



HP Intel Xeon E5-1650 v3 processor 3.5 GHz 15 MB Smart Cache

Brand : HP

Product code: 790695-001

Product name : Intel Xeon E5-1650 v3

Intel Xeon E5-1650 v3, 15M Cache, 3.5 GHz, 0 GT/s QPI

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HP Intel Xeon E5-1650 v3. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 1S. Compatibility: Z440

Processor		Features	
Processor model *	E5-1650V3	Supported instruction sets	AVX 2.0
Processor base frequency *	3.5 GHz	Scalability	1S
Processor family *	Intel Xeon E5 v3	Physical Address Extension (PAE)	✓
Processor cores *	6	CPU configuration (max)	1
Processor socket *	LGA 2011-v3	Embedded options available	✗
Component for	Server/workstation	Physical Address Extension (PAE)	46 bit
Processor lithography *	22 nm	Processor special features	
Processor series	Intel Xeon E5-1600 v3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	12	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	0 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel Flex Memory Access	✗
Processor boost frequency	3.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	15 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	140 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.65 - 1.3 V	Intel Demand Based Switching	✓
Stepping	R2	Intel® Secure Key	✓
Bus type	QPI	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	68 GB/s	Intel® OS Guard	✓
Memory		Intel 64	✓
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	1333,1600,1866,2133 MHz	Conflict-Free processor	✓
Memory channels *	Quad-channel	Intel® vPro™ Platform Eligibility	✓
ECC	✓	Operational conditions	
Graphics		Tcase	66.7 °C
On-board graphics card *	✗	Other features	
Features		Compatibility	Z440
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		



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