

## HP Z2 Tower G9 Workstation (B89W7UA)



### Pro-power. Today and tomorrow

Experience a whole new level of performance for your professional workflow. The Z2 Tower is engineered to seamlessly run multi-threaded apps for fast rendering, simulation, and now real-time ray tracing. And when your demands change, you have impressive expandability to upgrade.



#### Your new benchmark for entry workstation power

Designed for zero throttling so you can render, simulate, and real-time ray trace without overheating or lags.

#### Built to expand. Power to grow

With room to expand and tool-less access, you can easily upgrade and add components as your needs evolve.

#### ISV Certified

Work with confidence knowing your PC is certified with leading software applications to ensure peak performance<sup>[3]</sup>

### 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. <sup>[4]</sup>

#### Intel® Core™ i9 processor

Get high-end performance for intensive tasks like rendering and video editing with the Intel® Core™ i9 processor. <sup>[5]</sup>

#### Graphics

Create 3D models with NVIDIA® T1000.

#### Smaller, Functional Design

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

#### Tool-less Access

Evolve your work. Evolve your rig. With a tool-less sliding access cover, you can easily get into the interior, and customize your Z to fit your needs.

## Specifications

|                                          |                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating system</b>                  | Windows 11 Pro <sup>[1]</sup>                                                                                                                                                                                                                                                                                                        |
| <b>Processor family</b>                  | Intel® Core™ i9 14th generation processor                                                                                                                                                                                                                                                                                            |
| <b>Processor</b>                         | Intel® Core™ i9-14900K (up to 6.0 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads) [6,7]                                                                                                                                                                                                                |
| <b>Chipset</b>                           | Intel® W680                                                                                                                                                                                                                                                                                                                          |
| <b>Memory</b>                            | 64 GB DDR5-4800 MT/s (2 x 32 GB)                                                                                                                                                                                                                                                                                                     |
| <b>Memory Slots</b>                      | 4 DIMM                                                                                                                                                                                                                                                                                                                               |
| <b>Internal Storage</b>                  | 1 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD                                                                                                                                                                                                                                                                                         |
| <b>Internal drive bays</b>               | One 2.5" HDD; Two 3.5" HDD; Three M.2 NVME 2280 SSD                                                                                                                                                                                                                                                                                  |
| <b>External drive bays</b>               | One slim ODD; One 5.25" ODD                                                                                                                                                                                                                                                                                                          |
| <b>Graphics</b>                          | Discrete                                                                                                                                                                                                                                                                                                                             |
| <b>Graphics (discrete)</b>               | NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated)                                                                                                                                                                                                                                                                                         |
| <b>Graphics</b>                          | Integrated                                                                                                                                                                                                                                                                                                                           |
| <b>Graphics (integrated)</b>             | Intel® UHD Graphics 770                                                                                                                                                                                                                                                                                                              |
| <b>Compatible displays</b>               | All HP Z Displays and HP DreamColor Displays are supported. For more information see <a href="http://www.hp.com/go/zdisplays">www.hp.com/go/zdisplays</a>                                                                                                                                                                            |
| <b>Audio</b>                             | Realtek ALC3205-VA2-CG, 2.0W internal mono speaker                                                                                                                                                                                                                                                                                   |
| <b>Dimensions (W x D x H)</b>            | 35.6 x 16.9 x 38.5 cm<br>(Standard tower orientation.)                                                                                                                                                                                                                                                                               |
| <b>Dimensions (W x D x H)</b>            | 14 x 6.7 x 15.2 in<br>(Standard tower orientation.)                                                                                                                                                                                                                                                                                  |
| <b>Weight</b>                            | Starting at 6.2 kg<br>(Exact weight depends on configuration.)                                                                                                                                                                                                                                                                       |
| <b>Weight</b>                            | Starting at 13.7 lb<br>(Exact weight depends on configuration.)                                                                                                                                                                                                                                                                      |
| <b>Keyboard</b>                          | HP Wired Desktop 320K Keyboard                                                                                                                                                                                                                                                                                                       |
| <b>Pointing device</b>                   | HP Wired 320M Mouse                                                                                                                                                                                                                                                                                                                  |
| <b>Ports</b>                             | 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack                                                                                                                                                                                                                                                   |
| <b>Expansion slots</b>                   | 1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 3 x1 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M.2 2230 PCIe 3 X1 for WLAN<br>(1 M.2 2230 slot for WLAN and 3 M.2 2280 slots for storage)                                                                                                                      |
| <b>Ports</b>                             | 1 audio-in; 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                                                                                                                                               |
| <b>Package dimensions (W x D x H)</b>    | 51.8 x 29.5 x 49 cm                                                                                                                                                                                                                                                                                                                  |
| <b>Power</b>                             | 700 W 92% efficient, wide-ranging, active PFC                                                                                                                                                                                                                                                                                        |
| <b>Management features</b>               | HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) <sup>[18]</sup>                                                                                                                            |
| <b>Sustainable impact specifications</b> | 80 Plus® Gold power supplies available; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; 45% post-consumer recycled plastic; 10% ITE-derived closed loop plastic; Low halogen PCAs; Product Carbon Footprint; Ocean-bound plastic in system fan, processor fan and speaker |
| <b>Security management</b>               | HP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Sense Gen2; HP Sure Run Gen5 <sup>[19,20,21,22,23,24,25,26,33]</sup>                                                                                  |
| <b>Software included</b>                 | HP Support Assistant; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0 <sup>[15,16,17]</sup>                                                                                                                                                                        |
| <b>UPC number</b>                        | 198990490403                                                                                                                                                                                                                                                                                                                         |
| <b>Manufacturer Warranty</b>             | 1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.                                                                                                                                                              |

