

## Intel Xeon E3-1270 processor 3.4 GHz 8 MB Smart Cache Box

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
BX80623E31270

**Product name :** E3-1270

Intel® Xeon® Processor E3-1270  
(8M Cache, 3.40 GHz)

Intel Xeon E3-1270. Processor family: Intel® Xeon® E3 Family, Processor socket: LGA 1155 (Socket H2), Processor lithography: 32 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: SSE4.1, SSE4.2, AVX, Bandwidth: 21000 MB/s. Intel® Turbo Boost Technology 2.0 frequency: 3.8 GHz. Package width: 81 mm, Package depth: 114 mm, Package height: 102 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® InTru™ 3D Technology	✗
Processor model *	E3-1270	Intel® Wireless Display (Intel® WiDi)	✗
Processor base frequency *	3.4 GHz	Intel FDI Technology	✗
Processor family *	Intel® Xeon® E3 Family	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor cores *	4	Intel Fast Memory Access	✓
Processor socket *	LGA 1155 (Socket H2)	Intel Flex Memory Access	✓
Component for	Server/workstation	Intel® Smart Cache	✓
Processor lithography *	32 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Xeon E3-1200	Enhanced Intel SpeedStep Technology	✓
Processor threads	8	Intel Trusted Execution Technology	✓
System bus rate	5 GT/s	Intel® Turbo Boost Technology 2.0 frequency	3.8 GHz
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	3.8 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	8 MB	Intel Demand Based Switching	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	80 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	D2	Intel® vPro™ Platform Eligibility	✓
Bus type	DMI		
CPU multiplier (bus/core ratio)	3.4	Operational conditions	
Memory bandwidth supported by processor (max)	21 GB/s	Tcase	69.1 °C
Processor codename	Sandy Bridge	Technical details	
Processor code	SR00N	Born on date	Q2'11
Processor ARK ID	52276	Bus bandwidth	5
		Bus type units	GT/s
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	1066,1333 MHz		

Memory		Technical details	
Memory channels *	Dual-channel	Launch date	Q2'11
ECC	✓	Processor cache	8192 KB
Graphics		Product name	Intel Xeon E3-1270 (8M Cache, 3.40 GHz)
On-board graphics card *	✗	Product type	Processor
Features		Status	Discontinued
Execute Disable Bit	✓	Maximum memory	32 GB
Idle States	✓	Processor brand name	Intel Xeon
Thermal Monitoring Technologies	✓	Supported memory types	DDR3-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	20	Product family	Intel Xeon Processor E3 Family
PCI Express slots version	2.0	Bus speed	5 GT/s
Supported instruction sets	SSE4.1, SSE4.2, AVX	Logistics data	
Bandwidth	21000 MB/s	Harmonized System (HS) code	8542310001
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package width	81 mm
PCI Express CEM revision	2.0	Package depth	114 mm
Export Control Classification Number (ECCN)	5A992C	Package height	102 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
Images Type Map	✗	Weight & dimensions	
Processor special features		Processor package size	37.5 x 37.5 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Other features	
Intel® Identity Protection Technology (Intel® IPT)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel® Turbo Boost Technology	2.0	Compatibility	S1200BTL S1200BTS S1200KP S1200BTSR S1200KPR S1200BTLR R1304BTLSHBN R1304BTLSFAN R1304BTSSFAN P4304BTLSFAN P4304BTLSHCN P4304BTSSFAN R1304BTLSHBNR R1304BTLSFANR R1304BTSSFANR P4304BTLSHCNR P4304BTLSFANR P4304BTSSFANR
Intel® Quick Sync Video Technology	✗	Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Cache memory	8 MB



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