intel.

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 manufacturer *	Intel
Processor model *	E3-1275
Processor base frequency *	3.4 GHz
Processor family *	Intel® Xeon® E3 Family
Processor cores *	4
Processor socket *	LGA 1155 (Socket H2)
Component for	Server/workstation
Processor lithography *	32 nm
Processor series	Intel Xeon E3-1200
Processor threads	8
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.8 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	95 W
Box *	✓
Cooler included *	✓
Stepping	D2
Bus type	DMI
CPU multiplier (bus/core ratio)	3.4
Memory bandwidth supported by processor (max)	21 GB/s
Processor codename	Sandy Bridge
Processor code	SR00P
Processor ARK ID	52277

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

Processor special features

Intel® Quick Sync Video Technology	✓
Intel® InTru™ 3D Technology	✓
Intel® Wireless Display (Intel® WiDi)	✗
Intel FDI Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Dual Display Capable 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® Turbo Boost Technology 2.0 frequency	3.8 GHz
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel 64	✓
Intel Identity Protection Technology version	1.00
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions

Tcase	72.6 °C

Memory

Memory channels *	Dual-channel
ECC	✔

Graphics

On-board graphics card *	✔
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
Number of displays supported (on-board graphics)	2

Features

Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Market segment	Server
Maximum number of PCI Express lanes	20
PCI Express slots version	2.0
Supported instruction sets	SSE4.1, SSE4.2, AVX
Bandwidth	21000 MB/s
CPU configuration (max)	1
Embedded options available	✔
PCI Express CEM revision	2.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159
Images Type Map	✖

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Turbo Boost Technology	2.0

Technical details

Born on date	Q2'11
Bus bandwidth	5
Bus type units	GT/s
Graphics max dynamic frequency	1.35 GHz
Launch date	Q2'11
Processor cache	8192 KB
Product name	Intel Xeon E3-1275 (8M Cache, 3.40 GHz)
Product type	Processor
Status	Discontinued
Maximum memory	32 GB
Processor brand name	Intel Xeon
Supported memory types	DDR3-SDRAM
Last change	63903513
Product family	Intel Xeon Processor E3 Family
Bus speed	5 GT/s

Logistics data

Harmonized System (HS) code	8542310001

Packaging data

Package width	157 mm
Package depth	414 mm
Package height	148 mm
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
Compatibility	S1200BTL S1200BTS S1200KP S1200BTSR S1200KPR S1200BTLR R1304BTLSHBN R1304BTLSFAN R1304BTSSFAN P4304BTLSFCN P4304BTLSHCN P4304BTSSFCN R1304BTLSHBNR R1304BTLSFANR R1304BTSSFANR P4304BTLSHCNR P4304BTLSFCNR P4304BTSSFCNR
Maximum internal memory	32 GB
Maximum internal memory	32768 MB
Cache memory	8 MB

5032037011914

0735858217712

735858217712