



HP Intel Xeon E5-1660 v2 processor 3.7 GHz 15 MB L3

Brand : HP

Product code: E2Q99AV

Product name : Intel Xeon E5-1660 v2

Intel Xeon E5-1660 v2, 3.7 GHz (4 GHz Turbo), 15 MB Cache, 22 nm, 64-bit

[HP Intel Xeon E5-1660 v2 processor 3.7 GHz 15 MB L3:](#)

We are in a multi-year journey to turn HP around, and we have put in place a plan to restore HP to growth. We know where we need to go, and we're making progress.

We continue to drive product innovation in our core markets, with a focus on cloud, security, and big data.

We see big opportunities ahead, and we are well positioned to take advantage of these opportunities with our remarkable set of assets and strengths. We have the people, the plan, and the foundation in place to help us succeed on the next phase of the journey.



Processor		Features	
Processor model *	E5-1660V2	Maximum number of PCI Express lanes	40
Processor base frequency *	3.7 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 V2 Family	Supported instruction sets	AVX
Processor cores *	6	Scalability	1S
Processor socket *	LGA 2011 (Socket R)	Embedded options available	✗
Component for	Server/workstation	Processor special features	
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	12	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	0 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel Flex Memory Access	✗
Processor boost frequency	4 GHz	Intel® Smart Cache	✓
Processor cache	15 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	130 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.30 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Maximum internal memory supported by processor	256 GB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR3-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	70 °C
Graphics		Other features	
On-board graphics card *	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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. Automated scraping, data mining, or harvesting for the purpose of training machine learning models, neural networks, or artificial intelligence systems is strictly prohibited without a commercial license.