HP Intel Xeon E3-1246 v3 processor 3.5 GHz 8 MB Smart Cache

Brand : HP **Product code:** 790932-001

Product name : Intel Xeon E3-1246 v3

Intel Xeon E3-1246 v3, 8M Cache, 3.5 GHz, 5 GT/s DMI2

HP Intel Xeon E3-1246 v3 processor 3.5 GHz 8 MB Smart Cache:

Options, accessories, services and support for all your HP and Compaq products.
HP Intel Xeon E3-1246 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. On-board graphics card model: Intel® HD Graphics P4600, Maximum on-board graphics card memory: 1.7 GB, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub). Market segment: Server, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Compatibility: Z230

Processor	
Processor model *	E3-1246V3
Processor base frequency *	3.5 GHz
Processor family *	Intel® Xeon® E3 V3 Family
Processor cores *	4
Processor socket *	LGA 1150 (Socket H3)
Component for	Server/workstation
Processor lithography *	22 nm
Processor series	Intel Xeon E3-1200 v3
Processor threads	8
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.9 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	84 W
Stepping	C0
Bus type	DMI2
Memory bandwidth supported by processor (max)	25.6 GB/s

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 voltage supported by processor	1.5 V
Memory channels *	Dual-channel
ECC	✔

Graphics	
On-board graphics card *	✔
On-board graphics card model *	Intel® HD Graphics P4600
Maximum on-board graphics card memory	1.7 GB
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub)
On-board graphics card base frequency	350 MHz

Features	
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Market segment	Server
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8+2x4, 2x8
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Scalability	1S
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm

Processor special features	
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® My WiFi Technology (Intel® MWT)	✘
Intel® Turbo Boost Technology	2.0
Intel® Quick Sync Video Technology	✔
Intel® InTru™ 3D Technology	✔
Intel® Wireless Display (Intel® WiDi)	✔
Intel FDI Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel® Insider™	✔
Intel Fast Memory Access	✔
Intel Flex Memory Access	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔

Graphics	
On-board graphics card dynamic frequency (max)	1200 MHz
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.2
On-board graphics card OpenGL version	4.3
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels
On-board graphics card maximum resolution (HDMI)	3840 x 2160 pixels
On-board graphics card maximum resolution (VGA)	2880 x 1800 pixels
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz

Processor special features	
Intel® Secure Key	✔
Intel TSX-NI	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® OS Guard	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Conflict-Free processor	✔
Intel® vPro™ Platform Eligibility	✔

Other features	
Compatibility	Z230

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