

## Intel Xeon E3-1245V5 processor 3.5 GHz 8 MB Smart Cache

**Brand :** Intel

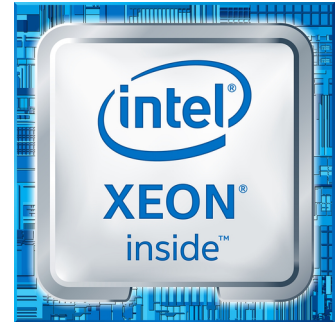
**Product family:** Xeon

**Product code:**  
CM8066201934913

**Product name :** E3-1245V5

Intel® Xeon® Processor E3-1245 v5  
(8M Cache, 3.50 GHz)

Intel Xeon E3-1245V5. Processor family: Intel® Xeon® E3 v5, 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 P530, 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: 3.9 GHz

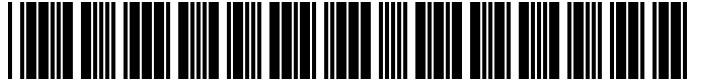


Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992C
Processor model *	E3-1245V5	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor base frequency *	3.5 GHz	<b>Processor special features</b>	
Processor family *	Intel® Xeon® E3 v5	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® Wireless Display (Intel® WiDi)	✓
Processor series	Intel Xeon E3-1200 v5	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	8	Intel® Insider™	✓
System bus rate	8 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.9 GHz	Intel Trusted Execution Technology	✓
Processor cache	8 MB	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology 2.0 frequency	3.9 GHz
Thermal Design Power (TDP)	80 W	Intel® Transactional Synchronization Extensions	✓
Box *	✗	Intel Enhanced Halt State	✓
Cooler included *	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
VID Voltage Range	0.55 - 1.52 V		
Stepping	R0		
Bus type	DMI3		
Memory bandwidth supported by processor (max)	34.1 GB/s		
Processor codename	Skylake		
Processor code	SR2LL		
Processor ARK ID	88173		
<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 VT-x with Extended Page Tables (EPT)	✓
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz	Intel® Secure Key	✓
Memory voltage supported by processor	1.35 V	Intel TSX-NI	✓
Memory channels *	Dual-channel	Intel® OS Guard	✓
ECC	✓	Intel Clear Video Technology	✓
<b>Graphics</b>		Intel Software Guard Extensions (Intel SGX)	✓
On-board graphics card *	✓	Intel 64	✓
On-board graphics card model *	Intel® HD Graphics P530	Intel Secure Key Technology version	1.00
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card base frequency	400 MHz	Intel TSX-NI version	1.00
On-board graphics card dynamic frequency (max)	1150 MHz	Conflict-Free processor	✓
Number of displays supported (on-board graphics)	3	Intel® Boot Guard	✓
On-board graphics card 4K support	✓	Intel® vPro™ Platform Eligibility	✓
On-board graphics card DirectX version	12.0	<b>Technical details</b>	
On-board graphics card OpenGL version	4.4	Bus bandwidth	8
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Launch date	Q4'15
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card ID	0x191D	Processor cache	8192 KB
<b>Features</b>		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	64 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon
Market segment	Server	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Maximum number of PCI Express lanes	16	Last change	63903513
PCI Express slots version	3.0	Maximum resolution (WiDi)	1080p
PCI Express configurations	1x16, 2x8, 1x8+2x4	Product family	Intel Xeon Processor E3 v5 Family
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Bus speed	8 GT/s
Scalability	1S	Maximum graphics card memory	64 GB
CPU configuration (max)	1	Processor ID	0x191D
Embedded options available	✗	<b>Logistics data</b>	
Graphics & IMC lithography	14 nm	Harmonized System (HS) code	8542310001
PCI Express CEM revision	3.0	<b>Packaging data</b>	
		Package type	Retail box
		<b>Weight &amp; dimensions</b>	
		Processor package size	37.5 x 37.5 mm
		<b>Other features</b>	
		Compatibility	Intel Server Board S1200SPL
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



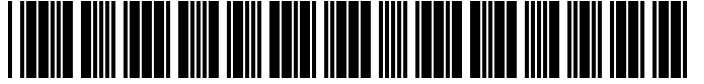
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