



HP Z1 G9 Intel® Core™ i7 i7-13700 16 GB DDR5-SDRAM 512 GB SSD Windows 11 Pro Tower Workstation Black

Brand : HP

Product code: 86C03EA

Product name : Z1 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
- Intel® UHD Graphics 770
- 16 GB memory; 512 GB SSD storage
- Z1 G9 Tower Desktop PC, Windows 11 Pro, Intel® Core™ i7, 16GB RAM, 512GB SSD

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Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Processor family *	Intel® Core™ i7	USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor generation	13th gen Intel® Core™ i7	HDMI ports quantity *	1
Processor model *	i7-13700	HDMI version	1.4
Processor cores	16	DisplayPorts quantity	2
Processor threads	24	DisplayPort version	1.4
Processor boost frequency	5.2 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	8	Line-out	✓
Efficient cores	8	Expansion slots	
Performance-core Max Turbo Frequency	5.1 GHz	PCI Express x1 (Gen 3.x) slots	2
Efficient-core Max Turbo Frequency	4.1 GHz	PCI Express x16 (Gen 3.x) slots	1
Performance-core base frequency	2.1 GHz	PCI Express x16 (Gen 4.x) slots	1
Efficient-core base frequency	1.5 GHz	Design	
Processor cache	30 MB	Chassis type *	Tower
Processor cache type	L3	Placement supported	Vertical
Bus type	DMI4	Product colour *	Black
Processor base power	65 W	Introduction year	2023
Maximum turbo power	219 W	Performance	
Memory		Market positioning	Performance
Internal memory *	16 GB	Audio chip	Realtek ALC3205
Maximum internal memory *	128 GB	Built-in speaker(s)	✓
Internal memory type	DDR5-SDRAM		
Memory layout (slots x size)	1 x 16 GB		

Memory		Performance			
Memory slots	4x DIMM	Password protection	✓		
Memory clock speed	4800 MHz	Password protection type	BIOS, Power on, User		
Storage		Trusted Platform Module (TPM)	✓		
Total storage capacity *	512 GB	Trusted Platform Module (TPM) version	2.0		
Storage media *	SSD	Product type *	Workstation		
Optical drive type *	✗	Software			
Number of storage drives installed	1	Operating system installed *	Windows 11 Pro		
Total SSDs capacity	512 GB	Pre-installed software	HP Jumpstart; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); HP Privacy Settings; HP Desktop Support Utilities; HP Setup Integrated OOB		
Number of SSDs installed	1				
SSD capacity	512 GB				
SSD interface	PCI Express				
SSD form factor	M.2	Processor special features			
Graphics		CPU configuration (max)	1		
Discrete graphics card *	✗	Brand-specific features			
On-board graphics card *	✓	HP JumpStart	✓		
Discrete graphics card model *	Not available	HP Support Assistant	✓		
On-board GPU manufacturer	Intel	HP Security tools	HP Power On Authentication; Power-on password (via BIOS); SATA port disablement (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; USB enable/disable (via BIOS); Serial enable/disable (via BIOS); HP Sure Click; Windows Defender; HP Sure Sense; HP Client Security Manager Gen7; HP Sure Start Gen7; HP Sure Run Gen4; HP Sure Recover Gen4; HP Tamper Lock; TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)		
On-board graphics card family	Intel® UHD Graphics				
On-board graphics card model *	Intel UHD Graphics 770				
Network				HP Management tools	HP Client Catalog (download); HP Cloud Recovery; HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Image Assistant (download); Ivanti Management Suite (download); HP Client Management Script Library (download)
Ethernet LAN *	✓				
Ethernet LAN data rates	10,1000,100 Mbit/s				
Wi-Fi *	✓				
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)				
Wi-Fi standards	Wi-Fi 6E (802.11ax)				
WLAN controller manufacturer	Intel				
WLAN controller model	Intel Wi-Fi 6E AX211				
Antenna type	2x2				
Bluetooth	✓				
Bluetooth version	5.2	Power			
Ports & interfaces		HP GTIN (EAN/UPC)	197498289359		
USB 2.0 ports quantity *	3	HP segment	Business		
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	7	Weight & dimensions			
		Width *	337 mm		
		Depth *	308 mm		
		Height *	155 mm		
		Weight *	5.7 kg		
		Package width	287 mm		
		Package depth	400 mm		
		Package height	499 mm		
		Package weight	9.24 kg		
		Packaging content			
		Display included *	✗		
		Mouse included	✓		
		Keyboard included	✓		

Logistics data

Harmonized System (HS) code	8471500000
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Other features

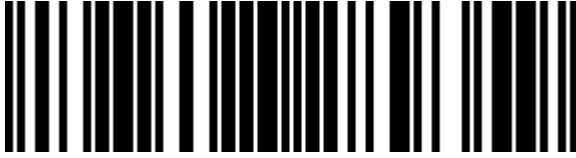
Keyboard type	USB
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