

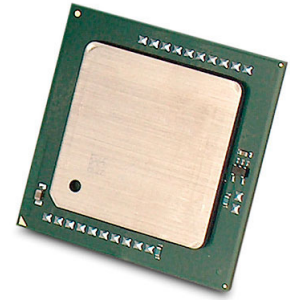


HP Intel Xeon E5-2640 processor 2.5 GHz 15 MB L3 Box

Brand : HP

Product code: 662323-B21

Product name : Intel Xeon E5-2640



Intel Xeon Processor E5-2640 (15M Cache, 2.50 GHz, 7.20 GT/s Intel QPI)
HP Intel Xeon E5-2640. 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, Graphics & IMC lithography: 32 nm. Processor package size: 52.5 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor model *	E5-2640	Idle States	✓
Processor base frequency *	2.5 GHz	Thermal Monitoring Technologies	✓
Processor family *	Intel® Xeon® E5 Family	Market segment	Server
Processor cores *	6	PCI Express slots version	3.0
Processor socket *	LGA 2011 (Socket R)	Supported instruction sets	AVX
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	32 nm	Embedded options available	✗
Processor threads	12	Graphics & IMC lithography	32 nm
System bus rate	7.2 GT/s	Processor special features	
Processor operating modes *	64-bit	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3 GHz	Intel® Rapid Start Technology	✓
Processor cache	15 MB	Intel Smart Connect Technology	✓
Processor cache type	L3	Intel Flex Memory Access	✓
Thermal Design Power (TDP)	95 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Box *	✓	Enhanced Intel SpeedStep Technology	✓
VID Voltage Range	0.6 - 1.35 V	Intel Trusted Execution Technology	✓
Stepping	C2	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
CPU multiplier (bus/core ratio)	30	Intel Virtualization Technology (VT-x)	✓
Number of QPI links	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	42.6 GB/s	Operational conditions	
Memory		Tcase	73 °C
Maximum internal memory supported by processor	750 GB	Weight & dimensions	
Memory types supported by processor	DDR3-SDRAM	Processor package size	52.5 mm
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Other features	
Memory channels *	Quad-channel	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
ECC	✓		
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		

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