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 manufacturer *	Intel
Processor model *	E5-2697V3
Processor base frequency *	2.6 GHz
Processor family *	Intel Xeon E5 v3
Processor cores *	14
Processor socket *	LGA 2011-v3
Component for	Server/workstation
Processor lithography *	22 nm
Processor series	Intel Xeon E5-2600 v3
Processor threads	28
System bus rate	9.6 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.6 GHz
Processor cache	35 MB
Processor cache type	Smart Cache
L3 cache speed	2.6 GHz
Thermal Design Power (TDP)	145 W
Box *	✗
Cooler included *	✗
VID Voltage Range	0.65 - 1.3 V
Stepping	C1
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

Processor special features	
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® Smart Cache	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel® Turbo Boost Technology 2.0 frequency	3.6 GHz
Intel® Transactional Synchronization Extensions	✗
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel® OS Guard	✓
Intel 64	✓
Intel Identity Protection Technology version	0.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel TSX-NI version	0.00

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133 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
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
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓

Processor special features	
Conflict-Free processor	✗
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	76.7 °C

Technical details	
Bus bandwidth	9.6
Bus type units	GT/s
Launch date	Q3'14
Processor cache	35840 KB
Product type	Processor
Status	Discontinued
Maximum memory	768 GB
Processor brand name	Intel Xeon v2
Supported memory types	DDR4-SDRAM
Last change	63903513
Product family	Intel Xeon Processor E5 v3 Family
Bus speed	9.6 GT/s

Logistics data	
Harmonized System (HS) code	8542310001

Packaging data	
Package width	44 mm
Package depth	140 mm
Package height	117 mm
Package type	Retail box

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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