



# HP Z2 Mini G9 Intel® Core™ i7 i7-14700 16 GB DDR5-SDRAM 512 GB SSD NVIDIA T1000 Windows 11 Pro Mini PC Workstation AI Workstation Black



**Brand :** HP

**Product family:** Z2

**Product code:** 996W9ET

**Product name :** Z2 Mini G9

- Intel Core™ i7-14700 (up to 5.4 GHz with Intel Turbo Boost Technology, 33 MB L3 cache, 20 cores, 28 threads)
  - Windows 11 Pro
  - NVIDIA T1000 (8 GB GDDR6 dedicated)
  - 16 GB DDR5-5600 MT/s (1 x 16 GB), 512 GB HP Z Turbo Drive PCIe NVMe™ TLC M.2 SSD
- Z2 Mini G9 Workstation, Windows 11 Pro, Intel Core™ i7, 16GB RAM, 512GB SSD, T1000, AI Workstation

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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		Ports & interfaces	
Processor manufacturer *	Intel	Microphone in	✓
Processor family *	Intel® Core™ i7	<b>Expansion slots</b>	
Processor generation	Intel® Core™ i7 (14th gen)	PCI Express x4 (Gen 4.x) slots	2
Processor model *	i7-14700	PCI Express x8 (Gen 4.x) slots	1
Processor cores	20	<b>Power</b>	
Processor threads	28	Power supply *	280 W
Processor boost frequency	5.4 GHz	Power supply input voltage	100 - 240 V
Performance cores	8	Power supply input frequency	50/60 Hz
Efficient cores	12	<b>Design</b>	
Performance-core Max Turbo Frequency	5.5 GHz	Chassis type *	Mini PC
Efficient-core Max Turbo Frequency	4.3 GHz	Product colour *	Black
Performance-core base frequency	3.4 GHz	Intel® vPro™ Platform Eligibility	✗
Efficient-core base frequency	2.5 GHz	Introduction year	2024
Processor cache	33 MB	Country of origin	China
Processor cache type	L3	<b>Software</b>	
Processor base power	125 W	Operating system installed *	Windows 11 Pro
Maximum turbo power	253 W	HP PC Hardware Diagnostics UEFI; HP Support Assistant; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Desktop Support Utilities; HP Image Assistant; HP Manageability Integration Kit; HP Notifications; Performance Advisor 3.0; HP Data Science Stack; myHP	
<b>Memory</b>		Pre-installed software	
Internal memory *	16 GB	Bundled software	HP Wolf Pro Security Edition (1 year)
Maximum internal memory *	16 GB	<b>Processor special features</b>	
Internal memory type	DDR5-SDRAM	Intel® Turbo Boost Technology	✓
Memory layout (slots x size)	1 x 16 GB	<b>Display</b>	
Memory slots	2x SO-DIMM	Display included *	✗
Memory clock speed	5600 MHz	<b>Brand-specific features</b>	
Memory module type	DIMM	HP Support Assistant	✓
ECC	✗		
Non-ECC	✓		
<b>Storage</b>			
Total storage capacity *	512 GB		
Storage media *	SSD		
Optical drive type *	✗		
Number of storage drives installed	1		
Total SSDs capacity	512 GB		

