

## Intel Core i5-4670K processor 3.4 GHz 6 MB Smart Cache

**Brand :** Intel

**Product family:** Core

**Product code:**  
CM8064601464506

**Product name :** i5-4670K



Intel® Core™ i5-4670K Processor  
(6M Cache, up to 3.80 GHz)

Intel Core i5-4670K processor 3.4 GHz 6 MB Smart Cache:

Amazing performance and stunning visuals with a boost. Raise the bar on your PC experience with rich visuals plus an automatic burst of speed when you need it. The 4th generation Intel® Core™ i5 processor delivers amazing performance, stunning visuals, and built-in security for deeper protection.



Discover the thrill of an automatic burst of speed when you need it with Intel® Turbo Boost Technology 2.0. Experience your movies, photos, and games smoothly and seamlessly with a built-in suite of visual enhancements—and enjoy them even more with longer battery life.

Get a boost in your performance that you can truly see and feel, along with extra peace of mind from enhanced security. Because the only thing more amazing than Intel® technology is what you'll do with it.

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	i5-4670K	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.4 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i5	Intel® Turbo Boost Technology	2.0
Processor cores *	4	Intel® Quick Sync Video Technology	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® InTru™ 3D Technology	✓
Component for	PC	Intel® Wireless Display (Intel® WiDi)	✓
Processor lithography *	22 nm	Intel FDI Technology	✓
Processor series	Intel Core i5-4600 Desktop series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Dual Display Capable Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Processor operating modes *	64-bit	Intel® Smart Cache	✓
Processor boost frequency	3.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	6 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✗
Thermal Design Power (TDP)	84 W	Intel® Turbo Boost Technology 2.0	3.8 GHz
Box *	✗	Intel® Transactional Synchronization Extensions	✗
Cooler included *	✗	Intel Enhanced Halt State	✓
Generation	4th Generation	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	C0	Intel® Secure Key	✓
Bus type	QPI	Intel TSX-NI	✗
Number of QPI links	1	Intel Stable Image Platform Program (SIPP)	✗
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® OS Guard	✓
Processor codename	Haswell	Intel 64	✓
Processor code	SR14A		
Processor ARK ID	75048		
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory channels *	Dual-channel		

Memory		Processor special features	
ECC	✗	Intel Identity Protection Technology version	1.00
Graphics		Intel Secure Key Technology version	1.00
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card model *	Intel® HD Graphics 4600	Intel Stable Image Platform Program (SIPP) version	0.00
Maximum on-board graphics card memory	2 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, VGA (D-Sub)	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	0.00
On-board graphics card dynamic frequency (max)	1200 MHz	Conflict-Free processor	✓
Number of displays supported (on-board graphics)	3	Intel® vPro™ Platform Eligibility	✗
On-board graphics card DirectX version	11.2/12	Operational conditions	
On-board graphics card OpenGL version	4.3	Tcase	72.72 °C
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Technical details	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Bus bandwidth	5
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Launch date	Q2'13
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	3840x2160@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	3840x2160@60Hz
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz	Maximum resolution & refresh rate (VGA)	1920x1200@60Hz
On-board graphics card ID	0x412	Number of graphics cores	20
Features		Processor cache	6144 KB
Execute Disable Bit	✓	Product type	Processor
Idle States	✓	Status	Discontinued
Thermal Monitoring Technologies	✓	Maximum memory	32 GB
Market segment	Desktop	Processor brand name	Intel Core i5 Intel Core i5 Processor
Maximum number of PCI Express lanes	16	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
PCI Express slots version	3.0	Last change	63903513
PCI Express configurations	1x16, 2x8, 1x8+2x4	Product family	4th Generation Intel Core i5 Processors
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Bus speed	5 GT/s
Scalability	1S	Maximum graphics card memory	2 GB
CPU configuration (max)	1	Processor ID	0x412
Embedded options available	✗	Logistics data	
Graphics & IMC lithography	22 nm	Harmonized System (HS) code	8542310001
Thermal solution specification	PCG 2013D	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-x
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Graphics output	eDP/DP/HDMI/VGA
		Video decoding	✓

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