



## HP Intel Xeon E5-1680 v4 processor 3.4 GHz 20 MB L3

**Brand :** HP

**Product code:** 864637-001

**Product name :** Intel Xeon E5-1680 v4

Intel Xeon E5-1680 v4, 20M Cache, 3.4 GHz, 0 GT/s QPI

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HP Intel Xeon E5-1680 v4. Processor family: Intel® Xeon® E5 v4, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.54 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 1S

Processor		Features	
Processor model *	E5-1680V4	Supported instruction sets	AVX 2.0
Processor base frequency *	3.4 GHz	Scalability	1S
Processor family *	Intel® Xeon® E5 v4	Physical Address Extension (PAE)	✓
Processor cores *	8	CPU configuration (max)	1
Processor socket *	LGA 2011-v3	Embedded options available	✗
Component for	Server/workstation	Physical Address Extension (PAE)	46 bit
Processor lithography *	14 nm	<b>Processor special features</b>	
Processor series	Intel Xeon E5-1600 v4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	16	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® 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)	140 W	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Secure Key	✓
<b>Memory</b>		Intel TSX-NI	✓
Maximum internal memory supported by processor	1.54 TB	Intel® OS Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel 64	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Intel Virtualization Technology (VT-x)	✓
Memory channels *	Quad-channel	Intel Virtualization Technology for Directed I/O (VT-d)	✓
ECC	✓	Conflict-Free processor	✓
<b>Graphics</b>		Intel® vPro™ Platform Eligibility	✓
On-board graphics card *	✗	<b>Operational conditions</b>	
<b>Features</b>		Tcase	70 °C
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		

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Publication date: 26-JUL-2025. Prints or copies of Information are only valid on the printed Publication date