HP Intel Xeon E5-2637 V3 processor 3.5 GHz 15 MB L3

Brand : HP

Product code: J6F34AV

Product name : Intel Xeon E5-2637 V3

Intel Xeon E5-2637 V3 (15M Cache, 3.50 GHz) 4-core

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Intel Virtualization Technology (VT-x)

Intel Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.

Intel 64

Intel 64 architecture delivers 64-bit computing on server, workstation, desktop and mobile platforms when combined with supporting software. Intel 64 architecture improves performance by allowing systems to address more than 4 GB of both virtual and physical memory.

Processor	
Processor model *	E5-2637V3
Processor base frequency *	3.5 GHz
Processor family *	Intel Xeon E5 v3
Processor cores *	4
Processor socket *	LGA 2011-v3
Component for	Server/workstation
Processor lithography *	22 nm
Processor threads	8
System bus rate	9.6 GT/s
Processor operating modes *	32-bit, 64-bit
Processor boost frequency	3.7 GHz
Processor cache	15 MB
Processor cache type	L3
Thermal Design Power (TDP)	135 W
VID Voltage Range	0.65 - 1.30 V
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	68 GB/s

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133 MHz
Memory channels *	Quad-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server

Features	
PCI Express slots version	3.0
Supported instruction sets	AES, AVX 2.0
Scalability	2S
CPU configuration (max)	2
Embedded options available	✗

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
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)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel® OS Guard	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	76.6 °C

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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