



Intel Core i7-12700F processor 25 MB Smart Cache Box



Model: BX8071512700F

Manufacturer: INTEL

EAN: 5032037237826

Product Code: 609611

R6,358

Non-ECC: Yes | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Warnings: Ensure that the processor is adequately cooled to prevent overheating. | Discrete graphics card model: Not available | Enhanced Intel SpeedStep Technology: Yes | Maximum internal memory: 128 GB | Warnings: Avoid shocks and drops so as not to damage delicate components. | Embedded options available: No | CPU configuration (max): 1 | Warnings: Do not touch the processor pins to avoid electrostatic damage. | PCI Express slots version: 4.0 | PCI Express slots version: 5.0 | Processor family: Intel® Core™ i7 | On-board graphics card model: Not available | Thermal Monitoring Technologies: Yes | Processor package size: 45 x 37.5 mm | Processor codename: Alder Lake | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel® Turbo Boost Technology: 2.0 | Intel® Speed Shift Technology: Yes | Intel® Boot Guard: Yes | Mode-based Execute Control (MBE): Yes | Processor manufacturer: Intel | Intel 64: Yes | Idle States: Yes | Processor cores: 12 | Memory types supported by processor: DDR4-SDRAM | Maximum internal memory supported by

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processor: 128 GB | Processor cache: 25 MB | Launch date: Q1'22 | Box: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Cooler included: Yes | Processor ARK ID: 134592 | Processor socket: LGA 1700 | Intel® Volume Management Device (VMD): Yes | Intel® Secure Key: Yes | Processor operating modes: 64-bit | Execute Disable Bit: Yes | Memory bandwidth (max): 76.8 GB/s | Tjunction: 100 °C | On-board graphics card: No | Supported instruction sets: SSE4.2 | Target market: Gaming, Content Creation | Market segment: Desktop | Scalability: 15 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Memory channels: Dual-channel | Intel Turbo Boost Max Technology 3.0: Yes | Processor threads: 20 | Memory types supported by processor: DDR5-SDRAM | Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.1 | Processor model: i7-12700F | Intel® AES New Instructions (Intel® AES-NI): Yes | Discrete graphics card: No | Intel® OS Guard: Yes | Harmonized System (HS) code: 85423119 | Intel® Optane™ Memory Ready: Yes | Status: Launched | Processor cache type: Smart Cache | Intel VT-x with Extended Page Tables (EPT): Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | Maximum number of PCI Express lanes: 20 | Bus type: DMI4 | Direct Media Interface (DMI) Revision: 4.0 | Export Control Classification Number (ECCN): 5A992CN3 | Use conditions: PC/Client/Tablet | Performance-core base frequency: 2.1 GHz | Intel® Control-flow Enforcement Technology (CET): Yes | Commodity Classification Automated Tracking System (CCATS): G167599 | Performance-core boost frequency: 4.8 GHz | Performance cores: 8 | Maximum number of DMI lanes: 8 | Maximum turbo power: 180 W | Intel® Thread Director: Yes | Processor generation: 12th gen Intel® Core™ i7 | Intel® Standard Manageability (ISM): Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 4.9 GHz | Processor base power: 65 W | Efficient cores: 4 | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0: Yes

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