

## Intel Xeon E5603 processor 1.6 GHz 4 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code: BX80614E5603

Product name : E5603

Intel® Xeon® Processor E5603

(4M Cache, 1.60 GHz, 4.80 GT/s Intel® QPI)

Intel Xeon E5603. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: LGA 1366 (Socket B), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 288 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, Bandwidth: 26214.4 MB/s. Package width: 1 mm, Package depth: 1 mm, Package height: 1 mm. Processor package size: 42.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992C
Processor model *	E5603	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor base frequency *	1.6 GHz	<b>Processor special features</b>	
Processor family *	Intel® Xeon® 5000 Sequence	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor cores *	4	Intel® Turbo Boost Technology	✗
Processor socket *	LGA 1366 (Socket B)	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	32 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon 5600 Series	Intel Trusted Execution Technology	✓
Processor threads	4	Intel Enhanced Halt State	✓
System bus rate	4.8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor cache	4 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Processor front side bus	1066 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	80 W	Conflict-Free processor	✗
Box *	✓	<b>Technical details</b>	
Cooler included *	✓	Bus bandwidth	4.8
VID Voltage Range	0.75 - 1.35 V	Bus type units	GT/s
Stepping	B1	Launch date	Q1'11
Bus type	QPI	Processor cache	4096 KB
CPU multiplier (bus/core ratio)	12	Product type	Processor
Number of QPI links	2	Status	Discontinued
Memory bandwidth supported by processor (max)	25.6 GB/s	Maximum memory	288 GB
Processor code	SLC2F	Processor brand name	Intel Xeon
Processor ARK ID	52584	Supported memory types	DDR3-SDRAM
<b>Memory</b>		Last change	63903513
Maximum internal memory supported by processor	288 GB	Product family	Intel Xeon Processor 5000 Sequence
Memory types supported by processor	DDR3-SDRAM	Bus speed	4.8 GT/s
Memory channels *	Triple-channel	<b>Logistics data</b>	
ECC	✓	Harmonized System (HS) code	8542310001
<b>Graphics</b>		<b>Packaging data</b>	
On-board graphics card *	✗	Package width	1 mm
<b>Features</b>		Package depth	1 mm
Execute Disable Bit	✓	Package height	1 mm
Idle States	✓	<b>Logistics data</b>	
Thermal Monitoring Technologies	✗	Harmonized System (HS) code	8542310001
Market segment	Server	<b>Packaging data</b>	
Supported instruction sets	SSE4.2	Package width	1 mm
Bandwidth	26214.4 MB/s	Package depth	1 mm
CPU configuration (max)	2	Package height	1 mm

Features		Packaging data	
Embedded options available	✘	Package type	Retail box
Physical Address Extension (PAE)	40 bit	Weight & dimensions	
		Processor package size	42.5mm x 45mm
Other features			
		Maximum internal memory	288 GB
		Maximum internal memory	294912 MB



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