

## Intel Xeon E3-1220V2 processor 3.1 GHz 8 MB Smart Cache Box

**Brand :** Intel

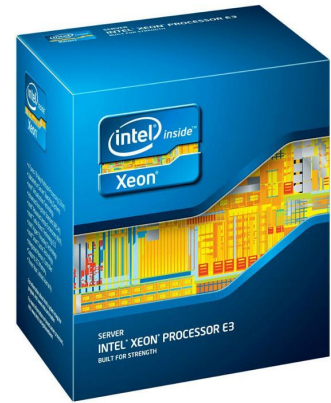
**Product family:** Xeon

**Product code:**  
BX80637E31220V2

**Product name :** E3-1220V2

Intel® Xeon® Processor E3-1220 v2  
(8M Cache, 3.10 GHz)

Intel Xeon E3-1220V2. 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: 3.5 GHz. Package width: 81 mm, Package depth: 114 mm, Package height: 102 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel Flex Memory Access	✓
Processor model *	E3-1220V2	Intel® Smart Cache	✓
Processor base frequency *	3.1 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Xeon® E3 V2 Family	Enhanced Intel SpeedStep Technology	✓
Processor cores *	4	Intel Trusted Execution Technology	✓
Processor socket *	LGA 1155 (Socket H2)	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
Component for	Server/workstation	Intel® Transactional Synchronization Extensions	✗
Processor lithography *	22 nm	Intel Enhanced Halt State	✓
Processor series	Intel Xeon E3-1200 v2	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	4	Intel Demand Based Switching	✓
System bus rate	5 GT/s	Intel TSX-NI	✗
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.5 GHz	Intel Identity Protection Technology version	1.00
Processor cache	8 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
L3 cache speed	3.1 GHz	Intel TSX-NI version	0.00
Thermal Design Power (TDP)	69 W	Conflict-Free processor	✗
Box *	✓	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✓	<b>Technical details</b>	
Stepping	E1	Born on date	Q2'12
Bus type	DMI	Bus bandwidth	5
CPU multiplier (bus/core ratio)	31	Bus type units	GT/s
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Ivy Bridge		
Processor code	SR0PH		
Processor ARK ID	65734		

Memory		Technical details	
Maximum internal memory supported by processor	32 GB	Launch date	Q2'12
Memory types supported by processor	DDR3-SDRAM	Processor cache	8192 KB
Memory clock speeds supported by processor	1333,1600 MHz	Product name	Intel Xeon E3-1220 v2 (8M Cache, 3.10 GHz)
Memory channels *	Dual-channel	Product type	Processor
ECC	✓	Status	Discontinued
Features		Maximum memory	32.77 GB
Execute Disable Bit	✓	Processor brand name	Intel Xeon v2
Idle States	✓	Supported memory types	DDR3-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Server	Product family	Intel Xeon Processor E3 v2 Family
PCI Express slots version	3.0	Bus speed	5 GT/s
PCI Express configurations	1x16, 1x4, 2x8, 1x8, 3x4	Logistics data	
Supported instruction sets	SSE4.1, SSE4.2, AVX	Harmonized System (HS) code	8542310001
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package width	81 mm
PCI Express CEM revision	3.0	Package depth	114 mm
Export Control Classification Number (ECCN)	5A992C	Package height	102 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package weight	394 g
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 Fast Memory Access	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Compatibility	Intel S1200KP, S1200BTSR, S1200KPR, S1200BTLR, R1304BTLSHBNR, R1304BTLSFANR, R1304BTSSFANR, P4304BTLSHCNR, BTLSFANR, P4304BTLSHCNR, BTLSFANR, P4304BTLSHCNR
		Maximum internal memory	32.77 GB
		Maximum internal memory	33554 MB
		Cache memory	8 MB



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