

Intel Xeon E5-2609 processor 2.4 GHz 10 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8062107186604

Product name : E5-2609




Intel® Xeon® Processor E5-2609

(10M Cache, 2.40 GHz, 6.40 GT/s Intel® QPI)

Intel Xeon E5-2609. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Package type: Retail box. Processor package size: 52.5mm x 45mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	E5-2609	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2.4 GHz	Intel® Turbo Boost Technology	✗
Processor family *	Intel® Xeon® E5 Family	Intel Flex Memory Access	✗
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011 (Socket R)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	32 nm	Intel Enhanced Halt State	✓
Processor series	Intel Xeon E5-2600	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	4	Intel Demand Based Switching	✓
System bus rate	6.4 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Identity Protection Technology version	0.00
Processor cache	10 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	80 W	Conflict-Free processor	✗
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗	Operational conditions	
VID Voltage Range	0.6 - 1.35 V	Maximum operating temperature	70 °C
Stepping	M1	Tcase	70 °C
Bus type	QPI	Technical details	
CPU multiplier (bus/core ratio)	24	Bus bandwidth	6.4
Number of QPI links	2	Bus type units	GT/s
Memory bandwidth supported by processor (max)	34.1 GB/s	Launch date	Q1'12
Processor ARK ID	64588	Processor cache	10240 KB
Memory		Product type	Processor
Maximum internal memory supported by processor	750 GB	Status	Discontinued
Memory types supported by processor	DDR3-SDRAM	Maximum memory	384 GB
Memory clock speeds supported by processor	800,1066 MHz	Processor brand name	Intel Xeon
Memory channels *	Quad-channel	Supported memory types	DDR3-SDRAM
ECC	✓	Last change	63903513
Features		Product family	Intel Xeon Processor E5 Family
Execute Disable Bit	✓	Bus speed	6.4 GT/s
Idle States	✓	Logistics data	
Thermal Monitoring Technologies	✓	Harmonized System (HS) code	8542310001
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		
Supported instruction sets	AVX		

Features		Packaging data	
Scalability	25	Package type	Retail box
CPU configuration (max)	2	Weight & dimensions	
Embedded options available	X	Processor package size	52.5mm x 45mm
PCI Express CEM revision	3.0	Other features	
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	384 GB
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	393216 MB
Images Type Map			



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