

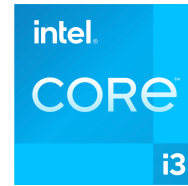
Intel Core i3-12100F processor 12 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8071504651013

Product name : i3-12100F



Intel® Core™ i3-12100F Processor (12M Cache, up to 4.30 GHz)

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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