HP Z2 G4 Intel® Core™ i7 i7-8700 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® P1000 Windows 10 Pro SFF Workstation Black

Brand : HP

Product code: 5DU85UTR

Product name : Z2 G4

- Windows 10 Pro 64-bit
- Intel Core i7-8700 (12MB Cache, 3.2GHz)
- NVIDIA Quadro P1000 (4GB GDDR5)
- 16GB (2666MHz) DDR4-SDRAM (2 x 8) & 512GB SSD

Intel Core i7-8700 (12MB Cache, 3.2GHz), 16GB DDR4-SDRAM, 512GB SSD, Intel UHD Graphics 630, NVIDIA Quadro P1000 (4GB GDDR5), LAN, WLAN, Bluetooth, Windows 10 Pro 64-bit

HP Z2 G4 Intel® Core™ i7 i7-8700 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® P1000 Windows 10 Pro SFF Workstation Black:

HP's most powerful small form factor
Get next-level performance with a compact device that can easily handle single and multi-threaded applications. With nearly endless configuration options, the Z2 SFF is the perfect hardware solution for your customization needs.

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	8th gen Intel® Core™ i7
Processor model *	i7-8700
Processor cores	6
Processor threads	12
Processor boost frequency	4,6 GHz
Processor frequency *	3,2 GHz
Processor socket	LGA 1151 (Socket H4)
Processor cache	12 MB
Processor cache type	Smart Cache
System bus rate	8 GT/s
Bus type	DMI3
Processor lithography	14 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-8700 Desktop Series
Processor codename	Coffee Lake
Thermal Design Power (TDP)	65 W
Tjunction	100 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	16
PCI Express configurations	1x16, 1x8+2x4, 2x8
Number of processors installed	1
Maximum internal memory supported by processor	64 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2666 MHz
Memory bandwidth supported by processor (max)	41,6 GB/s

Memory	
Internal memory *	16 GB
Maximum internal memory *	128 GB
Internal memory type	DDR4-SDRAM
Memory layout (slots x size)	2 x 8 GB
Memory slots	4x DIMM

Ports & interfaces	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	6
Microphone in	✗
Headphone outputs	1
Line-out	✓
Line-in	✓
Combo headphone/mic port	✓

Design	
Chassis type *	SFF
Product colour *	Black
Country of origin	China

Performance	
Market positioning	Business
Motherboard chipset	Intel C246
Audio chip	Conexant CX20632-31Z
Product type *	Workstation

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 10 Pro

Processor special features	
Intel 64	✓
Enhanced Intel SpeedStep Technology	✓
Embedded options available	✓
Intel® InTru™ 3D Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel TSX-NI	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Intel Stable Image Platform Program (SIPP)	✓

Memory	
Memory clock speed	2666 MHz
Non-ECC	✔

Storage	
Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express

Graphics	
Discrete graphics card *	✔
On-board graphics card *	✔
Discrete graphics card model *	NVIDIA® Quadro® P1000
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR5
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1200 MHz
Maximum on-board graphics card memory	64 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card ID	0x3E92
Number of execution units	24

Network	
Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 4 (802.11n)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Antenna type	2x2
Bluetooth	✔
Bluetooth version	5.0

Ports & interfaces	
USB 2.0 ports quantity *	2

Processor special features	
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel Enhanced Halt State	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR3QS
Scalability	1S
CPU configuration (max)	1
Thermal solution specification	PCG 2015C
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Stable Image Platform Program (SIPP) version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel TSX-NI version	1,00
Processor ARK ID	126686
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Quick Sync Video Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Conflict-Free processor	✔

Brand-specific features	
HP Software provided	Buy Office; CyberLink Power2Go; CyberLink PowerDVD; HP Client Security Software; HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Remote Graphics Software (RGS) 7.1; PDF Complete - Corporate Edition; HP Sure Recover; HP Manageability Integration Kit Gen2
HP segment	Business

Weight & dimensions	
Width *	338 mm
Depth *	381 mm
Height *	100 mm
Weight *	5,7 kg

Display	
Display included *	✘

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