

Intel Core i7-6900K processor 3.2 GHz 20 MB Smart Cache Box

Brand : Intel

Product family: Core

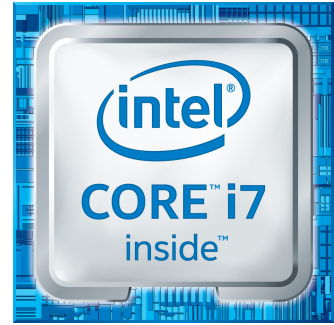
Product code:
BXC80671I76900K

Product name : i7-6900K

Intel® Core™ i7-6900K Processor

(20M Cache, up to 3.70 GHz)

Intel Core i7-6900K. Processor family: Intel® Core™ i7, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, Scalability: 1S, Export Control Classification Number (ECCN): 5A992C. Intel® Turbo Boost Max Technology 3.0 frequency: 4 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	6th gen Intel® Core™ i7	Intel® Smart Response Technology	✓
Processor model *	i7-6900K	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.2 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor cores *	8	Intel Trusted Execution Technology	✗
Processor socket *	LGA 2011-v3	Intel® Turbo Boost Max Technology 3.0 frequency	4 GHz
Component for	PC	Intel Enhanced Halt State	✓
Processor lithography *	14 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	16	Intel 64	✓
Processor operating modes *	64-bit	Intel Smart Response Technology version	1.00
Processor boost frequency	3.7 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	20 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	Conflict-Free processor	✓
Thermal Design Power (TDP)	140 W	Intel Turbo Boost Max Technology 3.0	✓
Box *	✓	Intel® vPro™ Platform Eligibility	✗
Cooler included *	✗	Technical details	
Generation	6th Generation	Launch date	Q2'16
Processor codename	Broadwell E	Processor cache	20480 KB
Processor ARK ID	94196	Product type	Processor
Memory		Status	Discontinued
Maximum internal memory supported by processor	128 GB	Maximum memory	128 GB
Memory types supported by processor	DDR4-SDRAM	Processor brand name	Intel Core i7 X-series Intel Core i7 X-series processor
Memory clock speeds supported by processor	2133,2400 MHz	Supported memory types	DDR4-SDRAM
Memory channels *	Quad-channel	Last change	63903513
ECC	✗	Product family	Intel Core Processors
Graphics		Intel Turbo Boost Max Technology frequency	4000 MHz
On-board graphics card *	✗	Logistics data	
Features		Harmonized System (HS) code	8542310001
Execute Disable Bit	✓		
Idle States	✓		
Market segment	Desktop		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		
Scalability	1S		

Features		Packaging data	
CPU configuration (max)	1	Package type	Retail box
Embedded options available	✘	Other features	
PCI Express CEM revision	3.0	Maximum internal memory	128 GB
Export Control Classification Number (ECCN)	5A992C	Maximum internal memory	131072 MB
Commodity Classification Automated Tracking System (CCATS)	G077159		



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