![intel]

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 manufacturer *	Intel
Processor model *	E3-1271V3
Processor base frequency *	3.6 GHz
Processor family *	Intel® Xeon® E3 V3 Family
Processor cores *	4
Processor socket *	LGA 1150 (Socket H3)
Component for	Server/workstation
Processor lithography *	22 nm
Processor series	Intel Xeon E3-1200 v3
Processor threads	8
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	4 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	80 W
Box *	✔
Cooler included *	✔
Stepping	C0
Bus type	DMI2
Memory bandwidth supported by processor (max)	25.6 GB/s
Processor codename	Haswell
Processor ARK ID	80908

Memory

Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM
Memory clock speeds supported by processor	1333,1600 MHz
Memory channels *	Dual-channel
ECC	✔

Graphics

On-board graphics card *	✘
On-board graphics card model *	Not available

Features

Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔

Processor special features

Intel® Quick Sync Video Technology	✔
Intel Fast Memory Access	✔
Intel Flex Memory Access	✔
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel I/O Acceleration Technology	✔
Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Intel® Transactional Synchronization Extensions	✔
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel TSX-NI	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® OS Guard	✔
Intel 64	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel TSX-NI version	1.00
Conflict-Free processor	✘
Intel® vPro™ Platform Eligibility	✔

Technical details

Born on date	Q2'14
Bus bandwidth	5
Bus type units	GT/s
Launch date	Q2'14
Processor cache	8192 KB
Product name	Intel Xeon E3-1271 v3 (8M Cache, 3.60 GHz)

Features

Market segment	Server
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Scalability	1S
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Thermal solution specification	PCG 2013D
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Processor special features

Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Turbo Boost Technology	2.0

Technical details

Product type	Processor
Status	Discontinued
Maximum memory	32 GB
Processor brand name	Intel Xeon v2
Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Last change	63903513
Product family	Intel Xeon Processor E3 v3 Family
Bus speed	5 GT/s

Logistics data

Harmonized System (HS) code	8542310001

Packaging data

Package type	Retail box

Weight & dimensions

Processor package size	37.5 x 37.5 mm

Other features

Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Maximum internal memory	32 GB
Maximum internal memory	32768 MB
Cache memory	8 MB

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