



## HP Xeon E5-2690 processor 2.9 GHz 20 MB L3

Brand : HP

Product code: 662076-B21

Product name : Xeon E5-2690



Xeon E5-2690 (20M Cache, 2.90 GHz, 8.00 GT/s Intel QPI)  
HP Xeon E5-2690. 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. Processor package size: 52.5 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x



Processor		Features	
Processor model *	E5-2690	Thermal Monitoring Technologies	✓
Processor base frequency *	2.9 GHz	Market segment	Server
Processor family *	Intel® Xeon® E5 Family	PCI Express slots version	3.0
Processor cores *	8	Supported instruction sets	AVX
Processor socket *	LGA 2011 (Socket R)	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✗
Processor lithography *	32 nm	<b>Processor special features</b>	
Processor threads	16	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	3.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	20 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	135 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel Demand Based Switching	✓
VID Voltage Range	0.6 - 1.35 V	Intel Virtualization Technology (VT-x)	✓
Bus type	QPI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
CPU multiplier (bus/core ratio)	38	Intel® vPro™ Platform Eligibility	✓
Number of QPI links	2	<b>Operational conditions</b>	
Memory bandwidth supported by processor (max)	51.2 GB/s	Tcase	72 °C
<b>Memory</b>		<b>Weight &amp; dimensions</b>	
Maximum internal memory supported by processor	750 GB	Processor package size	52.5 mm
Memory types supported by processor	DDR3-SDRAM	<b>Other features</b>	
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Memory channels *	Quad-channel		
ECC	✓		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		

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