

Intel Xeon E3-1280V2 processor 3.6 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80637E31280V2

Product name : E3-1280V2

Intel® Xeon® Processor E3-1280 v2
(8M Cache, 3.60 GHz)

Intel Xeon E3-1280V2. 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. 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: 4 GHz. Package width: 81 mm, Package depth: 114 mm, Package height: 102 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Smart Cache	✓
Processor model *	E3-1280V2	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	3.6 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Xeon® E3 V2 Family	Intel Trusted Execution Technology	✓
Processor cores *	4	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor socket *	LGA 1155 (Socket H2)	Intel® Transactional Synchronization Extensions	✗
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Xeon E3-1200 v2	Intel Demand Based Switching	✓
Processor threads	8	Intel TSX-NI	✗
System bus rate	5 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Identity Protection Technology version	1.00
Processor boost frequency	4 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	8 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	Intel TSX-NI version	0.00
L3 cache speed	3.6 GHz	Conflict-Free processor	✗
Thermal Design Power (TDP)	69 W	Intel® vPro™ Platform Eligibility	✓
Box *	✓	Technical details	
Cooler included *	✓	Born on date	Q2'12
Stepping	E1	Bus bandwidth	5
Bus type	DMI	Bus type units	GT/s
CPU multiplier (bus/core ratio)	36	Launch date	Q2'12
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Ivy Bridge		
Processor code	SR0P7		
Processor ARK ID	65725		

Memory		Technical details	
Maximum internal memory supported by processor	32 GB	Processor cache	8192 KB
Memory types supported by processor	DDR3-SDRAM	Product name	Intel Xeon E3-1280 v2 (8M Cache, 3.60 GHz)
Memory clock speeds supported by processor	1333,1600 MHz	Product type	Processor
Memory channels *	Dual-channel	Status	Discontinued
ECC	✓	Maximum memory	32.77 GB
Features		Processor brand name	Intel Xeon v2
Execute Disable Bit	✓	Supported memory types	DDR3-SDRAM
Idle States	✓	Last change	63903513
Thermal Monitoring Technologies	✓	Product family	Intel Xeon Processor E3 v2 Family
Market segment	Server	Bus speed	5 GT/s
PCI Express slots version	3.0	Logistics data	
PCI Express configurations	1x16, 1x4, 2x8, 1x8, 3x4	Harmonized System (HS) code	8542310001
Supported instruction sets	SSE4.1, SSE4.2, AVX	Packaging data	
CPU configuration (max)	1	Package width	81 mm
Embedded options available	✗	Package depth	114 mm
PCI Express CEM revision	3.0	Package height	102 mm
Export Control Classification Number (ECCN)	5A992C	Package weight	394 g
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	37.5 x 37.5 mm
Intel® Identity Protection Technology (Intel® IPT)	✓	Other features	
Intel® Turbo Boost Technology	2.0	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel Fast Memory Access	✓	Compatibility	Intel S1200KP, S1200BTSR, S1200KPR, S1200BTLR, R1304BTLSHBNR, R1304BTLSFANR, R1304BTSSFANR, P4304BTLSHCNR, P4304BTLSFCNR, P4304BTSSFANR, P4304BTSSFANR
Intel Flex Memory Access	✓	Maximum internal memory	32.77 GB
		Maximum internal memory	33554 MB
		Cache memory	8 MB



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