

Intel Xeon E3-1270V5 processor 3.6 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80662E31270V5

Product name : E3-1270V5

Intel® Xeon® Processor E3-1270 v5
(8M Cache, 3.60 GHz)

Intel Xeon E3-1270V5. Processor family: Intel® Xeon® E3 v5, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-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 width: 70 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E3-1270V5	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	3.6 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® E3 v5	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cores *	4	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor socket *	LGA 1151 (Socket H4)	Intel® Transactional Synchronization Extensions	✓
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	14 nm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor series	Intel Xeon E3-1200 v5	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	8	Intel® Secure Key	✓
System bus rate	8 GT/s	Intel TSX-NI	✓
Processor operating modes *	64-bit	Intel® OS Guard	✓
Processor boost frequency	4 GHz	Intel Clear Video Technology	✗
Processor cache	8 MB	Intel Software Guard Extensions (Intel SGX)	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	80 W	Intel Secure Key Technology version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
VID Voltage Range	0.55 - 1.52 V		
Stepping	R0		
Bus type	DMI3		
Memory bandwidth supported by processor (max)	34.1 GB/s		
Processor codename	Skylake		
Processor code	SR2LF		
Processor ARK ID	88174		

Memory		Processor special features	
Maximum internal memory supported by processor	64 GB	Intel TSX-NI version	1.00
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Conflict-Free processor	✓
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz	Intel® Boot Guard	✓
Memory voltage supported by processor	1.35 V	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Dual-channel	Technical details	
ECC	✓	Bus bandwidth	8
Graphics		Bus type units	GT/s
On-board graphics card 4K support	✗	Launch date	Q4'15
Features		Maximum resolution & refresh rate (DisplayPort)	N/A
Execute Disable Bit	✓	Maximum resolution & refresh rate (HDMI)	N/A
Idle States	✓	Maximum resolution & refresh rate (Integrated Flat Panel)	N/A
Thermal Monitoring Technologies	✓	Maximum resolution & refresh rate (VGA)	N/A
Market segment	Server	Processor cache	8192 KB
Maximum number of PCI Express lanes	16	Product type	Processor
PCI Express slots version	3.0	Status	Discontinued
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum memory	64 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor brand name	Intel Xeon
Scalability	1S	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
CPU configuration (max)	1	Last change	63903513
Embedded options available	✗	Maximum resolution (WiDi)	N/A
Graphics & IMC lithography	14 nm	Product family	Intel Xeon Processor E3 v5 Family
PCI Express CEM revision	3.0	Bus speed	8 GT/s
Export Control Classification Number (ECCN)	5A992C	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Harmonized System (HS) code	85423119
Processor special features		Packaging data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package width	70 mm
Intel® Turbo Boost Technology	2.0	Package depth	116 mm
Intel® Quick Sync Video Technology	✗	Package height	101 mm
Intel® InTru™ 3D Technology	✗	Package weight	373 g
Intel® Wireless Display (Intel® WiDi)	✗	Package type	Retail box
Intel® Clear Video HD Technology (Intel® CVT HD)	✗	Weight & dimensions	
Intel® Insider™	✓	Processor package size	37.5 x 37.5 mm
		Other features	
		Compatibility	Intel Server System R1304SPOSHBN Intel Server System R1304SPOSHOR Intel Server System R1208SPOSHOR Intel Server Board S1200SPL Intel Server Board S1200SPS Intel Server Board S1200SPO
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	N/A



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