



HP Intel Xeon E5-2637 v3 processor 3.5 GHz 15 MB L3

Brand : HP

Product code: J6F71AV

Product name : Intel Xeon E5-2637 v3



Intel Xeon E5-2637 v3, 3.5 GHz (3.7 GHz Turbo), 15 MB Cache, 9.6 GT/s, 22 nm, 64 bit

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Processor		Features	
Processor model *	E5-2637V3	Maximum number of PCI Express lanes	40
Processor base frequency *	3.5 GHz	PCI Express slots version	3.0
Processor family *	Intel Xeon E5 v3	Supported instruction sets	AVX 2.0
Processor cores *	4	Scalability	2S
Processor socket *	LGA 2011-v3	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	9.6 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	32-bit, 64-bit	Intel® Smart Cache	✓
Processor boost frequency	3.7 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	15 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	135 W	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)	68 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	DDR4-SDRAM	Operational conditions	
Memory clock speeds supported by processor	1600,1866,2133 MHz	Tcase	76.6 °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	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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