

## Intel Xeon W3520 processor 2.66 GHz 8 MB Smart Cache Box

**Brand :** Intel

**Product family:** Xeon

**Product code:** BX80601W3520

**Product name :** W3520


Intel® Xeon® Processor W3520  
(8M Cache, 2.66 GHz, 4.80 GT/s Intel® QPI)

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The Intel® Xeon® processor 3000 sequence-based platforms unleash the computing power of the Intel Xeon processors. The new 45 nm Quad and Dual- Core processors feature enhanced Intel® Core™ microarchitecture that provides your business with exceptional performance and power efficiency at a very affordable cost.

These servers are ideal for small business owners looking for ways to grow business, manage operation more effectively and efficiently, and protect and secure one of their most important assets - information.



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	3A991.A.1
Processor model *	W3520	Commodity Classification Automated Tracking System (CCATS)	NA
Processor base frequency *	2.66 GHz	Images Type Map	
Processor family *	Intel® Xeon® 3000 Sequence	<b>Processor special features</b>	
Processor cores *	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1366 (Socket B)	Intel® Turbo Boost Technology	1.0
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor lithography *	45 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon 3500 Series	Intel Trusted Execution Technology	✗
Processor threads	8	Intel Enhanced Halt State	✓
System bus rate	4.8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	2.93 GHz	Intel 64	✓
Processor cache	8 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Conflict-Free processor	✗
Thermal Design Power (TDP)	130 W	<b>Operational conditions</b>	
Box *	✓	Tcase	67.9 °C
Cooler included *	✓	<b>Technical details</b>	
Processor core voltage (AC)	0.800 - 1.225 V	Bus bandwidth	4.8
VID Voltage Range	0.8 - 1.375 V	Bus type units	GT/s
Bus type	QPI	Launch date	Q1'09
CPU multiplier (bus/core ratio)	20	Processor cache	8192 KB
Number of QPI links	1	Product type	Processor
Memory bandwidth supported by processor (max)	25.6 GB/s	Status	Discontinued
Processor system type	Up	Maximum memory	24 GB
Processor codename	Bloomfield	Processor brand name	Intel Xeon
Processor ARK ID	39718	Supported memory types	DDR3-SDRAM
<b>Memory</b>		Last change	63903513
Maximum internal memory supported by processor	24 GB	Product family	Intel Xeon Processor 3000 Sequence
Memory types supported by processor	DDR3-SDRAM	Bus speed	4.8 GT/s
Memory channels *	Triple-channel		
ECC	✓		
<b>Graphics</b>			
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		

Features		Logistics data	
Idle States	✓	Harmonized System (HS) code	8542310001
Thermal Monitoring Technologies	✗	Packaging data	
Market segment	Server	Package width	99 mm
Number of Processing Die Transistors	731 M	Package depth	186 mm
Processing Die size	263 mm <sup>2</sup>	Package height	169 mm
Supported instruction sets	SSE4.2	Package weight	813 g
CPU configuration (max)	1	Package type	Retail box
Embedded options available	✗	Weight & dimensions	
Physical Address Extension (PAE)	36 bit	Processor package size	42.5mm x 45mm
		Other features	
		Maximum internal memory	24 GB
		Maximum internal memory	24576 MB



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