

Intel Core i5-10400F processor 2.9 GHz 12 MB Smart Cache Box

Brand : Intel

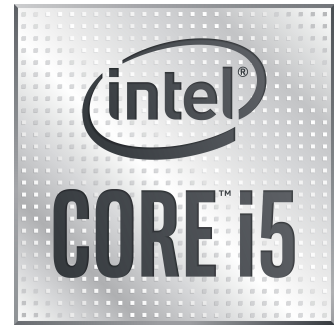
Product family: Core

Product code: BX8070110400F

Product name : i5-10400F

Intel Core i5-10400F Processor (12MB Cache, up to 4.3 GHz)

Intel Core i5-10400F. Processor family: Intel® Core™ i5, 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™ i5	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor model *	i5-10400F	Processor special features	
Processor base frequency *	2.9 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores *	6	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	12	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	12 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	✓
Generation	10th Generation	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor codename	Comet Lake	Intel Turbo Boost Max Technology 3.0	✗
Processor ARK ID	199278	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		
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	✓		

Features		Technical details	
Idle States	✓	Target market	Gaming
Thermal Monitoring Technologies	✓	Launch date	Q2'20
Market segment	Desktop	Product type	Processor
Maximum number of PCI Express lanes	16	Status	Launched
PCI Express slots version	3.0	Maximum memory	128 GB
PCI Express configurations	1x16, 2x8, 1x8+2x4	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Bus speed	8 GT/s
Scalability	1S	Packaging data	
CPU configuration (max)	1	Package type	Retail box
Embedded options available	✗	Weight & dimensions	
Thermal solution specification	PCG 2015C	Processor package size	37.5 x 37.5 mm
PCI Express CEM revision	3.0	Other features	
Harmonized System (HS) code	85423119	Maximum internal memory	128 GB



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