

Intel Xeon E3-1275V2 processor 3.5 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80637E31275V2

Product name : E3-1275V2

Intel® Xeon® Processor E3-1275 v2
(8M Cache, 3.50 GHz)

Intel Xeon E3-1275V2. 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. On-board graphics card model: Intel® HD Graphics P4000, On-board graphics card base frequency: 650 MHz, On-board graphics card dynamic frequency (max): 1250 MHz. 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



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® InTru™ 3D Technology	✓
Processor model *	E3-1275V2	Intel FDI Technology	✓
Processor base frequency *	3.5 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor family *	Intel® Xeon® E3 V2 Family	Intel Dual Display Capable Technology	✓
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 *	22 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Xeon E3-1200 v2	Enhanced Intel SpeedStep Technology	✓
Processor threads	8	Intel Trusted Execution Technology	✓
System bus rate	5 GT/s	Intel® Turbo Boost Technology 2.0 frequency	3.9 GHz
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✗
Processor boost frequency	3.9 GHz	Intel Enhanced Halt State	✓
Processor cache	8 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel Demand Based Switching	✓
L3 cache speed	3.5 GHz	Intel TSX-NI	✗
Thermal Design Power (TDP)	77 W	Intel 64	✓
Box *	✓	Intel Identity Protection Technology version	1.00
Cooler included *	✓	Intel Virtualization Technology (VT-x)	✓
Stepping	E1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI	Intel TSX-NI version	0.00
CPU multiplier (bus/core ratio)	35		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Ivy Bridge		
Processor code	SR0PA		
Processor ARK ID	65726		

Memory		Processor special features	
Maximum internal memory supported by processor	32 GB	Conflict-Free processor	✘
Memory types supported by processor	DDR3-SDRAM	Intel® vPro™ Platform Eligibility	✔
Memory clock speeds supported by processor	1333,1600 MHz	Technical details	
Memory channels *	Dual-channel	Born on date	Q2'12
ECC	✔	Bus bandwidth	5
Graphics		Bus type units	GT/s
On-board graphics card *	✘	Graphics max dynamic frequency	1.25 GHz
On-board graphics card model *	Intel® HD Graphics P4000	Launch date	Q2'12
On-board graphics card base frequency	650 MHz	Processor cache	8192 KB
On-board graphics card dynamic frequency (max)	1250 MHz	Product name	Intel Xeon E3-1275 v2 (8M Cache, 3.50 GHz)
Number of displays supported (on-board graphics)	3	Product type	Processor
Features		Status	Launched
Execute Disable Bit	✔	Maximum memory	32.77 GB
Idle States	✔	Processor brand name	Intel Xeon v2
Thermal Monitoring Technologies	✔	Supported memory types	DDR3-SDRAM
Market segment	Server	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E3 v2 Family
PCI Express configurations	1x16, 1x4, 2x8, 1x8, 3x4	Bus speed	5 GT/s
Supported instruction sets	SSE4.1, SSE4.2, AVX	Supply status	Discontinued
CPU configuration (max)	1	Servicing status	End of Servicing Lifetime
Embedded options available	✔	End of servicing updates date	Tuesday, December 31, 2019
PCI Express CEM revision	3.0	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	8542310001
Commodity Classification Automated Tracking System (CCATS)	G077159	Packaging data	
Processor special features		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✔	Weight & dimensions	
Intel® Identity Protection Technology (Intel® IPT)	✔	Processor package size	37.5 x 37.5 mm
Intel® Turbo Boost Technology	2.0	Other features	
Intel® Quick Sync Video Technology	✔	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Compatibility	Intel S1200KP, S1200BTSR, S1200KPR, S1200BTLR, R1304BTLSHBNR, R1304BTLSFANR, R1304BTSSFANR, P4304BTLSHCNR, P4304BTLSFANR, P4304BTSSFCNR
		Maximum internal memory	32.77 GB
		Maximum internal memory	33554 MB
		Cache memory	8 MB



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