

Intel Xeon E3-1275 processor 3.4 GHz 8 MB Smart Cache Box

Brand : Intel **Product family:** Xeon **Product code:** BX80623E31275

Product name: E3-1275

Intel® Xeon® Processor E3-1275

(8M Cache, 3.40 GHz)

Intel Xeon E3-1275. 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. On-board graphics card model: Intel® HD Graphics P3000, On-board graphics card base frequency: 850 MHz, On-board graphics card dynamic frequency (max): 1350 MHz. 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







Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Quick Sync Video Technology	√
Processor model *	E3-1275	Intel® InTru™ 3D Technology	1
Processor base frequency *	3.4 GHz	Intel® Wireless Display (Intel®	x
Processor family *	Intel® Xeon® E3 Family	WiDi)	^
Processor cores *	4	Intel FDI Technology	✓
Processor socket *	LGA 1155 (Socket H2)	Intel® Clear Video HD Technology (Intel® CVT HD)	√
Component for	Server/workstation	Intel Dual Display Capable	
Processor lithography *	32 nm	Technology	1
Processor series	Intel Xeon E3-1200	Intel Fast Memory Access	✓
Processor threads	8	Intel Flex Memory Access	✓
System bus rate	5 GT/s	Intel® Smart Cache	√
Processor operating modes * Processor boost frequency	64-bit 3.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	8 MB	Enhanced Intel SpeedStep	1
Processor cache type	Smart Cache	Technology	•
Thermal Design Power (TDP)	95 W	Intel Trusted Execution Technology	✓
Box *	✓	Intel® Turbo Boost Technology 2.0	3.8 GHz
Cooler included *	✓	frequency Intel Enhanced Halt State	√
Stepping	D2	Intel VT-x with Extended Page	•
Bus type	DMI	Tables (EPT)	1
CPU multiplier (bus/core ratio)	3.4	Intel Demand Based Switching	✓
Memory bandwidth supported by processor (max)	21 GB/s	Intel 64	✓
Processor codename	Sandy Bridge	Intel Identity Protection Technology version	1.00
Processor code	SR00P	Intel Virtualization Technology (VT-	
Processor ARK ID	52277	x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	32 GB	Intel® vPro™ Platform Eligibility	✓
Memory types supported by processor	DDR3-SDRAM	Operational conditions	
Memory clock speeds supported by processor	1066,1333 MHz	Tcase	72.6 °C

Memory		Technical details	
Memory channels *	Dual-channel	Born on date	02'11
ECC	✓	Bus bandwidth	5
	•	Bus type units	GT/s
Graphics		Graphics max dynamic frequency	1.35 GHz
On-board graphics card *	1	Launch date	Q2'11
On-board graphics card model *	Intel® HD Graphics P3000	Processor cache	8192 KB
On-board graphics card base frequency	850 MHz	Product name	Intel Xeon E3-1275 (8M Cache, 3.40 GHz)
On-board graphics card dynamic frequency (max)	1350 MHz	Product type	Processor
Number of displays supported (on-	2	Status	Discontinued
board graphics)	-	Maximum memory	32 GB
Features		Processor brand name	Intel Xeon
Execute Disable Bit	1	Supported memory types	DDR3-SDRAM
Idle States	1	Last change	63903513
Thermal Monitoring Technologies	1	Product family	Intel Xeon Processor E3 Family
Market segment	Server	Bus speed	5 GT/s
Maximum number of PCI Express lanes	20	Logistics data Harmonized System (HS) code	8542310001
PCI Express slots version	2.0	,	0342310001
Supported instruction sets	SSE4.1, SSE4.2, AVX	Packaging data	
Bandwidth	21000 MB/s	Package width	157 mm
CPU configuration (max)	1	Package depth	414 mm
Embedded options available	✓	Package height	148 mm
PCI Express CEM revision	2.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	27.5 27.5
Commodity Classification		Processor package size	37.5 x 37.5 mm
Automated Tracking System (CCATS)	G077159	Other features	
Images Type Map	×	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Processor special features			S1200BTL S1200BTS S1200KP S1200BTSR S1200KPR S1200BTLR
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Compatibility	R1304BTLSHBN R1304BTLSFAN R1304BTSSFAN P4304BTLSFCN P4304BTLSHCN P4304BTSSFCN R1304BTLSHBNR R1304BTLSFANR
Intel® Identity Protection Technology (Intel® IPT)	✓		
Intel® Turbo Boost Technology	2.0		R1304BTSSFANR P4304BTLSHCNR P4304BTLSFCNR P4304BTSSFCNR
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Cache memory	8 MB





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