

Intel Xeon E7-2870V2 processor 2.3 GHz 30 MB L3

Brand : Intel **Product family:** Xeon **Product code:** CM8063601273406

Product name : E7-2870V2

Intel® Xeon® Processor E7-2870 v2
(30M Cache, 2.30 GHz)

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Increase your memory capacity—in scalable two-, four-, and eight-socket native configurations—for complex, data-demanding workloads such as in-memory databases and real-time business analytics.

Industry-leading 22-nm technology helps deliver impressive performance gains over the previous generation—and a range of features help improve virtualization, reduce latency, and speed up encryption.

Help increase data throughput, reduce I/O latency, and boost storage and networking performance. Discover new processor features and benefits, including support for PCI Express 3.0 to help further reduce latency and power consumption.

Intel® Run Sure Technology supports the Intel® Xeon® processor E7 v2 family with an extensive set of reliability, availability, and serviceability (RAS) features. See how it protects systems against fatal errors and helps ensure data integrity for critical workloads.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E7-2870V2	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.3 GHz	Intel® Smart Cache	✓
Processor family *	Intel® Xeon® E7 V2 Family	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	15	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2011 (Socket R)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Turbo Boost Technology 2.0 frequency	2.9 GHz
Processor lithography *	22 nm	Intel® Transactional Synchronization Extensions	✗
Processor series	Intel Xeon E7-2800 v2	Intel Enhanced Halt State	✓
Processor threads	30	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel® Secure Key	✓
Processor operating modes *	64-bit	Intel TSX-NI	✗
Processor boost frequency	2.9 GHz	Intel® OS Guard	✓
Processor cache	30 MB	Intel Instruction Replay Technology	✗
Processor cache type	L3	Intel 64	✓
L3 cache speed	2.3 GHz	Intel Instruction Replay Technology version	0.00
Thermal Design Power (TDP)	130 W	Intel Secure Key Technology version	1.00
Box *	✗	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible chipsets	Intel® C602]	Intel TSX-NI version	0.00
Stepping	D1	Conflict-Free processor	✓
Bus type	QPI		
Number of QPI links	3		
Memory bandwidth supported by processor (max)	85 GB/s		
Processor codename	Ivy Bridge		
Processor code	SR1GR		
Processor ARK ID	75240		
Memory		Operational conditions	
Maximum internal memory supported by processor	1.54 TB	Tcase	73 °C
Memory types supported by processor	DDR3-SDRAM	Technical details	
		Born on date	Q1'14

Memory		Technical details	
Memory clock speeds supported by processor	1066,1333,1600 MHz	Bus bandwidth	8
Memory channels *	Quad-channel	Bus type units	GT/s
ECC	✓	Launch date	Q1'14
Graphics		Processor cache	30720 KB
On-board graphics card *	✗	Product name	Intel Xeon E7-2870 v2 (30M Cache, 2.30 GHz)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Launched
Idle States	✓	Maximum memory	1.54 TB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon v2
Market segment	Server	Supported memory types	DDR3-SDRAM
Maximum number of PCI Express lanes	32	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E7 v2 Family
PCI Express configurations	x4, x8, x16	Bus speed	8 GT/s
Supported instruction sets	AVX	Supply status	Discontinued
Scalability	S2S	Servicing status	End of Servicing Lifetime
Physical Address Extension (PAE)	✓	End of servicing updates date	Tuesday, June 30, 2020
CPU configuration (max)	2	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	8542310001
Physical Address Extension (PAE)	46 bit	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	52mm x 45mm
Export Control Classification Number (ECCN)	5A992C	Other features	
Commodity Classification Automated Tracking System (CCATS)	G077159	Intel® Virtualization Technology (Intel® VT)	VT-d
		Maximum internal memory	1.5 TB
		Maximum internal memory	1572864 MB
		Cache memory	30 MB

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