

Intel Xeon E5-2637 processor 3 GHz 5 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8062101143202

Product name : E5-2637

Intel® Xeon® Processor E5-2637

(5M Cache, 3.00 GHz, 8.00 GT/s Intel® QPI)

Intel Xeon E5-2637. 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. Intel® Turbo Boost Technology 2.0 frequency: 3.5 GHz. Processor package size: 52.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Images Type Map	<input type="checkbox"/>
Processor model *	E5-2637	Processor special features	
Processor base frequency *	3 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® E5 Family	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor cores *	2	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 2011 (Socket R)	Intel Flex Memory Access	✗
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	32 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon E5-2600	Intel Trusted Execution Technology	✓
Processor threads	4	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
System bus rate	8 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.5 GHz	Intel Demand Based Switching	✓
Processor cache	5 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Identity Protection Technology version	0.00
Thermal Design Power (TDP)	80 W	Intel Virtualization Technology (VT-x)	✓
Box *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Cooler included *	✗	Intel® vPro™ Platform Eligibility	✓
VID Voltage Range	0.6 - 1.35 V	Operational conditions	
Stepping	M1	Tc case	70 °C
Bus type	QPI	Technical details	
CPU multiplier (bus/core ratio)	35	Born on date	Q1'12
Number of QPI links	2		
Memory bandwidth supported by processor (max)	51.2 GB/s		
Processor codename	Sandy Bridge EP		
Processor ARK ID	64598		
Memory			
Maximum internal memory supported by processor	750 GB		

Memory		Technical details	
Memory types supported by processor	DDR3-SDRAM	Bus bandwidth	8
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Bus type units	GT/s
Memory channels *	Quad-channel	Launch date	Q1'12
ECC	✓	Processor cache	5120 KB
Graphics		Processor core voltage	0.6 - 1.35 V
On-board graphics card *	✗	Product name	Intel Xeon E5-2637 (5M Cache, 3.00 GHz, 8.00 GT/s Intel QPI)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	384 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon
Market segment	Server	Supported memory types	DDR3-SDRAM
Maximum number of PCI Express lanes	40	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E5 Family
Supported instruction sets	AVX	Bus speed	8 GT/s
Scalability	2S	Logistics data	
CPU configuration (max)	2	Harmonized System (HS) code	8542310001
Embedded options available	✗	Weight & dimensions	
Graphics & IMC lithography	32 nm	Processor package size	52.5mm x 45mm
PCI Express CEM revision	3.0	Other features	
Export Control Classification Number (ECCN)	5A992C	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	384 GB
		Maximum internal memory	393216 MB
		Cache memory	5 MB

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