

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

Brand : Intel

Product family: Xeon

Product code:
CM8064601467202

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 type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor model *	E3-1230V3	Intel Fast Memory Access	✓
Processor base frequency *	3.3 GHz	Intel Flex Memory Access	✓
Processor family *	Intel® Xeon® E3 V3 Family	Intel® Smart Cache	✓
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 1150 (Socket H3)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel® Turbo Boost Technology 2.0 frequency	3.7 GHz
Processor series	Intel Xeon E3-1200 v3	Intel® Transactional Synchronization Extensions	✓
Processor threads	8	Intel Enhanced Halt State	✓
System bus rate	5 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	3.7 GHz	Intel TSX-NI	✓
Processor cache	8 MB	Intel Stable Image Platform Program (SIPP)	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Thermal Design Power (TDP)	80 W	Intel 64	✓
Box *	✗	Intel Identity Protection Technology version	1.00
Cooler included *	✗	Intel Secure Key Technology version	1.00
Stepping	C0	Intel Stable Image Platform Program (SIPP) version	1.00
Bus type	QPI	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor codename	Haswell	Intel TSX-NI version	1.00
Processor code	SR153	Conflict-Free processor	✗
Processor ARK ID	75054	Intel® vPro™ Platform Eligibility	✓
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory channels *	Dual-channel		

Memory		Technical details	
ECC	✓	Bus bandwidth	5
Graphics		Bus type units	GT/s
On-board graphics card *	✗	Launch date	Q2'13
Features		Processor cache	8192 KB
Execute Disable Bit	✓	Product type	Processor
Idle States	✓	Status	Discontinued
Thermal Monitoring Technologies	✓	Maximum memory	32 GB
Market segment	Server	Processor brand name	Intel Xeon
Maximum number of PCI Express lanes	16	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
PCI Express slots version	3.0	Last change	63903513
PCI Express configurations	1x16, 2x8, 1x8+2x4	Product family	Intel Xeon Processor E3 v3 Family
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Bus speed	5 GT/s
Scalability	1S	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	8542310001
Embedded options available	✗	Packaging data	
Graphics & IMC lithography	22 nm	Package type	Retail box
Thermal solution specification	PCG 2013D	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	37.5 x 37.5 mm
Export Control Classification Number (ECCN)	5A992C	Other features	
Commodity Classification Automated Tracking System (CCATS)	G077159	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Processor special features		Compatibility	Intel R1304RPSSFBN, R1304RPOSHBN, R1208RPOSHOR, P4308RPLSHDR, R1208RPMSHOR, R1304RPMSHOR, S1200V3RPL, S1200V3RPS, S1200V3RPO, S1200V3RPM
Intel® Anti-Theft Technology (Intel® AT)	✓	Maximum internal memory	32 GB
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	32768 MB
Intel® Identity Protection Technology (Intel® IPT)	✓		

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