

Intel Core i5-670 processor 3.46 GHz 4 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8061615670

Product name : i5-670

Intel® Core™ i5-670 Processor
(4M Cache, 3.46 GHz)

Intel Core i5-670. Processor family: Intel® Core™ i5, Processor socket: LGA 1156 (Socket H), Processor lithography: 32 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 16 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics, On-board graphics card base frequency: 733 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, Number of Processing Die Transistors: 382 M. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	36 bit
Processor generation	Intel® Core™ i5	PCI Express CEM revision	2.0
Processor model *	i5-670	Export Control Classification Number (ECCN)	5A992C
Processor base frequency *	3.46 GHz	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor family *	Intel® Core™ i5	Processor special features	
Processor cores *	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1156 (Socket H)	Intel® Turbo Boost Technology	1.0
Component for	PC	Intel FDI Technology	✓
Processor lithography *	32 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i5-600 Desktop Series	Intel Dual Display Capable Technology	✓
Processor threads	4	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	2.5 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✓
Processor boost frequency	3.73 GHz	Intel Enhanced Halt State	✓
Processor cache	4 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel Demand Based Switching	✗
Thermal Design Power (TDP)	73 W	Intel 64	✓
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
VID Voltage Range	0.65 - 1.4 V	Intel® vPro™ Platform Eligibility	✓
Generation	6th Generation	Operational conditions	
Bus type	DMI	Maximum operating temperature	72.6 °C
CPU multiplier (bus/core ratio)	26	Tcase	72.6 °C
Memory bandwidth supported by processor (max)	21 GB/s	Technical details	
Processor codename	Clarkdale	Born on date	Q1'10
Processor ARK ID	43556	Bus bandwidth	2.5
Memory		Bus type units	GT/s
Maximum internal memory supported by processor	16 GB	Launch date	Q1'10
Memory types supported by processor	DDR3-SDRAM	Processor cache	4096 KB
Memory channels *	Dual-channel	Processor core voltage	0.6500-1.4000 V
Graphics			
On-board graphics card *	✓		
On-board graphics card model *	Intel® HD Graphics		
On-board graphics card base frequency	733 MHz		
Number of displays supported (on-board graphics)	2		

Features		Technical details	
Execute Disable Bit	✓	Product name	Intel Core i5-670 (4M Cache, 3.46 GHz)
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✗	Status	Discontinued
Market segment	Desktop	Maximum memory	16.6 GB
Maximum number of PCI Express lanes	16	Processor brand name	Intel Core i5 vPro
PCI Express slots version	2.0	Supported memory types	DDR3-SDRAM
PCI Express configurations	1x16, 2x8	Last change	63903513
Number of Processing Die Transistors	382 M	Product family	Previous Generation Intel Core i5 Processor
Processing Die size	81 mm ²	Bus speed	2.5 GT/s
Number of Graphics & IMC Die Transistors	177 M	Logistics data	
Graphics & IMC Die Size	114 mm ²	Harmonized System (HS) code	8542310001
Supported instruction sets	SSE4.2	Packaging data	
CPU configuration (max)	1	Package type	Retail box
Embedded options available	✗	Weight & dimensions	
Graphics & IMC lithography	45 nm	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	16.6 GB
		Maximum internal memory	17000 MB
		Cache memory	4 MB



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