



HP Z440 MT E5-1650V4 Mini Tower Intel® Xeon® E5 v4 16 GB DDR4-SDRAM 512 GB SSD Windows 7 Professional Workstation Black

Brand : HP

Product code: T4K81EA-DE-NEW OPEN BOX

Product name : Z440 Workstation

Intel Xeon E5-1650 v4 (3.6GHz, 15MB), 16GB (2 x 8GB) DDR4 SDRAM, HP Z Turbo Drive 512GB PCIe SSD, SuperMulti DVD±RW, Windows 7 Professional 64 / Windows 10 Pro 64
HP Z440 MT. Processor frequency: 3.6 GHz, Processor family: Intel® Xeon® E5 v4, Processor: E5-1650V4. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM, Memory clock speed: 2400 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: 700 W. Chassis type: Mini Tower. Product type: Workstation. Product colour: Black



Processor		Expansion Slots	
Processor manufacturer *	Intel	PCI slots	1
Processor *	E5-1650V4	Design	
Processor family *	Intel® Xeon® E5 v4	Chassis type *	Mini Tower
Processor number of cores	6	Number of 3.5" bays	2
Processor boost frequency	4 GHz	Number of 5.25" bays	2
Processor frequency *	3.6 GHz	Product colour *	Black
Processor socket	LGA 2011-v3	Country of origin	China
Processor cache	15 MB	Performance	
Processor cache type	Smart Cache	Motherboard chipset	Intel® C612
Processor threads	12	Audio chip	Realtek HD ALC221
Bus type	QPI	Product type *	Workstation
Processor lithography	14 nm	Software	
Processor operating modes	64-bit	Operating system installed *	Windows 7 Professional
Processor series	Intel Xeon E5-1600 v4	Operating system architecture	64-bit
Processor codename	Broadwell	Recovery operating system	Windows 10 Pro
Thermal Design Power (TDP)	140 W	Processor special features	
Tcase	69 °C	Intel 64	✓
PCI Express slots version	3.0	Enhanced Intel SpeedStep Technology	✓
Maximum number of PCI Express lanes	40	Embedded options available	✗
Number of processors installed	1	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	R0	Intel TSX-NI	✓
Maximum internal memory supported by processor	1536 GB		

Processor		Processor special features	
Memory types supported by processor	DDR4-SDRAM	Idle States	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Thermal Monitoring Technologies	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel AES New Instructions	✓
ECC supported by processor	✓	Intel® Secure Key	✓
Memory		Intel® OS Guard	✓
		Intel Trusted Execution Technology	✓
		Execute Disable Bit	✓
		Intel Flex Memory Access	✗
		Intel Enhanced Halt State	✓
		Intel Demand Based Switching	✓
		Processor package size	45 x 52.5 mm
		Supported instruction sets	AVX 2.0
Storage		Processor code	SR2P7
		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 Identity Protection Technology version	1.00
		Intel Secure Key Technology version	1.00
Graphics		Intel Virtualization Technology (VT-x)	✓
		Intel TSX-NI version	1.00
		Processor ARK ID	92994
		Intel Turbo Boost Technology	2.0
		Intel Hyper-Threading Technology	✓
		Intel Identity Protection Technology	✓
		Conflict-Free processor	✓
		Energy Management	
Network		Power supply *	700 W
		Sustainability	
		Sustainability certificates	ENERGY STAR
Ports & interfaces		Weight & Dimensions	
		Width *	169 mm
		Depth *	445 mm
		Height *	432 mm
		Weight *	11 kg
		Packaging Content	
		Display included *	✗
		Mouse included	✓
		Keyboard included	✓
Expansion Slots		Other features	
		Optical drives quantity	1
		BD interface type	SATA

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