

## Intel Xeon E5-2690V3 processor 2.6 GHz 30 MB Smart Cache Box

**Brand :** Intel

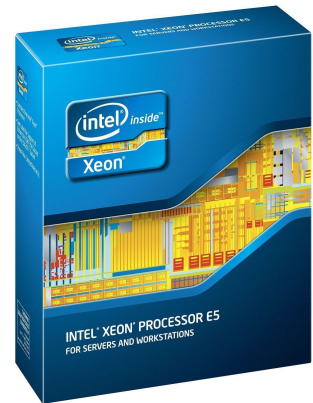
**Product family:** Xeon

**Product code:**  
BX80644E52690V3

**Product name :** E5-2690V3

Intel® Xeon® Processor E5-2690 v3  
(30M Cache, 2.60 GHz)

Intel Xeon E5-2690V3. 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, PCI Express configurations: x4, x8, x16, Supported instruction sets: AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.5 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-2690V3	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 *	12	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	3.5 GHz
Processor series	Intel Xeon E5-2600 v3	Intel® Transactional Synchronization Extensions	✗
Processor threads	24	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	3.5 GHz	Intel® Secure Key	✓
Processor cache	30 MB	Intel TSX-NI	✗
Processor cache type	Smart Cache	Intel® OS Guard	✓
L3 cache speed	2.6 GHz	Intel 64	✓
Thermal Design Power (TDP)	135 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)	✓
Bus type	QPI	Intel TSX-NI version	0.00
Number of QPI links	2	Conflict-Free processor	✗
Memory bandwidth supported by processor (max)	68 GB/s	Intel® vPro™ Platform Eligibility	✓
Processor codename	Haswell		
Processor ARK ID	81713		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	89.9 °C
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	1600,1866,2133 MHz	Technical details	
Memory channels *	Quad-channel	Born on date	Q3'14
ECC	✓	Bus bandwidth	9.6
Graphics		Bus type units	GT/s
On-board graphics card *	✗	Launch date	Q3'14

Graphics		Technical details	
Discrete graphics card *	✘	Processor cache	30720 KB
On-board graphics card model *	Not available	Processor core voltage	0.65-1.30
Discrete graphics card model *	Not available	Product name	Intel Xeon E5-2690 v3 (30M Cache, 2.60 GHz)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	768 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon v2
Market segment	Server	Supported memory types	DDR4-SDRAM
Maximum number of PCI Express lanes	40	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E5 v3 Family
PCI Express configurations	x4, x8, x16	Bus speed	9.6 GT/s
Supported instruction sets	AVX 2.0	Logistics data	
Scalability	2S	Harmonized System (HS) code	8542310001
CPU configuration (max)	2	Packaging data	
Embedded options available	✘	Package type	Retail box
Physical Address Extension (PAE)	46 bit	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	52.5mm x 45mm
Export Control Classification Number (ECCN)	5A992C	Other features	
Commodity Classification Automated Tracking System (CCATS)	G077159	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Processor special features		Maximum internal memory	768 GB
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	786432 MB
		Cache memory	30 MB



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