HP Intel Xeon E5-2609 v3 processor 1.9 GHz 15 MB Smart Cache

Brand : HP **Product code:** 790091-001

Product name : Intel Xeon E5-2609 v3

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

HP Intel Xeon E5-2609 v3 processor 1.9 GHz 15 MB Smart Cache:

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HP Intel Xeon E5-2609 v3. 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 ZD3.5

Processor	
Processor model *	E5-2609V3
Processor base frequency *	1.9 GHz
Processor family *	Intel Xeon E5 v3
Processor cores *	6
Processor socket *	LGA 2011-v3
Component for	Server/workstation
Processor lithography *	22 nm
Processor series	Intel Xeon E5-2600 v3
Processor threads	6
System bus rate	6.4 GT/s
Processor operating modes *	64-bit
Processor cache	15 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	85 W
VID Voltage Range	0.65 - 1.3 V
Stepping	M1
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	51 GB/s

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600 MHz
Memory channels *	Quad-channel
ECC	✔

Graphics	
On-board graphics card *	✘

Features	
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Market segment	Server
Maximum number of PCI Express lanes	40
PCI Express slots version	3.0

Features	
Supported instruction sets	AVX 2.0
Scalability	2S
Physical Address Extension (PAE)	✔
CPU configuration (max)	2
Embedded options available	✔
Physical Address Extension (PAE)	46 bit

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✘
Intel® Identity Protection Technology (Intel® IPT)	✘
Intel® Turbo Boost Technology	✘
Intel Flex Memory Access	✘
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✔
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel® OS Guard	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Conflict-Free processor	✔
Intel® vPro™ Platform Eligibility	✔

Operational conditions	
Tcase	70.9 °C

Other features	
Compatibility	Z840 ZD3.5

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