HP

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

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

The most affordable pro-certified Z desktop
Pro-grade performance is now within reach with a desktop built for designing, editing and even gaming. From 2D and 3D CAD to entry VR content creation, gain speed and efficiency across your workflows. Go beyond a commercial PC with a desktop certified for select professional software applications.

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13700
Processor cores	16
Processor threads	24
Processor boost frequency	5.2 GHz
Performance cores	8
Efficient cores	8
Performance-core Max Turbo Frequency	5.1 GHz
Efficient-core Max Turbo Frequency	4.1 GHz
Performance-core base frequency	2.1 GHz
Efficient-core base frequency	1.5 GHz
Processor cache	30 MB
Processor cache type	L3
Bus type	DMI4
Processor base power	65 W
Maximum turbo power	219 W

Memory

Internal memory *	16 GB
Maximum internal memory *	128 GB
Internal memory type	DDR5-SDRAM
Memory layout (slots x size)	1 x 16 GB

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
USB 3.2 Gen 2x2 Type-C ports quantity	1
HDMI ports quantity *	1
HDMI version	1.4
DisplayPorts quantity	2
DisplayPort version	1.4
Ethernet LAN (RJ-45) ports	1
Line-out	✔

Expansion slots

PCI Express x1 (Gen 3.x) slots	2
PCI Express x16 (Gen 3.x) slots	1
PCI Express x16 (Gen 4.x) slots	1

Design

Chassis type *	Tower
Placement supported	Vertical
Product colour *	Black
Introduction year	2023

Performance

Market positioning	Performance
Audio chip	Realtek ALC3205
Built-in speaker(s)	✔

Memory

Memory slots	4x DIMM
Memory clock speed	4800 MHz

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Optical drive type *	✖
Number of storage drives installed	1
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express
NVMe	✔
SSD form factor	M.2

Graphics

Discrete graphics card *	✖
On-board graphics card *	✔
Discrete graphics card model *	Not available
On-board GPU manufacturer	Intel
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel UHD Graphics 770

Network

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

Ports & interfaces

USB 2.0 ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	7

Performance

Password protection	✔
Password protection type	BIOS, Power on, User
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Product type *	Workstation

Software

Operating system installed *	Windows 11 Pro
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 OOBE

Processor special features

CPU configuration (max)	1

Brand-specific features

HP JumpStart	✔
HP Support Assistant	✔
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)
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)
HP GTIN (EAN/UPC)	197498289359
HP segment	Business

Power

Power supply input voltage	100 - 240 V
Power supply input frequency	50 - 60 Hz

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
Other features	
Keyboard type	USB

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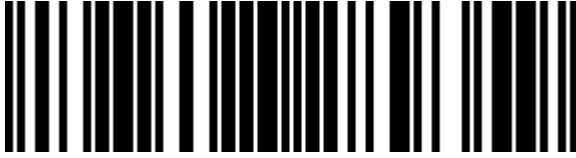
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