

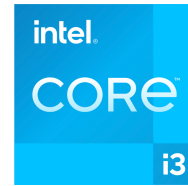
Intel Core i3-12100F processor 12 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8071504651013

Product name : i3-12100F



Intel® Core™ i3-12100F Processor (12M Cache, up to 4.30 GHz) FC-LGA16A, Tray
 Intel Core i3-12100F. Processor family: Intel® Core™ i3, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Package type: Retail box. Processor package size: 45 x 37.5 mm



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992CN3
Processor generation	12th gen Intel® Core™ i3	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor model *	i3-12100F	Processor special features	
Processor family *	Intel® Core™ i3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	4	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1700	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor threads	8	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel® Speed Shift Technology	✓
Performance cores	4	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Processor boost frequency	4.3 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Performance-core boost frequency	4.3 GHz	Intel® Thread Director	✗
Performance-core base frequency	3.3 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	12 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Box *	✗	Intel 64	✓
Processor base power	58 W	Intel Virtualization Technology (VT-x)	✓
Maximum turbo power	89 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI4	Intel Turbo Boost Max Technology 3.0	✗
Maximum number of DMI lanes	8	Intel® Optane™ Memory Ready	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Boot Guard	✓
Processor codename	Alder Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor ARK ID	132223	Intel® Volume Management Device (VMD)	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	128 GB	Intel® Standard Manageability (ISM)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Operational conditions	
Memory channels *	Dual-channel	Tjunction	100 °C
Memory bandwidth (max)	76.8 GB/s	Logistics data	
Graphics		Harmonized System (HS) code	85423119
On-board graphics card *	✗	Packaging data	
Discrete graphics card *	✗	Package type	Retail box
On-board graphics card model *	Not available	Features	
Discrete graphics card model *	Not available	Execute Disable Bit	✓
Features		Idle States	✓
Execute Disable Bit	✓	Thermal Monitoring Technologies	✓
Idle States	✓	Market segment	Desktop
Thermal Monitoring Technologies	✓	Use conditions	PC/Client/Tablet
Market segment	Desktop	Maximum number of PCI Express lanes	20
Use conditions	PC/Client/Tablet	PCI Express slots version	4.0, 5.0
Maximum number of PCI Express lanes	20		
PCI Express slots version	4.0, 5.0		

Features		Technical details	
PCI Express configurations	1x16+1x4, 2x8+1x4	Launch date	Q1'22
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Status	Launched
Scalability	1S	Weight & dimensions	
CPU configuration (max)	1	Processor package size	45 x 37.5 mm
Embedded options available	✘	Other features	
Direct Media Interface (DMI) Revision	4.0	Maximum internal memory	128 GB



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