



# HP Z2 G9 Intel® Core™ i7 i7-13700 16 GB DDR5-SDRAM 512 GB SSD NVIDIA T400 Windows 11 Pro SFF Workstation Black



Brand : HP

Product code: 5F178EA

Product name : Z2 G9

- Intel® Core™ i7-13700 (up to 5.2 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 24 threads)
  - Windows 11 Pro
  - NVIDIA® T400 (4 GB GDDR6 dedicated)
  - 16 GB memory; 512 GB SSD storage
- Z2 Small Form Factor G9 Workstation, Windows 11 Pro, Intel® Core™ i7, 16GB RAM, 512GB SSD, T400

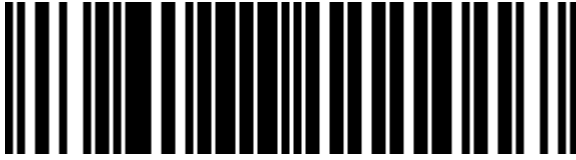
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Full size Z tower power at half the size

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 2x2 Type-C ports quantity	1
Processor family *	Intel® Core™ i7	USB Power Delivery	✓
Processor generation	13th gen Intel® Core™ i7	USB Type-C DisplayPort Alternate Mode	✓
Processor model *	i7-13700	DisplayPorts quantity	2
Processor cores	16	DisplayPort version	1.4
Processor threads	24	Ethernet LAN (RJ-45) ports	1
Processor boost frequency	5.2 GHz	Line-out	✓
Performance-core Max Turbo Frequency	5.1 GHz	Line-in	✓
Efficient-core Max Turbo Frequency	4.1 GHz	<b>Expansion slots</b>	
Performance-core base frequency	2.1 GHz	PCI Express x1 (Gen 3.x) slots	1
Efficient-core base frequency	1.5 GHz	PCI Express x4 (Gen 3.x) slots	2
Processor cache	30 MB	PCI Express x16 (Gen 4.x) slots	3
Processor cache type	L3	<b>Design</b>	
Bus type	DMI4	Chassis type *	SFF
<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	<b>Performance</b>	
Memory layout (slots x size)	1 x 16 GB	Market positioning	Performance
Memory clock speed	4800 MHz	Audio chip	Realtek ALC3252
ECC	✗	Built-in speaker(s)	✓
Non-ECC	✓	Number of speakers	1
<b>Storage</b>		Password protection	✓
Total storage capacity *	512 GB	Password protection type	BIOS, Power on, User
Storage media *	SSD	Product type *	Workstation
Optical drive type *	✗	<b>Software</b>	
Number of storage drives installed	1	Operating system installed *	Windows 11 Pro
Total SSDs capacity	512 GB	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	
Number of SSDs installed	1	Pre-installed software	
SSD capacity	512 GB		
SSD interface	PCI Express		
NVMe	✓		
SSD form factor	M.2		
<b>Graphics</b>			
Discrete graphics card *	✓		

<b>Graphics</b>		<b>Processor special features</b>	
Discrete GPU manufacturer	NVIDIA	CPU configuration (max)	1
On-board graphics card *	✓	<b>Brand-specific features</b>	
Discrete graphics card model *	NVIDIA T400	HP Support Assistant	✓
Discrete graphics card memory	4 GB		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 memory type	GDDR6	HP Security 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)
Number of discrete graphics cards	1		HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit
On-board GPU manufacturer	Intel	HP Management tools	HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit
On-board graphics card family	Intel® UHD Graphics	HP Software provided	196786625336
On-board graphics card model *	Intel® UHD Graphics	HP GTIN (EAN/UPC)	Business
		HP segment	
<b>Network</b>		<b>Power</b>	
Ethernet LAN *	✓	Power supply *	450 W
Wi-Fi *	✗	<b>Sustainability</b>	
<b>Ports &amp; interfaces</b>		Sustainable technologies and materials	Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metal
USB 2.0 ports quantity *	3	<b>Weight &amp; dimensions</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Width *	384 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6	Depth *	308 mm
		Height *	100 mm
		Weight *	5.9 kg
		Package width	100 mm
		Package depth	384 mm
		Package height	308 mm
		Package weight	5 kg
		<b>Packaging content</b>	
		Display included *	✗
		Mouse included	✓
		Keyboard included	✓
		<b>Logistics data</b>	
		Harmonized System (HS) code	8471500000
		<b>Other features</b>	
		Keyboard type	USB



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