

Intel Xeon E5-2650LV2 processor 1.7 GHz 25 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8063501287602

Product name : E5-2650LV2



Intel® Xeon® Processor E5-2650L v2
(25M Cache, 1.70 GHz)

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The explosive growth of unstructured data puts new demands on network and storage infrastructure and challenges your ability to deliver services such as cloud computing. IT needs to respond rapidly to new and changing business demands, scale quickly and appropriately to fluctuating workloads, accommodate business expansions, and protect your data from cybercriminals—all while keeping costs down.

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Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-2650LV2	Intel® Turbo Boost Technology	2.0
Processor base frequency *	1.7 GHz	Intel Flex Memory Access	✗
Processor family *	Intel® Xeon® E5 V2 Family	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	10	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2011 (Socket R)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Turbo Boost Technology 2.0 frequency	2.1 GHz
Processor lithography *	22 nm	Intel® Transactional Synchronization Extensions	✗
Processor series	Intel Xeon E5-2600 v2	Intel Enhanced Halt State	✓
Processor threads	20	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	7.2 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	2.1 GHz	Intel TSX-NI	✗
Processor cache	25 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	70 W	Intel Identity Protection Technology version	0.00
Box *	✗	Intel Secure Key Technology version	1.00
Cooler included *	✗	Intel Virtualization Technology (VT-x)	✓
VID Voltage Range	0.65 - 1.3 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Intel TSX-NI version	0.00
Number of QPI links	2	Conflict-Free processor	✗
Memory bandwidth supported by processor (max)	51.2 GB/s	Intel® vPro™ Platform Eligibility	✓
Processor codename	Ivy Bridge EP	Operational conditions	
Processor ARK ID	75270	Tcase	65 °C
Memory		Technical details	
Maximum internal memory supported by processor	768 GB	Born on date	Q3'13
Memory types supported by processor	DDR3-SDRAM	Bus bandwidth	7.2
Memory clock speeds supported by processor	800,1066,1333,1600 MHz		
Memory channels *	Quad-channel		
ECC	✓		

Graphics		Technical details	
On-board graphics card *	✘	Bus type units	GT/s
Features		Launch date	Q3'13
Execute Disable Bit	✓	Processor cache	25600 KB
Idle States	✓	Processor core voltage	0.65-1.30
Thermal Monitoring Technologies	✓	Product name	Intel Xeon E5-2650L v2 (25M Cache, 1.70 GHz)
Market segment	Server	Product type	Processor
Maximum number of PCI Express lanes	40	Status	Launched
PCI Express slots version	3.0	Maximum memory	768 GB
PCI Express configurations	x4, x8, x16	Processor brand name	Intel Xeon v2
Supported instruction sets	AVX	Supported memory types	DDR3-SDRAM
Scalability	2S	Last change	63903513
CPU configuration (max)	2	Product family	Intel Xeon Processor E5 v2 Family
Embedded options available	✘	Bus speed	7.2 GT/s
Physical Address Extension (PAE)	46 bit	Logistics data	
PCI Express CEM revision	3.0	Harmonized System (HS) code	8542310001
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G077159	Processor package size	52.5mm x 45mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB
		Cache memory	25 MB



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