

## Intel Xeon E5503 processor 2 GHz 4 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
AT80602003636AA

**Product name :** E5503



Intel® Xeon® Processor E5503

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

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 type: Retail box. Processor package size: 42.5mm x 45mm

Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor model *	E5503	Automated Tracking System (CCATS)	NA
Processor base frequency *	2 GHz	Images Type Map	<input type="checkbox"/> <input type="checkbox"/>
Processor family *	Intel® Xeon® 5000 Sequence	<b>Processor special features</b>	
Processor cores *	2	Intel® Hyper Threading Technology (Intel® HT Technology)	<input checked="" type="checkbox"/>
Processor socket *	LGA 1366 (Socket B)	Intel® Turbo Boost Technology	<input checked="" type="checkbox"/>
Component for	Server/workstation	Intel® Smart Cache	<input checked="" type="checkbox"/>
Processor lithography *	45 nm	Intel® AES New Instructions (Intel® AES-NI)	<input checked="" type="checkbox"/>
Processor series	Intel Xeon 5500 Series	Enhanced Intel SpeedStep Technology	<input checked="" type="checkbox"/>
Processor threads	2	Intel Trusted Execution Technology	<input checked="" type="checkbox"/>
System bus rate	4.8 GT/s	Intel Enhanced Halt State	<input checked="" type="checkbox"/>
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	<input checked="" type="checkbox"/>
Processor cache	4 MB	Intel Demand Based Switching	<input checked="" type="checkbox"/>
Processor cache type	Smart Cache	Intel 64	<input checked="" type="checkbox"/>
Thermal Design Power (TDP)	80 W	Intel Virtualization Technology (VT-x)	<input checked="" type="checkbox"/>
Box *	<input checked="" type="checkbox"/>	Intel Virtualization Technology for Directed I/O (VT-d)	<input checked="" type="checkbox"/>
Cooler included *	<input checked="" type="checkbox"/>	<b>Operational conditions</b>	
VID Voltage Range	0.75 - 1.35 V	Tcase	76 °C
Stepping	D0	<b>Technical details</b>	
Bus type	QPI	Born on date	Q1'10
CPU multiplier (bus/core ratio)	15	Bus bandwidth	4.8
Number of QPI links	2	Bus type units	GT/s
Memory bandwidth supported by processor (max)	19.2 GB/s	Launch date	Q1'10
Processor codename	Nehalem EP	Processor cache	4096 KB
Processor code	SLBKD	Processor core voltage	0.75 -1.35 V
Processor ARK ID	37094	Product name	Intel Xeon E5503 (4M Cache, 2.00 GHz, 4.80 GT/s Intel QPI)
<b>Memory</b>		Product type	Processor
Maximum internal memory supported by processor	144 GB	Status	Discontinued
Memory types supported by processor	DDR3-SDRAM	Maximum memory	144 GB
Memory clock speeds supported by processor	800 MHz		
Memory channels *	Triple-channel		
ECC	<input checked="" type="checkbox"/>		

Graphics		Technical details	
On-board graphics card *	✘	Processor brand name	Intel Xeon
Features		Supported memory types	DDR3-SDRAM
Execute Disable Bit	✔	Last change	63903513
Idle States	✔	Product family	Intel Xeon Processor 5000 Sequence
Thermal Monitoring Technologies	✘	Bus speed	4.8 GT/s
Market segment	Server	Logistics data	
Physical Address Extension (PAE)	✔	Harmonized System (HS) code	8542310001
Embedded options available	✘	Packaging data	
Physical Address Extension (PAE)	40 bit	Package type	Retail box
Export Control Classification Number (ECCN)	3A991.A.1	Weight & dimensions	
		Processor package size	42.5mm x 45mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	144 GB
		Maximum internal memory	147456 MB
		Cache memory	4 MB

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