HP

HP Z2 G9 Intel® Core™ i9 i9-13900K 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX A4000 Windows 11 Pro Tower Workstation Black

Brand : HP
Product name : Z2 G9

Product code: 5F174EA

- Intel® Core™ i9-13900K (up to 5.8 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)
- Windows 11 Pro
- NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated)
- 32 GB memory; 1 TB SSD storage
Z2 Tower G9 Workstation, Windows 11 Pro, Intel® Core™ i9, 32GB RAM, 1TB SSD, NVIDIA® RTX™ A4000

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Pro-power. Today and tomorrow
Experience a whole new level of performance for your professional workflow. The Z2 Tower is engineered to seamlessly run multi-threaded apps for fast rendering, simulation, and now real-time ray tracing. And when your demands change, you have impressive expandability to upgrade.
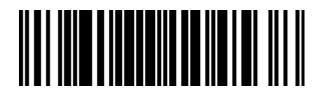
Processor		Ports & interfaces	
Processor manufacturer *	Intel	Combo headphone/mic port	✔
Processor family *	Intel® Core™ i9	**Expansion slots**	
Processor generation	13th gen Intel® Core™ i9	PCI Express x1 (Gen 3.x) slots	2
Processor model *	i9-13900K	PCI Express x4 (Gen 3.x) slots	2
Processor cores	24	PCI Express x16 (Gen 5.x) slots	1
Processor threads	32	**Design**	
Processor boost frequency	5.8 GHz	Chassis type *	Tower
Performance cores	8	Number of 3.5" bays	2
Efficient cores	16	Number of 5.25" bays	1
Performance-core base frequency	3 GHz	Number of 2.5" bays	1
Efficient-core base frequency	2.2 GHz	Product colour *	Black
Performance-core boost frequency	5.4 GHz	**Performance**	
Efficient-core boost frequency	4.3 GHz	Market positioning	Performance
Processor cache	36 MB	Audio chip	Realtek ALC3205-VA2-CG
Processor cache type	L3	Built-in speaker(s)	✔
Bus type	DMI4	Number of speakers	1
Memory		Password protection	✔
Internal memory *	32 GB	Password protection type	BIOS, Power on, User
Maximum internal memory *	128 GB	Product type *	Workstation
Internal memory type	DDR5-SDRAM	**Software**	
Memory layout (slots x size)	2 x 16 GB	Operating system installed *	Windows 11 Pro
Memory slots	4x DIMM		
Memory clock speed	4800 MHz		
ECC	✘		

Memory

Non-ECC	✔

Storage

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

Graphics

Discrete graphics card *	✔
Discrete GPU manufacturer	NVIDIA
On-board graphics card *	✔
Discrete graphics card model *	NVIDIA RTX A4000
Discrete graphics card memory	16 GB
Discrete graphics memory type	GDDR6
Number of discrete graphics cards	1
On-board GPU manufacturer	Intel
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics

Network

Ethernet LAN *	✔
Wi-Fi *	✖

Ports & interfaces

USB 2.0 ports quantity *	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6
DisplayPorts quantity	2
DisplayPort version	1.4
Ethernet LAN (RJ-45) ports	1
Line-out	✔
Line-in	✔

Software

Pre-installed software	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

Processor special features

Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✖
Intel VT-x with Extended Page Tables (EPT)	✔
Idle States	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel Flex Memory Access	✔
CPU configuration (max)	1
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔

Brand-specific features

HP Support Assistant	✔
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 Sure Sense Gen2; HP Sure Run Gen5
HP Management 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)
HP Software provided	HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit
HP GTIN (EAN/UPC)	197498079905
HP segment	Business

Power

Power supply *	700 W

Sustainability

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

Weight & dimensions

Width *	356 mm
Depth *	169 mm
Height *	385 mm
Weight *	7.2 kg
Package width	518 mm
Package depth	295 mm

Weight & dimensions	
Package height	490 mm
Packaging content	
Display included *	✘
Mouse included	✔
Keyboard included	✔
Keyboard connectivity	Wired
Logistics data	
Harmonized System (HS) code	8471500000

✘

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