



HP Intel Xeon E5-2637 V2 processor 3.5 GHz 15 MB L3 Tray

Brand : HP

Product code: E2Q68AV

Product name : Intel Xeon E5-2637 V2

Intel Xeon E5-2637 V2 (15M Cache, 3.5 GHz) 4-core

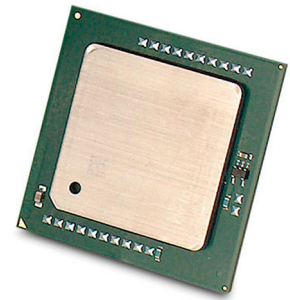
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Intel Virtualization Technology (VT-x)

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		Features	
Processor model *	E5-2637V2	Thermal Monitoring Technologies	✓
Processor base frequency *	3.5 GHz	Market segment	Server
Processor family *	Intel® Xeon® E5 V2 Family	PCI Express slots version	3.0
Processor cores *	4	Scalability	2S
Processor socket *	LGA 2011 (Socket R)	Embedded options available	✗
Component for	Server/workstation	Processor special features	
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	32-bit, 64-bit	Intel Flex Memory Access	✗
Processor boost frequency	3.8 GHz	Intel® Smart Cache	✓
Processor cache	15 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	130 W	Intel Trusted Execution Technology	✓
Package type *	Tray	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.65 - 1.30 V	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	768 GB	Intel® vPro™ Platform Eligibility	✓
Memory types supported by processor	DDR3-SDRAM	Operational conditions	
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Tcase	76 °C
Memory channels *	Quad-channel	Other features	
ECC	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		

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