



DELL Intel Xeon E5645 processor 2.4 GHz 12 MB Smart Cache

Brand : DELL

Product code: 01M26

Product name : Intel Xeon E5645

Intel Xeon E5645, 12M Cache, 2.4 GHz, 80 W TDP, FCLGA1366

DELL Intel Xeon E5645 processor 2.4 GHz 12 MB Smart Cache:

The platform of choice keeps getting better. Designed for dual-processor server and workstation platforms, Intel Xeon processors give you the freedom to focus more on your business, and help you gain greater flexibility and lower costs. Put the Intel Xeon processor's latest platform innovations to work to accomplish more than ever before.

DELL Intel Xeon E5645. 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. Compatibility: PowerEdge C1100 PowerEdge C2100 PowerEdge C6100 PowerEdge C6105 PowerEdge M610 PowerEdge M610x...



Processor		Features	
Processor model *	E5645	Thermal Monitoring Technologies	✗
Processor base frequency *	2.4 GHz	Market segment	Server
Processor family *	Intel® Xeon® 5000 Sequence	Supported instruction sets	SSE4.2
Processor cores *	6	Physical Address Extension (PAE)	✓
Processor socket *	LGA 1366 (Socket B)	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✓
Processor lithography *	32 nm	Physical Address Extension (PAE)	40 bit
Processor series	Intel Xeon 5000 Series	Processor special features	
Processor threads	12	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	5.86 GT/s	Intel® Turbo Boost Technology	1.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	2.67 GHz	Enhanced Intel SpeedStep Technology	✓
Processor cache	12 MB	Intel Trusted Execution Technology	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	80 W	Intel Demand Based Switching	✓
Cooler included *	✗	Intel 64	✓
VID Voltage Range	0.75 - 1.35 V	Intel Virtualization Technology (VT-x)	✓
Stepping	B1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Operational conditions	
Number of QPI links	2	Tcase	76.2 °C
Memory bandwidth supported by processor (max)	32 GB/s	Other features	
Memory		Compatibility PowerEdge C1100 PowerEdge C2100 PowerEdge C6100 PowerEdge C6105 PowerEdge M610 PowerEdge M610x PowerEdge M710 PowerEdge M710HD PowerEdge R410 PowerEdge R510 PowerEdge R610 PowerEdge R710 PowerEdge T610 PowerEdge T710 PowerVault DR4000 Precision Workstation T3500 Precision Workstation T5500 Precision Workstation T7500	
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 *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		



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