



## HP Intel Xeon E5-2699 v3 processor 2.3 GHz 45 MB Smart Cache

**Brand :** HP

**Product code:** 790108-001

**Product name :** Intel Xeon E5-2699 v3

Intel Xeon E5-2699 v3, 45M Cache, 2.3 GHz, 9.6 GT/s QPI

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HP Intel Xeon E5-2699 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: Z640

Processor		Features	
Processor model *	E5-2699V3	Supported instruction sets	AVX 2.0
Processor base frequency *	2.3 GHz	Scalability	2S
Processor family *	Intel Xeon E5 v3	Physical Address Extension (PAE)	✓
Processor cores *	18	CPU configuration (max)	2
Processor socket *	LGA 2011-v3	Embedded options available	✗
Component for	Server/workstation	Physical Address Extension (PAE)	46 bit
Processor lithography *	22 nm	<b>Processor special features</b>	
Processor series	Intel Xeon E5-2600 v3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	36	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	9.6 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel Flex Memory Access	✗
Processor boost frequency	3.6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	45 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	145 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.65 - 1.3 V	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® OS Guard	✓
<b>Memory</b>		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	1600,1866,2133 MHz	Conflict-Free processor	✓
Memory channels *	Quad-channel	Intel® vPro™ Platform Eligibility	✓
ECC	✓	<b>Operational conditions</b>	
<b>Graphics</b>		Tcase	76.4 °C
On-board graphics card *	✗	<b>Other features</b>	
<b>Features</b>		Compatibility	Z640
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		

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