



# HP Z640 Xeon E5-2640v3 2.6GHz 1866MHz 8 Core 2nd CPU

Brand : HP

Product code: J9P97AA

Product name : Z640 Xeon E5-2640v3 2.6GHz 1866MHz 8 Core 2nd CPU



Intel Xeon E5-2640 v3, 20M Cache, 2.6 GHz, 8 GT/s QPI, FCLGA2011-3

HP Z640 Xeon E5-2640v3 2.6GHz 1866MHz 8 Core 2nd CPU:

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HP Z640 Xeon E5-2640v3 2.6GHz 1866MHz 8 Core 2nd CPU. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Compatibility: Z640

Processor		Features	
Processor model *	E5-2640V3	Maximum number of PCI Express lanes	40
Processor base frequency *	2.6 GHz	PCI Express slots version	3.0
Processor family *	Intel Xeon E5 v3	Supported instruction sets	AVX 2.0
Processor cores *	8	Scalability	2S
Processor socket *	LGA 2011-v3	Physical Address Extension (PAE)	✓
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	22 nm	Embedded options available	✓
Processor series	Intel Xeon E5-2600 v3	Physical Address Extension (PAE)	46 bit
Processor threads	16	<b>Processor special features</b>	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor boost frequency	3.4 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	20 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	90 W	Enhanced Intel SpeedStep Technology	✓
Cooler included *	✗	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	R2	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	59 GB/s	Intel® OS Guard	✓
Processor codename	Haswell	Intel 64	✓
<b>Memory</b>		Intel Virtualization Technology (VT-x)	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	1600,1866 MHz	<b>Operational conditions</b>	
Memory channels *	Quad-channel	Tcase	74.3 °C
ECC	✓	<b>Other features</b>	
<b>Graphics</b>		Compatibility	Z640
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		



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