

Intel Core i3-10100F processor 3.6 GHz 6 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8070110100F

Product name : i3-10100F



Intel Core i3-10100F Processor (6MB Cache, up to 4.3 GHz)

Intel Core i3-10100F. Processor family: Intel® Core™ i3, 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 Technology 2.0 frequency: 4.3 GHz. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992C
Processor generation	10th gen Intel® Core™ i3	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor model *	i3-10100F	Processor special features	
Processor base frequency *	3.6 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i3	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores *	4	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	8	Intel® Thermal Velocity Boost	✗
System bus rate	8 GT/s	Intel® Turbo Boost Technology 2.0 frequency	4.3 GHz
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✗
Processor boost frequency	4.3 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	6 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel Stable Image Platform Program (SIPP)	✗
Thermal Design Power (TDP)	65 W	Intel® OS Guard	✓
Box *	✓	Intel Software Guard Extensions (Intel SGX)	✓
Cooler included *	✓	Intel 64	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor codename	Comet Lake	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	203473	Intel Turbo Boost Max Technology 3.0	✗
Memory		Intel® Optane™ Memory Ready	✓
Maximum internal memory supported by processor	128 GB	Intel® Boot Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✗
Memory clock speeds supported by processor	2666 MHz	Operational conditions	
Memory channels *	Dual-channel	Tjunction	100 °C
ECC	✗		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		

Features		Technical details	
Thermal Monitoring Technologies	✓	Launch date	Q4'20
Market segment	Desktop	Status	Launched
Maximum number of PCI Express lanes	16	Supported memory types	DDR4-SDRAM
PCI Express slots version	3.0	Packaging data	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Package type	Retail box
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Weight & dimensions	
Scalability	1S	Processor package size	37.5 x 37.5 mm
CPU configuration (max)	1	Other features	
Embedded options available	✗	Maximum internal memory	128 GB
Thermal solution specification	PCG 2015C		
Harmonized System (HS) code	85423119		



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