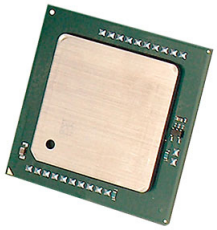
Lenovo Intel Xeon E5-2630 v3 processor 2.4 GHz 20 MB L3

Brand : Lenovo

Product code: 00FM021

Product name : Intel Xeon E5-2630 v3



Intel Xeon E5-2630 v3 (20M Cache, 2.40 GHz)
Lenovo Intel Xeon E5-2630 v3. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor	
Processor model *	E5-2630V3
Processor base frequency *	2.4 GHz
Processor family *	Intel Xeon E5 v3
Processor cores *	8
Processor socket *	LGA 2011-v3
Component for	Server/workstation
Processor lithography *	22 nm
Processor threads	16
System bus rate	8 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.2 GHz
Processor cache	20 MB
Processor cache type	L3
L3 cache speed	2.4 GHz
Thermal Design Power (TDP)	85 W
VID Voltage Range	0.65 - 1.3 V
Stepping	R2
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	59 GB/s

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	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

Features	
Maximum number of PCI Express lanes	40
PCI Express slots version	3.0
Supported instruction sets	AVX
Scalability	2S
Physical Address Extension (PAE)	✓
CPU configuration (max)	2
Embedded options available	✗

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® Smart Cache	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel® OS Guard	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	72.1 °C

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

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