

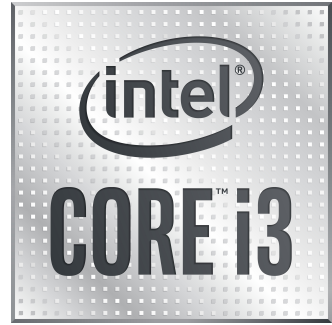
Intel Core i3-10100F processor 3.6 GHz 6 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8070110100F

Product name : i3-10100F



Intel® Core™ i3-10100F Processor (6M Cache, up to 4.30 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	Commodity Classification	
Processor generation	10th gen Intel® Core™ i3	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	✗	Technical details	
Graphics		Launch date	Q4'20
On-board graphics card *	✗	Status	Launched
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	✓	Supported memory types	DDR4-SDRAM
Market segment	Desktop	Logistics data	
Maximum number of PCI Express lanes	16	Harmonized System (HS) code	85423119
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		
Export Control Classification Number (ECCN)	5A992C		



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