



HP Xeon E5-2697 v3 processor 2.6 GHz 35 MB L3



Brand : HP

Product code: 790107-001

Product name : Xeon E5-2697 v3

Xeon Processor E5-2697 v3 (35M Cache, 2.60 GHz)

HP Xeon E5-2697 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, Scalability: 2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor model *	E5-2697V3	PCI Express slots version	3.0
Processor base frequency *	2.6 GHz	Supported instruction sets	AVX
Processor family *	Intel Xeon E5 v3	Scalability	2S
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	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	3.6 GHz	Intel Flex Memory Access	✗
Processor cache	35 MB	Intel® Smart Cache	✓
Processor cache type	L3	Intel® AES New Instructions (Intel® AES-NI)	✓
L3 cache speed	2.6 GHz	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	145 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel Enhanced Halt State	✓
Stepping	C1	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)	68 GB/s	Intel TSX-NI	✗
Memory		Intel® OS Guard	✓
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	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	76.7 °C
Graphics		Other features	
On-board graphics card *	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		

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