



HP Intel Xeon E5-2680 V3 processor 2.5 GHz 30 MB L3

Brand : HP

Product code: J6F29AV

Product name : Intel Xeon E5-2680 V3

Intel Xeon E5-2680 V3 (30M Cache, 2.50 GHz) 12-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 *	E5-2680V3	PCI Express slots version	3.0
Processor base frequency *	2.5 GHz	Supported instruction sets	AES, AVX 2.0
Processor cores *	12	Scalability	2S
Processor socket *	LGA 2011-v3	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✓
Processor lithography *	22 nm	Processor special features	
Processor threads	24	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	9.6 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor operating modes *	32-bit, 64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.3 GHz	Intel Flex Memory Access	✗
Processor cache	30 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	120 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.30 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	68 GB/s	Intel TSX-NI	✗
Memory		Intel® OS Guard	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	84.5 °C
Graphics		Other features	
On-board graphics card *	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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