
Operating system	Windows 11 Pro ^[1]
Processor family	Intel® Core™ Ultra 9 processor
Processor	Intel® Core™ Ultra 9 285 (up to 5.4 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 24 threads) [6,7]
Chipset	Intel® W880
Memory	48 GB DDR5-5600 MT/s non-ECC (1 x 48 GB)
Memory Slots	4 UDIMM
Internal Storage	1 TB PCIe® Gen4 M.2 SSD
External drive bays	One slim ODD
Graphics	Discrete
Graphics (discrete)	NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® Graphics
Audio	Realtek ALC3252 codec, universal audio jack with CTIA and OMTP headset support
Dimensions (W x D x H)	10 x 30.8 x 30.3 cm <i>(Standard desktop orientation.)</i>
Dimensions (W x D x H)	3.9 x 12.1 x 11.9 in <i>(Standard desktop orientation.)</i>
Weight	Starting at 4.0 kg <i>(Exact weight depends on configuration.)</i>
Weight	Starting at 8.8 lb <i>(Exact weight depends on configuration.)</i>
Keyboard	HP 320K Wired Keyboard
Pointing device	HP Wired 320M Mouse
Ports	2 USB Type-C® 20Gbps signaling rate; 4 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo
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	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
Package dimensions (W x D x H)	49.9 x 20 x 39.4 cm
Package weight	Starting at 6.5 kg
Wireless	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card
Energy star certified	ENERGY STAR® certified
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
UPC number	199251636042

Top Recommended Displays, Accessories and Services

Series 7 Pro

HP Series 7 Pro 27 inch QHD Monitor - 727pq	8J4D8UT
HP Series 7 Pro 27 inch QHD Monitor - 727pq PVC Free	8J4D8A5

Wireless Headset

Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA
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Wired Headset

Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA
Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X231AA

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] 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.

[7] 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 is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>. Microsoft Copilot requires Windows 11. Some features require an NPU. Timing and availability will be dependent on Microsoft and varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>.

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[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.

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