



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



**Brand :** HP

**Product family:** Z2

**Product code:** 86B90EA

**Product name :** G9

- Intel® Core™ i9-13900 (up to 5.6 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 24 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

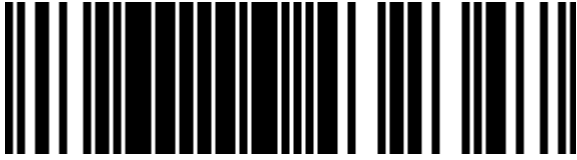


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Full size Z tower power at half the size  
Get all the power of a full size tower at a fraction of the size. Re-engineered to fit full-height, full-length graphics while leaving room for upgrades and expansion, the Z2 SFF delivers high performance 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 *	i9-13900	USB Power Delivery	✓
Processor cores	24	USB Type-C DisplayPort Alternate Mode	✓
Processor threads	24	DisplayPorts quantity	2
Processor boost frequency	5.6 GHz	DisplayPort version	1.4
Performance cores	8	Ethernet LAN (RJ-45) ports	1
Efficient cores	16	Line-out	✓
Performance-core Max Turbo Frequency	5.2 GHz	Line-in	✓
Efficient-core Max Turbo Frequency	4.2 GHz	Combo headphone/mic port	✓
Performance-core base frequency	2 GHz	<b>Expansion slots</b>	
Efficient-core base frequency	1.5 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	65 W	Chassis type *	SFF
Maximum turbo power	219 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 GTIN (EAN/UPC)	196786432347	
Ethernet LAN *	✓	HP segment	Business	
Wi-Fi *	✓	<b>Power</b>		
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)	Power supply *	550 W	
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Power supply input voltage	100 - 240 V	
WLAN controller manufacturer	Intel	Power supply input frequency	50 - 60 Hz	
WLAN controller model	Intel Wi-Fi 6E AX211	<b>Weight &amp; dimensions</b>		
Antenna type	2x2	Width *	384 mm	
Bluetooth	✓	Depth *	308 mm	
Bluetooth version	5.3	Height *	100 mm	
<b>Ports &amp; interfaces</b>		Weight *	5 kg	
USB 2.0 ports quantity *	3	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	



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