

## Intel Core i7-970 processor 3.2 GHz 12 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8061317970

Product name : i7-970

Intel® Core™ i7-970 Processor

(12M Cache, 3.20 GHz, 4.80 GT/s Intel® QPI)

Intel Core i7-970. Processor family: Intel® Core™ i7, Processor socket: LGA 1366 (Socket B), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 24 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Desktop, Processing Die size: 239 mm<sup>2</sup>, Supported instruction sets: SSE4.2. Package width: 149 mm, Package depth: 180 mm, Package height: 167 mm. Processor package size: 42.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor generation	Intel® Core™ i7	Automated Tracking System (CCATS)	G077159
Processor model *	i7-970	<b>Processor special features</b>	
Processor base frequency *	3.2 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i7	Intel® Turbo Boost Technology	1.0
Processor cores *	6	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 1366 (Socket B)	Enhanced Intel SpeedStep Technology	✓
Component for	PC	Intel Trusted Execution Technology	✗
Processor lithography *	32 nm	Intel Enhanced Halt State	✓
Processor series	Intel Core i7-900 Desktop Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	12	Intel Demand Based Switching	✗
System bus rate	4.8 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.46 GHz	Conflict-Free processor	✗
Processor cache	12 MB	<b>Operational conditions</b>	
Processor cache type	Smart Cache	Maximum operating temperature	67.9 °C
Thermal Design Power (TDP)	130 W	Tcase	67.9 °C
Box *	✓	<b>Technical details</b>	
Cooler included *	✓	Bus bandwidth	4.8
VID Voltage Range	0.8 - 1.375 V	Bus type units	GT/s
Generation	9th Generation	Launch date	Q3'10
Bus type	QPI	Processor cache	12288 KB
CPU multiplier (bus/core ratio)	24	Product type	Processor
Number of QPI links	1	Status	Discontinued
Memory bandwidth supported by processor (max)	25.6 GB/s	Maximum memory	24 GB
Processor ARK ID	47933	Processor brand name	Intel Core i7
<b>Memory</b>		Supported memory types	DDR3-SDRAM
Maximum internal memory supported by processor	24 GB	Last change	63903513
Memory types supported by processor	DDR3-SDRAM	Product family	Previous Generation Intel Core i7 Processor
Memory channels *	Triple-channel	Bus speed	4.8 GT/s
ECC	✗	<b>Logistics data</b>	
<b>Graphics</b>		Harmonized System (HS) code	8542310001
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		

Features		Packaging data	
Thermal Monitoring Technologies	✘	Package width	149 mm
Market segment	Desktop	Package depth	180 mm
Processing Die size	239 mm <sup>2</sup>	Package height	167 mm
Supported instruction sets	SSE4.2	Package weight	1.03 kg
CPU configuration (max)	1	Package type	Retail box
Embedded options available	✘	<b>Weight &amp; dimensions</b>	
Physical Address Extension (PAE)	36 bit	Processor package size	42.5mm x 45mm
Export Control Classification Number (ECCN)	5A992C	<b>Other features</b>	
		Maximum internal memory	24 GB
		Maximum internal memory	24576 MB



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