

Intel Xeon E5-2680 processor 2.7 GHz 20 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8062107184424

Product name : E5-2680




Intel® Xeon® Processor E5-2680

(20M Cache, 2.70 GHz, 8.00 GT/s Intel® QPI)

Intel Xeon E5-2680. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Turbo Boost Technology 2.0 frequency: 3.5 GHz. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2680	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2.7 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E5 Family	Intel Flex Memory Access	✗
Processor cores *	8	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011 (Socket R)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	32 nm	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
Processor series	Intel Xeon E5-2600	Intel Enhanced Halt State	✓
Processor threads	16	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.5 GHz	Intel Identity Protection Technology version	0.00
Processor cache	20 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	130 W	Conflict-Free processor	✗
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗	Operational conditions	
VID Voltage Range	0.6 - 1.35 V	Maximum operating temperature	85 °C
Bus type	QPI	Tcase	85 °C
CPU multiplier (bus/core ratio)	35	Technical details	
Number of QPI links	2	Bus bandwidth	8
Memory bandwidth supported by processor (max)	51.2 GB/s	Bus type units	GT/s
Processor ARK ID	64583	Launch date	Q1'12
Memory		Processor cache	20480 KB
Maximum internal memory supported by processor	750 GB	Product type	Processor
Memory types supported by processor	DDR3-SDRAM	Status	Discontinued
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Maximum memory	384 GB
Memory channels *	Quad-channel	Processor brand name	Intel Xeon
ECC	✓	Supported memory types	DDR3-SDRAM
Features		Last change	63903513
Execute Disable Bit	✓	Product family	Intel Xeon Processor E5 Family
Idle States	✓	Bus speed	8 GT/s
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		

Features		Logistics data	
PCI Express slots version	3.0	Harmonized System (HS) code	8542310001
Supported instruction sets	AVX	Packaging data	
Scalability	2S	Package type	Retail box
CPU configuration (max)	2	Weight & dimensions	
Embedded options available	✘	Processor package size	52.5mm x 45mm
PCI Express CEM revision	3.0	Other features	
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	384 GB
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	393216 MB
Images Type Map			



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