

Intel Xeon E3-1270V2 processor 3.5 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80637E31270V2

Product name : E3-1270V2

Intel® Xeon® Processor E3-1270 v2
(8M Cache, 3.50 GHz)

Intel Xeon E3-1270V2. Processor family: Intel® Xeon® E3 V2 Family, Processor socket: LGA 1155 (Socket H2), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 1x4, 2x8, 1x8, 3x4, Supported instruction sets: SSE4.1, SSE4.2, AVX. Intel® Turbo Boost Technology 2.0 frequency: 3.9 GHz. Package width: 81 mm, Package depth: 114 mm, Package height: 102 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Insider™	✗
Processor model *	E3-1270V2	Intel Fast Memory Access	✓
Processor base frequency *	3.5 GHz	Intel Flex Memory Access	✓
Processor family *	Intel® Xeon® E3 V2 Family	Intel® Smart Cache	✓
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 1155 (Socket H2)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel® Turbo Boost Technology 2.0 frequency	3.9 GHz
Processor series	Intel Xeon E3-1200 v2	Intel® Transactional Synchronization Extensions	✗
Processor threads	8	Intel Enhanced Halt State	✓
System bus rate	5 GT/s	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.9 GHz	Intel Demand Based Switching	✓
Processor cache	8 MB	Intel TSX-NI	✗
Processor cache type	Smart Cache	Intel Clear Video Technology	✗
L3 cache speed	3.5 GHz	Intel 64	✓
Thermal Design Power (TDP)	69 W	Intel Identity Protection Technology version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	E1	Intel TSX-NI version	0.00
Bus type	DMI	Conflict-Free processor	✗
CPU multiplier (bus/core ratio)	35		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Ivy Bridge		
Processor code	SR0P6		
Processor ARK ID	65727		

Memory		Processor special features	
Maximum internal memory supported by processor	32 GB	Intel® vPro™ Platform Eligibility	✓
Memory types supported by processor	DDR3-SDRAM	Technical details	
Memory clock speeds supported by processor	1333,1600 MHz	Born on date	Q2'12
Memory channels *	Dual-channel	Bus bandwidth	5
ECC	✓	Bus type units	GT/s
Features		Launch date	Q2'12
Execute Disable Bit	✓	Processor cache	8192 KB
Idle States	✓	Product name	Intel Xeon E3-1270 v2 (8M Cache, 3.50 GHz)
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Server	Status	Discontinued
PCI Express slots version	3.0	Maximum memory	32.77 GB
PCI Express configurations	1x16, 1x4, 2x8, 1x8, 3x4	Processor brand name	Intel Xeon v2
Supported instruction sets	SSE4.1, SSE4.2, AVX	Supported memory types	DDR3-SDRAM
CPU configuration (max)	1	Last change	63903513
Embedded options available	✗	Product family	Intel Xeon Processor E3 v2 Family
PCI Express CEM revision	3.0	Bus speed	5 GT/s
Export Control Classification Number (ECCN)	5A992C	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Harmonized System (HS) code	8542310001
Processor special features		Packaging data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package width	81 mm
Intel® Identity Protection Technology (Intel® IPT)	✓	Package depth	114 mm
Intel® Turbo Boost Technology	2.0	Package height	102 mm
Intel® InTru™ 3D Technology	✗	Package weight	394 g
Intel® Wireless Display (Intel® WiDi)	✗	Package type	Retail box
Intel FDI Technology	✗	Weight & dimensions	
Intel® Clear Video HD Technology (Intel® CVT HD)	✗	Processor package size	37.5 x 37.5 mm
Intel Dual Display Capable Technology	✗	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Compatibility	Intel S1200KP, S1200BTSR, S1200KPR, S1200BTLR, R1304BTLSHBNR, R1304BTLSFANR, R1304BTSSFANR, P4304BTLSHCNR, P4304BTLSFCCR, P4304BTSSFCCR
		Maximum internal memory	32.77 GB
		Maximum internal memory	33554 MB
		Cache memory	8 MB



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