

Intel Xeon E5-2640V2 processor 2 GHz 20 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8063501288202

Product name : E5-2640V2

Intel® Xeon® Processor E5-2640 v2
(20M Cache, 2.00 GHz)

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Now with greater performance, efficiency, and security to fortify your cloud solutions.



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 *	E5-2640V2	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2 GHz	Intel Flex Memory Access	✗
Processor family *	Intel® Xeon® E5 Family	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	8	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	2.5 GHz
Processor lithography *	22 nm	Intel® Transactional Synchronization Extensions	✗
Processor series	Intel Xeon E5-2600 v2	Intel Enhanced Halt State	✓
Processor threads	16	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	2.5 GHz	Intel TSX-NI	✗
Processor cache	20 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	95 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		
Processor ARK ID	75267		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	75 °C
Memory types supported by processor	DDR3-SDRAM	Technical details	
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Bus bandwidth	7.2
Memory channels *	Quad-channel	Bus type units	GT/s
ECC	✓		

Graphics		Technical details	
On-board graphics card *	✘	Launch date	Q3'13
Features		Processor cache	20480 KB
Execute Disable Bit	✔	Product type	Processor
Idle States	✔	Status	Launched
Thermal Monitoring Technologies	✔	Maximum memory	768 GB
Market segment	Server	Processor brand name	Intel Xeon
Maximum number of PCI Express lanes	40	Supported memory types	DDR3-SDRAM
PCI Express slots version	3.0	Last change	63903513
Supported instruction sets	AVX	Product family	Intel Xeon Processor E5 v2 Family
Scalability	2S	Bus speed	7.2 GT/s
CPU configuration (max)	2	Logistics data	
Embedded options available	✔	Harmonized System (HS) code	8542310001
Physical Address Extension (PAE)	46 bit	Packaging data	
PCI Express CEM revision	3.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G077159	Processor package size	52.5mm x 51mm
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



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