

Intel Xeon E3-1276V3 processor 3.6 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80646E31276V3

Product name : E3-1276V3



Intel® Xeon® Processor E3-1276 v3
(8M Cache, 3.60 GHz)

Intel Xeon E3-1276V3. 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, Maximum on-board graphics card memory: 1.7 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, VGA (D-Sub). 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		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor model *	E3-1276V3	Intel® Quick Sync Video Technology	✓
Processor base frequency *	3.6 GHz	Intel® InTru™ 3D Technology	✓
Processor family *	Intel® Xeon® E3 V3 Family	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores *	4	Intel FDI Technology	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Component for	Server/workstation	Intel® Insider™	✓
Processor lithography *	22 nm	Intel Fast Memory Access	✓
Processor series	Intel Xeon E3-1200 v3	Intel Flex Memory Access	✓
Processor threads	8	Intel® Smart Cache	✓
System bus rate	5 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	4 GHz	Intel Trusted Execution Technology	✓
Processor cache	8 MB	Intel I/O Acceleration Technology	✓
Processor cache type	Smart Cache	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Thermal Design Power (TDP)	84 W	Intel® Transactional Synchronization Extensions	✓
Box *	✓	Intel Enhanced Halt State	✓
Cooler included *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	C0	Intel® Secure Key	✓
Bus type	DMI2	Intel TSX-NI	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Stable Image Platform Program (SIPP)	✓
Processor codename	Haswell	Intel® OS Guard	✓
Processor ARK ID	80915	Intel 64	✓
Memory		Intel Identity Protection Technology version	1.00
Maximum internal memory supported by processor	32 GB	Intel Secure Key Technology version	1.00
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Intel Stable Image Platform Program (SIPP) version	1.00
Memory clock speeds supported by processor	1333,1600 MHz	Intel Virtualization Technology (VT-x)	✓
Memory channels *	Dual-channel	Intel Virtualization Technology for Directed I/O (VT-d)	✓
ECC	✓	Intel TSX-NI version	1.00
Graphics		Conflict-Free processor	✗
On-board graphics card *	✓	Intel® vPro™ Platform Eligibility	✓
On-board graphics card model *	Intel® HD Graphics P4600		
Maximum on-board graphics card memory	1.7 GB		
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, VGA (D-Sub)		

Graphics		Technical details	
On-board graphics card base frequency	350 MHz	Born on date	Q2'14
On-board graphics card dynamic frequency (max)	1250 MHz	Bus bandwidth	5
Number of displays supported (on-board graphics)	3	Bus type units	GT/s
On-board graphics card DirectX version	11.2	Graphics max dynamic frequency	1.25 GHz
On-board graphics card OpenGL version	4.3	Launch date	Q2'14
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Maximum resolution & refresh rate (DisplayPort)	3840x2160@60Hz
On-board graphics card maximum resolution (HDMI)	3840 x 2160 pixels	Maximum resolution & refresh rate (HDMI)	3840x2160@60Hz
On-board graphics card maximum resolution (VGA)	2880 x 1800 pixels	Maximum resolution & refresh rate (VGA)	2880x1800@60Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Number of graphics cores	2
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	OpenGL support	✓
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz	Processor cache	8192 KB
Number of execution units	20	Product name	Intel Xeon E3-1276 v3 (8M Cache, 3.60 GHz)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum graphics card memory	1740 MB
Thermal Monitoring Technologies	✓	Maximum memory	32 GB
Market segment	Server	Processor brand name	Intel Xeon v2
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	Maximum graphics card memory	1.7 GB
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	8542310001
Graphics & IMC lithography	22 nm	Packaging data	
Thermal solution specification	PCG 2013D	Package width	70 mm
PCI Express CEM revision	3.0	Package depth	116 mm
Export Control Classification Number (ECCN)	5A992C	Package height	101 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package weight	373 g
Processor special features		Package type	Retail box
Intel® Anti-Theft Technology (Intel® AT)	✓	Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	37.5 x 37.5 mm
Intel® Identity Protection Technology (Intel® IPT)	✓	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Graphics output	eDP/DP/HDMI/VGA
		Cache memory	8 MB



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