Intel Xeon E5-4610 processor 2.4 GHz 15 MB Smart Cache

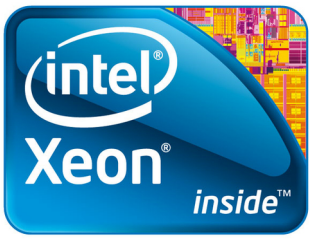
Brand : Intel

Product family: Xeon

Product code: CM8062100862401

Product name : E5-4610

Intel® Xeon® Processor E5-4610
(15M Cache, 2.40 GHz, 7.20 GT/s Intel® QPI)
Intel Xeon E5-4610. 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: 384 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 4S. Intel® Turbo Boost Technology 2.0 frequency: 2.9 GHz. Package type: Retail box



Processor	
Processor manufacturer *	Intel
Processor model *	E5-4610
Processor base frequency *	2.4 GHz
Processor family *	Intel® Xeon® E5 Family
Processor cores *	6
Processor socket *	LGA 2011 (Socket R)
Component for	Server/workstation
Processor lithography *	32 nm
Processor series	Intel Xeon E5-4600
Processor threads	12
System bus rate	7.2 GT/s
Processor operating modes *	64-bit
Processor boost frequency	2.9 GHz
Processor cache	15 MB
Processor cache type	Smart Cache
L3 cache speed	2.4 GHz
Thermal Design Power (TDP)	95 W
Box *	✗
Cooler included *	✗
VID Voltage Range	0.6 - 1.35 V
Compatible chipsets	Intel® C602, Intel® C602J, Intel® C604, Intel® C606, Intel C608
Stepping	C2
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	42.6 GB/s
Processor code	SR0KS
Processor ARK ID	64602

Memory	
Maximum internal memory supported by processor	384 GB
Memory types supported by processor	DDR3-SDRAM

Features	
Commodity Classification Automated Tracking System (CCATS)	G077159
Images Type Map	✗

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® Smart Cache	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel® Turbo Boost Technology 2.0 frequency	2.9 GHz
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel 64	✓
Intel Identity Protection Technology version	0.00
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Conflict-Free processor	✗
Intel® vPro™ Platform Eligibility	✗

Technical details	
Bus bandwidth	7.2
Bus type units	GT/s

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Memory	
Memory clock speeds supported by processor	800,1066,1333 MHz
Memory channels *	Quad-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server
Maximum number of PCI Express lanes	40
PCI Express slots version	3.0
Supported instruction sets	AVX
Scalability	4S
CPU configuration (max)	4
Embedded options available	✗
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C

Technical details	
Launch date	Q2'12
Processor cache	15360 KB
Product type	Processor
Status	Discontinued
Maximum memory	384 GB
Processor brand name	Intel Xeon
Supported memory types	DDR3-SDRAM
Last change	63903513
Product family	Intel Xeon Processor E5 Family
Bus speed	7.2 GT/s

Logistics data	
Harmonized System (HS) code	8542310001

Packaging data	
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

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