



# HP Z2 Mini G1i Intel Core Ultra 9 285K 64 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 2000 Ada Windows 11 Pro Mini PC Workstation AI Workstation, AI PC Black



**Brand :** HP

**Product family:** Z2

**Product code:** B76QRET

**Product name :** Z2 Mini G1i

- Intel Core™ Ultra 9 285K (up to 5.7 GHz with Intel Turbo Boost Technology, 36 MB L3 cache, 24 cores, 24 threads)
- Windows 11 Pro
- NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated)
- 64 GB DDR5-6400 MT/s (2 x 32 GB), 1 TB HP Z Turbo Drive PCIe Gen4 TLC M.2 SSD
- Z2 Mini G1i Workstation Desktop PC, Windows 11 Pro, Intel Core™ Ultra 9, 64GB RAM, 1TB SSD, RTX™ 2000 Ada, Black, AI Workstation; AI PC

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## Powers large workflows. Fits a tiny space.

Get incredible high performance packed into an insanely petite Z2 Mini G1i AI workstation to tackle 3D design, real-time rendering, and basic model development. Fitting on a desk or behind a monitor, conveniently access ports. When your demands change, you have impressive expandability to upgrade.

Processor		Network	
Processor manufacturer *	Intel	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor family *	Intel Core Ultra 9	Cabling technology	10/100/1000Base-T(X)
Processor generation	Intel Core Ultra (Series 2)	Wi-Fi *	✓
Processor model *	285K	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Processor cores	24	Wi-Fi standards	Wi-Fi 7 (802.11be)
Processor threads	24	WLAN controller manufacturer	Intel
Processor boost frequency	5.7 GHz	WLAN controller model	Intel Wi-Fi 7 BE200
Performance cores	8	Antenna type	2x2
Efficient cores	16	Bluetooth	✓
Performance-core Max Turbo Frequency	5.5 GHz	Bluetooth version	5.4
Efficient-core Max Turbo Frequency	4.6 GHz	Ports & interfaces	
Performance-core base frequency	3.7 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4
Efficient-core base frequency	3.2 GHz	USB 3.2 Gen 2x2 Type-C ports quantity	2
Processor cache	36 MB	DisplayPorts quantity	2
Processor cache type	L3	DisplayPort version	1.4
Processor base power	125 W	Ethernet LAN (RJ-45) ports	1
Maximum turbo power	250 W	Microphone in	✓
Neural processor unit (NPU)		Power	
Neural processor unit (NPU)	Intel AI Boost	Power supply *	280 W
Sparsity support	✓	Power supply input voltage	100 - 240 V
Windows Studio effects support	✓	Power supply input frequency	50 - 60 Hz
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Design	
Total processor performance up to	36 TOPs	Chassis type *	Mini PC
NPU performance up to	13 TOPs	Colour name	Black
GPU performance up to	8 TOPs	Product colour *	Black
Memory		Intel® vPro™ Platform Eligibility	✗
Internal memory *	64 GB	Introduction year	2025
Maximum internal memory *	64 GB	Country of origin	China
Internal memory type	DDR5-SDRAM		

<b>Memory</b>		<b>Software</b>	
Memory layout (slots x size)	2 x 32 GB	Operating system installed *	Windows 11 Pro
Memory slots	2x SO-DIMM	<b>Processor special features</b>	
Memory clock speed	6400 MHz	Intel® Turbo Boost Technology	✓
Memory module type	SODIMM	<b>Display</b>	
<b>Storage</b>		Display included *	✗
Total storage capacity *	1 TB	<b>Brand-specific features</b>	
Storage media *	SSD	HP Artificial Intelligence	AI Workstation, AI PC
Optical drive type *	✗	HP GTIN (EAN/UPC)	199485051796
Number of storage drives installed	1	HP segment	Business
Total SSDs capacity	1 TB	<b>Audio</b>	
Number of SSDs installed	1	Audio chip	Realtek ALC3205
SSD capacity	1 TB	<b>Weight &amp; dimensions</b>	
SSD memory type	TLC	Width *	211 mm
SSD interface	PCI Express 4.0	Depth *	218 mm
NVMe	✓	Height *	211 mm
SSD form factor	M.2	Weight *	2.4 kg
<b>Graphics</b>		<b>Packaging data</b>	
Discrete graphics card *	✓	Package width	499 mm
Discrete GPU manufacturer	NVIDIA	Package depth	169 mm
On-board graphics card *	✓	Package height	297 mm
Discrete graphics card model *	NVIDIA RTX 2000 Ada	Package weight	5.4 kg
Discrete graphics card memory	16 GB	<b>Packaging content</b>	
Discrete graphics memory type	GDDR6	Keyboard included	✓
Number of discrete graphics cards	1	Numeric keypad	✗
On-board GPU manufacturer	Intel	Input device model	HP Wired 320M Mouse
On-board graphics card family	Intel® Graphics	<b>Sustainability</b>	
On-board graphics card model *	Intel® Graphics	Sustainability compliance	✓
<b>Performance</b>		Sustainability certificates	ENERGY STAR, TCO, TCO10
Market positioning	Performance	Sustainable technologies and materials	
Motherboard chipset	Intel W880		
Password protection	✓		
Password protection type	BIOS, Power on		
Product type *	Workstation	Low halogen; Bulk packaging available; 10% ITE-derived closed loop plastic; 25% ocean-bound plastic in system fans; Product Carbon Footprint; Contains at least 65% post-consumer recycled plastic; System has a QR code enabled experience where the user has access to a product portal - beginning December 2025, this is complete with product feature highlights, sustainability information, getting started guides, and direct setup and support options; New Energy Consumption dashboard available to customers providing timely carbon usage including recommended actions users can take to decrease carbon footprint	
<b>Network</b>		<b>Logistics data</b>	
Ethernet LAN *	✓	Harmonized System (HS) code	8471500000
		<b>Supplier features</b>	
		Manufacturer warranty	1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.
		Support service included	HP 3y Onsite Low End Workstation HW Supp. For terms and conditions, please visit <a href="https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA5-6385EEE">https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA5-6385EEE</a> & <a href="https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf">https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf</a>
		<b>Keyboard</b>	
		Keyboard connectivity	Wired
		<b>Other features</b>	
		UNSPSC-code	43211515



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