

Intel Xeon E5-1660 processor 3.3 GHz 15 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80621E51660

Product name : E5-1660


Intel® Xeon® Processor E5-1660

(15M Cache, 3.30 GHz, 0.0 GT/s Intel® QPI)

Intel Xeon E5-1660. 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: 375 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Export Control Classification Number (ECCN): 5A992C. Intel® Turbo Boost Technology 2.0 frequency: 3.9 GHz. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-1660	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.3 GHz	Intel Flex Memory Access	✗
Processor family *	Intel® Xeon® E5 Family	Intel® Smart Cache	✓
Processor cores *	6	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011 (Socket R)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	32 nm	Intel® Turbo Boost Technology 2.0 frequency	3.9 GHz
Processor series	Intel Xeon E5-1600	Intel Enhanced Halt State	✓
Processor threads	12	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	3.9 GHz	Intel 64	✓
Processor cache	15 MB	Intel Identity Protection Technology version	0.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
L2 cache speed	3.3 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	130 W	Intel® vPro™ Platform Eligibility	✓
Box *	✓	Operational conditions	
Cooler included *	✓	Tcase	64 °C
VID Voltage Range	0.6 - 1.35 V	Technical details	
Stepping	C2	Born on date	Q1'12
Bus type	QPI	Launch date	Q1'12
CPU multiplier (bus/core ratio)	39		
Memory bandwidth supported by processor (max)	51.2 GB/s		
Processor codename	Sandy Bridge EP		
Processor code	SR0KN		
Processor ARK ID	64620		

Memory		Technical details	
Maximum internal memory supported by processor	375 GB	Processor cache	15360 KB
Memory types supported by processor	DDR3-SDRAM	Processor core voltage	0.60 - 1.35 V
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Product name	Intel Xeon E5-1660 (15M Cache, 3.30 GHz, 0.0 GT/s Intel QPI)
Memory channels *	Quad-channel	Product type	Processor
ECC	✓	Status	Discontinued
Features		Maximum memory	256 GB
Execute Disable Bit	✓	Processor brand name	Intel Xeon
Idle States	✓	Supported memory types	DDR3-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Server	Product family	Intel Xeon Processor E5 Family
Maximum number of PCI Express lanes	40	Bus speed	0 QPI
PCI Express slots version	3.0	Logistics data	
Supported instruction sets	AVX	Harmonized System (HS) code	8542310001
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package width	44 mm
PCI Express CEM revision	3.0	Package depth	140 mm
Export Control Classification Number (ECCN)	5A992C	Package height	117 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
Images Type Map		Weight & dimensions	
Processor special features		Processor package size	52.5mm x 45mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		L2 cache	15360 KB
		Supported processor frequency (max)	3.9 GHz
		Maximum internal memory	256 GB
		Maximum internal memory	262144 MB
		Cache memory	15 MB



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