



DELL Intel Xeon L5640 processor 2.26 GHz 12 MB Smart Cache

Brand : DELL

Product code: 317-4113

Product name : Intel Xeon L5640

Intel Xeon L5640, 12M Cache, 2.26 GHz, 5.86 GT/s QPI, 60 W TDP, FCLGA1366

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The Intel® Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Features	
Processor model *	L5640	Execute Disable Bit	✓
Processor base frequency *	2.26 GHz	Idle States	✓
Processor family *	Intel® Xeon® 5000 Sequence	Thermal Monitoring Technologies	✗
Processor cores *	6	Market segment	Server
Processor socket *	LGA 1366 (Socket B)	Supported instruction sets	SSE4.2
Component for	Server/workstation	Physical Address Extension (PAE)	✓
Processor lithography *	32 nm	CPU configuration (max)	2
Processor series	Intel Xeon 5600 Series	Embedded options available	✗
Processor threads	12	Physical Address Extension (PAE)	40 bit
System bus rate	5.86 GT/s	Processor special features	
Processor operating modes *	64-bit	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	2.8 GHz	Intel® Turbo Boost Technology	1.0
Processor cache	12 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	60 W	Intel Trusted Execution Technology	✓
Cooler included *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.75 - 1.35 V	Intel Demand Based Switching	✓
Stepping	B1	Intel 64	✓
Bus type	QPI	Intel Virtualization Technology (VT-x)	✓
Number of QPI links	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	32 GB/s	Operational conditions	
Memory		Tcase	69.4 °C
Maximum internal memory supported by processor	288 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333 MHz		
Memory channels *	Triple-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		

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Publication date: 22-DEC-2023. Prints or copies of Information are only valid on the printed Publication date