## Top Recommended Displays, Accessories and Services

### Personal Systems Hardware Support Onsite Service

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|------------------------------------------------------------------------------|--------|
| HP 3 year Next Business Day Onsite Optional CSR Workstations HardwareSupport | U1G59E |
|------------------------------------------------------------------------------|--------|

### Personal Systems Commercial Care Pack Services

|                                                                                      |        |
|--------------------------------------------------------------------------------------|--------|
| HP 3 year Active Care Next Business Day Response Onsite Workstation Hardware Support | U22K9E |
|--------------------------------------------------------------------------------------|--------|

### Speakerphones

|                                       |         |
|---------------------------------------|---------|
| Poly Sync 20+ USB-C Speakerphone      | 772D0AA |
| Poly Sync 20 USB-C Speakerphone       | 7F0J7AA |
| Poly Sync 10 USB-A USB-C Speakerphone | 772C3AA |

### Wireless Headset

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

### 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 |

### Storage

|                                        |         |
|----------------------------------------|---------|
| HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit | 201F8AA |
|----------------------------------------|---------|

### Internal ports/Modules/Controllers

|                                                         |         |
|---------------------------------------------------------|---------|
| NVIDIA Mellanox ConnectX-6 LX Dual Port 25GbE SFP28 NIC | 436M8AA |
|---------------------------------------------------------|---------|

### Wireless Mice

|                                        |         |
|----------------------------------------|---------|
| HP 715 Rechargeable Multi-Device Mouse | 6E6F0AA |
|----------------------------------------|---------|

### Cables/Cable Adapters/Dongles

|                               |         |
|-------------------------------|---------|
| HP DisplayPort To VGA Adapter | AS615AA |
|-------------------------------|---------|

## Messaging Footnotes

[3] Third party software sold separately.

[4] 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>.

[5] 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.

## 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.

[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 11 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](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 Gen5 is available on select HP PCs and requires Windows 10 and higher.

[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] 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 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.

[33] HP Sure Admin requires Windows 10 or higher, 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.

**Learn more at**  
**[hp.com](http://hp.com)**

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