

HP Workstation Z2 G9
HP Workstation Z2 G9 - Wolf Pro Security - tower - 4U - 1 x Core i7 13700 / 2.1 GHz - RAM 16 GB
- SSD 512 GB - HP Z Turbo Drive, NVMe, TLC - UHD Graphics 770 - Win 11 Pro - monitor:none -
keyboard:Belgium - black - with HP Wolf Pro Security Edition (1 year)



Experience a new level of performance for your professional workflow. The Z2 Tower seamlessly runs multi-threaded apps for fast rendering, simulation, and real-time ray tracing. And when demands change, you have impressive expandability to upgrade.

Key Selling Points

- Your benchmark for entry workstation power
- Rely on your workstation
- Work, play, and create in VR
- Phase change cooling
- Fans and venting
- Unthrottled performance
- High performance mode
- Better for people, better for the planet

Product Features

- Your benchmark for entry workstation power**
Unleash the power of pro graphics and Intel Core processors. Designed for zero throttling so you can render and real-time ray trace without lags.
- Rely on your workstation**
Work with confidence knowing your desktop has undergone very long hours of rigorous testing, military-standard testing, is certified for industry-leading software, and is built to run your heaviest workloads 24/7.
- Work, play, and create in VR**
Elevate your workflow with a VR-ready desktop. Develop lifelike content with professional graphics and processor performance, and transform how you design, train, and collaborate. And when paired with the HP Reverb G2 VR headset, you get stunning immersion with full-resolution rendering.
- Phase change cooling**
Phase change CPU cooling optimizes heat transfer, enabling better performance and greater reliability than traditional liquid cooling solutions.
- Fans and venting**
Sensors and proprietary algorithms detect when your system is about to heat up, activating the fans to prevent overheating during your toughest projects.
- Unthrottled performance**
Z's thermal technology keeps the processor and graphics card consistently cool, so they can run at max performance without throttling.
- High performance mode**
Custom modes let you optimize your system according to your needs, whether you want to ensure peak performance for heavy workloads or reduce fan noise for a quieter work environment.
- Better for people, better for the planet**
Here's why their TCO Certified, ENERGY STAR awarded and EPEAT assessed Z by HP portfolio helps protect the shared future.

Main Specifications

Product Description	HP Workstation Z2 G9 - Wolf Pro Security - tower - Core i7 13700 2.1 GHz - 16 GB - SSD 512 GB - Belgium - with HP Wolf Pro Security Edition (1 year)
Type	Workstation - tower
Height (Rack Units)	4U
Localisation	Language: French, Dutch / region: Belgium
Processor	1 x Intel Core i7 (13th Gen) 13700 / 2.1 GHz (, up to 5.2 GHz, (16-core)
Processor Socket	LGA1700 Socket
Processor Main Features	Intel Turbo Boost Technology

Cache Memory	30 MB L3 Cache
Cache Per Processor	30 MB
RAM	16 GB (installed) / 128 GB (max) - DDR5 SDRAM - non-ECC
Storage Controller	SATA (SATA 6Gb/s)
Hard Drive	SSD 512 GB - PCI Express 4.0 - M.2 2280 - HP Z Turbo Drive, NVM Express (NVMe), triple-level cell (TLC)
Optical Storage	No optical drive
Card Reader	Yes
Graphics Controller	Intel UHD Graphics 770
Networking	1GbE
Keyboard	Belgium
Power	(50/60 Hz)
OS Provided	Windows 11 Pro
Software Included	HP Support Assistant, HP PC Hardware Diagnostics UEFI, HP Secure Erase, HP BIOS Configuration Utility (free download), HP Driver Packs, HP Image Assistant, HP PC Hardware Diagnostics, HP System Software Manager (free download), HP Sure Click, HP Manageability Integration Kit, HP Sure Admin, HP Client Security Manager Gen6, HP BIOSphere Gen6, HP ZCentral Remote Boost, HP Sure Recover Gen4, HP SureStart Gen7, HP Management Integration Kit for Microsoft System Center Configuration Manager Gen 4, HP Performance Advisor 3.0, HP Sure Sense Gen2, HP Sure Run Gen5
Colour	Black
Dimensions (WxDxH)	16.9 cm x 38.5 cm x 35.6 cm
Weight	7.2 kg
Bundled with	HP Wolf Pro Security Edition (1 year)

Extended Specification

General

Type	Workstation
Product Form Factor	Tower - 4U
Built-in Devices	Speaker
Sensors	HP Tamper Lock
Embedded Security	Trusted Platform Module (TPM 2.0) Security Chip
Colour	Black
Localisation	Language:French, Dutch / region:Belgium
Bundled with	HP Wolf Pro Security Edition (1 year)

