



HP Intel Xeon E5-2680 v2 10C 2.8GHz processor 25 MB L3

Brand : HP

Product code: E2Q12AV

Product name : Intel Xeon E5-2680 v2 10C 2.8GHz

Intel Xeon Processor E5-2680 v2 (25M Cache, 2.80 GHz)

HP Intel Xeon E5-2680 v2 10C 2.8GHz. 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: 768 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x



Processor		Features	
Processor model *	E5-2680V2	Maximum number of PCI Express lanes	40
Processor base frequency *	2.8 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 V2 Family	Supported instruction sets	AVX
Processor cores *	10	Scalability	2S
Processor socket *	LGA 2011 (Socket R)	Physical Address Extension (PAE)	✓
Component for	Server/workstation	Embedded options available	✓
Processor lithography *	22 nm	Processor special features	
Processor threads	20	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	✓
Processor boost frequency	3.6 GHz	Intel Flex Memory Access	✗
Processor cache	25 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	115 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.6 - 1.30 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	768 GB	Intel® vPro™ Platform Eligibility	✓
Memory types supported by processor	DDR3-SDRAM	Operational conditions	
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Tcase	82 °C
Memory channels *	Quad-channel	Other features	
ECC	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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