

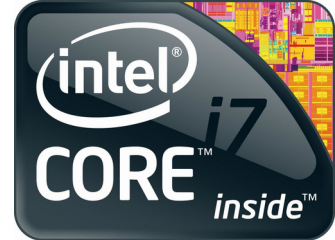
Intel Core i7-3970X processor 3.5 GHz 15 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8061901281201

Product name : i7-3970X



Intel® Core™ i7-3970X Processor Extreme Edition
(15M Cache, up to 4.00 GHz)

Intel Core i7-3970X. Processor family: Intel® Core™ i7 X-series Extreme Edition, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Desktop, Supported instruction sets: SSE4.2, AVX, Export Control Classification Number (ECCN): 5A992C. Intel® Turbo Boost Technology 2.0 frequency: 4 GHz. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	3rd gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-3970X	Intel® Smart Response Technology	✓
Processor base frequency *	3.5 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i7 X-series Extreme Edition	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	PC	Intel Trusted Execution Technology	✗
Processor lithography *	32 nm	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor series	Intel Core i7-3900 Desktop Extreme Edition Series	Intel Enhanced Halt State	✓
Processor threads	12	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	5 GT/s	Intel Demand Based Switching	✗
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	4 GHz	Intel Identity Protection Technology version	1.00
Processor cache	15 MB	Intel Smart Response Technology version	1.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	150 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Box *	✗	Conflict-Free processor	✗
Cooler included *	✗	Intel® vPro™ Platform Eligibility	✗
VID Voltage Range	0.6 - 1.35 V	Operational conditions	
Generation	3rd Generation	Tcase	66.8 °C
Stepping	C2	Technical details	
Bus type	DMI	Bus bandwidth	5
CPU multiplier (bus/core ratio)	35	Bus type units	GT/s
Memory bandwidth supported by processor (max)	51.2 GB/s	Launch date	Q4'12
Processor code	SR0WR	Processor cache	15360 KB
Processor ARK ID	70845		
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR3-SDRAM		

Memory		Technical details	
Memory clock speeds supported by processor	1066,1333,1600 MHz	Product type	Processor
Memory channels *	Quad-channel	Status	Discontinued
ECC	✗	Maximum memory	64.45 GB
Graphics		Processor brand name	Intel Core i7 X-series Intel Core i7 X-series processor
On-board graphics card *	✗	Supported memory types	DDR3-SDRAM
Features		Last change	63903513
Execute Disable Bit	✓	Product family	Intel High End Desktop Processors
Idle States	✓	Bus speed	5 GT/s
Thermal Monitoring Technologies	✓	Logistics data	
Market segment	Desktop	Harmonized System (HS) code	8542310001
Maximum number of PCI Express lanes	40	Packaging data	
PCI Express slots version	2.0	Package type	Retail box
Supported instruction sets	SSE4.2, AVX	Weight & dimensions	
CPU configuration (max)	1	Processor package size	52.5mm x 45mm
Embedded options available	✗	Other features	
PCI Express CEM revision	2.0	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	64.45 GB
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	66000 MB



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