

Intel Xeon E5530 processor 2.4 GHz 8 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
AT80602000792AA


Product name : E5530

Intel® Xeon® Processor E5530

(8M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)

Intel Xeon E5530. 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 type: Retail box. Processor package size: 42.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	40 bit
Processor model *	E5530	Export Control Classification Number (ECCN)	3A991.A.1
Processor base frequency *	2.4 GHz	Commodity Classification	
Processor family *	Intel® Xeon® 5000 Sequence	Automated Tracking System (CCATS)	NA
Processor cores *	4	Images Type Map	
Processor socket *	LGA 1366 (Socket B)	Processor special features	
Component for	Server/workstation	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography *	45 nm	Intel® Turbo Boost Technology	1.0
Processor series	Intel Xeon 5500 Series	Intel® Smart Cache	✓
Processor threads	8	Enhanced Intel SpeedStep Technology	✓
System bus rate	5.86 GT/s	Intel Trusted Execution Technology	✗
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	2.66 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	8 MB	Intel Demand Based Switching	✓
Processor cache type	Smart Cache	Intel 64	✓
L3 cache speed	2.4 GHz	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	80 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Box *	✗	Operational conditions	
Cooler included *	✗	Tcase	76 °C
VID Voltage Range	0.75 - 1.35 V	Technical details	
Stepping	D0	Born on date	Q1'09
Bus type	QPI	Bus bandwidth	5.86
CPU multiplier (bus/core ratio)	18	Bus type units	GT/s
Number of QPI links	2	Launch date	Q1'09
Memory bandwidth supported by processor (max)	25.6 GB/s	Processor cache	8192 KB
Processor codename	Nehalem EP	Processor core voltage	0.75 -1.35 V
Processor code	SLBF7	Product name	Intel Xeon E5530 (8M Cache, 2.40 GHz, 5.86 GT/s Intel QPI)
Processor ARK ID	37103	Product type	Processor
Memory			
Maximum internal memory supported by processor	144 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066 MHz		

Memory		Technical details	
Memory channels *	Triple-channel	Status	Discontinued
ECC	✓	Maximum memory	144 GB
Graphics		Processor brand name	Intel Xeon
On-board graphics card *	✗	Supported memory types	DDR3-SDRAM
Features		Last change	63903513
Execute Disable Bit	✓	Product family	Intel Xeon Processor 5000 Sequence
Idle States	✓	Bus speed	5.86 GT/s
Market segment	Server	Logistics data	
Number of Processing Die Transistors	731 M	Harmonized System (HS) code	8542310001
Processing Die size	263 mm ²	Packaging data	
Number of Graphics & IMC Die Transistors	731 M	Package type	Retail box
Physical Address Extension (PAE)	✓	Weight & dimensions	
CPU configuration (max)	2	Processor package size	42.5mm x 45mm
Embedded options available	✗	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	144 GB
		Maximum internal memory	147456 MB
		Cache memory	8 MB



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