

Intel Xeon E3-1271V3 processor 3.6 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80646E31271V3

Product name : E3-1271V3



Intel® Xeon® Processor E3-1271 v3
(8M Cache, 3.60 GHz)

Intel Xeon E3-1271V3. Processor family: Intel® Xeon® E3 V3 Family, Processor socket: LGA 1150 (Socket H3), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM, DDR3L-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4 GHz. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Quick Sync Video Technology	✓
Processor model *	E3-1271V3	Intel Fast Memory Access	✓
Processor base frequency *	3.6 GHz	Intel Flex Memory Access	✓
Processor family *	Intel® Xeon® E3 V3 Family	Intel® Smart Cache	✓
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 1150 (Socket H3)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel I/O Acceleration Technology	✓
Processor series	Intel Xeon E3-1200 v3	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor threads	8	Intel® Transactional Synchronization Extensions	✓
System bus rate	5 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	4 GHz	Intel® Secure Key	✓
Processor cache	8 MB	Intel TSX-NI	✓
Processor cache type	Smart Cache	Intel Stable Image Platform Program (SIPP)	✓
Thermal Design Power (TDP)	80 W	Intel® OS Guard	✓
Box *	✓	Intel 64	✓
Cooler included *	✓	Intel Identity Protection Technology version	1.00
Stepping	C0	Intel Secure Key Technology version	1.00
Bus type	DMI2	Intel Stable Image Platform Program (SIPP) version	1.00
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor codename	Haswell	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	80908	Intel TSX-NI version	1.00
Memory		Conflict-Free processor	✗
Maximum internal memory supported by processor	32 GB	Intel® vPro™ Platform Eligibility	✓
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Technical details	
Memory clock speeds supported by processor	1333,1600 MHz	Born on date	Q2'14
Memory channels *	Dual-channel	Bus bandwidth	5
ECC	✓	Bus type units	GT/s
Graphics		Launch date	Q2'14
On-board graphics card *	✗	Processor cache	8192 KB
On-board graphics card model *	Not available	Product name	Intel Xeon E3-1271 v3 (8M Cache, 3.60 GHz)
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		

Features		Technical details	
Market segment	Server	Product type	Processor
Maximum number of PCI Express lanes	16	Status	Discontinued
PCI Express slots version	3.0	Maximum memory	32 GB
PCI Express configurations	1x16, 2x8, 1x8+2x4	Processor brand name	Intel Xeon v2
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Scalability	1S	Last change	63903513
CPU configuration (max)	1	Product family	Intel Xeon Processor E3 v3 Family
Embedded options available	✗	Bus speed	5 GT/s
Graphics & IMC lithography	22 nm	Logistics data	
Thermal solution specification	PCG 2013D	Harmonized System (HS) code	8542310001
PCI Express CEM revision	3.0	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
Processor special features		Processor package size	37.5 x 37.5 mm
Intel® Anti-Theft Technology (Intel® AT)	✓	Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel® Identity Protection Technology (Intel® IPT)	✓	Maximum internal memory	32 GB
Intel® Turbo Boost Technology	2.0	Maximum internal memory	32768 MB
		Cache memory	8 MB



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