



# HP Z2 Mini G9 Intel® Core™ i9 i9-13900K 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX A2000 Windows 11 Pro Mini PC Workstation Black



**Brand :** HP

**Product family:** Z2

**Product code:** 86D03EA

**Product name :** Mini 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
  - NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated)
  - 32 GB memory; 1 TB SSD storage
- Z2 Mini G9 Workstation, Windows 11 Pro, Intel® Core™ i9, 32GB RAM, 1TB SSD, RTX™ A2000



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Powers large workflows. Fits a tiny space.

Tackle workflows you never thought before possible on such a tiny PC. The HP Z2 Mini easily fits on your desk or behind your monitor so you can tackle 3D projects without losing valuable office space. All while feeling protected From the BIOS to the browser, above, in, and below the OS with HP Wolf Security Suite.

Processor		Network	
Processor manufacturer *	Intel	WLAN controller model	Intel Wi-Fi 6E AX211
Processor family *	Intel® Core™ i9	Antenna type	2x2
Processor generation	13th gen Intel® Core™ i9	Bluetooth	✓
Processor model *	i9-13900K	Bluetooth version	5.3
Processor cores	24	<b>Ports &amp; interfaces</b>	
Processor threads	32	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4
Processor boost frequency	5.8 GHz	USB 3.2 Gen 2x2 Type-C ports quantity	2
Performance cores	8	DisplayPorts quantity	2
Efficient cores	16	DisplayPort version	1.4
Performance-core Max Turbo Frequency	5.4 GHz	Combo headphone/mic port	✓
Efficient-core Max Turbo Frequency	4.3 GHz	<b>Expansion slots</b>	
Performance-core base frequency	3 GHz	PCI Express x4 (Gen 4.x) slots	2
Efficient-core base frequency	2.2 GHz	PCI Express x8 (Gen 4.x) slots	1
Processor cache	36 MB	<b>Design</b>	
Processor cache type	L3	Chassis type *	Mini PC
Bus type	DMI4	Placement supported	Horizontal/Vertical
Processor base power	125 W	Product colour *	Black
Maximum turbo power	253 W	Introduction year	2023
<b>Memory</b>		<b>Performance</b>	
Internal memory *	32 GB	Market positioning	Performance
Maximum internal memory *	64 GB	Audio chip	Realtek ALC3205-VA2-CG
Internal memory type	DDR5-SDRAM	Built-in speaker(s)	✓
Memory layout (slots x size)	1 x 32 GB	Number of speakers	1
Memory slots	2x SO-DIMM	Password protection	✓
Memory clock speed	5600 MHz	Password protection type	BIOS, Power on, User
ECC	✗	Product type *	Workstation
Non-ECC	✓	<b>Software</b>	
<b>Storage</b>		Operating system installed *	Windows 11 Pro
Total storage capacity *	1 TB	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	
Storage media *	SSD	Pre-installed software	
Optical drive type *	✗		
Number of storage drives installed	1		
Total SSDs capacity	1 TB		
Number of SSDs installed	1		
SSD capacity	1 TB		

<b>Storage</b>		<b>Processor special features</b>	
SSD memory type	TLC	CPU configuration (max)	1
SSD interface	PCI Express	<b>Brand-specific features</b>	
NVMe	✓	HP Support Assistant	✓
<b>Graphics</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
Discrete graphics card *	✓	HP Security tools	HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0
Discrete GPU manufacturer	NVIDIA	HP Software provided	
On-board graphics card *	✓	HP GTIN (EAN/UPC)	197498782447
Discrete graphics card model *	NVIDIA RTX A2000	HP segment	Business
Discrete graphics card memory	12 GB	<b>Power</b>	
Discrete graphics memory type	GDDR6	Power supply *	280 W
Number of discrete graphics cards	1	Power supply input voltage	100 - 240 V
On-board GPU manufacturer	Intel	Power supply input frequency	50 - 60 Hz
On-board graphics card family	Intel® UHD Graphics	<b>Weight &amp; dimensions</b>	
On-board graphics card model *	Intel® UHD Graphics	Width *	211 mm
<b>Network</b>		Depth *	218 mm
Ethernet LAN *	✓	Height *	69 mm
Wi-Fi *	✓	Weight *	2.4 kg
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)	Package width	499 mm
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Package depth	170 mm
WLAN controller manufacturer	Intel	Package height	298 mm
		Package weight	4.8 kg
		<b>Packaging content</b>	
		Display included *	✗
		Mouse included	✓
		Mouse connectivity	Wired
		Keyboard included	✓
		Keyboard connectivity	Wired
		<b>Logistics data</b>	
		Harmonized System (HS) code	8471500000
		<b>Other features</b>	
		Keyboard type	USB



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