

Intel Xeon E5520 processor 2.26 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code: BX80602E5520

Product name : E5520

Intel® Xeon® Processor E5520
(8M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)

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For performance that adapts to your application demands, intelligently scales energy use per performance demands, and offers best-in-class virtualization, turn to a more intelligent enterprise server processor—the Intel® Xeon® processor 5500 series—automatically and intelligently adjusting server performance according to your application needs.

Intel Xeon E5520. 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, Number of Processing Die Transistors: 731 M, Processing Die size: 263 mm². Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 42.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Commodity Classification Automated Tracking System (CCATS)	NA
Processor model *	E5520	Images Type Map	
Processor base frequency *	2.26 GHz	Processor special features	
Processor family *	Intel® Xeon® 5000 Sequence	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	4	Intel® Turbo Boost Technology	1.0
Processor socket *	LGA 1366 (Socket B)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✗
Processor lithography *	45 nm	Intel Enhanced Halt State	✓
Processor series	Intel Xeon 5500 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	8	Intel Demand Based Switching	✓
System bus rate	5.86 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	2.53 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	8 MB	Conflict-Free processor	✗
Processor cache type	Smart Cache	Operational conditions	
Processor front side bus	1066 MHz	Tcase	72 °C
Thermal Design Power (TDP)	80 W	Technical details	
Box *	✓	Bus bandwidth	5.86
Cooler included *	✓	Bus type units	GT/s
VID Voltage Range	0.75 - 1.35 V	Launch date	Q1'09
Bus type	QPI	Processor cache	8192 KB
CPU multiplier (bus/core ratio)	17	Product type	Processor
Number of QPI links	2	Status	Discontinued
Memory bandwidth supported by processor (max)	25.6 GB/s	Maximum memory	144 GB
Processor system type	DP	Processor brand name	Intel Xeon
Processor ARK ID	40200	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	5.86 GT/s
Memory channels *	Triple-channel		
ECC	✓		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Market segment	Server		

Features		Logistics data	
Number of Processing Die Transistors	731 M	Harmonized System (HS) code	8542310001
Processing Die size	263 mm ²	Packaging data	
CPU configuration (max)	2	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
		Package type	Retail box
		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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