

Intel Core i7-3770K processor 3.5 GHz 8 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8063701211700

Product name : i7-3770K



Intel® Core™ i7-3770K Processor

(8M Cache, up to 3.90 GHz)

Intel Core i7-3770K. Processor family: Intel® Core™ i7, Processor socket: LGA 1155 (Socket H2), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics 4000, On-board graphics card base frequency: 650 MHz, On-board graphics card dynamic frequency (max): 1150 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8, 2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX. Intel® Turbo Boost Technology 2.0 frequency: 3.9 GHz

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 *	i7-3770K	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.5 GHz	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i7	Intel® InTru™ 3D Technology	✓
Processor cores *	4	Intel® Wireless Display (Intel® WiDi)	✓
Processor socket *	LGA 1155 (Socket H2)	Intel FDI Technology	✓
Component for	PC	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor lithography *	22 nm	Intel® Insider™	✓
Processor series	Intel Core i7-3700 Desktop series	Intel Fast Memory Access	✓
Processor threads	8	Intel Flex Memory Access	✓
System bus rate	5 GT/s	Intel® Smart Cache	✓
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	3.9 GHz	Enhanced Intel SpeedStep Technology	✓
Processor cache	8 MB	Intel Trusted Execution Technology	✗
Processor cache type	Smart Cache	Intel® Turbo Boost Technology 2.0 frequency	3.9 GHz
Thermal Design Power (TDP)	77 W	Intel® Transactional Synchronization Extensions	✗
Box *	✗	Intel Enhanced Halt State	✓
Cooler included *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Generation	3rd Generation	Intel® Secure Key	✓
Compatible chipsets	Intel® B75 Express, Intel® H61 Express, Intel® H67 Express, Intel® H77 Express, Intel® P67 Express, Intel® Z68 Express, Intel® Z75 Express, Intel® Z77 Express	Intel TSX-NI	✗
Bus type	DMI	Intel 64	✓
CPU multiplier (bus/core ratio)	35	Intel Identity Protection Technology version	1.00
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Secure Key Technology version	1.00
Processor codename	Ivy Bridge	Intel Virtualization Technology (VT-x)	✓
Processor ARK ID	65523	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Memory		Intel TSX-NI version	0.00
Maximum internal memory supported by processor	32 GB	Conflict-free processor	✓
Memory types supported by processor	DDR3-SDRAM	Intel® vPro™ Platform Eligibility	✗
Memory clock speeds supported by processor	1333,1600 MHz	Operational conditions	
Memory channels *	Dual-channel	Tcase	67.4 °C
ECC	✗		
Graphics			
On-board graphics card *	✓		

Graphics		Technical details	
On-board graphics card model *	Intel® HD Graphics 4000	Bus bandwidth	5
On-board graphics card base frequency	650 MHz	Bus type units	GT/s
On-board graphics card dynamic frequency (max)	1150 MHz	Launch date	Q2'12
Number of displays supported (on-board graphics)	3	Processor cache	8192 KB
On-board graphics card ID	0x162	Product type	Processor
Features		Status	Discontinued
Execute Disable Bit	✓	Maximum memory	32 GB
Idle States	✓	Supported memory types	DDR3-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Desktop	Product family	3rd Generation Intel Core i7 Processors
PCI Express slots version	3.0	Bus speed	5 GT/s
PCI Express configurations	1x16, 2x8, 1x8, 2x4	Processor ID	0x162
Supported instruction sets	SSE4.1, SSE4.2, AVX	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	8542310001
Embedded options available	✗	Packaging data	
Thermal solution specification	PCG 2011D	Package type	Retail box
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	37.5 x 37.5 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
Images Type Map	✗	Intel® Virtualization Technology (Intel® VT)	✓
Processor special features		Maximum internal memory	32 GB
Intel® Anti-Theft Technology (Intel® AT)	✓	Maximum internal memory	32768 MB

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