



# HP Z2 G9 Intel® Core™ i9 i9-13900K 16 GB DDR5-SDRAM 512 GB SSD Windows 11 Pro SFF Workstation Black



**Brand :** HP

**Product family:** Z2

**Product code:** 86B91EA

**Product name :** G9

- Intel® Core™ i9-13900K (up to 5.8 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)
  - Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)
  - Intel® UHD Graphics
  - 16 GB memory; 512 GB SSD storage
- Z2 Small Form Factor G9 Workstation, Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade), Intel® Core™ i9, 16GB RAM, 512GB SSD



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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.

| Processor                            |                          | Ports & interfaces                                |                      |
|--------------------------------------|--------------------------|---|----------------------|
| Processor manufacturer *             | Intel                    | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1                    |
| Processor family *                   | Intel® Core™ i9          | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 6                    |
| Processor generation                 | 13th gen Intel® Core™ i9 | USB 3.2 Gen 2x2 Type-C ports quantity             | 1                    |
| Processor model *                    | i9-13900K                | USB Power Delivery                                | ✓                    |
| Processor cores                      | 24                       | USB Type-C DisplayPort Alternate Mode             | ✓                    |
| Processor threads                    | 32                       | DisplayPorts quantity                             | 2                    |
| Processor boost frequency            | 5.8 GHz                  | DisplayPort version                               | 1.4                  |
| Performance cores                    | 8                        | Ethernet LAN (RJ-45) ports                        | 1                    |
| Efficient cores                      | 16                       | Line-out  | ✓                    |
| Performance-core Max Turbo Frequency | 5.4 GHz                  | Line-in   | ✓                    |
| Efficient-core Max Turbo Frequency   | 4.3 GHz                  | Combo headphone/mic port                          | ✓                    |
| Performance-core base frequency      | 3 GHz                    | <b>Expansion slots</b>                            |                      |
| Efficient-core base frequency        | 2.2 GHz                  | PCI Express x1 (Gen 3.x) slots                    | 1                    |
| Processor cache                      | 36 MB                    | PCI Express x4 (Gen 3.x) slots                    | 2                    |
| Processor cache type                 | L3                       | PCI Express x16 (Gen 4.x) slots                   | 3                    |
| Bus type                             | DMI4                     | <b>Design</b>                                     |                      |
| Processor base power                 | 125 W                    | Chassis type *                                    | SFF                  |
| Maximum turbo power                  | 253 W                    | Placement supported                               | Horizontal           |
| <b>Memory</b>                        |                          | Number of 3.5" bays                               | 1                    |
| Internal memory *                    | 16 GB                    | Number of 2.5" bays                               | 1                    |
| Maximum internal memory *            | 128 GB                   | Product colour *                                  | Black                |
| Internal memory type                 | DDR5-SDRAM               | Introduction year                                 | 2023                 |
| Memory layout (slots x size)         | 1 x 16 GB                | <b>Performance</b>                                |                      |
| Memory clock speed                   | 4800 MHz                 | Market positioning                                | Performance          |
| ECC                                  | ✗                        | Audio chip  | Realtek ALC3252      |
| Non-ECC                              | ✓                        | Password protection                               | ✓                    |
| <b>Storage</b>                       |                          | Password protection type                          | BIOS, Power on, User |
| Total storage capacity *             | 512 GB                   | Product type *                                    | Workstation          |
| Storage media *                      | SSD                      | <b>Software</b>                                   |                      |
| Optical drive type *                 | ✗                        | Operating system installed *                      | Windows 11 Pro       |
| Number of storage drives installed   | 1                        |   |                      |
| Total SSDs capacity                  | 512 GB                   |   |                      |
| Number of SSDs installed             | 1                        |   |                      |
| SSD capacity                         | 512 GB                   |   |                      |
| SSD memory type                      | TLC                      |   |                      |

|                                |                      |                                   |   |   |
|--------------------------------|----------------------|-----------------------------------|---|---|
| <b>Storage</b>                 |                      | <b>Software</b>                   |   |   |
| SSD interface                  | PCI Express          | Pre-installed software            | HP PC Hardware Diagnostics UEFI; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0             |   |
| NVMe                           | ✓                    |                                   |   |   |
| SSD form factor                | M.2                  |                                   |   |   |
| <b>Graphics</b>                |                      | <b>Processor special features</b> |   |   |
| Discrete graphics card *       | ✗                    | CPU configuration (max)           | 1   |   |
| On-board graphics card *       | ✓                    | <b>Brand-specific features</b>    |   |   |
| Discrete graphics card model * | Not available        | HP Support Assistant              | ✓   |   |
| On-board GPU manufacturer      | Intel                | HP Security tools                 | 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 |   |
| On-board graphics card family  | Intel® UHD Graphics  |                                   | HP Management tools   | HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) |
| On-board graphics card model * | Intel® UHD Graphics  |                                   |   | HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0                 |
| <b>Network</b>                 |                      | HP Software provided              | HP GTIN (EAN/UPC)   |   |
| Ethernet LAN *                 | ✓                    |                                   | 196786432361  |   |
| Wi-Fi *                        | ✓                    |                                   | HP segment  |   |
| Top Wi-Fi standard             | Wi-Fi 6E (802.11ax)  |                                   | Business  |   |
| Wi-Fi standards                | Wi-Fi 6E (802.11ax)  | <b>Power</b>                      |   |   |
| WLAN controller manufacturer   | Intel                | Power supply *                    | 550 W   |   |
| WLAN controller model          | Intel Wi-Fi 6E AX211 | Power supply input voltage        | 100 - 240 V   |   |
| Antenna type                   | 2x2                  | Power supply input frequency      | 50 - 60 Hz  |   |
| Bluetooth                      | ✓                    | <b>Weight &amp; dimensions</b>    |   |   |
| Bluetooth version              | 5.3                  | Width *                           | 384 mm  |   |
| <b>Ports &amp; interfaces</b>  |                      | Depth *                           | 308 mm  |   |
| USB 2.0 ports quantity *       | 3                    | Height *                          | 100 mm  |   |
|                                |                      | Weight *                          | 5 kg  |   |
|                                |                      | Package width                     | 100 mm  |   |
|                                |                      | Package depth                     | 384 mm  |   |
|                                |                      | Package height                    | 308 mm  |   |
|                                |                      | Package weight                    | 5.9 kg  |   |
|                                |                      | <b>Packaging content</b>          |   |   |
|                                |                      | Display included *                | ✗   |   |
|                                |                      | Mouse included                    | ✓   |   |
|                                |                      | Keyboard connectivity             | Wired   |   |
|                                |                      | <b>Logistics data</b>             |   |   |
|                                |                      | Harmonized System (HS) code       | 8471500000  |   |



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