

Intel Xeon E7-8890V4 processor 2.2 GHz 60 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8066902885200

Product name : E7-8890V4



Intel® Xeon® Processor E7-8890 v4
(60M Cache, 2.20 GHz)

Intel Xeon E7-8890V4. Processor family: Intel Xeon E7 v4, Processor socket: LGA 2011 (Socket R), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 3.07 TB, Memory types supported by processor: DDR4-SDRAM, DDR3-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 1x4, 1x8, Supported instruction sets: AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.4 GHz. Processor package size: 45mm x 52.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E7-8890V4	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.2 GHz	Intel Flex Memory Access	✗
Processor family *	Intel Xeon E7 v4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	24	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	3.4 GHz
Processor lithography *	14 nm	Intel® Transactional Synchronization Extensions	✓
Processor series	Intel Xeon E7-8800 v4	Intel Enhanced Halt State	✓
Processor threads	48	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	9.6 GT/s	Intel Demand Based Switching	✗
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	3.4 GHz	Intel TSX-NI	✓
Processor cache	60 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel Instruction Replay Technology	✗
Thermal Design Power (TDP)	165 W	Intel 64	✓
Box *	✗	Intel Instruction Replay Technology version	0.00
Cooler included *	✗	Intel Secure Key Technology version	1.00
Stepping	B0	Intel Virtualization Technology (VT-x)	✓
Bus type	QPI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of QPI links	3	Intel TSX-NI version	1.00
Memory bandwidth supported by processor (max)	85 GB/s	Conflict-Free processor	✓
Processor codename	Broadwell		
Processor code	SR2SS		
Processor ARK ID	93790		
Memory			
Maximum internal memory supported by processor	3.07 TB		

Memory		Processor special features	
Memory types supported by processor	DDR4-SDRAM, DDR3-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	1066,1333,1600,1866 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	79 °C
ECC	✓	Technical details	
Graphics		Bus bandwidth	9.6
On-board graphics card *	✗	Bus type units	GT/s
Features		Launch date	Q2'16
Execute Disable Bit	✓	Processor cache	61440 KB
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✓	Status	Launched
Market segment	Server	Processor brand name	Intel Xeon
Maximum number of PCI Express lanes	32	Supported memory types	DDR4-SDRAM, DDR3-SDRAM
PCI Express slots version	3.0	Last change	63903513
PCI Express configurations	1x16, 1x4, 1x8	Product family	Intel Xeon Processor E7 v4 Family
Supported instruction sets	AVX 2.0	Bus speed	9.6 GT/s
Scalability	S8S	Servicing status	End of Servicing Updates
Physical Address Extension (PAE)	✓	End of servicing updates date	Thursday, June 30, 2022
CPU configuration (max)	8	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	45mm x 52.5mm
Export Control Classification Number (ECCN)	5A992C	Other features	
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	3 TB
		Maximum internal memory	3145728 MB



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