



## HP Intel Xeon E5-2687W v2 processor 3.4 GHz 25 MB Smart Cache

**Brand :** HP

**Product code:** 733626-001

**Product name :** Intel Xeon E5-2687W v2

Intel Xeon E5-2687W v2, 25M Cache, 3.4 GHz, 8 GT/s QPI

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HP Intel Xeon E5-2687W v2. Processor family: Intel® Xeon® E5 V2 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 256 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Compatibility: Z820

Processor		Features	
Processor model *	E5-2687WV2	PCI Express slots version	3.0
Processor base frequency *	3.4 GHz	Supported instruction sets	AVX
Processor family *	Intel® Xeon® E5 V2 Family	Scalability	2S
Processor cores *	8	Physical Address Extension (PAE)	✓
Processor socket *	LGA 2011 (Socket R)	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✗
Processor lithography *	22 nm	Physical Address Extension (PAE)	46 bit
Processor series	Intel Xeon E5-2600 v2	<b>Processor special features</b>	
Processor threads	16	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	4 GHz	Intel Flex Memory Access	✗
Processor cache	25 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	150 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	M1	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel® OS Guard	✓
<b>Memory</b>		Intel 64	✓
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	Conflict-Free processor	✓
Memory channels *	Quad-channel	Intel® vPro™ Platform Eligibility	✓
ECC	✓	<b>Operational conditions</b>	
<b>Graphics</b>		Tcase	72 °C
On-board graphics card *	✗	<b>Other features</b>	
<b>Features</b>		Compatibility	Z820
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		

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