

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



Model: BX8071512900K

Manufacturer: INTEL

EAN: 5032037234641

Product Code: 937127

R8,722

CPU configuration (max): 1 | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Processor package size: 45 x 37.5 mm | Processor codename: Alder Lake | Thermal Monitoring Technologies: Yes | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Intel® Turbo Boost Technology: 2.0 | Processor family: Intel® Core™ i9 | PCI Express slots version: 5.0 | Enhanced Intel SpeedStep Technology: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Maximum internal memory: 128 GB | PCI Express slots version: 4.0 | Component for: PC | Maximum number of PCI Express lanes: 20 | Tjunction: 100 °C | On-board graphics card model: Intel UHD Graphics 770 | Number of execution units: 32 | Processor cores: 16 | Processor model: i9-12900K | Discrete graphics card model: Not available | On-board graphics card DirectX version: 12.0 | Embedded options available: No | Processor operating modes: 64-bit | Memory bandwidth (max): 76.8 GB/s | Memory types supported by processor: DDR5-SDRAM | Supported instruction sets: SSE4.2 | Processor

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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manufacturer: Intel | On-board graphics card dynamic frequency (max): 1550 MHz | Number of displays supported (on-board graphics): 4 | OpenCL version: 2.1 | Memory channels: Dual-channel | Intel Virtualization Technology (VT-x): Yes | Intel® Optane™ Memory Ready: Yes | On-board graphics card: Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel 64: Yes | Processor socket: LGA 1700 | Intel® Quick Sync Video Technology: Yes | Idle States: Yes | Processor threads: 24 | Supported instruction sets: SSE4.1 | Box: Yes | Status: Launched | On-board graphics card base frequency: 300 MHz | Thermal solution specification: PCG 2020A | Supported instruction sets: AVX 2.0 | Intel® OS Guard: Yes | Memory types supported by processor: DDR4-SDRAM | Discrete graphics card: No | Processor cache: 30 MB | Maximum internal memory supported by processor: 128 GB | Execute Disable Bit: Yes | On-board graphics card ID: 0x4680 | Intel® Secure Key: Yes | Scalability: 1S | Intel VT-x with Extended Page Tables (EPT): Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | Bus type: DMI4 | Processor cache type: Smart Cache | Intel® Volume Management Device (VMD): Yes | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | Efficient cores: 8 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Intel® Speed Shift Technology: Yes | Mode-based Execute Control (MBE): Yes | Maximum number of DMI lanes: 8 | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Harmonized System (HS) code: 8542310001 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel Turbo Boost Max Technology 3.0: Yes | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Performance-core boost frequency: 5.1 GHz | Use conditions: PC/Client/Tablet | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Performance-core base frequency: 3.2 GHz | Commodity Classification Automated Tracking System (CCATS): G167599 | Processor generation: 12th gen Intel® Core™ i9 | Launch date: Q4'21 | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | Export Control Classification Number (ECCN): 5A992CN3 | Intel® Thread Director: Yes | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Intel® Control-flow Enforcement Technology (CET): Yes | Intel® Boot Guard: Yes | Performance cores: 8 | Target market: Gaming, Content Creation | On-board graphics card OpenGL version: 4.5 | Market segment: Desktop | Maximum turbo power: 241 W | Warnings: Avoid contact with liquid. | Warnings: Protect against overheating. | Warnings: Do not install on a switched-on device.

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