Processor / Chipset

CPU	Intel Core i7 (13th Gen) 13700
Clock Speed	2.1 GHz (P-core) / 1.5 GHz (E-core)
Max Turbo Speed	5.2 GHz (P-core) / 4.1 GHz (E-core)
Number of Cores	16-core
CPU Qty	1
Max CPU Qty	1
L2 cache	24 MB
CPU Upgradability	Upgradable
Processor Main Features	Intel Turbo Boost Technology

CPU Socket	LGA1700 Socket
Chipset Type	Intel W680

Cache Memory

Installed Size	L3 Cache - 30 MB
Cache Per Processor	30 MB

RAM

Installed Size	16 GB / 128 GB (max)
Technology	DDR5 SDRAM - non-ECC
Effective Memory Speed	4800 MHz
Rated Memory Speed	4800 MHz
Form Factor	DIMM 288-pin
Slots	4 (Total) / 3 (empty)
Features	Dual channel memory architecture
Configuration Features	1 x 16 GB

Hard Drive

Type	SSD - M.2 2280
Capacity	1 x 512 GB
Interface Type	PCI Express 4.0
Features	HP Z Turbo Drive, NVM Express (NVMe), triple-level cell (TLC)

Storage Controller

Type	1 x SATA
Controller Interface Type	SATA 6Gb/s
Channel Qty	4
RAID Level	RAID 0, RAID 1

Optical Storage

Type	No optical drive
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Card Reader

Type	Card reader
Supported Flash Memory Cards	SD Memory Card

Monitor

Monitor Type	None.
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Graphics Controller

Graphics Processor	Intel UHD Graphics 770
Video Interfaces	DisplayPort

Audio Output

Compliant Standards	High Definition Audio
Speakers Included	1 x mixed channel

Input Device

Type	Mouse, keyboard
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Keyboard

Keyboard Name	HP 320K
Localization & Layout	Belgium

Mouse

Mouse Name	HP 320M
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Networking

Ethernet Controller	Intel I219-LM
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Features	Wake on LAN (WoL), ACPI support, auto-uplink (auto MDI/MDI-X), PXE 2.1 support, Intel Active Management Technology (AMT) 15
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3i, IEEE 802.3z, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.1as, IEEE 802.3az

Expansion / Connectivity

Bays	1 (total) / 1 (free) x external 5.25" 1 (total) / 1 (free) x external 5.25" Slim Line 2 (total) / 2 (free) x internal 3.5" 1 (total) / 1 (free) x internal 2.5"
Slots	1 (total) / 1 (free) x PCIe 5.0 x16 1 (total) / 1 (free) x PCIe 3.0 x4 (x1 mode) 1 (total) / 1 (free) x PCIe 3.0 x16 (x4 mode) 1 (total) / 1 (free) x PCIe 3.0 x4 3 (total) / 2 (free) x M.2 Card - 2280 (PCIe 4.0 x4 mode) 1 (total) / 1 (free) x M.2 Card - 2230 (PCIe 3.0 x1 mode and Intel CNVi wireless module)
Interfaces	1 x headphones/microphone (1 in front) (CTIA and OMTP headset support) 6 x USB 3.2 Gen 2 (4 front, 2 rear) (one of them is charging) 1 x audio line-in 1 x audio line-out 2 x DisplayPort 1.4 1 x LAN (Gigabit Ethernet) 1 x USB 3.2 Gen 1

Miscellaneous

Theft/Intrusion Protection	Security lock slot (cable lock sold separately), padlock loop, chassis intrusion sensor
Security Slot Type	Kensington security slot
Compliant Standards	RoHS, FIPS 140-2, WEEE, Energy-Related Products (ErP) Lot 6, CECP, SEPA, low halogen

Power

Device Type	Power supply
Voltage Required	AC 90-269 V (50/60 Hz)
Power Provided	700 Watt
Efficiency	92%
Power Factor Correction	Yes (active)

Operating System / Software

OS Provided	Windows 11 Pro Dutch / English / French / German
Software	HP Support Assistant, HP PC Hardware Diagnostics UEFI, HP Secure Erase, HP BIOS Configuration Utility (free download), HP Driver Packs, HP Image Assistant, HP PC Hardware Diagnostics, HP System Software Manager (free download), HP Sure Click, HP Manageability Integration Kit, HP Sure Admin, HP Client Security Manager Gen6, HP BIOSphere Gen6, HP ZCentral Remote Boost, HP Sure Recover Gen4, HP SureStart Gen7, HP Management Integration Kit for Microsoft System Center Configuration Manager Gen 4, HP Performance Advisor 3.0, HP Sure Sense Gen2, HP Sure Run Gen5

Dimensions & Weight

Width	16.9 cm
Depth	38.5 cm
Height	35.6 cm
Weight	7.2 kg

Dimensions & Weight (Shipping)

Shipping Width	29.5 cm
Shipping Depth	49 cm
Shipping Height	51.8 cm

Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	35 °C
Humidity Range Operating	10 - 85% RH (non-condensing)