

## Intel Xeon E3-1230 v3 processor 3.3 GHz 8 MB Smart Cache Box

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
BX80646E31230V3

**Product name :** E3-1230 v3

Intel® Xeon® Processor E3-1230 v3  
(8M Cache, 3.30 GHz)

Intel Xeon E3-1230 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. 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: 3.7 GHz. Package width: 70 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Smart Cache	✓
Processor model *	E3-1230V3	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	3.3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Xeon® E3 V3 Family	Intel Trusted Execution Technology	✓
Processor cores *	4	Intel® Turbo Boost Technology 2.0 frequency	3.7 GHz
Processor socket *	LGA 1150 (Socket H3)	Intel® Transactional Synchronization Extensions	✓
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Xeon E3-1200 v3	Intel® Secure Key	✓
Processor threads	8	Intel TSX-NI	✓
System bus rate	5 GT/s	Intel Stable Image Platform Program (SIPP)	✓
Processor operating modes *	64-bit	Intel® OS Guard	✓
Processor boost frequency	3.7 GHz	Intel 64	✓
Processor cache	8 MB	Intel Identity Protection Technology version	1.00
Processor cache type	Smart Cache	Intel Secure Key Technology version	1.00
Thermal Design Power (TDP)	80 W	Intel Stable Image Platform Program (SIPP) version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	C0	Intel TSX-NI version	1.00
Bus type	QPI	Conflict-Free processor	✗
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® vPro™ Platform Eligibility	✓
Processor codename	Haswell		
Processor ARK ID	75054		
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM		

Memory		Technical details	
Memory clock speeds supported by processor	1333,1600 MHz	Born on date	Q2'13
Memory channels *	Dual-channel	Bus bandwidth	5
ECC	✓	Bus type units	GT/s
Graphics		Launch date	Q2'13
On-board graphics card *	✓	Processor cache	8192 KB
On-board graphics card model *	Not available	Product name	Intel Xeon E3-1230 v3 (8M Cache, 3.30 GHz)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	32 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon v2
Market segment	Server	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Maximum number of PCI Express lanes	16	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E3 v3 Family
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	5 GT/s
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 width	70 mm
Graphics & IMC lithography	22 nm	Package depth	116 mm
Thermal solution specification	PCG 2013D	Package height	101 mm
PCI Express CEM revision	3.0	Package weight	373 g
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
Processor special features		Other features	
Intel® Anti-Theft Technology (Intel® AT)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Compatibility	Intel R1304RPSSFBN, R1304RPOSHBN, R1208RPOSHOR, P4308RPLSHDR, R1208RPM SHOR, R1304RPMSHOR, S1200V3RPL, S1200V3RPS, S1200V3RPO, S1200V3RPM
Intel® Identity Protection Technology (Intel® IPT)	✓	Maximum internal memory	32 GB
Intel® Turbo Boost Technology	2.0	Maximum internal memory	32768 MB
Intel Fast Memory Access	✓	Cache memory	8 MB
Intel Flex Memory Access	✓		



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