

## Intel Xeon E5-2687W processor 3.1 GHz 20 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8062107184308

**Product name :** E5-2687W



Intel® Xeon® Processor E5-2687W

(20M Cache, 3.10 GHz, 8.00 GT/s Intel® QPI)

Intel Xeon E5-2687W. 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: 3.8 GHz. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2687W	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	3.1 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	3.8 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	3.8 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)	150 W	Conflict-Free processor	✗
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗	<b>Operational conditions</b>	
VID Voltage Range	0.6 - 1.35 V	Maximum operating temperature	84.8 °C
Bus type	QPI	Tcase	67 °C
CPU multiplier (bus/core ratio)	38	<b>Technical details</b>	
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	64582	Launch date	Q1'12
<b>Memory</b>		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	256 GB
Memory channels *	Quad-channel	Processor brand name	Intel Xeon
ECC	✓	Supported memory types	DDR3-SDRAM
<b>Features</b>		Last change	63903513
Execute Disable Bit	✓	Product family	Intel Xeon Processor E5 Family
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

Features		Technical details	
Maximum number of PCI Express lanes	40	Bus speed	8 GT/s
PCI Express slots version	3.0	<b>Logistics data</b>	
Supported instruction sets	AVX	Harmonized System (HS) code	8542310001
Scalability	2S	<b>Packaging data</b>	
CPU configuration (max)	2	Package type	Retail box
Embedded options available	✘	<b>Weight &amp; dimensions</b>	
PCI Express CEM revision	3.0	Processor package size	52.5mm x 45mm
Export Control Classification Number (ECCN)	5A992C	<b>Other features</b>	
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	256 GB
Images Type Map	✘	Maximum internal memory	262144 MB

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