

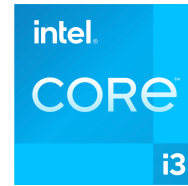
Intel Core i3-12100F processor 12 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8071512100F

Product name : i3-12100F



Boxed Intel® Core™ i3-12100F Processor (12M Cache, up to 4.30 GHz) FC-LGA16A
 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 | Harmonized System (HS) code | 85423119 |
| Processor generation | 12th gen Intel® Core™ i3 | Export Control Classification Number (ECCN) | 5A992CN3 |
| Processor model * | i3-12100F | Commodity Classification Automated Tracking System (CCATS) | G167599 |
| Processor family * | Intel® Core™ i3 | Processor special features | |
| Processor cores * | 4 | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor socket * | LGA 1700 | Intel® Turbo Boost Technology | 2.0 |
| Processor threads | 8 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor operating modes * | 64-bit | Enhanced Intel SpeedStep Technology | ✓ |
| Performance cores | 4 | Intel® Speed Shift Technology | ✓ |
| Processor boost frequency | 4.3 GHz | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0 | ✓ |
| Performance-core boost frequency | 4.3 GHz | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Performance-core base frequency | 3.3 GHz | Intel® Thread Director | ✗ |
| Processor cache | 12 MB | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor cache type | Smart Cache | Intel® Secure Key | ✓ |
| Box * | ✓ | Intel® OS Guard | ✓ |
| Processor base power | 58 W | Intel 64 | ✓ |
| Maximum turbo power | 89 W | Intel Virtualization Technology (VT-x) | ✓ |
| Bus type | DMI4 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Maximum number of DMI lanes | 8 | Intel Turbo Boost Max Technology 3.0 | ✗ |
| Memory bandwidth supported by processor (max) | 76.8 GB/s | Intel® Optane™ Memory Ready | ✓ |
| Processor codename | Alder Lake | Intel® Boot Guard | ✓ |
| Memory | | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Maximum internal memory supported by processor | 128 GB | Intel® Volume Management Device (VMD) | ✓ |
| Memory types supported by processor | DDR4-SDRAM, DDR5-SDRAM | Mode-based Execute Control (MBE) | ✓ |
| Memory channels * | Dual-channel | Intel® Standard Manageability (ISM) | ✓ |
| Memory bandwidth (max) | 76.8 GB/s | Operational conditions | |
| Graphics | | Tjunction | 100 °C |
| On-board graphics card * | ✗ | Packaging data | |
| Discrete graphics card * | ✗ | Package type | Retail box |
| On-board graphics card model * | Not available | Technical details | |
| Discrete graphics card model * | Not available | Launch date | Q1'22 |
| Features | | Status | Launched |
| Execute Disable Bit | ✓ | | |
| Idle States | ✓ | | |
| Thermal Monitoring Technologies | ✓ | | |
| Market segment | Desktop | | |
| Use conditions | PC/Client/Tablet | | |
| Maximum number of PCI Express lanes | 20 | | |
| PCI Express slots version | 4.0, 5.0 | | |
| PCI Express configurations | 1x16+1x4, 2x8+1x4 | | |

| Features | | Weight & dimensions | |
|---------------------------------------|-------------------------|-------------------------|--------------|
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 | Processor package size | 45 x 37.5 mm |
| Scalability | 1S | Other features | |
| CPU configuration (max) | 1 | Maximum internal memory | 128 GB |
| Embedded options available | ✘ | | |
| Direct Media Interface (DMI) Revision | 4.0 | | |



5032037238731



0735858504423



735858504423

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.