

Intel Xeon E5-2650 processor 2 GHz 20 MB Smart Cache Box

Brand : Intel

Product family: Xeon

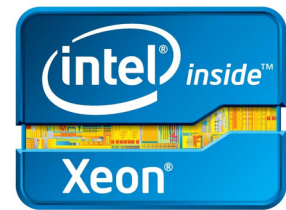
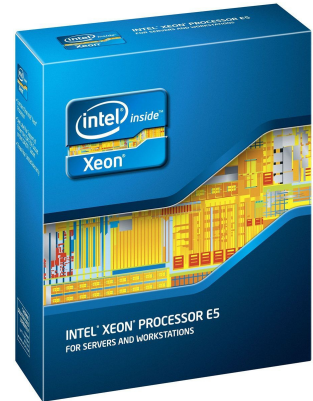
Product code:
BX80621E52650

Product name : E5-2650

Intel® Xeon® Processor E5-2650

(20M Cache, 2.00 GHz, 8.00 GT/s Intel® QPI)

Intel Xeon E5-2650. 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: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Turbo Boost Technology 2.0 frequency: 2.8 GHz. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2650	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E5 Family	Intel Flex Memory Access	✗
Processor cores *	8	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	2.8 GHz
Processor series	Intel Xeon E5-2600	Intel Enhanced Halt State	✓
Processor threads	16	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	2.8 GHz	Intel Identity Protection Technology version	0.00
Processor cache	20 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	95 W	Intel® vPro™ Platform Eligibility	✓
Box *	✓	Operational conditions	
Cooler included *	✓	Tcase	77.4 °C
VID Voltage Range	0.6 - 1.35 V		
Stepping	C2		
Bus type	QPI		
CPU multiplier (bus/core ratio)	28		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	51.2 GB/s		
Processor codename	Sandy Bridge EP		
Processor ARK ID	64590		

Memory		Technical details	
Maximum internal memory supported by processor	750 GB	Born on date	Q1'12
Memory types supported by processor	DDR3-SDRAM	Bus bandwidth	8
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Bus type units	GT/s
Memory channels *	Quad-channel	Launch date	Q1'12
ECC	✓	Processor cache	20480 KB
Graphics		Processor core voltage	0.60-1.35 V
On-board graphics card *	✗	Product name	Intel Xeon E5-2650 (20M Cache, 2.00 GHz, 8.00 GT/s Intel QPI)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	384 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon
Market segment	Server	Supported memory types	DDR3-SDRAM
Maximum number of PCI Express lanes	40	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E5 Family
Supported instruction sets	AVX	Bus speed	8 GT/s
Scalability	2S	Logistics data	
CPU configuration (max)	2	Harmonized System (HS) code	8542310001
Embedded options available	✗	Packaging data	
Graphics & IMC lithography	32 nm	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 weight	125 g
Images Type Map	✗	Package type	Retail box
		Weight & dimensions	
		Processor package size	52.5mm x 45mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	384 GB
		Maximum internal memory	393216 MB
		Cache memory	20 MB



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