

Intel Xeon E5-2430 v2 processor 2.5 GHz 15 MB L3 Box



Brand : Intel

Product family: Xeon

Product code:
BX80634E52430V2

Product name : E5-2430 v2

Intel Xeon E5-2430 v2, 2.5 GHz (3 GHz Turbo), 15 MB Cache, 7.2 GT/s, 22 nm

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Servers and storage solutions based on Intel® Xeon® processors deliver an unmatched combination of performance and built-in capabilities to support virtualized data centers and next-generation private clouds that are flexible, efficient, cost-effective, and built to scale.

Intel Xeon E5-2430 v2. 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, Scalability: 2S. Package width: 42.5 mm, Package depth: 45 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x



Processor		Features	
Processor manufacturer *	Intel	Thermal Monitoring Technologies	✓
Processor model *	E5-2430V2	Market segment	Server
Processor base frequency *	2.5 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 V2 Family	Scalability	2S
Processor cores *	6	Embedded options available	✓
Processor socket *	LGA 1356 (Socket B2)	Processor special features	
Component for	Server/workstation	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography *	22 nm	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor threads	12	Intel® Turbo Boost Technology	2.0
System bus rate	7.2 GT/s	Intel Flex Memory Access	✗
Processor operating modes *	32-bit, 64-bit	Intel® Smart Cache	✓
Processor boost frequency	3 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	15 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	80 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✓	Intel Demand Based Switching	✓
VID Voltage Range	0.65 - 1.30 V	Intel® Secure Key	✓
Bus type	QPI	Intel TSX-NI	✗
Number of QPI links	1	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	38.4 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	75785	Operational conditions	
Memory		Tcase	76 °C
Maximum internal memory supported by processor	384 GB	Packaging data	
Memory types supported by processor	DDR3-SDRAM	Package width	42.5 mm
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Package depth	45 mm
Memory channels *	Triple-channel	Other features	
ECC	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		



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