

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



Model: BX8071512900KF

Manufacturer: INTEL

EAN: 5032037234221

Product Code: 609619

R7,446

Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.2 | Supported instruction sets: SSE4.1 | Maximum internal memory supported by processor: 128 GB | Memory types supported by processor: DDR4-SDRAM | Memory types supported by processor: DDR5-SDRAM | Processor generation: 12th gen Intel® Core™ i9 | Scalability: 1S | Memory bandwidth supported by processor (max): 76.8 GB/s | Bus type: DMI4 | Mode-based Execute Control (MBE): Yes | Market segment: Desktop | Status: Launched | Thermal solution specification: PCG 2020A | Intel® Volume Management Device (VMD): Yes | Intel Turbo Boost Max Technology 3.0: Yes | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Box: Yes | Harmonized System (HS) code: 8542310001 | Target market: Gaming, Content Creation | Intel® Boot Guard: Yes | Launch date: Q4'21 | Intel® Speed Shift Technology: Yes | Maximum turbo power: 241 W | Performance-core boost frequency: 5.1 GHz | Intel® Control-flow Enforcement Technology (CET): Yes | Commodity Classification Automated Tracking System (CCATS): G167599 | Performance-core base frequency: 3.2 GHz | Intel®

The product information provided is for reference purposes only. Technical specifications, photos, descriptions and prices may change without prior notice. The manufacturer and seller are not responsible for possible data discrepancies or typographical errors. We recommend checking the current information before purchasing.

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Thread Director: Yes | Use conditions: PC/Client/Tablet | Performance cores: 8 | Export Control Classification Number (ECCN): 5A992CN3 | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | Maximum number of DMI lanes: 8 | Efficient cores: 8 | Warnings: Avoid contact with liquid. | Warnings: Protect against overheating. | Maximum internal memory: 128 GB | Memory bandwidth (max): 76.8 GB/s | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | On-board graphics card: No | Warnings: Do not install on a switched-on device. | Enhanced Intel SpeedStep Technology: Yes | Memory channels: Dual-channel | Intel® Secure Key: Yes | Idle States: Yes | Execute Disable Bit: Yes | Discrete graphics card model: Not available | On-board graphics card model: Not available | Processor cores: 16 | Processor operating modes: 64-bit | Tjunction: 100 °C | Discrete graphics card: No | CPU configuration (max): 1 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Processor codename: Alder Lake | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel® OS Guard: Yes | Intel 64: Yes | Intel® Optane™ Memory Ready: Yes | Thermal Monitoring Technologies: Yes | Processor manufacturer: Intel | Processor threads: 24 | Intel® AES New Instructions (Intel® AES-NI): Yes | Component for: PC | Processor package size: 45 x 37.5 mm | Processor cache: 30 MB | Intel® Turbo Boost Technology: 2.0 | Embedded options available: No | Processor model: i9-12900KF | Processor family: Intel® Core™ i9 | PCI Express slots version: 4.0 | Processor socket: LGA 1700 | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Intel VT-x with Extended Page Tables (EPT): Yes | Maximum number of PCI Express lanes: 20

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