

Intel Xeon E5-2430LV2 processor 2.4 GHz 15 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8063401376704

Product name : E5-2430LV2



Intel® Xeon® Processor E5-2430L v2
(15M Cache, 2.40 GHz)

Intel Xeon E5-2430LV2. Processor family: Intel® Xeon® E5 V2 Family, Processor socket: LGA 1356 (Socket B2), Processor lithography: 22 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 384 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, PCI Express configurations: x4, x8, x16, Supported instruction sets: AVX. Intel® Turbo Boost Technology 2.0 frequency: 2.8 GHz. Processor package size: 45mm x 42.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2430LV2	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2.4 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E5 V2 Family	Intel Flex Memory Access	✗
Processor cores *	6	Intel® Smart Cache	✓
Processor socket *	LGA 1356 (Socket B2)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	Server/workstation	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	22 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Xeon E5-2400 v2	Intel® Turbo Boost Technology 2.0 frequency	2.8 GHz
Processor threads	12	Intel® Transactional Synchronization Extensions	✗
System bus rate	7.2 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	2.8 GHz	Intel Demand Based Switching	✓
Processor cache	15 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel TSX-NI	✗
L3 cache speed	2.4 GHz	Intel® OS Guard	✓
Thermal Design Power (TDP)	60 W	Intel 64	✓
Box *	✗	Intel Identity Protection Technology version	0.00
Cooler included *	✗	Intel Secure Key Technology version	1.00
VID Voltage Range	0.65 - 1.3 V	Intel Virtualization Technology (VT-x)	✓
Stepping	S1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Intel TSX-NI version	0.00
Number of QPI links	1	Conflict-Free processor	✗
Memory bandwidth supported by processor (max)	38.4 GB/s		
Processor codename	Ivy Bridge EN		
Processor code	SR1B2		
Processor ARK ID	75786		
Memory		Operational conditions	
Maximum internal memory supported by processor	384 GB	Tcase	69 °C
Memory types supported by processor	DDR3-SDRAM		

Memory		Technical details	
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Born on date	Q1'14
Memory channels *	Triple-channel	Bus bandwidth	7.2
ECC	✓	Bus type units	GT/s
Graphics		Launch date	Q1'14
On-board graphics card *	✗	Processor cache	15360 KB
Features		Processor core voltage	0.65-1.30 V
Execute Disable Bit	✓	Product name	Intel Xeon E5-2430L v2 (15M Cache, 2.40 GHz)
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✓	Status	Launched
Market segment	Server	Maximum memory	384 GB
Maximum number of PCI Express lanes	24	Processor brand name	Intel Xeon v2
PCI Express slots version	3.0	Supported memory types	DDR3-SDRAM
PCI Express configurations	x4, x8, x16	Last change	63903513
Supported instruction sets	AVX	Product family	Intel Xeon Processor E5 v2 Family
Bandwidth	7.2 MB/s	Bus speed	7.2 GT/s
Scalability	2S	Logistics data	
Physical Address Extension (PAE)	✓	Harmonized System (HS) code	8542310001
CPU configuration (max)	2	Weight & dimensions	
Embedded options available	✗	Processor package size	45mm x 42.5mm
Physical Address Extension (PAE)	46 bit	Other features	
PCI Express CEM revision	3.0	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	384 GB
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	393216 MB
		Cache memory	15 MB

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