

Intel Xeon E5-4620 processor 2.2 GHz 16 MB Smart Cache Box

Brand : Intel

Product family: Xeon

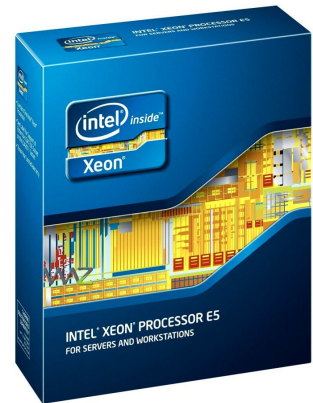
Product code:
BX80621E54620

Product name : E5-4620


Intel® Xeon® Processor E5-4620

(16M Cache, 2.20 GHz, 7.20 GT/s Intel® QPI)

Intel Xeon E5-4620. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.5 TB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 4S. Intel® Turbo Boost Technology 2.0 frequency: 2.6 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-4620	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2.2 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E5 Family	Intel Flex Memory Access	✗
Processor cores *	8	Intel® Smart Cache	✓
Processor socket *	LGA 2011 (Socket R)	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 E5-4600	Intel® Turbo Boost Technology 2.0 frequency	2.6 GHz
Processor threads	16	Intel Enhanced Halt State	✓
System bus rate	7.2 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	2.6 GHz	Intel 64	✓
Processor cache	16 MB	Intel Identity Protection Technology version	0.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
L3 cache speed	2.2 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	95 W	Intel® vPro™ Platform Eligibility	✗
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		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	42.6 GB/s		
Processor codename	Sandy Bridge EP		
Processor code	SR0L4		
Processor ARK ID	64607		

Memory		Technical details	
Maximum internal memory supported by processor	1.5 TB	Launch date	Q2'12
Memory types supported by processor	DDR3-SDRAM	Processor cache	16384 KB
Memory clock speeds supported by processor	800,1066,1333 MHz	Processor core voltage	0.6-1.35 V
Memory channels *	Quad-channel	Product name	Intel Xeon E5-4620 (16M Cache, 2.20 GHz, 7.20 GT/s Intel QPI)
ECC	✓	Product type	Processor
Features		Status	Discontinued
Execute Disable Bit	✓	Maximum memory	384 GB
Idle States	✓	Processor brand name	Intel Xeon
Thermal Monitoring Technologies	✓	Supported memory types	DDR3-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	40	Product family	Intel Xeon Processor E5 Family
PCI Express slots version	3.0	Bus speed	7.2 GT/s
Supported instruction sets	AVX	Logistics data	
Scalability	4S	Harmonized System (HS) code	8542310001
CPU configuration (max)	4	Packaging data	
Embedded options available	✗	Package type	Retail box
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	52.5mm x 45mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
Images Type Map		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Compatibility	Intel S4600LT2, S4600LH2, R2208LT2HKC4, R2304LT2HVC, R2304LH2HKC, R2208LH2HKC2
		Maximum internal memory	384 GB
		Maximum internal memory	393216 MB
		Cache memory	16 MB



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