

Intel Xeon E3-1220V6 processor 3 GHz 8 MB Smart Cache Box

Brand : Intel

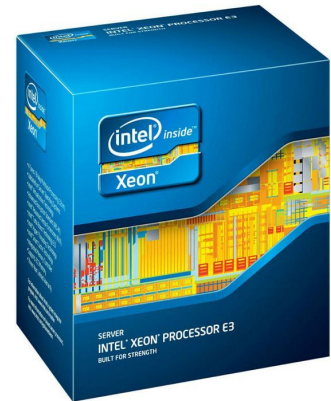
Product family: Xeon

Product code:
BX80677E31220V6

Product name : E3-1220V6

Intel® Xeon® Processor E3-1220 v6
(8M Cache, 3.00 GHz)

Intel Xeon E3-1220V6. Processor family: Intel® Xeon® E3 v6, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM, DDR3L-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.5 GHz. Package width: 70 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E3-1220 v6	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	3 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® E3 v6	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cores *	4	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
Processor socket *	LGA 1151 (Socket H4)	Intel® Transactional Synchronization Extensions	✓
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	14 nm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor threads	4	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel® Secure Key	✓
Processor operating modes *	64-bit	Intel TSX-NI	✓
Processor boost frequency	3.5 GHz	Intel® OS Guard	✓
Processor cache	8 MB	Intel Clear Video Technology	✗
Processor cache type	Smart Cache	Intel Software Guard Extensions (Intel SGX)	✓
Thermal Design Power (TDP)	72 W	Intel 64	✓
Box *	✓	Intel Secure Key Technology version	1.00
Cooler included *	✓	Intel Virtualization Technology (VT-x)	✓
VID Voltage Range	0.55 - 1.52 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI3	Intel TSX-NI version	1.00
Memory bandwidth supported by processor (max)	37.5 GB/s	Conflict-Free processor	✓
Processor codename	Kaby Lake	Intel® Optane™ Memory Ready	✓
Processor ARK ID	97470	Intel® Boot Guard	✓
		Intel® vPro™ Platform Eligibility	✓
Memory		Technical details	
Maximum internal memory supported by processor	64 GB	Bus bandwidth	8
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Bus type units	GT/s
Memory clock speeds supported by processor	1866,2133 MHz	Launch date	Q1'17
Memory channels *	Dual-channel	Maximum resolution & refresh rate (DisplayPort)	N/A
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
On-board graphics card 4K support	✗		

Graphics		Technical details	
Discrete graphics card model *	Not available	Maximum resolution & refresh rate (HDMI)	N/A
Features		Maximum resolution & refresh rate (Integrated Flat Panel)	N/A
Execute Disable Bit	✓	Maximum resolution & refresh rate (VGA)	N/A
Idle States	✓	Processor cache	8192 KB
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Server	Status	Launched
Maximum number of PCI Express lanes	16	Maximum memory	64 GB
PCI Express slots version	3.0	Processor brand name	Intel Xeon
PCI Express configurations	1x16, 2x8, 1x8+2x4	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Last change	63903513
Scalability	1S	Product family	Intel Xeon Processors
CPU configuration (max)	1	Bus speed	8 GT/s
Embedded options available	✗	Servicing status	Baseline Servicing
PCI Express CEM revision	3.0	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	85423119
Commodity Classification Automated Tracking System (CCATS)	G077159	Packaging data	
Processor special features		Package width	70 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✗	Package depth	116 mm
Intel® Turbo Boost Technology	2.0	Package height	101 mm
Intel® Quick Sync Video Technology	✗	Package type	Retail box
Intel® InTru™ 3D Technology	✗	Weight & dimensions	
Intel® Clear Video HD Technology (Intel® CVT HD)	✗	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	N/A



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