HP

HP Z4 G4 Intel Xeon W W-2255 32 GB DDR4-SDRAM 512 GB SSD NVIDIA Quadro RTX 4000 Windows 10 Pro for Workstations Tower Workstation Black

Brand : HP

Product name : Z4 G4

Product code: 11R51ES

- Windows 10 Pro for Workstations 64-bit
- Intel Xeon W-2255 (19.25MB Cache, 3.7GHz)
- NVIDIA Quadro RTX 4000 (8GB GDDR6)
- 32GB DDR4-SDRAM (4 x 8) & 512GB SSD
Intel Xeon W-2255 (19.25MB Cache, 3.7GHz), 32GB DDR4-SDRAM, 512GB SSD, DVD-RW, NVIDIA Quadro
RTX 4000 (8GB GDDR6), LAN, Windows 10 Pro for Workstations 64-bit

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Pro for Workstations Tower Workstation Black:

HP's best-selling performance workstation

Perfect for engineering, visualization and Machine Learning, HP's most popular workstation delivers
disruptive performance for a wide spectrum of applications. With a choice of Intel Xeon or Core X
processors, and support for dual extreme graphics, you get all you need, nothing more.

Processor

Processor manufacturer *	Intel
Processor family *	Intel Xeon W
Processor model *	W-2255
Processor cores	10
Processor threads	20
Processor boost frequency	4,5 GHz
Processor frequency *	3,7 GHz
Processor cache	19,25 MB
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Cascade Lake
Thermal Design Power (TDP)	165 W
Tcase	62 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	48
Number of processors installed	1
Maximum internal memory supported by processor	1,02 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2933 MHz
Memory bandwidth supported by processor (max)	93,85 GB/s

Design

Cable lock slot	✔
Cable lock slot type	Kensington
Product colour *	Black
Country of origin	China

Performance

Market positioning	Business
Motherboard chipset	Intel® C422
Audio chip	Realtek ALC221
Product type *	Workstation

Software

Operating system architecture	64-bit
Operating system installed *	Windows 10 Pro for Workstations

Processor special features

Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
Idle States	✔
Thermal Monitoring Technologies	✔

Memory

Internal memory *	32 GB
Maximum internal memory *	256 GB
Internal memory type	DDR4-SDRAM
Memory layout (slots x size)	4 x 8 GB
Memory slots	8x DIMM
ECC	✔

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Optical drive type *	DVD-RW
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB

Graphics

Discrete graphics card *	✔
On-board graphics card *	✗
Discrete graphics card model *	NVIDIA Quadro RTX 4000
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card model *	Not available

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

DVI port	✗
PS/2 ports quantity	2
Ethernet LAN (RJ-45) ports	2
Microphone in	✗
Headphone outputs	1
Line-out	✔
Line-in	✔
Combo headphone/mic port	✔

Design

Chassis type *	Tower
Placement supported	Vertical

Processor special features

Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel Demand Based Switching	✔
Intel Software Guard Extensions (Intel SGX)	✗
Processor package size	45 x 52.5 mm
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	1S
Physical Address Extension (PAE)	✔
Physical Address Extension (PAE)	46 bit
CPU configuration (max)	1
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	198016
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔

Brand-specific features

HP segment	Business

Weight & dimensions

Width *	169 mm
Depth *	445 mm
Height *	386 mm
Weight *	10,2 kg

Packaging content

Mouse included	✔
Keyboard included	✔

Display

Display included *	✗

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