

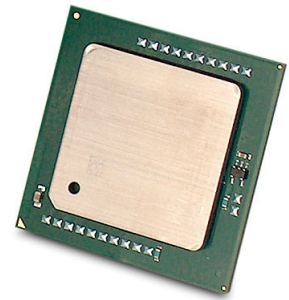


# HP Intel Xeon E5-4650 processor 2.7 GHz 20 MB L3

Brand : HP

Product code: 679098-B21

Product name : Intel Xeon E5-4650



Intel Xeon E5-4650 (20M Cache, 2.70 GHz, 8.00 GT/s QPI)  
HP Intel Xeon E5-4650. 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: 1.5 TB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: S4S. Processor package size: 52.5 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor model *	E5-4650	Thermal Monitoring Technologies	✓
Processor base frequency *	2.7 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)	Scalability	S4S
Component for	Server/workstation	CPU configuration (max)	4
Processor lithography *	32 nm	Embedded options available	✗
Processor threads	16	<b>Processor special features</b>	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.3 GHz	Intel Flex Memory Access	✓
Processor cache	20 MB	Intel® Smart Cache	✓
Processor cache type	L3	Intel® AES New Instructions (Intel® AES-NI)	✓
L3 cache speed	2.7 GHz	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	130 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.6 - 1.35 V	Intel Enhanced Halt State	✓
Stepping	C2	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)	51.2 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
<b>Memory</b>		Intel® vPro™ Platform Eligibility	✓
Maximum internal memory supported by processor	1.5 TB	<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>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 22-DEC-2023. Prints or copies of Information are only valid on the printed Publication date