

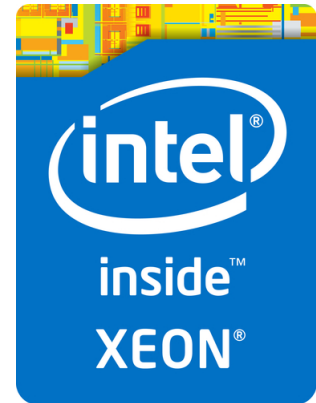
Intel Xeon E5-1650V3 processor 3.5 GHz 15 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8064401548111

Product name : E5-1650V3



Intel® Xeon® Processor E5-1650 v3
(15M Cache, 3.50 GHz)

Intel Xeon E5-1650V3. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 1S. Intel® Turbo Boost Technology 2.0 frequency: 3.8 GHz. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	E5-1650V3	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.5 GHz	Intel Flex Memory Access	✗
Processor family *	Intel Xeon E5 v3	Intel® Smart Cache	✓
Processor cores *	6	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011-v3	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel® Turbo Boost Technology 2.0 frequency	3.8 GHz
Processor series	Intel Xeon E5-1600 v3	Intel® Transactional Synchronization Extensions	✗
Processor threads	12	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.8 GHz	Intel Demand Based Switching	✓
Processor cache	15 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel TSX-NI	✗
L3 cache speed	3.5 GHz	Intel® OS Guard	✓
Thermal Design Power (TDP)	140 W	Intel 64	✓
Box *	✗	Intel Identity Protection Technology version	1.00
Cooler included *	✗	Intel Secure Key Technology version	1.00
VID Voltage Range	0.65 - 1.3 V	Intel Virtualization Technology (VT-x)	✓
Stepping	R2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Intel TSX-NI version	0.00
Memory bandwidth supported by processor (max)	68 GB/s		
Processor codename	Haswell		
Processor code	SR20J		
Processor ARK ID	82765		

Memory		Processor special features	
Maximum internal memory supported by processor	768 GB	Conflict-Free processor	✘
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✔
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	66.7 °C
ECC	✔	Technical details	
Graphics		Bus type units	GT/s
On-board graphics card *	✘	Launch date	Q3'14
Features		Processor cache	15360 KB
Execute Disable Bit	✔	Product type	Processor
Idle States	✔	Status	Discontinued
Thermal Monitoring Technologies	✔	Maximum memory	768 GB
Market segment	Server	Processor brand name	Intel Xeon v2
Maximum number of PCI Express lanes	40	Supported memory types	DDR4-SDRAM
PCI Express slots version	3.0	Last change	63903513
Supported instruction sets	AVX 2.0	Product family	Intel Xeon Processor E5 v3 Family
Scalability	1S	Bus speed	0 GT/s
Physical Address Extension (PAE)	✔	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	85423119
Embedded options available	✘	Packaging data	
Physical Address Extension (PAE)	46 bit	Package width	44 mm
PCI Express CEM revision	3.0	Package depth	140 mm
Export Control Classification Number (ECCN)	5A992C	Package height	117 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔	Processor package size	52.5mm x 45mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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