



# HP Intel Xeon E5-2640 2.5GHz processor

Brand : HP

Product code: 654416-B21

Product name : Intel Xeon E5-2640 2.5GHz



Intel Xeon E5-2640, 15M Cache, 2.50GHz, 7.20GT/s Intel QPI  
HP Intel Xeon E5-2640 2.5GHz. 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. Supported instruction sets: AVX, Scalability: S2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor model *	E5-2640	Thermal Monitoring Technologies	✓
Processor base frequency *	2.5 GHz	Supported instruction sets	AVX
Processor family *	Intel® Xeon® E5 Family	Scalability	S2S
Processor cores *	6	CPU configuration (max)	2
Processor socket *	LGA 2011 (Socket R)	<b>Processor special features</b>	
Processor lithography *	32 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	12	Intel® Turbo Boost Technology	✓
System bus rate	7.2 GT/s	Intel Flex Memory Access	✓
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	3 GHz	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	95 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.60 - 1.35 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	42.6 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
<b>Memory</b>		Intel® vPro™ Platform Eligibility	✓
Maximum internal memory supported by processor	750 GB	<b>Operational conditions</b>	
Memory types supported by processor	DDR3-SDRAM	Tcase	73 °C
Memory clock speeds supported by processor	800,1066,1333 MHz	<b>Other features</b>	
Memory channels *	Quad-channel	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
ECC	✓		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		

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