

Intel Xeon E3-1245V6 processor 3.7 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80677E31245V6

Product name : E3-1245V6

Intel® Xeon® Processor E3-1245 v6
(8M Cache, 3.70 GHz)

Intel Xeon E3-1245V6. 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. On-board graphics card model: Intel® HD Graphics P630, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. 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: 4.1 GHz



Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor model *	E3-1245 v6	Automated Tracking System (CCATS)	G077159
Processor base frequency *	3.7 GHz	Processor special features	
Processor family *	Intel® Xeon® E3 v6	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	4	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1151 (Socket H4)	Intel® Quick Sync Video Technology	✓
Component for	Server/workstation	Intel® InTru™ 3D Technology	✓
Processor lithography *	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	8	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✓
Processor boost frequency	4.1 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache	8 MB	Intel® Turbo Boost Technology 2.0 frequency	4.1 GHz
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✓
Thermal Design Power (TDP)	73 W	Intel Enhanced Halt State	✓
Box *	✓	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Cooler included *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.55 - 1.52 V	Intel® Secure Key	✓
Stepping	B0	Intel TSX-NI	✓
Bus type	DMI3		
Memory bandwidth supported by processor (max)	37.5 GB/s		
Processor codename	Kaby Lake		
Processor code	SR32B		
Processor ARK ID	97473		

Memory		Processor special features	
Maximum internal memory supported by processor	64 GB	Intel® OS Guard	✓
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Intel Clear Video Technology	✓
Memory clock speeds supported by processor	1866,2400 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory channels *	Dual-channel	Intel 64	✓
ECC	✓	Intel Secure Key Technology version	1.00
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✗	Intel TSX-NI version	1.00
On-board graphics card model *	Intel® HD Graphics P630	Conflict-Free processor	✓
Maximum on-board graphics card memory	64 GB	Intel® Optane™ Memory Ready	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel® Boot Guard	✓
On-board graphics card base frequency	350 MHz	Intel® vPro™ Platform Eligibility	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Technical details	
Number of displays supported (on-board graphics)	3	Bus bandwidth	8
On-board graphics card 4K support	✓	Bus type units	GT/s
On-board graphics card DirectX version	12.0	Launch date	Q1'17
On-board graphics card OpenGL version	4.4	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Maximum resolution & refresh rate (HDMI)	4096x2160@24Hz
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Processor cache	8192 KB
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Product type	Processor
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Status	Launched
On-board graphics card ID	0x191D	Maximum memory	64 GB
Discrete graphics card model *	Not available	Processor brand name	Intel Xeon
Features		Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Execute Disable Bit	✓	Last change	63903513
Idle States	✓	Product family	Intel Xeon Processors
Thermal Monitoring Technologies	✓	Bus speed	8 GT/s
Market segment	Server	Maximum graphics card memory	64 GB
Maximum number of PCI Express lanes	16	Processor ID	0x591D
PCI Express slots version	3.0	Servicing status	Baseline Servicing
PCI Express configurations	1x16, 2x8, 1x8+2x4	Logistics data	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Harmonized System (HS) code	85423119
Scalability	1S	Packaging data	
CPU configuration (max)	1	Package width	70 mm
Embedded options available	✗	Package depth	116 mm
PCI Express CEM revision	3.0	Package height	101 mm
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Compatibility	Server Board S1200SPLR
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



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