



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

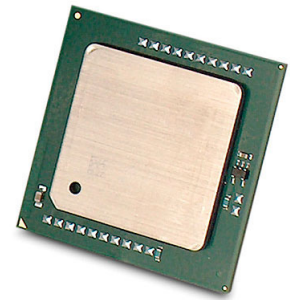
Brand : HP

Product code: 654774-B21

Product name : Intel Xeon E5-2643

Intel Xeon Processor E5-2643, 10Mb Cache, 3.30GHz, 8.00GT/s Intel QPI

HP Intel Xeon E5-2643. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: S2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x



Processor		Features	
Processor model *	E5-2643	Thermal Monitoring Technologies	✓
Processor base frequency *	3.3 GHz	Market segment	Server
Processor family *	Intel® Xeon® E5 Family	PCI Express slots version	3.0
Processor cores *	4	Supported instruction sets	AVX
Processor socket *	LGA 2011 (Socket R)	Scalability	S2S
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	32 nm	Processor special features	
Processor threads	8	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel Flex Memory Access	✓
Processor boost frequency	3.5 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	10 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	130 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.60 - 1.35 V	Intel Demand Based Switching	✓
Stepping	M1	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	750 GB	Other features	
Memory types supported by processor	DDR3-SDRAM	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Memory clock speeds supported by processor	800,1066,1333,1600 MHz		
Memory channels *	Quad-channel		
ECC	✓		
Features			
Execute Disable Bit	✓		
Idle States	✓		

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