

Intel Core i7-4960X processor 3.6 GHz 15 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8063301292500

Product name : i7-4960X



Intel® Core™ i7-4960X Processor Extreme Edition
(15M Cache, up to 4.00 GHz)

Intel Core i7-4960X. Processor family: Intel® Core™ i7 X-series Extreme Edition, Processor socket: LGA 2011 (Socket R), Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Desktop, PCI Express configurations: 5x8, Supported instruction sets: SSE4.2, AVX. Intel® Turbo Boost Technology 2.0 frequency: 4 GHz. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor generation	4th gen Intel® Core™ i7	Intel Trusted Execution Technology	✗
Processor model *	i7-4960X	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor base frequency *	3.6 GHz	AMD Cool'n'Quiet Technology	✗
Processor family *	Intel® Core™ i7 X-series Extreme Edition	AMD HD Internet Technology	✗
Processor cores *	6	AMD HyperTransport Technology	✗
Processor socket *	LGA 2011 (Socket R)	AMD Optimization for Cloud Computing	✗
Component for	PC	AMD Virtualization Technology	✗
Processor lithography *	22 nm	AMD VISION FX Technology	✗
Processor series	Intel Core i7-4900 Desktop Extreme Edition Series	AMD Turbo CORE technology	✗
Processor threads	12	Intel Enhanced Halt State	✓
System bus rate	5 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✗
Processor boost frequency	4 GHz	Intel 64	✓
Processor cache	15 MB	Intel Identity Protection Technology version	1.00
Processor cache type	Smart Cache	Intel Smart Response Technology version	1.00
Thermal Design Power (TDP)	130 W	Intel Virtualization Technology (VT-x)	✓
Box *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Cooler included *	✗	Conflict-Free processor	✓
Generation	4th Generation	Intel® vPro™ Platform Eligibility	✗
Bus type	DMI		
Memory bandwidth supported by processor (max)	59.7 GB/s		
Processor ARK ID	77779		
Memory		Operational conditions	
Maximum internal memory supported by processor	64 GB	Tcase	66.8 °C
Memory types supported by processor	DDR3-SDRAM	Technical details	
Memory clock speeds supported by processor	1333,1600,1866 MHz	Bus bandwidth	5
Memory channels *	Quad-channel	Bus type units	GT/s
ECC	✗	Launch date	Q3'13
Features		Processor cache	15360 KB
Execute Disable Bit	✓	Product type	Processor
Idle States	✓	Status	Discontinued
Thermal Monitoring Technologies	✓	Maximum memory	64 GB
Market segment	Desktop	Processor brand name	Intel Core i7 X-series Intel Core i7 X-series processor
Maximum number of PCI Express lanes	40	Supported memory types	DDR3-SDRAM
		Last change	63903513

Features		Technical details	
PCI Express slots version	3.0	Product family	Intel High End Desktop Processors
PCI Express configurations	5x8	Bus speed	5 GT/s
Supported instruction sets	SSE4.2, AVX	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	8542310001
Embedded options available	✘	Packaging data	
PCI Express CEM revision	3.0	Package width	44 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	140 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package height	117 mm
Processor special features		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Weight & dimensions	
Intel® Identity Protection Technology (Intel® IPT)	✓	Width	52.5 mm
Intel® Smart Response Technology	✓	Depth	45 mm
Intel® Turbo Boost Technology	2.0	Processor package size	52.5mm x 45mm
Intel® Smart Cache	✓	Other features	
Intel® AES New Instructions (Intel® AES-NI)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB

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