

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

Brand : Intel

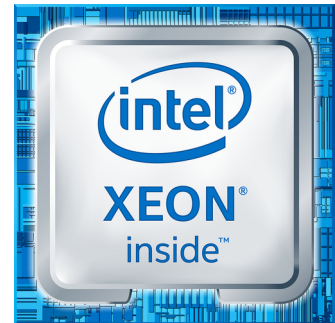
Product family: Xeon

Product code:
BX80662E31245V5

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	Commodity Classification	
Processor model *	E3-1245V5	Automated Tracking System (CCATS)	G077159
Processor base frequency *	3.5 GHz	Processor special features	
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 ARK ID	88173		

Memory		Processor special features	
Maximum internal memory supported by processor	64 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Intel® Secure Key	✓
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz	Intel TSX-NI	✓
Memory voltage supported by processor	1.35 V	Intel® OS Guard	✓
Memory channels *	Dual-channel	Intel Clear Video Technology	✓
ECC	✓	Intel Software Guard Extensions (Intel SGX)	✓
Graphics		Intel 64	✓
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
On-board graphics card model *	Intel® HD Graphics P530	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel TSX-NI version	1.00
On-board graphics card base frequency	400 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Intel® Boot Guard	✓
Number of displays supported (on-board graphics)	3	Intel® vPro™ Platform Eligibility	✓
On-board graphics card 4K support	✓	Technical details	
On-board graphics card DirectX version	12.0	Bus bandwidth	8
On-board graphics card OpenGL version	4.4	Bus type units	GT/s
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Launch date	Q4'15
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Processor cache	8192 KB
On-board graphics card ID	0x191D	Product type	Processor
Features		Status	Discontinued
Execute Disable Bit	✓	Maximum memory	64 GB
Idle States	✓	Processor brand name	Intel Xeon
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	16	Maximum resolution (WiDi)	1080p
PCI Express slots version	3.0	Product family	Intel Xeon Processor E3 v5 Family
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	8 GT/s
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Maximum graphics card memory	64 GB
Scalability	1S	Processor ID	0x191D
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	8542310001
Graphics & IMC lithography	14 nm	Packaging data	
PCI Express CEM revision	3.0	Package width	70 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	116 mm
		Package height	101 mm
		Package weight	373 g
		Package type	Retail box
		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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