



HP Z840 Xeon E5-2609v3 1.9GHz 1600MHz 6 Core 2nd CPU

Brand : HP

Product code: J9V76AA

Product name : Z840 Xeon E5-2609v3 1.9GHz 1600MHz 6 Core 2nd CPU



Intel Xeon E5-2609 v3, 15M Cache, 1.9 GHz, 6.4 GT/s QPI, FCLGA2011-3

HP Z840 Xeon E5-2609v3 1.9GHz 1600MHz 6 Core 2nd CPU:

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HP Z840 Xeon E5-2609v3 1.9GHz 1600MHz 6 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: Z840

Processor		Features	
Processor model *	E5-2609V3	Maximum number of PCI Express lanes	40
Processor base frequency *	1.9 GHz	PCI Express slots version	3.0
Processor family *	Intel Xeon E5 v3	Supported instruction sets	AVX 2.0
Processor cores *	6	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	6	Processor special features	
System bus rate	6.4 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor cache	15 MB	Intel® Turbo Boost Technology	✗
Processor cache type	Smart Cache	Intel Flex Memory Access	✗
Thermal Design Power (TDP)	85 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Cooler included *	✗	Enhanced Intel SpeedStep Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel Trusted Execution Technology	✓
Stepping	M1	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	51 GB/s	Intel TSX-NI	✗
Processor codename	Haswell	Intel® OS Guard	✓
Memory		Intel 64	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1600 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	70.9 °C
Graphics		Other features	
On-board graphics card *	✗	Compatibility	Z840
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		



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