

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

**Brand :** Intel

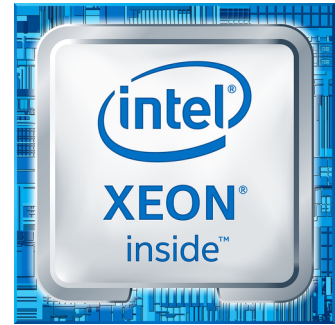
**Product family:** Xeon

**Product code:**  
CM8067702870932

**Product name :** E3-1245V6

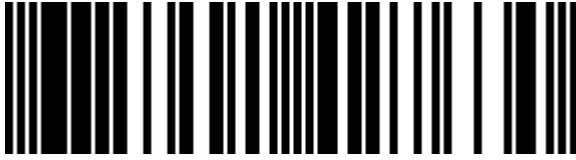
Intel® Xeon® Processor E3-1245 v6  
(8M Cache, 3.70 GHz)

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 Automated Tracking System (CCATS)	G077159
Processor model *	E3-1245 v6	<b>Processor special features</b>	
Processor base frequency *	3.7 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® E3 v6	Intel® Turbo Boost Technology	2.0
Processor cores *	4	Intel® Quick Sync Video Technology	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® InTru™ 3D Technology	✓
Component for	Server/workstation	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Xeon E3-1200 v6	Enhanced Intel SpeedStep Technology	✓
Processor threads	8	Intel Trusted Execution Technology	✓
System bus rate	8 GT/s	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology 2.0	4.1 GHz
Processor boost frequency	4.1 GHz	Intel® Transactional Synchronization Extensions	✓
Processor cache	8 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Thermal Design Power (TDP)	73 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✓
VID Voltage Range	0.55 - 1.52 V	Intel® OS Guard	✓
Stepping	B0	Intel Clear Video Technology	✓
Bus type	DMI3		
Memory bandwidth supported by processor (max)	37.5 GB/s		
Processor codename	Kaby Lake		
Processor code	SR32B		
Processor ARK ID	97473		
<b>Memory</b>			
Maximum internal memory supported by processor	64 GB		

Memory		Processor special features	
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Intel Software Guard Extensions (Intel SGX)	✓
Memory clock speeds supported by processor	1866,2400 MHz	Intel 64	✓
Memory channels *	Dual-channel	Intel Secure Key Technology version	1.00
ECC	✓	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board 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
Features		Processor brand name	Intel Xeon
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Idle States	✓	Last change	63903513
Thermal Monitoring Technologies	✓	Product family	Intel Xeon Processor E3 v6 Family
Market segment	Server	Bus speed	8 GT/s
Maximum number of PCI Express lanes	16	Maximum graphics card memory	64 GB
PCI Express slots version	3.0	Processor ID	0x591D
PCI Express configurations	1x16, 2x8, 1x8+2x4	Servicing status	Baseline Servicing
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Logistics data	
Scalability	1S	Harmonized System (HS) code	8542310001
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package type	Retail box
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	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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