

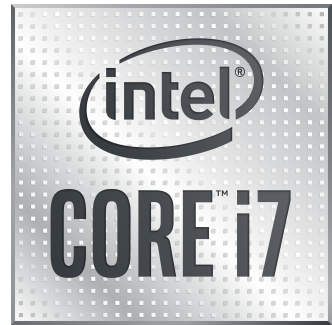
## Intel Core i7-10700F processor 2.9 GHz 16 MB Smart Cache

**Brand :** Intel

**Product family:** Core

**Product code:**  
CM8070104282329

**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 width: 44 mm, Package depth: 116 mm, Package height: 101 mm



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	<b>Packaging data</b>	
PCI Express slots version	3.0	Package width	44 mm
PCI Express configurations	1x16, 2x8, 1x8+2x4	Package depth	116 mm
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Package height	101 mm
Scalability	1S	Package type	Retail box
CPU configuration (max)	1	<b>Weight &amp; dimensions</b>	
Embedded options available	✗	Processor package size	37.5 x 37.5 mm
Thermal solution specification	PCG 2015C	<b>Other features</b>	
PCI Express CEM revision	3.0	Maximum internal memory	128 GB
Harmonized System (HS) code	85423119		
Export Control Classification Number (ECCN)	5A992C		
Commodity Classification Automated Tracking System (CCATS)	G077159		



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