



## HP Z840 E5-2680V4 Tower Intel® Xeon® E5 v4 32 GB DDR3L-SDRAM 512 GB SSD Windows 7 Professional Workstation Black

**Brand :** HP

**Product code:** T4K64EA-R-RENEW

**Product name :** Z840

Intel Xeon E5-2680 v4 (2.4GHz, 35MB), 32GB (4 x 8GB) DDR4 SDRAM, HP Z Turbo Drive 512GB PCIe SSD, SuperMulti DVD±RW, Windows 7 Professional 64 / Windows 10 Pro 64

HP Z840. Processor frequency: 2.4 GHz, Processor family: Intel® Xeon® E5 v4, Processor: E5-2680V4. Internal memory: 32 GB, Internal memory type: DDR3L-SDRAM, Memory clock speed: 2133 MHz. Total storage capacity: 512 GB, Storage media: SSD, Optical drive type: DVD Super Multi. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 1125 W. Chassis type: Tower. Product type: Workstation. Product colour: Black



Processor		Expansion Slots	
Processor manufacturer *	Intel	PCI Express x4 (Gen 2.x) slots	1
Processor *	E5-2680V4	<b>Design</b>	
Processor family *	Intel® Xeon® E5 v4	Chassis type *	Tower
Processor number of cores	14	Number of 3.5" bays	4
Processor boost frequency	3.3 GHz	Number of 5.25" bays	2
Processor frequency *	2.4 GHz	Product colour *	Black
Processor socket	LGA 2011-v3	Country of origin	China
Processor cache	35 MB	<b>Performance</b>	
Processor cache type	Smart Cache	Motherboard chipset	Intel® C612
Processor threads	28	Audio system	High Definition Audio
System bus data transfer rate	9.6 GT/s	Product type *	Workstation
Bus type	QPI	<b>Software</b>	
Processor lithography	14 nm	Operating system installed *	Windows 7 Professional
Processor operating modes	64-bit	Operating system architecture	64-bit
Processor series	Intel Xeon E5-2600 v4	Recovery operating system	Windows 10 Pro
Processor codename	Broadwell	<b>Processor special features</b>	
Thermal Design Power (TDP)	120 W	Intel 64	✓
Tcase	86 °C	Enhanced Intel SpeedStep Technology	✓
PCI Express slots version	3.0	Embedded options available	✓
Maximum number of PCI Express lanes	40	Intel VT-x with Extended Page Tables (EPT)	✓
Number of processors installed	1	Intel TSX-NI	✓
Number of QPI links	2	Idle States	✓
Stepping	M0	Thermal Monitoring Technologies	✓
Maximum internal memory supported by processor	1536 GB	Intel AES New Instructions	✓
Memory types supported by processor	DDR4-SDRAM		

Processor		Processor special features	
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® OS Guard	✓
ECC supported by processor	✓	Intel Trusted Execution Technology	✓
Memory		Execute Disable Bit	✓
Internal memory *	32 GB	Intel Flex Memory Access	✗
Maximum internal memory *	512 GB	Intel Enhanced Halt State	✓
Internal memory type	DDR3L-SDRAM	Intel Demand Based Switching	✓
Memory layout (slots x size)	4 x 8 GB	Processor package size	45 x 52.5 mm
Memory slots	8x DIMM	Supported instruction sets	AVX 2.0
Memory clock speed	2133 MHz	Processor code	SR2N7
ECC	✓	Scalability	2S
Memory channels	Quad-channel	Physical Address Extension (PAE)	✓
Storage		Physical Address Extension (PAE)	46 bit
Card reader integrated	✗	CPU configuration (max)	2
Total storage capacity *	512 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	SSD	Intel Identity Protection Technology version	0.00
Optical drive type *	DVD Super Multi	Intel Secure Key Technology version	1.00
Total SSDs capacity	512 GB	Intel Virtualization Technology (VT-x)	✓
Number of SSDs installed	1	Intel TSX-NI version	1.00
Solid-state drive capacity	512 GB	Processor ARK ID	91754
Solid-state drive interfaces	PCI Express	Intel Turbo Boost Technology	2.0
Graphics		Intel Hyper-Threading Technology	✓
Discrete graphics card *	✗	Intel Identity Protection Technology	✗
Discrete graphics card model *	Not available	Conflict-Free processor	✓
On-board graphics card *	✗	Energy Management	
On-board graphics card model *	Not available	Power supply *	1125 W
Network		Sustainability	
Ethernet LAN connection *	✓	Sustainability certificates	ENERGY STAR
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight & Dimensions	
Wi-Fi *	✗	Width *	203 mm
Ports & interfaces		Depth *	525 mm
USB 2.0 ports quantity *	2	Height *	444 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	8	Weight *	21.1 kg
DVI port	✗	Packaging Content	
PS/2 ports quantity	2	Display included *	✗
Ethernet LAN (RJ-45) ports quantity	1	Mouse included	✓
Microphone in	✓	Keyboard included	✓
Headphone outputs	1	Other features	
Expansion Slots		Optical drives quantity	1
PCI Express x1 (Gen 2.x) slots	1	BD interface type	SATA

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