



## HP Intel Xeon E3-1231 v3 processor 3.4 GHz 8 MB Smart Cache

**Brand :** HP

**Product code:** 801419-001

**Product name :** Intel Xeon E3-1231 v3

Intel Xeon E3-1231 v3, 8M Cache, 3.4 GHz, 5 GT/s DIM2

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HP Intel Xeon E3-1231 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, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Compatibility: PROMO Z230T ZC3.4

Processor		Features	
Processor model *	E3-1231V3	PCI Express slots version	3.0
Processor base frequency *	3.4 GHz	PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor family *	Intel® Xeon® E3 V3 Family	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor cores *	4	Scalability	15
Processor socket *	LGA 1150 (Socket H3)	CPU configuration (max)	1
Component for	Server/workstation	Embedded options available	✗
Processor lithography *	22 nm	Graphics & IMC lithography	22 nm
Processor series	Intel Xeon E3-1200 v3	<b>Processor special features</b>	
Processor threads	8	Intel® Anti-Theft Technology (Intel® AT)	✓
System bus rate	5 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3.8 GHz	Intel® My WiFi Technology (Intel® MWT)	✗
Processor cache	8 MB	Intel® Turbo Boost Technology	2.0
Processor cache type	Smart Cache	Intel Fast Memory Access	✓
Thermal Design Power (TDP)	80 W	Intel Flex Memory Access	✓
Stepping	C0	Intel® AES New Instructions (Intel® AES-NI)	✓
Bus type	DMI2	Enhanced Intel SpeedStep Technology	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Trusted Execution Technology	✓
<b>Memory</b>		Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory supported by processor	32 GB	Intel® Secure Key	✓
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Intel TSX-NI	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel® OS Guard	✓
Memory voltage supported by processor	1.5 V	Intel 64	✓
Memory channels *	Dual-channel	Intel Virtualization Technology (VT-x)	✓
ECC	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
<b>Graphics</b>		Conflict-Free processor	✓
On-board graphics card *	✗	Intel® vPro™ Platform Eligibility	✓
<b>Features</b>		<b>Other features</b>	
Execute Disable Bit	✓	Compatibility	PROMO Z230T ZC3.4
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	16		

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