

Intel Core i9-12900KF processor 30 MB Smart Cache Box



Model: BX8071512900KF

Manufacturer: INTEL

EAN: 5032037234221

Product Code: 937126

R7,561

Supported instruction sets: AVX 2.0 | Maximum internal memory supported by processor: 128 GB | Memory types supported by processor: DDR5-SDRAM | Memory types supported by processor: DDR4-SDRAM | Supported instruction sets: SSE4.2 | Supported instruction sets: SSE4.1 | Thermal solution specification: PCG 2020A | Scalability: 1S | Memory bandwidth supported by processor (max): 76.8 GB/s | Bus type: DMI4 | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | Processor generation: 12th gen Intel® Core™ i9 | Export Control Classification Number (ECCN): 5A992CN3 | Performance cores: 8 | Maximum turbo power: 241 W | Intel® Thread Director: Yes | Commodity Classification Automated Tracking System (CCATS): G167599 | Intel® Control-flow Enforcement Technology (CET): Yes | Maximum number of DMI lanes: 8 | Market segment: Desktop | Performance-core base frequency: 3.2 GHz | Use conditions: PC/Client/Tablet | Intel® Volume Management Device (VMD): Yes | Efficient cores: 8 | Intel Turbo Boost Max Technology 3.0: Yes | Status: Launched | Intel® Deep Learning Boost (Intel® DL Boost) on

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CPU: Yes | Launch date: Q4'21 | Target market: Gaming, Content Creation | Mode-based Execute Control (MBE): Yes | Harmonized System (HS) code: 8542310001 | Intel® Boot Guard: Yes | Performance-core boost frequency: 5.1 GHz | Box: Yes | Intel® Speed Shift Technology: Yes | Processor threads: 24 | Component for: PC | Processor socket: LGA 1700 | CPU configuration (max): 1 | Processor operating modes: 64-bit | Intel® Secure Key: Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Execute Disable Bit: Yes | Processor family: Intel® Core™ i9 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Thermal Monitoring Technologies: Yes | Processor package size: 45 x 37.5 mm | Processor codename: Alder Lake | Processor cache: 30 MB | Intel® OS Guard: Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel 64: Yes | Memory channels: Dual-channel | Intel® Turbo Boost Technology: 2.0 | Intel® Optane™ Memory Ready: Yes | Discrete graphics card: No | Discrete graphics card model: Not available | Processor manufacturer: Intel | Idle States: Yes | Enhanced Intel SpeedStep Technology: Yes | On-board graphics card model: Not available | Processor cores: 16 | On-board graphics card: No | Intel VT-x with Extended Page Tables (EPT): Yes | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Memory bandwidth (max): 76.8 GB/s | Tjunction: 100 °C | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | PCI Express slots version: 4.0 | Embedded options available: No | Processor model: i9-12900KF | Maximum number of PCI Express lanes: 20 | Maximum internal memory: 128 GB | Warnings: Avoid contact with liquid. | Warnings: Protect against overheating. | Warnings: Do not install on a switched-on device.

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