

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



Model: BX8071512900KF

Manufacturer: INTEL

EAN: 5032037234221

Product Code: 1249703

R7,724

Thermal solution specification: PCG 2020A | Launch date: Q4'21 | Intel® Speed Shift Technology: Yes | Intel Turbo Boost Max Technology 3.0: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | Intel® Volume Management Device (VMD): Yes | Intel® Control-flow Enforcement Technology (CET): Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | Performance-core boost frequency: 5.1 GHz | Use conditions: PC/Client/Tablet | Box: Yes | Export Control Classification Number (ECCN): 5A992CN3 | Maximum turbo power: 241 W | Bus type: DMI4 | Intel® Thread Director: Yes | Intel® Boot Guard: Yes | Mode-based Execute Control (MBE): Yes | Efficient cores: 8 | Performance-core base frequency: 3.2 GHz | Scalability: 1S | Target market: Gaming, Content Creation | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Status: Launched | Supported instruction sets: SSE4.2 | Performance cores: 8 | Supported instruction sets: AVX 2.0 | Maximum internal memory supported by processor: 128 GB | Supported instruction sets: SSE4.1 | Commodity Classification Automated Tracking System (CCATS): G167599 | Harmonized

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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System (HS) code: 8542310001 | Maximum number of DMI lanes: 8 | Memory types supported by processor: DDR5-SDRAM | Memory types supported by processor: DDR4-SDRAM | Market segment: Desktop | Processor generation: 12th gen Intel® Core™ i9 | Discrete graphics card: No | Processor threads: 24 | Memory bandwidth (max): 76.8 GB/s | Intel® Turbo Boost Technology: 2.0 | Warnings: Protect against overheating. | Discrete graphics card model: Not available | CPU configuration (max): 1 | On-board graphics card: No | Component for: PC | Enhanced Intel SpeedStep Technology: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Memory channels: Dual-channel | Idle States: Yes | Processor manufacturer: Intel | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel 64: Yes | Intel® OS Guard: Yes | Tjunction: 100 °C | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Processor operating modes: 64-bit | Intel® AES New Instructions (Intel® AES-NI): Yes | Processor package size: 45 x 37.5 mm | Processor codename: Alder Lake | Warnings: Avoid contact with liquid. | Intel® Optane™ Memory Ready: Yes | Maximum internal memory: 128 GB | Thermal Monitoring Technologies: Yes | Warnings: Do not install on a switched-on device. | Processor family: Intel® Core™ i9 | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Intel VT-x with Extended Page Tables (EPT): Yes | Processor cache: 30 MB | Maximum number of PCI Express lanes: 20 | PCI Express slots version: 4.0 | On-board graphics card model: Not available | Processor cores: 16 | Processor model: i9-12900KF | Execute Disable Bit: Yes | Embedded options available: No | Intel® Secure Key: Yes | Processor socket: LGA 1700

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