<b>Storage</b>		<b>Brand-specific features</b>	
Number of SSDs installed	1	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 Tamper Lock; HP Sure Sense Gen2; HP Sure Run Gen5
SSD capacity	512 GB		
SSD memory type	TLC		
SSD interface	PCI Express		
NVMe	✓		
SSD form factor	M.2	HP Management tools	HP BIOS Configuration Utility (download)
<b>Graphics</b>		HP Software provided	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 graphics card *	✓		
Discrete GPU manufacturer	NVIDIA		
On-board graphics card *	✓		
Discrete graphics card model *	NVIDIA T1000		
Discrete graphics card memory	8 GB	HP Artificial Intelligence	AI Workstation
Discrete graphics memory type	GDDR6	HP GTIN (EAN/UPC)	198122971046
Number of discrete graphics cards	1	HP segment	Business
On-board GPU manufacturer	Intel	<b>Audio</b>	
On-board graphics card family	Intel® UHD Graphics	Audio chip	Realtek ALC3205-VA2-CG
On-board graphics card model *	Intel UHD Graphics 770	Number of speakers	1
<b>Performance</b>		<b>Weight &amp; dimensions</b>	
Market positioning	Performance	Width *	211 mm
Password protection	✓	Depth *	218 mm
Password protection type	BIOS, Power on	Height *	211 mm
Product type *	Workstation	Weight *	2.4 kg
Built-in speaker(s)	✓	<b>Packaging data</b>	
<b>Network</b>		Package width	499 mm
Ethernet LAN *	✓	Package depth	170 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Package height	298 mm
Cabling technology	10/100/1000Base-T(X)	Package weight	4.8 kg
Wi-Fi *	✓	<b>Packaging content</b>	
Top Wi-Fi standard	Wi-Fi 7 (802.11be)	Mouse included	✓
Wi-Fi standards	Wi-Fi 7 (802.11be)	Mouse connectivity	Wired
WLAN controller manufacturer	Intel	Keyboard included	✓
WLAN controller model	Intel Wi-Fi 7 BE200	Numeric keypad	✗
Antenna type	2x2	Input device model	HP Wired 320M Mouse
Bluetooth	✓	<b>Sustainability</b>	
Bluetooth version	5.4	Sustainability compliance	✓
<b>Ports &amp; interfaces</b>		Sustainability certificates	ENERGY STAR, TCO
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4	Sustainable technologies and materials	80 Plus Gold power supplies available; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 55% post-consumer recycled plastic; 15% ITE-derived closed loop plastic; Ocean-bound plastic in speaker enclosure and system fan; Low halogen PCAs; Product Carbon Footprint
USB 3.2 Gen 2x2 Type-C ports quantity	2		
DisplayPorts quantity	2		
DisplayPort version	1.4		
Ethernet LAN (RJ-45) ports	1		
Combo headphone/mic port	✓	<b>Logistics data</b>	
		Harmonized System (HS) code	8471500000
		<b>Supplier features</b>	
Manufacturer warranty	3 year (3/3/3) limited warranty includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.		
Support service included	HP 1 Year Wolf Pro Security Edition Service. For terms and conditions, please visit <a href="https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA8-1150EEE&amp;https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf">https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA8-1150EEE &amp; https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf</a>		
		<b>Carbon footprint</b>	
		Total carbon footprint (kg of CO2e)	270

### Carbon footprint

Carbon emissions, manufacturing (kg of CO2e)	197
Carbon emissions, logistics (kg of CO2e)	2
Carbon emissions, end-of-life (kg of CO2e)	1
Total carbon emissions, w/o use phase (kg of CO2e)	68

### Keyboard

Keyboard connectivity	Wired
Keyboard type	USB

### Technical details

General Product Safety Regulation (GPSR) URL	<a href="https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true">https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true</a> <a href="https://h10032.www1.hp.com/ctg/Manual/c08200880.pdf">https://h10032.www1.hp.com/ctg/Manual/c08200880.pdf</a>
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### Other features

UNSPSC-code	43211515
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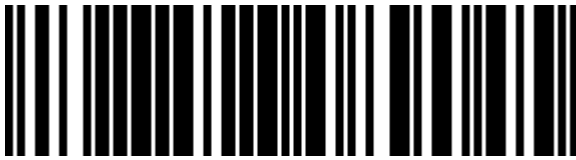
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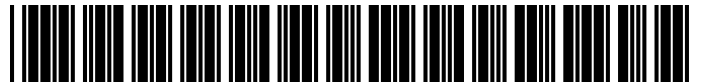
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