



HP Intel Xeon E5-2643 processor 3.3 GHz 10 MB L3

Brand : HP

Product code: 683618-001

Product name : Intel Xeon E5-2643

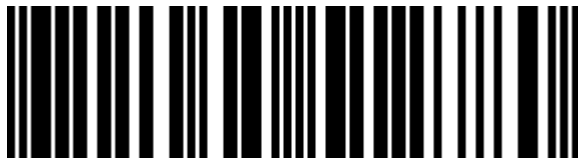


Intel Xeon E5-2643, 3.3 GHz (3.5 GHz Turbo), 10 MB Cache, 8 GT/s, 32 nm

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Processor		Features	
Processor model *	E5-2643	Maximum number of PCI Express lanes	40
Processor base frequency *	3.3 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 Family	Scalability	2S
Processor cores *	4	Processor special features	
Processor socket *	LGA 2011 (Socket R)	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Component for	Server/workstation	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor lithography *	32 nm	Intel® Turbo Boost Technology	2.0
Processor threads	8	Intel Flex Memory Access	✗
System bus rate	8 GT/s	Intel® Smart Cache	✓
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	3.5 GHz	Enhanced Intel SpeedStep Technology	✓
Processor cache	10 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	0.60 - 1.35 V	Intel Virtualization Technology (VT-x)	✓
Bus type	QPI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of QPI links	2	Intel® vPro™ Platform Eligibility	✓
Memory bandwidth supported by processor (max)	51.2 GB/s	Operational conditions	
Memory		Tcase	73 °C
Maximum internal memory supported by processor	384 GB	Packaging data	
Memory types supported by processor	DDR3-SDRAM	Package width	52.5 mm
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Package depth	45 mm
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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