



# HP Intel Xeon E5-1620 v2 processor 3.7 GHz 10 MB L3

Brand : HP

Product code: E2R01AV

Product name : Intel Xeon E5-1620 v2

Intel Xeon E5-1620 v2, 3.7 GHz (3.9 GHz Turbo), 10 MB Cache, 22 nm, 64-bit

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Processor		Features	
Processor model *	E5-1620V2	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 *	4	Scalability	1S
Processor socket *	LGA 2011 (Socket R)	Embedded options available	✗
Component for	Server/workstation	<b>Processor special features</b>	
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.9 GHz	Intel Flex Memory Access	✗
Processor cache	10 MB	Intel® Smart Cache	✓
Processor cache type	L3	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	130 W	Enhanced Intel SpeedStep Technology	✓
VID Voltage Range	0.65 - 1.30 V	Intel Trusted Execution Technology	✓
Bus type	QPI	Intel VT-x with Extended Page Tables (EPT)	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel Demand Based Switching	✓
<b>Memory</b>		Intel® Secure Key	✓
Maximum internal memory supported by processor	256 GB	Intel TSX-NI	✗
Memory types supported by processor	DDR3-SDRAM	Intel Virtualization Technology (VT-x)	✓
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels *	Quad-channel	Intel® vPro™ Platform Eligibility	✓
ECC	✓	<b>Operational conditions</b>	
<b>Graphics</b>		Tcase	70 °C
On-board graphics card *	✗	<b>Other features</b>	
<b>Features</b>		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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