

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



Model: BX8071512900K

Manufacturer: INTEL

EAN: 5032037234641

Product Code: 1249704

R8,600

Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Maximum number of PCI Express lanes: 20 | Processor cache: 30 MB | Maximum internal memory supported by processor: 128 GB | Intel® Turbo Boost Technology: 2.0 | Scalability: 1S | CPU configuration (max): 1 | Intel VT-x with Extended Page Tables (EPT): Yes | Processor threads: 24 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | PCI Express slots version: 4.0 | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Memory types supported by processor: DDR4-SDRAM | Intel® Optane™ Memory Ready: Yes | Supported instruction sets: SSE4.2 | Thermal Monitoring Technologies: Yes | Processor family: Intel® Core™ i9 | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Maximum internal memory: 128 GB | Processor codename: Alder Lake | Intel® Quick Sync Video Technology: Yes | Discrete graphics card: No | OpenCL version: 2.1 | Intel 64: Yes | Thermal solution specification: PCG 2020A | Intel® OS Guard: Yes | Processor package size: 45 x 37.5 mm | Processor operating modes: 64-bit | Memory bandwidth

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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(max): 76.8 GB/s | Enhanced Intel SpeedStep Technology: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | On-board graphics card: Yes | Supported instruction sets: SSE4.1 | Component for: PC | Supported instruction sets: AVX 2.0 | Number of execution units: 32 | Discrete graphics card model: Not available | Intel® Secure Key: Yes | Tjunction: 100 °C | Memory channels: Dual-channel | Execute Disable Bit: Yes | Idle States: Yes | On-board graphics card DirectX version: 12.0 | Processor cores: 16 | Processor model: i9-12900K | Status: Launched | Embedded options available: No | Bus type: DMI4 | Processor manufacturer: Intel | Memory bandwidth supported by processor (max): 76.8 GB/s | Memory types supported by processor: DDR5-SDRAM | On-board graphics card model: Intel UHD Graphics 770 | On-board graphics card base frequency: 300 MHz | Processor socket: LGA 1700 | On-board graphics card dynamic frequency (max): 1550 MHz | Number of displays supported (on-board graphics): 4 | Box: Yes | On-board graphics card ID: 0x4680 | Use conditions: PC/Client/Tablet | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Intel® Control-flow Enforcement Technology (CET): Yes | Intel Turbo Boost Max Technology 3.0: Yes | Intel® Volume Management Device (VMD): Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Performance cores: 8 | Performance-core base frequency: 3.2 GHz | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Mode-based Execute Control (MBE): Yes | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | Performance-core boost frequency: 5.1 GHz | Target market: Gaming, Content Creation | Maximum number of DMI lanes: 8 | Intel® Thread Director: Yes | Efficient cores: 8 | Launch date: Q4'21 | Intel® Speed Shift Technology: Yes | Harmonized System (HS) code: 8542310001 | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Market segment: Desktop | On-board graphics card OpenGL version: 4.5 | Maximum turbo power: 241 W | Export Control Classification Number (ECCN): 5A992CN3 | Commodity Classification Automated Tracking System (CCATS): G167599 | Intel® Boot Guard: Yes | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Processor generation: 12th gen Intel® Core™ i9 | Warnings: Avoid contact with liquid. | Warnings: Protect against overheating. | Warnings: Do not install on a switched-on device.

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