

HP Z2 Tower G1i Intel Core Ultra 7 265K, 64GB, 1TB 2280 PCIe 5x4 M.2,NVIDIA RTX 2000 Ada 16GB, No KB+Mouse,No Wi-Fi, No WWAN,W11P,5Y(A40MVET#UUZ)

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The HP Workstation Z2 G1i is engineered for high-performance computing for demanding tasks. Equipped with an Intel Core Ultra 7 processor, this workstation has a 20-core configuration and Intel Turbo Boost Technology for efficiency, reaching speeds of 4.6 GHz. With 30 MB of L3 cache and support for DDR5 SDRAM, it provides a robust platform for multitasking and complex applications. The system is designed with an emphasis on security, featuring a Trusted Platform Module (TPM 2.0) security chip to safeguard sensitive data.

This workstation is equipped with advanced connectivity options, including numerous Ethernet protocols and support for high definition audio output. Its PCIe slots enable flexible expansion possibilities, while the integrated Intel Graphics deliver reliable video performance. Environmental resilience is a key aspect, with operational humidity tolerance ranging from 8 to 85% RH and temperature suitability from 5 °C to 35 °C. The HP Workstation Z2 G1i is an ideal choice for professionals seeking a capable computing solution.

Key Selling Points

- Intel Core Ultra 7 processor with 20 cores
- Upgradable RAM supporting DDR5 SDRAM technology
- Robust security with Trusted Platform Module (TPM 2.0)
- Flexible expansion options with multiple PCIe slots
- High definition audio output for multimedia experience

Product Features

Robust processing capabilities

The HP Workstation Z2 G1i features a 20-core Intel Core Ultra 7 processor, allowing for efficient multitasking and high performance in resource-intensive applications.

Enhanced security features

Equipped with a Trusted Platform Module (TPM 2.0) security chip, this workstation ensures secure data management and protection against unauthorized access.

Versatile connectivity options

Multiple data link protocols such as Gigabit Ethernet and Fast Ethernet provide robust networking capabilities, supporting efficient data transfer and connectivity.

Environmentally efficient

Designed to operate in a wide range of temperatures and humidity, the workstation functions effectively under various conditions, ensuring reliability in diverse environments.

Expandable storage options

With PCIe slots available for internal storage expansion, this workstation supports efficient storage upgrades, enhancing system performance.

Main Specifications

Product Description	HP Workstation Z2 G1i - tower Core Ultra 7 265K 3.9 GHz - 64 GB - SSD 1 TB
Type	Workstation - tower
Height (Rack Units)	4U
Localisation	Language: German, French, Italian / region: Switzerland
Processor	1 x Intel Core Ultra 7 (Series 2) 265K / 3.9 GHz (up to 5.5 GHz, (20-core)
Processor Socket	LGA1851 Socket
Processor Main Features	Intel Turbo Boost Technology
Neural Processor Unit (NPU)	Intel AI Boost - up to 13 TOPS
Cache Memory	30 MB L3 Cache

Cache Per Processor	30 MB
RAM	64 GB (installed) / 256 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 5.0 - M.2 2280 - NVM Express (NVMe)
Optical Storage	No optical drive
Multi-GPU Configuration	1 single GPU card / integrated GPU
Graphics Controller	PCIe 4.0 x8 - NVIDIA RTX 2000 Ada / Intel Graphics - up to 8 TOPS
Video Memory	16 GB GDDR6 SDRAM
Networking	1GbE
Power	(50/60 Hz)
OS Provided	Windows 11 Pro
Software Included	HP Support Assistant, myHP, WPS Office, Touchpoint Customiser for Commercial, HP UEFI BIOS Certification level 2.7B, HP PC Hardware Diagnostics Windows, HP Notifications, HP Desktop Support Utilities, HP Documentation, HP Client Catalogue (free download), HP Cloud Recovery, HP Driver Packs, HP Client Management Script Library (free download), HP System Software Manager (free download), HP BIOS Configuration Utility (free download), HP Image Assistant (free download)
Colour	Black
Dimensions (WxDxH)	17.5 cm x 42.6 cm x 38.8 cm
Weight	8.6 kg
Manufacturer Selling Program	HP Smart Buy
Environmental Standards	ENERGY STAR Qualified EPEAT Gold

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: German, French, Italian / region: Switzerland

