

## Intel Core i7-10700F processor 2.9 GHz 16 MB Smart Cache Box

**Brand :** Intel

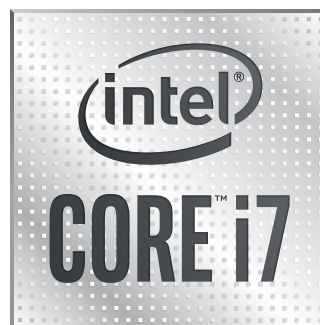
**Product family:** Core

**Product code:** BX8070110700F

**Product name :** i7-10700F

Intel Core i7-10700F Processor (16MB Cache, up to 4.8 GHz)

Intel Core i7-10700F. 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: 4.8 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.7 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	10th gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-10700F	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.9 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 1200 (Socket H5)	Intel® Thermal Velocity Boost	✗
Component for	PC	Intel® Turbo Boost Max Technology 3.0 frequency	4.8 GHz
Processor lithography *	14 nm	Intel® Turbo Boost Technology 2.0 frequency	4.7 GHz
Processor threads	16	Intel® Transactional Synchronization Extensions	✗
System bus rate	8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	4.8 GHz	Intel Stable Image Platform Program (SIPP)	✗
Processor cache	16 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel Software Guard Extensions (Intel SGX)	✓
Thermal Design Power (TDP)	65 W	Intel 64	✓
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Generation	10th Generation	Intel Turbo Boost Max Technology 3.0	✓
Memory bandwidth supported by processor (max)	45.8 GB/s	Intel® Optane™ Memory Ready	✓
Processor codename	Comet Lake	Intel® Boot Guard	✓
Processor ARK ID	199318	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	2933 MHz	Target market	Gaming, Content Creation
Memory channels *	Dual-channel	Launch date	Q2'20
ECC	✗	Product type	Processor
Graphics		Status	Launched
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	✓	Maximum memory	128 GB
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM
Market segment	Desktop	Bus speed	8 GT/s
Maximum number of PCI Express lanes	16	Logistics data	
PCI Express slots version	3.0	Harmonized System (HS) code	85423119
PCI Express configurations	1x16, 2x8, 1x8+2x4	Packaging data	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Package type	Retail box
Scalability	1S	Weight & dimensions	
CPU configuration (max)	1	Processor package size	37.5 x 37.5 mm
Embedded options available	✗	Other features	
Thermal solution specification	PCG 2015C	Maximum internal memory	128 GB
PCI Express CEM revision	3.0		
Export Control Classification Number (ECCN)	5A992C		
Commodity Classification Automated Tracking System (CCATS)	G077159		



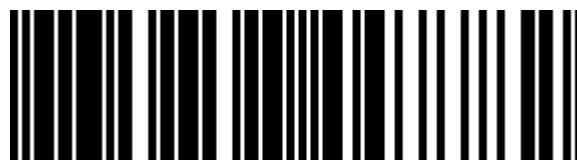
5032037188760



0735858447751



735858447751



0735858447782



735858447782



5032037188777

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.

Publication date: 03-NOV-2023. Prints or copies of Information are only valid on the printed Publication date