



HP Intel Xeon E5-2683 v3 processor 2 GHz 35 MB Smart Cache

Brand : HP

Product code: 790103-001

Product name : Intel Xeon E5-2683 v3

Intel Xeon E5-2683 v3, 35M Cache, 2 GHz, 9.6 GT/s QPI

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HP Intel Xeon E5-2683 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, Physical Address Extension (PAE): 46 bit. Compatibility: Z840 Z640 Z820

Processor		Features	
Processor model *	E5-2683V3	Maximum number of PCI Express lanes	40
Processor base frequency *	2 GHz	PCI Express slots version	3.0
Processor family *	Intel Xeon E5 v3	Supported instruction sets	AVX 2.0
Processor cores *	14	Physical Address Extension (PAE)	✓
Processor socket *	LGA 2011-v3	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✗
Processor lithography *	22 nm	Physical Address Extension (PAE)	46 bit
Processor series	Intel Xeon E5-2600 v3	Processor special features	
Processor threads	28	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	9.6 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3 GHz	Intel Flex Memory Access	✗
Processor cache	35 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	120 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	C1	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	68 GB/s	Intel 64	✓
Memory		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	Conflict-Free processor	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	82.5 °C
Graphics		Other features	
On-board graphics card *	✗	Compatibility	Z840 Z640 Z820
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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