

Intel Xeon E5-2420 processor 1.9 GHz 15 MB Smart Cache Box

Brand : Intel

Product family: Xeon

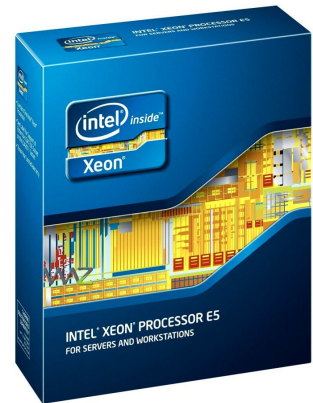
Product code:
BX80621E52420

Product name : E5-2420


Intel® Xeon® Processor E5-2420

(15M Cache, 1.90 GHz, 7.20 GT/s Intel® QPI)

Intel Xeon E5-2420. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 1356 (Socket B2), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 375 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 45mm x 42.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2420	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	1.9 GHz	Intel® Turbo Boost Technology	1.0
Processor family *	Intel® Xeon® E5 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 *	32 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Xeon E5-2400	Intel Enhanced Halt State	✓
Processor threads	12	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 64	✓
Processor boost frequency	2.4 GHz	Intel Identity Protection Technology version	0.00
Processor cache	15 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
L3 cache speed	1.9 GHz	Intel® vPro™ Platform Eligibility	✓
Thermal Design Power (TDP)	95 W		
Box *	✓	Technical details	
Cooler included *	✓	Born on date	Q2'12
VID Voltage Range	0.6 - 1.35 V	Bus bandwidth	7.2
Stepping	C2	Bus type units	GT/s
Bus type	QPI	Launch date	Q2'12
Number of QPI links	1	Processor cache	15360 KB
Memory bandwidth supported by processor (max)	32 GB/s	Processor core voltage	0.6-1.35 V
Processor codename	Sandy Bridge EN	Product name	Intel Xeon E5-2420 (15M Cache, 1.90 GHz, 7.20 GT/s Intel QPI)
Processor code	SR0LN	Product type	Processor
Processor ARK ID	64617		
Memory			
Maximum internal memory supported by processor	375 GB		

Memory		Technical details	
Memory types supported by processor	DDR3-SDRAM	Status	Discontinued
Memory clock speeds supported by processor	800,1066,1333 MHz	Maximum memory	384 GB
Memory channels *	Triple-channel	Processor brand name	Intel Xeon
ECC	✓	Supported memory types	DDR3-SDRAM
Features		Last change	63903513
Execute Disable Bit	✓	Product family	Intel Xeon Processor E5 Family
Idle States	✓	Bus speed	7.2 GT/s
Thermal Monitoring Technologies	✓	Logistics data	
Market segment	Server	Harmonized System (HS) code	8542310001
Maximum number of PCI Express lanes	24	Packaging data	
PCI Express slots version	3.0	Package width	44 mm
Supported instruction sets	AVX	Package depth	140 mm
Scalability	2S	Package height	117 mm
CPU configuration (max)	2	Package weight	102 g
Embedded options available	✗	Package type	Retail box
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	45mm x 42.5mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
Images Type Map		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	384 GB
		Maximum internal memory	393216 MB
		Cache memory	15 MB



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