

Intel Xeon X5660 processor 2.8 GHz 12 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
AT80614005127AA

Product name : X5660

Intel® Xeon® Processor X5660

(12M Cache, 2.80 GHz, 6.40 GT/s Intel® QPI)

Intel Xeon X5660. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: LGA 1366 (Socket B), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 288 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, Physical Address Extension (PAE): 40 bit. 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	<input type="checkbox"/>
Processor model *	X5660	Processor special features	
Processor base frequency *	2.8 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® 5000 Sequence	Intel® Turbo Boost Technology	1.0
Processor cores *	6	Intel® Smart Cache	✓
Processor socket *	LGA 1366 (Socket B)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	Server/workstation	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	32 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Xeon 5600 Series	Intel Enhanced Halt State	✓
Processor threads	12	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	6.4 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.2 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	12 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	Operational conditions	
Thermal Design Power (TDP)	95 W	Tcase	81.3 °C
Box *	✗	Technical details	
Cooler included *	✗	Born on date	Q1'10
VID Voltage Range	0.75 - 1.35 V	Bus bandwidth	6.4
Bus type	QPI	Bus type units	GT/s
CPU multiplier (bus/core ratio)	21	Launch date	Q1'10
Number of QPI links	2	Processor cache	12288 KB
Memory bandwidth supported by processor (max)	32 GB/s	Processor core voltage	0.750-1.350 V
Processor codename	Westmere EP	Product name	Intel Xeon X5660 (12M Cache, 2.80 GHz, 6.40 GT/s Intel QPI)
Processor code	SLBV6	Product type	Processor
Processor ARK ID	47921	Status	Discontinued
Memory		Maximum memory	288 GB
Maximum internal memory supported by processor	288 GB	Processor brand name	Intel Xeon
Memory types supported by processor	DDR3-SDRAM	Supported memory types	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333 MHz	Last change	63903513
Memory channels *	Triple-channel		
ECC	✓		

Graphics		Technical details	
On-board graphics card *	✘	Product family	Intel Xeon Processor 5000 Sequence
Features		Bus speed	6.4 GT/s
Execute Disable Bit	✔	Logistics data	
Idle States	✔	Harmonized System (HS) code	8542310001
Thermal Monitoring Technologies	✘	Packaging data	
Market segment	Server	Package width	44 mm
Supported instruction sets	SSE4.2	Package depth	140 mm
Physical Address Extension (PAE)	✔	Package height	117 mm
CPU configuration (max)	2	Package weight	102 g
Embedded options available	✘	Package type	Retail box
Physical Address Extension (PAE)	40 bit	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	42.5mm x 45mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	288 GB
		Maximum internal memory	294912 MB
		Cache memory	12 MB



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