

## Intel Xeon E5-2609V2 processor 2.5 GHz 10 MB Smart Cache Box

**Brand :** Intel

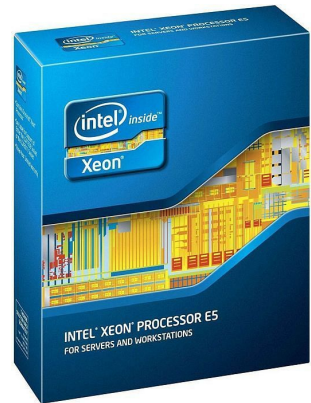
**Product family:** Xeon

**Product code:**  
BX80635E52609V2

**Product name :** E5-2609V2

Intel® Xeon® Processor E5-2609 v2  
(10M Cache, 2.50 GHz)

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### Now with greater performance, efficiency, and security to fortify your cloud solutions.

The explosive growth of unstructured data puts new demands on network and storage infrastructure and challenges your ability to deliver services such as cloud computing. IT needs to respond rapidly to new and changing business demands, scale quickly and appropriately to fluctuating workloads, accommodate business expansions, and protect your data from cybercriminals—all while keeping costs down.

### Invest in an agile foundation.

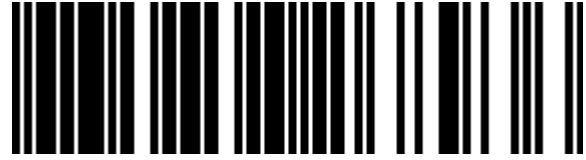
The new Intel® Xeon® processor E5-2600 and E5-1600 v2 product families are at the heart of an agile, efficient data center that meets your diverse needs. Now you can deploy a more secure private cloud, quickly crunch through big data, and get the most out of your data center with greater energy efficiency.

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-2609V2	Intel® Turbo Boost Technology	✗
Processor base frequency *	2.5 GHz	Intel Flex Memory Access	✗
Processor family *	Intel® Xeon® E5 Family	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	4	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2011 (Socket R)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Transactional Synchronization Extensions	✗
Processor lithography *	22 nm	Intel Enhanced Halt State	✓
Processor series	Intel Xeon E5-2600 v2	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	4	Intel Demand Based Switching	✓
System bus rate	6.4 GT/s	Intel® Secure Key	✓
Processor operating modes *	64-bit	Intel TSX-NI	✗
Processor boost frequency	2.5 GHz	Intel® OS Guard	✓
Processor cache	10 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Identity Protection Technology version	0.00
Thermal Design Power (TDP)	80 W	Intel Secure Key Technology version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
VID Voltage Range	0.65 - 1.3 V	Intel TSX-NI version	0.00
Bus type	QPI	Conflict-Free processor	✗
Number of QPI links	2	Intel® vPro™ Platform Eligibility	✓
Memory bandwidth supported by processor (max)	42.6 GB/s		
Processor codename	Ivy Bridge EP		
Processor ARK ID	75787		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	71 °C
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333 MHz		
Memory channels *	Quad-channel	Technical details	
ECC	✓	Born on date	Q3'13
		Bus bandwidth	6.4
		Bus type units	GT/s

Graphics		Technical details	
On-board graphics card *	✘	Launch date	Q3'13
Features		Processor cache	10240 KB
Execute Disable Bit	✓	Processor core voltage	0.65-1.30
Idle States	✓	Product name	Intel Xeon E5-2609 v2 (10M Cache, 2.50 GHz)
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Server	Status	Launched
Maximum number of PCI Express lanes	40	Maximum memory	768 GB
PCI Express slots version	3.0	Processor brand name	Intel Xeon v2
PCI Express configurations	x4, x8, x16	Supported memory types	DDR3-SDRAM
Supported instruction sets	AVX	Last change	63903513
Scalability	2S	Product family	Intel Xeon Processor E5 v2 Family
CPU configuration (max)	2	Bus speed	6.4 GT/s
Embedded options available	✓	Logistics data	
Physical Address Extension (PAE)	46 bit	Harmonized System (HS) code	8542310001
PCI Express CEM revision	3.0	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
Processor special features		Processor package size	52.5mm x 45mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✘	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB
		Cache memory	10 MB



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