Expansion / Connectivity

Bays	1 (total) / 1 (free) x external 3.5" 1 (total) / 1 (free) x external 5.25" Slim Line 1 (total) / 1 (free) x internal 3.5"
Slots	1 (total) / 0 (free) x PCIe 5.0 x16 - full-length, full-height 1 (total) / 1 (free) x PCIe 4.0 x4 - full-length, full-height (x1 mode, open ended) 1 (total) / 1 (free) x PCIe 4.0 x4 - full-length, full-height (open ended) 1 (total) / 1 (free) x PCIe 4.0 x16 - full-length, full-height (x4 mode) 2 (total) / 2 (free) x M.2 Card - 2280 (PCIe 4.0 x4 mode (for internal storage)) 1 (total) / 0 (free) x M.2 Card - 2280 (PCIe 5.0 x4 mode (for internal storage)) 1 (total) / 1 (free) x M.2 Card - 2230 (PCIe 4.0 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) 1 x audio line-in (1 rear) 1 x audio line-out (1 rear) 2 x DisplayPort 1.4 (2 rear) 3 x USB 2.0 - Type A (3 rear) 2 x USB-C 3.2 Gen 2x2 (2 front) (charging) 1 x LAN (Gigabit Ethernet) - RJ-45 (1 rear) 4 x Mini DisplayPort 1.4a 2 x USB-C 3.2 Gen 2

RAM

Installed Size	64 GB (installed) / 256 GB (max)
Technology	DDR5 SDRAM - non-ECC
Effective Memory Speed	5600 MT/s
Rated Memory Speed	5600 MT/s

Form Factor	DIMM 288-pin
Slots	4 (Total) / 2 (empty)
Configuration Features	2 x 32 GB

Networking

Ethernet Controller	Intel I219-LM
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Features	ACPI support, auto-uplink (auto MDI/MDI-X), PXE 2.1 support, Intel Active Management Technology (AMT) 19

Miscellaneous

Theft/Intrusion Protection	Security lock slot (cable lock sold separately), padlock loop, chassis intrusion sensor
Security Slot Type	Kensington security slot
Compliant Standards	UL, CB, CCC, FCC, RoHS, FIPS 140-2, WEEE, ICES, CEC, ERP, CECP, CEL, BIS, low halogen
Manufacturer Selling Program	HP Smart Buy

Power

Device Type	Power supply
Voltage Required	AC 100-240 V (50/60 Hz)
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	8 - 85% RH (non-condensing)

Storage Controller

Type	1 x SATA/NVMe
Controller Interface Type	SATA 6Gb/s / PCIe 4.0 x4 (NVMe)
RAID Level	RAID 0, RAID 1, RAID 5, RAID 10

Cache Memory

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

Optical Storage

Type	No optical drive
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Operating System / Software

OS Provided	Windows 11 Pro German / French / Italian / English
Software	HP Support Assistant, myHP, WPS Office, Touchpoint Customiser for Commercial, HP UEFI BIOS Certification level 2.7B, HP PC Hardware Diagnostics Windows, HP Notifications, HP Desktop Support Utilities, HP Documentation, HP Client Catalogue (free download), HP Cloud Recovery, HP Driver Packs, HP Client Management Script Library (free download), HP System Software Manager (free download), HP BIOS Configuration Utility (free download), HP Image Assistant (free download)

Monitor

Monitor Type	None.
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Graphics Controller

Interface Type	PCIe 4.0 x8
Multi-GPU Configuration	1 single GPU card / integrated GPU
Graphics Processor	NVIDIA RTX 2000 Ada / Intel Graphics - up to 8 TOPS
Video Memory	16 GB GDDR6 SDRAM
Bandwidth	224 GBps
Video Interfaces	DisplayPort

Audio Output

Compliant Standards	High Definition Audio
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Hard Drive

Type	SSD - M.2 2280
Capacity	1 x 1 TB
Interface Type	PCI Express 5.0
Features	NVM Express (NVMe)

Input Device

Type	No keyboard, no mouse
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Dimensions & Weight

Width	17.5 cm
Depth	42.6 cm
Height	38.8 cm
Weight	8.6 kg

Dimensions & Weight (Shipping)

Shipping Width	59 cm
Shipping Depth	49 cm
Shipping Height	29.5 cm
Shipping Weight	12.5 kg

Processor / Chipset

CPU	Intel Core Ultra 7 (Series 2) 265K
Clock Speed	3.9 GHz (P-core) / 3.3 GHz (E-core)
Max Turbo Speed	5.5 GHz (P-core) / 4.6 GHz (E-core)
Number of Cores	20-core
CPU Qty	1
Max CPU Qty	1
L2 cache	36 MB
CPU Upgradability	Upgradable
Processor Main Features	Intel Turbo Boost Technology
CPU Socket	LGA1851 Socket
Chipset Type	Intel W880

Sustainability Information

EPEAT Compliant	EPEAT Gold
ENERGY STAR Certified	Yes

Neural Processor Unit (NPU)

Neural Processor Unit (NPU)	Intel AI Boost
NPU Performance Up To (TOPS)	13 TOPS
Total Processor Performance Up To (TOPS)	33 TOPS
AI Datatype Support on NPU	INT8
Sparsity Support	Yes
AI Software Frameworks Supported by NPU	OpenVINO, WindowsML, DirectML, ONNX RT, WebNN
Windows Studio Effects Support	Yes

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