

Intel Core i7-9700F processor 3 GHz 12 MB Smart Cache Box

Brand : Intel

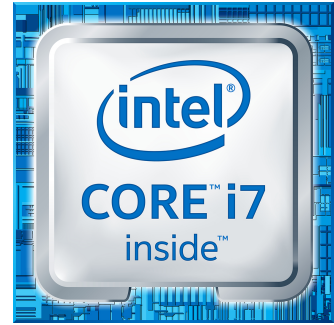
Product family: Core

Product code:
BX80684I79700F

Product name : i7-9700F

Intel Core i7-9700F Processor (12MB Cache, up to 4.7 GHz)

Intel Core i7-9700F. Processor family: Intel® Core™ i7, 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: 4.7 GHz. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor generation	9th gen Intel® Core™ i7	Automated Tracking System (CCATS)	G077159
Processor model *	i7-9700F	Processor special features	
Processor base frequency *	3 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 1151 (Socket H4)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✗
Processor threads	8	Intel® Memory Protection Extensions (Intel® MPX)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology 2.0 frequency	4.7 GHz
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✓
Processor boost frequency	4.7 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	12 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel TSX-NI	✓
Thermal Design Power (TDP)	65 W	Intel Stable Image Platform Program (SIPP)	✗
Box *	✓	Intel® OS Guard	✓
Cooler included *	✓	Intel Software Guard Extensions (Intel SGX)	✓
Generation	9th Generation	Intel 64	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor codename	Coffee Lake	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	193738	Intel® Optane™ Memory Ready	✓
Memory		Intel® Boot Guard	✓
Maximum internal memory supported by processor	128 GB	Intel® vPro™ Platform Eligibility	✗
Memory types supported by processor	DDR4-SDRAM	Operational conditions	
Memory clock speeds supported by processor	2666 MHz	Tjunction	100 °C
Memory channels *	Dual-channel	Technical details	
ECC	✗	Launch date	Q2'19
Graphics		Product type	Processor
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		

Features		Technical details	
Idle States	✓	Status	Launched
Thermal Monitoring Technologies	✓	Maximum memory	128 GB
Market segment	Desktop	Supported memory types	DDR4-SDRAM
Maximum number of PCI Express lanes	16	Bus speed	8 GT/s
PCI Express slots version	3.0	Logistics data	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Harmonized System (HS) code	85423119
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Packaging data	
Scalability	1S	Package type	Retail box
CPU configuration (max)	1	Weight & dimensions	
Embedded options available	✗	Processor package size	37.5 x 37.5 mm
Thermal solution specification	PCG 2015C	Other features	
PCI Express CEM revision	3.0	Maximum internal memory	128 GB
Export Control Classification Number (ECCN)	5A992C		



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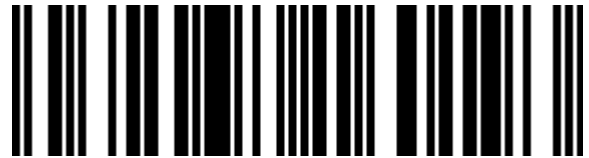
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