



HP Intel Xeon E5-2643 V2 processor 3.5 GHz 25 MB L3

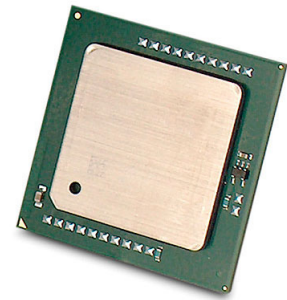
Brand : HP

Product code: E2Q65AV

Product name : Intel Xeon E5-2643 V2

Intel Xeon E5-2643 V3 (20M Cache, 3.4 GHz) 6-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 *	E5-2643V2	Supported instruction sets	AVX
Processor base frequency *	3.5 GHz	Scalability	2S
Processor family *	Intel® Xeon® E5 V2 Family	Physical Address Extension (PAE)	✓
Processor cores *	6	Processor special features	
Processor socket *	LGA 2011 (Socket R)	Intel® Anti-Theft Technology (Intel® AT)	✗
Component for	Server/workstation	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography *	22 nm	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor threads	12	Intel® My WiFi Technology (Intel® MWT)	✗
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	32-bit, 64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	3.8 GHz	Enhanced Intel SpeedStep Technology	✓
Processor cache	25 MB	Intel Trusted Execution Technology	✓
Processor cache type	L3	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	130 W	Intel Demand Based Switching	✓
VID Voltage Range	0.6 - 1.3 V	Intel® Secure Key	✓
Bus type	QPI	Intel® OS Guard	✓
Number of QPI links	2	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory		Intel® vPro™ Platform Eligibility	✓
Maximum internal memory supported by processor	768 GB	Operational conditions	
Memory types supported by processor	DDR3-SDRAM	Tcase	74 °C
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Other features	
Memory channels *	Quad-channel	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
ECC	✓		
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
PCI Express slots version	3.0		

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