

Intel Core i7-2700K processor 3.5 GHz 8 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8062301124100

Product name : i7-2700K



Intel® Core™ i7-2700K Processor

(8M Cache, up to 3.90 GHz)

Intel Core i7-2700K. Processor family: Intel® Core™ i7, Processor socket: LGA 1155 (Socket H2), Processor lithography: 32 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 3000, On-board graphics card base frequency: 850 MHz, On-board graphics card dynamic frequency (max): 1350 MHz. Market segment: Desktop, Supported instruction sets: SSE4.1, SSE4.2, AVX, Export Control Classification Number (ECCN): 5A992C. 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	2nd gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-2700K	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 *	32 nm	Intel Dual Display Capable Technology	✓
Processor series	Intel Core i7-2700 Desktop Series	Intel® Insider™	✓
Processor threads	8	Intel Fast Memory Access	✓
System bus rate	5 GT/s	Intel Flex Memory Access	✓
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)	95 W	Intel Enhanced Halt State	✓
Box *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Cooler included *	✗	Intel 64	✓
Generation	2nd Generation	Intel Identity Protection Technology version	1.00
Stepping	D2	Intel Virtualization Technology (VT-x)	✓
Bus type	DMI	Intel Virtualization Technology for Directed I/O (VT-d)	✗
CPU multiplier (bus/core ratio)	35	Conflict-Free processor	✗
Memory bandwidth supported by processor (max)	21 GB/s	Intel® vPro™ Platform Eligibility	✗
Processor codename	Sandy Bridge	Operational conditions	
Processor ARK ID	61275	Maximum operating temperature	72.6 °C
Memory		Tcase	72.6 °C
Maximum internal memory supported by processor	32 GB	Technical details	
Memory types supported by processor	DDR3-SDRAM	Bus bandwidth	5
Memory clock speeds supported by processor	1066,1333 MHz	Bus type units	GT/s
Memory channels *	Dual-channel		
ECC	✗		
Graphics			
On-board graphics card *	✓		
On-board graphics card model *	Intel® HD Graphics 3000		

Graphics		Technical details	
On-board graphics card base frequency	850 MHz	Launch date	Q4'11
On-board graphics card dynamic frequency (max)	1350 MHz	Processor cache	8192 KB
Number of displays supported (on-board graphics)	2	Product type	Processor
On-board graphics card ID	0x112	Status	Discontinued
Features		Maximum memory	32 GB
Execute Disable Bit	✓	Processor brand name	Intel Core i7 Intel Core i7 Processor
Idle States	✓	Supported memory types	DDR3-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Desktop	Product family	2nd Generation Intel Core i7 Processors
Maximum number of PCI Express lanes	16	Bus speed	5 GT/s
PCI Express slots version	2.0	Processor ID	0x112
Supported instruction sets	SSE4.1, SSE4.2, AVX	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	8542310001
Embedded options available	✗	Packaging data	
PCI Express CEM revision	2.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G077159	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB

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