

Intel Xeon E5-2603 processor 1.8 GHz 10 MB Smart Cache Box

Brand : Intel

Product family: Xeon

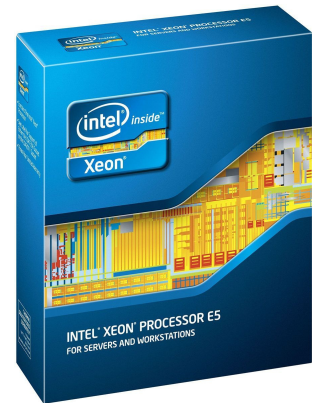
Product code:
BX80621E52603

Product name : E5-2603


Intel® Xeon® Processor E5-2603

(10M Cache, 1.80 GHz, 6.40 GT/s Intel® QPI)

Intel Xeon E5-2603. 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 width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 52.5mm x 45mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	E5-2603	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	1.8 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	Intel® vPro™ Platform Eligibility	✓
Box *	✓	Operational conditions	
Cooler included *	✓	Tcase	70 °C
VID Voltage Range	0.6 - 1.35 V	Technical details	
Stepping	M1	Born on date	Q1'12
Bus type	QPI	Bus bandwidth	6.4
CPU multiplier (bus/core ratio)	18	Bus type units	GT/s
Number of QPI links	2	Launch date	Q1'12
Memory bandwidth supported by processor (max)	34.1 GB/s	Processor cache	10240 KB
Processor codename	Sandy Bridge EP		
Processor ARK ID	64592		
Memory			
Maximum internal memory supported by processor	750 GB		
Memory types supported by processor	DDR3-SDRAM		

Memory		Technical details	
Memory clock speeds supported by processor	800,1066 MHz	Processor core voltage	0.60-1.35 V
Memory channels *	Quad-channel	Product name	Intel Xeon E5-2603 (10M Cache, 1.80 GHz, 6.40 GT/s Intel QPI)
ECC	✓	Product type	Processor
Graphics		Status	Discontinued
On-board graphics card *	✗	Maximum memory	384 GB
Features		Processor brand name	Intel Xeon
Execute Disable Bit	✓	Supported memory types	DDR3-SDRAM
Idle States	✓	Last change	63903513
Thermal Monitoring Technologies	✓	Product family	Intel Xeon Processor E5 Family
Market segment	Server	Bus speed	6.4 GT/s
Maximum number of PCI Express lanes	40	Logistics data	
PCI Express slots version	3.0	Harmonized System (HS) code	8542310001
Supported instruction sets	AVX	Packaging data	
Scalability	2S	Package width	44 mm
CPU configuration (max)	2	Package depth	140 mm
Embedded options available	✗	Package height	117 mm
Graphics & IMC lithography	32 nm	Package weight	125 g
PCI Express CEM revision	3.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G077159	Processor package size	52.5mm x 45mm
Images Type Map		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	384 GB
		Maximum internal memory	393216 MB
		Cache memory	10 MB



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