Lenovo Intel Xeon E5-2680 v2 processor 2.8 GHz 25 MB L2

Brand : Lenovo

Product code: 0C19549

Product name : Intel Xeon E5-2680 v2

Intel Xeon E5-2680 v2, 2.8 GHz, 25 MB Cache, 8 GT/s, 22 nm

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Increased performance Higher frequency and higher core count SKUs available Up to 12 cores/24 threads Higher memory speed support : up to 1866 MHz (depending on system design) Increased virtualization performance : APIC Virtualization Increased energy efficiency through 22nm tri-gate process technology Increased security through new processor technologies Intel Platform Protection Technology with OS Guard Intel Data Protection Technology with Secure Key.
Lenovo Intel Xeon E5-2680 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: 768 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, PCI Express configurations: 1x4, 1x8, 1x16, Scalability: 2S. Width: 45 mm, Depth: 52.5 mm, Height: 4.56 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor	
Processor model *	E5-2680V2
Processor base frequency *	2.8 GHz
Processor family *	Intel® Xeon® E5 V2 Family
Processor cores *	10
Processor socket *	LGA 2011 (Socket R)
Component for	Server/workstation
Processor lithography *	22 nm
Processor threads	20
System bus rate	8 GT/s
Processor operating modes *	32-bit, 64-bit
Processor boost frequency	3.6 GHz
Processor cache	25 MB
Processor cache type	L2
Thermal Design Power (TDP)	115 W
VID Voltage Range	0.65 - 1.30 V
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	59.7 GB/s

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz
Memory channels *	Quad-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server
PCI Express slots version	3.0
PCI Express configurations	1x4, 1x8, 1x16
Scalability	2S

Processor special features	
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
AMD Cool'n'Quiet Technology	✗
AMD HD Internet Technology	✗
AMD HyperTransport Technology	✗
AMD Optimization for Cloud Computing	✗
AMD Virtualization Technology	✗
AMD VISION FX Technology	✗
AMD Turbo CORE technology	✗
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Operating temperature (T-T)	0 - 70 °C
Operating relative humidity (H-H)	10 - 90%
Tcase	82 °C

Weight & dimensions	
Width	45 mm
Depth	52.5 mm
Height	4.56 mm
Weight	100 g

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

Features	
Embedded options available	✗
Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓

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