

Intel Xeon E5649 processor 2.53 GHz 12 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code: BX80614E5649

Product name : E5649

Intel® Xeon® Processor E5649

(12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)

Intel Xeon E5649. 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, Bandwidth: 26214.4 MB/s. 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 *	E5649	Automated Tracking System (CCATS)	G077159
Processor base frequency *	2.53 GHz	Processor special features	
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)	✓
Processor lithography *	32 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon 5600 Series	Intel Trusted Execution Technology	✓
Processor threads	12	Intel Enhanced Halt State	✓
System bus rate	5.86 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	12 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor front side bus	1333 MHz	Conflict-Free processor	✗
Thermal Design Power (TDP)	80 W	Operational conditions	
Box *	✓	Maximum operating temperature	76.2 °C
Cooler included *	✓	Tcase	76.2 °C
VID Voltage Range	0.75 - 1.35 V	Technical details	
Stepping	B1	Bus bandwidth	5.86
Bus type	QPI	Bus type units	GT/s
CPU multiplier (bus/core ratio)	19	Launch date	Q1'11
Number of QPI links	2	Processor cache	12288 KB
Memory bandwidth supported by processor (max)	32 GB/s	Product type	Processor
Processor code	SLBZ8	Status	Discontinued
Processor ARK ID	52581	Maximum memory	288 GB
Memory		Processor brand name	Intel Xeon
Maximum internal memory supported by processor	288 GB	Supported memory types	DDR3-SDRAM
Memory types supported by processor	DDR3-SDRAM	Last change	63903513
Memory channels *	Triple-channel	Product family	Intel Xeon Processor 5000 Sequence
ECC	✓	Bus speed	5.86 GT/s
Graphics		Logistics data	
On-board graphics card *	✗	Harmonized System (HS) code	8542310001
Features		Packaging data	
Execute Disable Bit	✓	Package width	44 mm
Idle States	✓		
Thermal Monitoring Technologies	✗		
Market segment	Server		
Supported instruction sets	SSE4.2		
Bandwidth	26214.4 MB/s		

Features		Packaging data	
Embedded options available	✘	Package depth	140 mm
Physical Address Extension (PAE)	40 bit	Package height	117 mm
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
		Weight & dimensions	
		Processor package size	42.5mm x 45mm
		Other features	
		Maximum internal memory	288 GB
		Maximum internal memory	294912 MB



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