HP Workstation Z2 G9(996P7ET#UUG)

HP Workstation Z2 G9 - Wolf Pro Security - tower 4U - 1 x Core i7 i7-14700K / up to 5.6 GHz - RAM 32 GB - SSD 1 TB - HP Z Turbo Drive, NVMe, TLC - UHD Graphics 770 - Gigabit Ethernet - Win 11 Pro - monitor: none - black - Smart Buy - with HP 1 year Wolf Pro Security Edition Service - 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 i7-14700K 3.4 GHz - 32 GB - SSD 1 TB - with HP Wolf Pro Security Edition (1 year)
Type	Workstation - tower
Bundled Services	HP 1 year Wolf Pro Security Edition Service
Height (Rack Units)	4U
Localisation	Language: French, Dutch / region: Belgium
Processor	1 x Intel Core i7 (14th Gen) i7-14700K / 3.4 GHz (up to 5.6 GHz, (20-core)
Processor Socket	LGA1700 Socket
Processor Main Features	Hyper-Threading Technology, Intel Turbo Boost Technology 2, Intel Smart Cache, Intel Turbo Boost Max 3.0
Cache Memory	33 MB L3 Cache
Cache Per Processor	33 MB
RAM	32 GB (installed) / 128 GB (max) - DDR5 SDRAM - non-ECC
Storage Controller	SATA/NVMe (SATA 6Gb/s / PCIe 4.0 x4 (NVMe))
Hard Drive	SSD 1 TB - PCI Express 4.0 x4 - M.2 2280 - HP Z Turbo Drive, NVM Express (NVMe), triple-level cell (TLC)
Optical Storage	No optical drive
Graphics Controller	Intel UHD Graphics 770 Unified Memory Architecture (UMA)
Networking	1GbE
OS Provided	Windows 11 Pro
Software Included	HP Support Assistant, HP PC Hardware Diagnostics UEFI, HP Driver Packs, HP Image Assistant, HP PC Hardware Diagnostics, HP ZCentral Remote Boost, HP Management Integration Kit for Microsoft System Center Configuration Manager Gen 4, HP Performance Advisor 3.0
Colour	Black
Dimensions (WxDxH)	16.9 cm x 38.5 cm x 35.6 cm
Weight	7.2 kg
Manufacturer Selling Program	HP Smart Buy
Environmental Standards	ENERGY STAR Qualified
Manufacturer Warranty	Limited warranty - parts and labour - 3 years - on-site
Bundled with	HP Wolf Pro Security Edition (1 year)

Extended Specification

General

Type	Workstation
Bundled Services	HP 1 year Wolf Pro Security Edition Service
Product Form Factor	Tower - 4U
Built-in Devices	Speaker
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)

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 - full-length, full-height ¦ 1 (total) / 1 (free) x PCIe 3.0 x4 - full-length, full-height (x1 mode, open ended) ¦ 1 (total) / 1 (free) x PCIe 3.0 x4 - full-length, full-height (open ended) ¦ 1 (total) / 1 (free) x PCIe 3.0 x16 - full-length, full-height (x4 mode) ¦ 3 (total) / 2 (free) x M.2 Card - 2280 (for SSD) ¦ 1 (total) / 1 (free) x M.2 Card - 2230 (for WLAN)
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 ¦ 3 x USB 2.0 ¦ 1 x USB 3.2 Gen 1 ¦ 1 x LAN (Gigabit Ethernet)

Manufacturer Warranty

Service & Support	Limited warranty - parts and labour - 3 years - on-site

RAM

Installed Size	32 GB (installed) / 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) / 2 (empty)
Features	Unbuffered, dual channel memory architecture
Configuration Features	2 x 16 GB

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) 16
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

Miscellaneous

Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington security slot
Compliant Standards	RoHS, FIPS 140-2, WEEE, Energy-Related Products (ErP) Lot 6, CECP, SEPA, low halogen
Manufacturer Selling Program	HP Smart Buy

Power

Device Type	Power supply
Power Provided	700 Watt
Efficiency	92%
Power Factor Correction	Yes (active)

Environmental Parameters

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

Storage Controller

Type	1 x SATA/NVMe
Controller Interface Type	SATA 6Gb/s / PCIe 4.0 x4 (NVMe)
Channel Qty	4
RAID Level	RAID 0, RAID 1

Cache Memory

Installed Size	L3 Cache - 33 MB
Cache Per Processor	33 MB

Optical Storage

Type	No optical drive

Operating System / Software

OS Provided	Windows 11 Pro Dutch / English / French / German
Software	HP Support Assistant, HP PC Hardware Diagnostics UEFI, HP Driver Packs, HP Image Assistant, HP PC Hardware Diagnostics, HP ZCentral Remote Boost, HP Management Integration Kit for Microsoft System Center Configuration Manager Gen 4, HP Performance Advisor 3.0

Monitor

Monitor Type	None.

Graphics Controller

Graphics Processor	Intel UHD Graphics 770 Unified Memory Architecture (UMA)
Video Interfaces	DisplayPort

Audio Output

Compliant Standards	High Definition Audio

Hard Drive

Type	SSD - M.2 2280
Capacity	1 x 1 TB
Interface Type	PCI Express 4.0 x4
Features	HP Z Turbo Drive, NVM Express (NVMe), triple-level cell (TLC)

Input Device

Type	Mouse

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

Mouse

Mouse Name	HP 320M

Processor / Chipset

CPU	Intel Core i7 (14th Gen) i7-14700K
Clock Speed	3.4 GHz (P-core) / 2.5 GHz (E-core)
Max Turbo Speed	5.6 GHz (P-core) / 4.3 GHz (E-core)

Number of Cores	20-core
CPU Qty	1
Max CPU Qty	1
L2 cache	28 MB
CPU Upgradability	Upgradable
Processor Main Features	Hyper-Threading Technology, Intel Turbo Boost Technology 2, Intel Smart Cache, Intel Turbo Boost Max 3.0
CPU Socket	LGA1700 Socket
Chipset Type	Intel W680

Sustainability Information

ENERGY STAR Certified	Yes