

Intel Xeon E5503 processor 2 GHz 4 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code: BX80602E5503

Product name : E5503

Intel® Xeon® Processor E5503
(4M Cache, 2.00 GHz, 4.80 GT/s Intel® QPI)

[Intel Xeon E5503 processor 2 GHz 4 MB Smart Cache Box:](#)




Server Processors

Server processors deliver enhanced, energy-efficient performance for data-intensive business applications. Powering a range of multi-core 64-bit servers?, Intel server processors enable you to optimize and scale computing environments to maximize server utilization to workload, while providing you with headroom for growth.

Intel Xeon E5503. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: LGA 1366 (Socket B), Processor lithography: 45 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 144 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Physical Address Extension (PAE): 40 bit, Export Control Classification Number (ECCN): 3A991.A.1. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 42.5mm x 45mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	E5503	Intel® Turbo Boost Technology	✗
Processor base frequency *	2 GHz	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor family *	Intel® Xeon® 5000 Sequence	Enhanced Intel SpeedStep Technology	✓
Processor cores *	2	Intel Trusted Execution Technology	✗
Processor socket *	LGA 1366 (Socket B)	Intel Enhanced Halt State	✓
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	45 nm	Intel Demand Based Switching	✓
Processor series	Intel Xeon 5500 Series	Intel 64	✓
Processor threads	2	Intel Virtualization Technology (VT-x)	✓
System bus rate	4.8 GT/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	Conflict-Free processor	✗
Processor cache	4 MB	Operational conditions	
Processor cache type	Smart Cache	Tcase	76 °C
Processor front side bus	800 MHz	Technical details	
Thermal Design Power (TDP)	80 W	Bus bandwidth	4.8
Box *	✓	Bus type units	GT/s
Cooler included *	✓	Launch date	Q1'10
VID Voltage Range	0.75 - 1.35 V	Processor cache	4096 KB
Bus type	QPI	Product type	Processor
CPU multiplier (bus/core ratio)	15	Status	Discontinued
Number of QPI links	2	Maximum memory	144 GB
Memory bandwidth supported by processor (max)	19.2 GB/s	Processor brand name	Intel Xeon
Processor ARK ID	37094	Supported memory types	DDR3-SDRAM
Memory		Last change	63903513
Maximum internal memory supported by processor	144 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	Logistics data	
ECC	✓	Harmonized System (HS) code	8542310001
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✗		

Features		Packaging data	
Market segment	Server	Package width	44 mm
Embedded options available	✘	Package depth	140 mm
Physical Address Extension (PAE)	40 bit	Package height	117 mm
Export Control Classification Number (ECCN)	3A991.A.1	Package weight	102 g
Commodity Classification Automated Tracking System (CCATS)	NA	Package type	Retail box
Images Type Map		Weight & dimensions	
		Processor package size	42.5mm x 45mm
		Other features	
		Maximum internal memory	144 GB
		Maximum internal memory	147456 MB



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