

Intel Xeon E3-1280 v3 processor 3.6 GHz 8 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8064601467001

Product name : E3-1280 v3



Intel® Xeon® Processor E3-1280 v3
(8M Cache, 3.60 GHz)

Intel Xeon E3-1280 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: 4 GHz. Processor package size: 37.5 x 37.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E3-1280V3	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.6 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E3 V3 Family	Intel Fast Memory Access	✓
Processor cores *	4	Intel Flex Memory Access	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® Smart Cache	✓
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	22 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon E3-1200 v3	Intel Trusted Execution Technology	✓
Processor threads	8	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
System bus rate	5 GT/s	Intel® Transactional Synchronization Extensions	✓
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	4 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	8 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel TSX-NI	✓
L3 cache speed	3.6 GHz	Intel Stable Image Platform Program (SIPP)	✓
Thermal Design Power (TDP)	82 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	DMI	Intel Stable Image Platform Program (SIPP) version	1.00
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor codename	Haswell	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor code	SR150		
Processor ARK ID	75057		
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		Processor special features	
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 *	Not available	Born on date	Q2'13
Features		Bus bandwidth	5
Execute Disable Bit	✓	Bus type units	GT/s
Idle States	✓	Launch date	Q2'13
Thermal Monitoring Technologies	✓	Processor cache	8192 KB
Market segment	Server	Product name	Intel Xeon E3-1280 v3 (8M Cache, 3.60 GHz)
Maximum number of PCI Express lanes	16	Product type	Processor
PCI Express slots version	3.0	Status	Discontinued
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum memory	32 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor brand name	Intel Xeon v2
Bandwidth	5 MB/s	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	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	37.5 x 37.5 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
Processor special features		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel® Anti-Theft Technology (Intel® AT)	✓	Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Cache memory	8 MB



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