

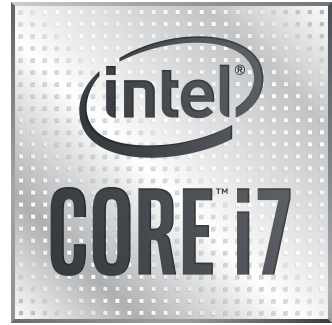
Intel Core i7-10700KF processor 3.8 GHz 16 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code:
BX8070110700KF

Product name : i7-10700KF



Intel® Core™ i7-10700KF Processor (16M Cache, up to 5.10 GHz)

Intel Core i7-10700KF. Processor family: Intel® Core™ i7, Processor socket: LGA 1200 (Socket H5), 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 Max Technology 3.0 frequency: 5.1 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5 GHz. Package type: Retail box

Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor generation	10th gen Intel® Core™ i7	Automated Tracking System (CCATS)	G077159
Processor model *	i7-10700KF	Processor special features	
Processor base frequency *	3.8 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores *	8	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1200 (Socket H5)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✗
Processor threads	16	Intel® Thermal Velocity Boost	✗
System bus rate	8 GT/s	Intel® Turbo Boost Max Technology 3.0 frequency	5.1 GHz
Processor operating modes *	64-bit	Intel® Turbo Boost Technology 2.0 frequency	5 GHz
Processor boost frequency	5.1 GHz	Intel® Transactional Synchronization Extensions	✗
Processor cache	16 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel® Secure Key	✓
Thermal Design Power (TDP)	125 W	Intel Stable Image Platform Program (SIPP)	✗
Box *	✓	Intel® OS Guard	✓
Configurable TDP-down frequency	3.5 GHz	Intel Software Guard Extensions (Intel SGX)	✓
Cooler included *	✗	Intel 64	✓
Configurable TDP-down	95 W	Intel Virtualization Technology (VT-x)	✓
Generation	10th Generation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	45.8 GB/s	Intel Turbo Boost Max Technology 3.0	✓
Processor codename	Comet Lake	Intel® Optane™ Memory Ready	✓
Processor ARK ID	199325	Intel® Boot Guard	✓
Memory		Intel® vPro™ Platform Eligibility	✗
Maximum internal memory supported by processor	128 GB	Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tjunction	100 °C
Memory clock speeds supported by processor	2933 MHz		
Memory channels *	Dual-channel		
ECC	✗		
Graphics			
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	✓	Target market	Gaming, Content Creation
Idle States	✓	Launch date	Q2'20
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Desktop	Status	Launched
Maximum number of PCI Express lanes	16	Maximum memory	128 GB
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	8 GT/s
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Logistics data	
Scalability	1S	Harmonized System (HS) code	85423119
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package type	Retail box
Thermal solution specification	PCG 2015D	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	37.5 x 37.5 mm
Export Control Classification Number (ECCN)	5A992C	Other features	
		Maximum internal memory	128 GB



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