

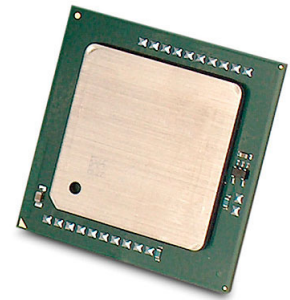


# HP Intel Xeon E5-2680 processor 2.7 GHz 20 MB L3 Box

Brand : HP

Product code: 662933-B21

Product name : Intel Xeon E5-2680



Intel Xeon Processor E5-2680 (20M Cache, 2.70 GHz, 8.00 GT/s Intel QPI)  
HP Intel Xeon E5-2680. 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 *	E5-2680	Idle States	✓
Processor base frequency *	2.7 GHz	Thermal Monitoring Technologies	✓
Processor family *	Intel® Xeon® E5 Family	Market segment	Server
Processor cores *	8	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	16	Graphics & IMC lithography	32 nm
System bus rate	8 GT/s	<b>Processor special features</b>	
Processor operating modes *	64-bit	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3.5 GHz	Intel® Turbo Boost Technology	✓
Processor cache	20 MB	Intel Flex Memory Access	✓
Processor cache type	L3	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	130 W	Enhanced Intel SpeedStep Technology	✓
Box *	✓	Intel Trusted Execution Technology	✓
VID Voltage Range	0.6 - 1.35 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	C2	Intel Demand Based Switching	✓
Bus type	QPI	Intel Virtualization Technology (VT-x)	✓
CPU multiplier (bus/core ratio)	35	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	<b>Operational conditions</b>	
<b>Memory</b>		Tcase	85 °C
Maximum internal memory supported by processor	750 GB	<b>Weight &amp; dimensions</b>	
Memory types supported by processor	DDR3-SDRAM	Processor package size	52.5 mm
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	<b>Other features</b>	
Memory channels *	Quad-channel	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
ECC	✓		
<b>Graphics</b>			
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		

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