intel.

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)

Intel Xeon E5520 processor 2.26 GHz 8 MB Smart Cache Box:

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

Processor manufacturer *	Intel
Processor model *	E5520
Processor base frequency *	2.26 GHz
Processor family *	Intel® Xeon® 5000 Sequence
Processor cores *	4
Processor socket *	LGA 1366 (Socket B)
Component for	Server/workstation
Processor lithography *	45 nm
Processor series	Intel Xeon 5500 Series
Processor threads	8
System bus rate	5.86 GT/s
Processor operating modes *	64-bit
Processor boost frequency	2.53 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
Processor front side bus	1066 MHz
Thermal Design Power (TDP)	80 W
Box *	✔
Cooler included *	✔
VID Voltage Range	0.75 - 1.35 V
Bus type	QPI
CPU multiplier (bus/core ratio)	17
Number of QPI links	2
Memory bandwidth supported by processor (max)	25.6 GB/s
Processor system type	DP
Processor ARK ID	40200

Memory

Maximum internal memory supported by processor	144 GB
Memory types supported by processor	DDR3-SDRAM
Memory channels *	Triple-channel
ECC	✔

Features

Execute Disable Bit	✔
Idle States	✔
Market segment	Server

Features

Commodity Classification Automated Tracking System (CCATS)	NA
Images Type Map	✕ ✕

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	1.0
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✕
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Conflict-Free processor	✕

Operational conditions

Tcase	72 °C

Technical details

Bus bandwidth	5.86
Bus type units	GT/s
Launch date	Q1'09
Processor cache	8192 KB
Product type	Processor
Status	Discontinued
Maximum memory	144 GB
Processor brand name	Intel Xeon
Supported memory types	DDR3-SDRAM
Last change	63903513
Product family	Intel Xeon Processor 5000 Sequence
Bus speed	5.86 GT/s

Features

Number of Processing Die Transistors	731 M
Processing Die size	263 mm²
CPU configuration (max)	2
Embedded options available	✘
Physical Address Extension (PAE)	40 bit
Export Control Classification Number (ECCN)	3A991.A.1

Logistics data

Harmonized System (HS) code	8542310001

Packaging data

Package width	44 mm
Package depth	140 mm
Package height	117 mm
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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