

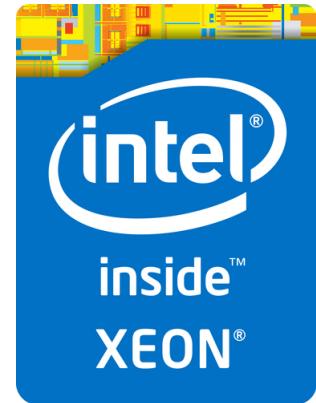
Intel Xeon E5-2697V3 processor 2.6 GHz 35 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8064401807100

Product name : E5-2697V3



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

Intel Xeon E5-2697V3. 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. Intel® Turbo Boost Technology 2.0 frequency: 3.6 GHz. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-2697V3	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.6 GHz	Intel Flex Memory Access	✗
Processor family *	Intel Xeon E5 v3	Intel® Smart Cache	✓
Processor cores *	14	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011-v3	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel® Turbo Boost Technology 2.0 frequency	3.6 GHz
Processor series	Intel Xeon E5-2600 v3	Intel® Transactional Synchronization Extensions	✗
Processor threads	28	Intel Enhanced Halt State	✓
System bus rate	9.6 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	3.6 GHz	Intel® Secure Key	✓
Processor cache	35 MB	Intel TSX-NI	✗
Processor cache type	Smart Cache	Intel® OS Guard	✓
L3 cache speed	2.6 GHz	Intel 64	✓
Thermal Design Power (TDP)	145 W	Intel Identity Protection Technology version	0.00
Box *	✗	Intel Secure Key Technology version	1.00
Cooler included *	✗	Intel Virtualization Technology (VT-x)	✓
VID Voltage Range	0.65 - 1.3 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	C1	Intel TSX-NI version	0.00
Bus type	QPI		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	68 GB/s		
Processor codename	Haswell		
Processor code	SR1XF		
Processor ARK ID	81059		

Memory		Processor special features	
Maximum internal memory supported by processor	768 GB	Conflict-Free processor	✗
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	76.7 °C
ECC	✓	Technical details	
Graphics		Bus bandwidth	9.6
On-board graphics card *	✗	Bus type units	GT/s
Features		Launch date	Q3'14
Execute Disable Bit	✓	Processor cache	35840 KB
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✓	Status	Discontinued
Market segment	Server	Maximum memory	768 GB
Maximum number of PCI Express lanes	40	Processor brand name	Intel Xeon v2
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
Supported instruction sets	AVX 2.0	Last change	63903513
Scalability	2S	Product family	Intel Xeon Processor E5 v3 Family
Physical Address Extension (PAE)	✓	Bus speed	9.6 GT/s
CPU configuration (max)	2	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	8542310001
Physical Address Extension (PAE)	46 bit	Packaging data	
PCI Express CEM revision	3.0	Package width	44 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	140 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package height	117 mm
Processor special features		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Weight & dimensions	
		Processor package size	52.5mm x 51mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB

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