

Intel Xeon E5-2643V4 processor 3.4 GHz 20 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8066002041500

Product name : E5-2643V4

Intel® Xeon® Processor E5-2643 v4
(20M Cache, 3.40 GHz)

Intel Xeon E5-2643V4. Processor family: Intel® Xeon® E5 v4, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.54 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Intel® Turbo Boost Technology 2.0 frequency: 3.7 GHz. Processor package size: 45mm x 52.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E5-2643V4	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	3.4 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® E5 v4	Intel® Turbo Boost Technology 2.0 frequency	3.7 GHz
Processor cores *	6	Intel® Transactional Synchronization Extensions	✓
Processor socket *	LGA 2011-v3	Intel Enhanced Halt State	✓
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	14 nm	Intel Demand Based Switching	✓
Processor series	Intel Xeon E5-2600 v4	Intel® Secure Key	✓
Processor threads	12	Intel TSX-NI	✓
System bus rate	9.6 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.7 GHz	Intel Identity Protection Technology version	0.00
Processor cache	20 MB	Intel Secure Key Technology version	1.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	135 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Box *	✗	Intel TSX-NI version	1.00
Cooler included *	✗	Conflict-Free processor	✓
VID Voltage Range	0 - 0 V	Intel® vPro™ Platform Eligibility	✓
Stepping	R0		
Bus type	QPI		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	76.8 GB/s		
Processor codename	Broadwell		
Processor code	SR2P4		
Processor ARK ID	92989		
Memory		Operational conditions	
Maximum internal memory supported by processor	1.54 TB	Tcase	75 °C
		Technical details	
		Bus bandwidth	9.6



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