

Intel Xeon E3-1245 v3 processor 3.4 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80646E31245V3

Product name : E3-1245 v3

Intel® Xeon® Processor E3-1245 v3
(8M Cache, 3.40 GHz)

Intel Xeon E3-1245 v3. Processor family: Intel® Xeon® E3 V3 Family, Processor socket: LGA 1150 (Socket H3), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics P4600, On-board graphics card base frequency: 350 MHz, On-board graphics card dynamic frequency (max): 1200 MHz. 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: 3.8 GHz



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor model *	E3-1245V3	Intel Dual Display Capable Technology	✓
Processor base frequency *	3.4 GHz	Intel Fast Memory Access	✓
Processor family *	Intel® Xeon® E3 V3 Family	Intel Flex Memory Access	✓
Processor cores *	4	Intel® Smart Cache	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	Server/workstation	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	22 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Xeon E3-1200 v3	Intel® Turbo Boost Technology 2.0 frequency	3.8 GHz
Processor threads	8	Intel® Transactional Synchronization Extensions	✓
System bus rate	5 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.8 GHz	Intel® Secure Key	✓
Processor cache	8 MB	Intel TSX-NI	✓
Processor cache type	Smart Cache	Intel Stable Image Platform Program (SIPP)	✓
Thermal Design Power (TDP)	84 W	Intel® OS Guard	✓
Box *	✓	Intel 64	✓
Cooler included *	✓	Intel Identity Protection Technology version	1.00
Stepping	C0	Intel Secure Key Technology version	1.00
Bus type	QPI	Intel Stable Image Platform Program (SIPP) version	1.00
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Haswell		
Processor code	SR14T		
Processor ARK ID	75462		
Memory			
Maximum internal memory supported by processor	32 GB		

Memory		Processor special features	
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Intel Virtualization Technology (VT-x)	✓
Memory clock speeds supported by processor	1600 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels *	Dual-channel	Intel TSX-NI version	1.00
ECC	✓	Conflict-Free processor	✗
Graphics		Intel® vPro™ Platform Eligibility	✓
On-board graphics card *	✓	Technical details	
On-board graphics card model *	Intel® HD Graphics P4600	Born on date	Q2'13
On-board graphics card base frequency	350 MHz	Bus bandwidth	5
On-board graphics card dynamic frequency (max)	1200 MHz	Bus type units	GT/s
Number of displays supported (on-board graphics)	3	Graphics max dynamic frequency	1.20 GHz
Features		Launch date	Q2'13
Execute Disable Bit	✓	Number of graphics cores	20
Idle States	✓	Processor cache	8192 KB
Thermal Monitoring Technologies	✓	Product name	Intel Xeon E3-1245 v3 (8M Cache, 3.40 GHz)
Market segment	Server	Product type	Processor
Maximum number of PCI Express lanes	16	Status	Discontinued
PCI Express slots version	3.0	Maximum memory	32 GB
PCI Express configurations	1x16, 2x8, 1x8+2x4	Processor brand name	Intel Xeon v2
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Scalability	1S	Last change	63903513
CPU configuration (max)	1	Product family	Intel Xeon Processor E3 v3 Family
Embedded options available	✗	Bus speed	5 GT/s
Graphics & IMC lithography	22 nm	Logistics data	
Thermal solution specification	PCG 2013D	Harmonized System (HS) code	8542310001
PCI Express CEM revision	3.0	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package width	70 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package depth	116 mm
Processor special features		Package height	101 mm
Intel® Anti-Theft Technology (Intel® AT)	✓	Package weight	373 g
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package type	Retail box
Intel® Identity Protection Technology (Intel® IPT)	✓	Weight & dimensions	
Intel® Turbo Boost Technology	2.0	Processor package size	37.5 x 37.5 mm
Intel® Quick Sync Video Technology	✓	Other features	
Intel® InTru™ 3D Technology	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel FDI Technology	✓	Compatibility	Intel R1304RPSSFBN, R1304RPOSHBN, R1208RPOSHOR, P4308RPLSHDR, R1208RPMSHOR, R1304RPMSHOR, S1200V3RPL, S1200V3RPS, S1200V3RPO, S1200V3RPM
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Cache memory	8 MB



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