

Intel Core i9-9900KF processor 3.6 GHz 16 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code:
BX80684I99900KF

Product name : i9-9900KF

Intel® Core™ i9-9900KF Processor
(16M Cache, up to 5.00 GHz)

Intel Core i9-9900KF. Processor family: Intel® Core™ i9, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 5 GHz. Package width: 44 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	9th gen Intel® Core™ i9	Enhanced Intel SpeedStep Technology	✓
Processor model *	i9-9900KF	Intel Trusted Execution Technology	✗
Processor base frequency *	3.6 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor family *	Intel® Core™ i9	Intel® Turbo Boost Technology 2.0 frequency	5 GHz
Processor cores *	8	Intel® Transactional Synchronization Extensions	✓
Processor socket *	LGA 1151 (Socket H4)	Intel Enhanced Halt State	✓
Component for	PC	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	14 nm	Intel® Secure Key	✓
Processor threads	16	Intel TSX-NI	✓
System bus rate	8 GT/s	Intel Stable Image Platform Program (SIPP)	✗
Processor operating modes *	64-bit	Intel® OS Guard	✓
Processor boost frequency	5 GHz	Intel Software Guard Extensions (Intel SGX)	✓
Processor cache	16 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Identity Protection Technology version	1.00
Thermal Design Power (TDP)	95 W	Intel Secure Key Technology version	1.00
Box *	✓	Intel Stable Image Platform Program (SIPP) version	0.00
Cooler included *	✗	Intel Virtualization Technology (VT-x)	✓
Generation	9th Generation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI3	Intel TSX-NI version	1.00
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Optane™ Memory Ready	✓
Processor codename	Coffee Lake	Intel® Boot Guard	✓
Processor ARK ID	190887	Intel® vPro™ Platform Eligibility	✗
Memory		Operational conditions	
Maximum internal memory supported by processor	128 GB	Tjunction	100 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2666 MHz	Target market	Gaming, Content Creation
Memory channels *	Dual-channel	Bus bandwidth	8
ECC	✗	Bus type units	GT/s
Graphics		Launch date	Q1'19
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Technical details	
Execute Disable Bit	✓	Processor cache	16384 KB
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✓	Status	Launched
Market segment	Desktop	Maximum memory	128 GB
Maximum number of PCI Express lanes	16	Processor brand name	9th Gen Intel Core i9 9th Gen Intel Core i9 Processor
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
PCI Express configurations	1x16, 2x8, 1x8+2x4	Last change	63903513
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Product family	Intel Core Processors
Scalability	1S	Bus speed	8 GT/s
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	85423119
Thermal solution specification	PCG 2015D	Packaging data	
PCI Express CEM revision	3.0	Package width	44 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	116 mm
Commodity Classification		Package height	101 mm
Automated Tracking System (CCATS)	G077159	Package weight	87 g
Processor special features		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Weight & dimensions	
Intel® Identity Protection Technology (Intel® IPT)	✓	Processor package size	37.5 x 37.5 mm
Intel® Turbo Boost Technology	2.0	Other features	
		Maximum internal memory	128 GB
		Maximum internal memory	131072 MB



0735858407823



735858407823



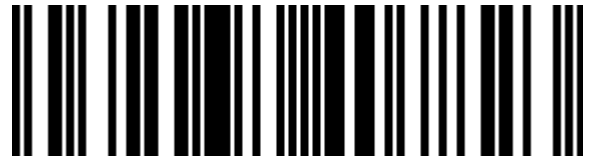
5032037151931



0735858407830



735858407830



5032037407823

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.