

Intel Xeon E3-1275V6 processor 3.8 GHz 8 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8067702870931

Product name : E3-1275V6

Intel® Xeon® Processor E3-1275 v6
(8M Cache, 3.80 GHz)

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Powerful Delivery

Support greater HD and UHD video trans code performance with up to 18 AVC video trans codes per processor and up to 2 HEVC trans codes per processor.

Built for Professionals

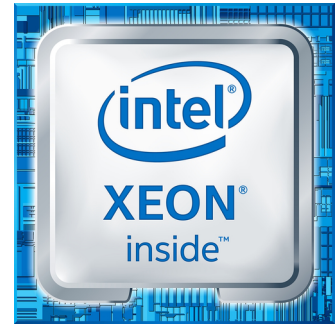
Step up to the performance and visuals demanded by professional-grade CAD or media and entertainment applications.

Reliability for Small and Medium Businesses

No matter what the size of your business, the value of your data is enormous. Keep it accessible and better protected at all times with an affordable Intel Xeon processor E3-1200 v6 product family-based server.

High Image Quality

Improve visual experiences with Intel® Media Server Studio, providing state-of-the-art encoding features and flexible selection of media encode speed and image quality combinations.



Processor		Features	
Processor manufacturer *	Intel	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor model *	E3-1275 v6		
Processor base frequency *	3.8 GHz		
Processor family *	Intel® Xeon® E3 v6	Processor special features	
Processor cores *	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Turbo Boost Technology	2.0
Component for	Server/workstation	Intel® Quick Sync Video Technology	✓
Processor lithography *	14 nm	Intel® InTru™ 3D Technology	✓
Processor series	Intel Xeon E3-1200 v6	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	4.2 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache	8 MB	Intel® Turbo Boost Technology 2.0	4.2 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	Intel® OS Guard	✓
Memory bandwidth supported by processor (max)	37.5 GB/s	Intel Clear Video Technology	✓
Processor codename	Kaby Lake		
Processor ARK ID	97478		
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM		

Memory		Processor special features	
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)	✓
On-board graphics card model *	Intel® HD Graphics P630	Intel TSX-NI version	1.00
Maximum on-board graphics card memory	64 GB	Conflict-Free processor	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel® Optane™ Memory Ready	✓
On-board graphics card base frequency	350 MHz	Intel® Boot Guard	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Intel® vPro™ Platform Eligibility	✓
Number of displays supported (on-board graphics)	3	Technical details	
On-board graphics card 4K support	✓	Bus bandwidth	8
On-board graphics card DirectX version	12.0	Bus type units	GT/s
On-board graphics card OpenGL version	4.4	Launch date	Q1'17
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Maximum resolution & refresh rate (HDMI)	4096x2160@24Hz
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Processor cache	8192 KB
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Product type	Processor
On-board graphics card ID	0x191D	Status	Launched
Features		Maximum memory	64 GB
Execute Disable Bit	✓	Processor brand name	Intel Xeon
Idle States	✓	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Server	Product family	Intel Xeon Processor E3 v6 Family
Maximum number of PCI Express lanes	16	Bus speed	8 GT/s
PCI Express slots version	3.0	Maximum graphics card memory	64 GB
PCI Express configurations	1x16, 2x8, 1x8+2x4	Processor ID	0x591D
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Servicing status	Baseline Servicing
Scalability	1S	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	85423119
Embedded options available	✓	Packaging data	
PCI Express CEM revision	3.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



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