

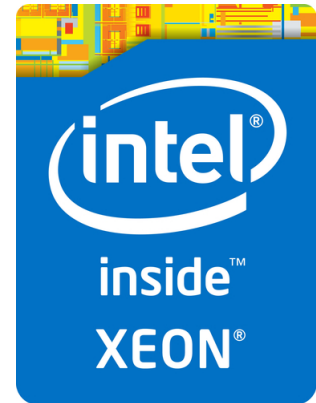
## Intel Xeon E7-4809V3 processor 2 GHz 20 MB Last Level Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8064501551526

**Product name :** E7-4809V3



Intel® Xeon® Processor E7-4809 v3  
(20M Cache, 2.00 GHz)

Intel Xeon E7-4809V3. Processor family: Intel® Xeon® E7 v3, Processor socket: LGA 2011 (Socket R), Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.54 TB, Memory types supported by processor: DDR4-SDRAM, DDR3-SDRAM. Market segment: Server, PCI Express configurations: x4, x8, x16, Supported instruction sets: AVX 2.0. Processor package size: 52mm x 45mm. Intel® Virtualization Technology (Intel® VT): VT-x, VT-d, Maximum internal memory: 1.5 TB, Maximum internal memory: 1572864 MB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E7-4809V3	Intel® Turbo Boost Technology	✗
Processor base frequency *	2 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Xeon® E7 v3	Enhanced Intel SpeedStep Technology	✓
Processor cores *	8	Intel Trusted Execution Technology	✓
Processor socket *	LGA 2011 (Socket R)	Intel® Transactional Synchronization Extensions	✓
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Xeon E7-4800 v3	Intel® Secure Key	✓
Processor threads	16	Intel TSX-NI	✓
System bus rate	6.4 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel Instruction Replay Technology	✗
Processor cache	20 MB	Intel 64	✓
Processor cache type	Last Level Cache	Intel Instruction Replay Technology version	0.00
Thermal Design Power (TDP)	115 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)	✓
Stepping	E0	Intel TSX-NI version	1.00
Bus type	QPI	Conflict-Free processor	✓
Number of QPI links	3		
Memory bandwidth supported by processor (max)	85 GB/s		
Processor codename	Haswell		
Processor code	SR223		
Processor ARK ID	84676		
Memory		Operational conditions	
Maximum internal memory supported by processor	1.54 TB	Tcase	70 °C

Memory		Technical details	
Memory types supported by processor	DDR4-SDRAM, DDR3-SDRAM	Born on date	Q2'15
Memory clock speeds supported by processor	1066,1333,1600,1866 MHz	Bus bandwidth	6.4
Memory channels *	Quad-channel	Bus type units	GT/s
ECC	✓	Launch date	Q2'15
<b>Graphics</b>		Processor cache	20480 KB
On-board graphics card *	✗	Product name	Intel Xeon E7-4809 v3 (20M Cache, 2.00 GHz)
On-board graphics card model *	Not available	Product type	Processor
<b>Features</b>		Status	Launched
Execute Disable Bit	✓	Maximum memory	1.54 TB
Idle States	✓	Processor brand name	Intel Xeon v2
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM, DDR3-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	32	Product family	Intel Xeon Processor E7 v3 Family
PCI Express slots version	3.0	Bus speed	6.4 GT/s
PCI Express configurations	x4, x8, x16	Servicing status	End of Servicing Updates
Supported instruction sets	AVX 2.0	End of servicing updates date	Friday, December 31, 2021
Scalability	S4S	<b>Logistics data</b>	
Physical Address Extension (PAE)	✓	Harmonized System (HS) code	8542310001
CPU configuration (max)	4	<b>Weight &amp; dimensions</b>	
Embedded options available	✗	Processor package size	52mm x 45mm
Physical Address Extension (PAE)	46 bit	<b>Other features</b>	
PCI Express CEM revision	3.0	Intel® Virtualization Technology (Intel® VT)	VT-x, VT-d
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	1.5 TB
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	1572864 MB
		Cache memory	20 MB

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