

## Intel Xeon L5640 processor 2.26 GHz 12 MB Smart Cache Box

Brand : Intel

Product family: Xeon

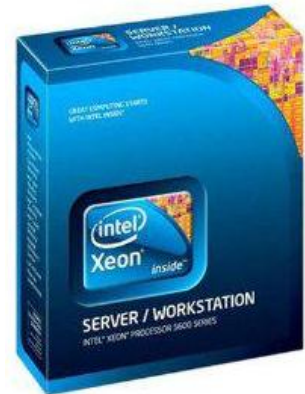
Product code: BX80614L5640

Product name : L5640

Intel® Xeon® Processor L5640

(12M Cache, 2.26 GHz, 5.86 GT/s Intel® QPI)

Intel Xeon L5640. 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	Commodity Classification	
Processor model *	L5640	Automated Tracking System (CCATS)	G077159
Processor base frequency *	2.26 GHz	<b>Processor special features</b>	
Processor family *	Intel® Xeon® 5000 Sequence	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	6	Intel® Turbo Boost Technology	1.0
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	5.86 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	2.8 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	12 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	Conflict-Free processor	✗
L3 cache speed	2.26 GHz	<b>Operational conditions</b>	
Thermal Design Power (TDP)	60 W	Tcase	69.4 °C
Box *	✓	<b>Technical details</b>	
Cooler included *	✓	Bus bandwidth	5.86
VID Voltage Range	0.75 - 1.35 V	Bus type units	GT/s
Stepping	B1	Launch date	Q1'10
Bus type	QPI	Processor cache	12288 KB
CPU multiplier (bus/core ratio)	17	Product type	Processor
Number of QPI links	2	Status	Discontinued
Memory bandwidth supported by processor (max)	32 GB/s	Maximum memory	288 GB
Processor code	SLBV8	Processor brand name	Intel Xeon
Processor ARK ID	47926	Supported memory types	DDR3-SDRAM
<b>Memory</b>		Last change	63903513
Maximum internal memory supported by processor	288 GB	Product family	Intel Xeon Processor 5000 Sequence
Memory types supported by processor	DDR3-SDRAM	Bus speed	5.86 GT/s
Memory clock speeds supported by processor	800,1066,1333 MHz	<b>Logistics data</b>	
Memory channels *	Triple-channel	Harmonized System (HS) code	8542310001
ECC	✓		
<b>Graphics</b>			
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		

Features		Packaging data	
Idle States	✓	Package width	44 mm
Thermal Monitoring Technologies	✗	Package depth	140 mm
Market segment	Server	Package height	117 mm
Supported instruction sets	SSE4.2	Package weight	102 g
CPU configuration (max)	2	Package type	Retail box
Embedded options available	✗	Weight & dimensions	
Physical Address Extension (PAE)	40 bit	Processor package size	42.5mm x 45mm
Export Control Classification Number (ECCN)	5A992C	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	288 GB
		Maximum internal memory	294912 MB



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