

## Intel Xeon W5580 processor 3.2 GHz 8 MB Smart Cache Box

**Brand :** Intel

**Product family:** Xeon

**Product code:** BX80602W5580

**Product name :** W5580



Intel® Xeon® Processor W5580  
(8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)



[Intel Xeon W5580 processor 3.2 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 W5580. 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 mm<sup>2</sup>. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 42.5mm x 45mm

Processor		Features	
Processor manufacturer *	Intel	Images Type Map	 
Processor model *	W5580	<b>Processor special features</b>	
Processor base frequency *	3.2 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® 5000 Sequence	Intel® Turbo Boost Technology	1.0
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✗
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	6.4 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.46 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	8 MB	Conflict-Free processor	✗
Processor cache type	Smart Cache	<b>Operational conditions</b>	
Thermal Design Power (TDP)	130 W	Tcase	67 °C
Box *	✓	<b>Technical details</b>	
Cooler included *	✓	Bus bandwidth	6.4
VID Voltage Range	0.75 - 1.35 V	Bus type units	GT/s
Bus type	QPI	Launch date	Q1'09
CPU multiplier (bus/core ratio)	24	Processor cache	8192 KB
Number of QPI links	2	Product type	Processor
Memory bandwidth supported by processor (max)	32 GB/s	Status	Discontinued
Processor system type	DP	Maximum memory	144 GB
Processor ARK ID	37113	Processor brand name	Intel Xeon
<b>Memory</b>		Supported memory types	DDR3-SDRAM
Maximum internal memory supported by processor	144 GB	Last change	63903513
Memory types supported by processor	DDR3-SDRAM	Product family	Intel Xeon Processor 5000 Sequence
Memory channels *	Triple-channel	Bus speed	6.4 GT/s
ECC	✓	<b>Logistics data</b>	
<b>Features</b>		Harmonized System (HS) code	8542310001
Execute Disable Bit	✓		
Idle States	✓		
Market segment	Server		

Features		Packaging data	
Number of Processing Die Transistors	731 M	Package width	44 mm
Processing Die size	263 mm <sup>2</sup>	Package depth	140 mm
CPU configuration (max)	2	Package height	117 mm
Embedded options available	✘	Package weight	102 g
Physical Address Extension (PAE)	40 bit	Package type	Retail box
Export Control Classification Number (ECCN)	3A991.A.1	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	NA	Processor package size	42.5mm x 45mm
		Other features	
		Maximum internal memory	144 GB
		Maximum internal memory	147456 MB



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