

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



Model: BX8071512900K

Manufacturer: INTEL

EAN: 5032037234641

Product Code: 609620

R8,860

Number of execution units: 32 | Discrete graphics card model: Not available | OpenCL version: 2.1 | Idle States: Yes | Intel® Optane™ Memory Ready: Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Processor manufacturer: Intel | Intel 64: Yes | Processor operating modes: 64-bit | Maximum internal memory: 128 GB | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Intel® OS Guard: Yes | Processor codename: Alder Lake | Enhanced Intel SpeedStep Technology: Yes | Memory bandwidth (max): 76.8 GB/s | Processor cache: 30 MB | Discrete graphics card: No | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | On-board graphics card: Yes | On-board graphics card model: Intel UHD Graphics 770 | Processor threads: 24 | Processor cores: 16 | Processor model: i9-12900K | Tjunction: 100 °C | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Thermal Monitoring Technologies: Yes | Execute Disable Bit: Yes | Processor package size: 45 x 37.5 mm | CPU configuration (max): 1 | Intel® Quick Sync Video Technology: Yes

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| Memory channels: Dual-channel | Component for: PC | On-board graphics card DirectX version: 12.0
| Intel® Secure Key: Yes | Processor family: Intel® Core™ i9 | Intel VT-x with Extended Page Tables (EPT): Yes | Bus type: DMI4 | PCI Express slots version: 4.0 | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Intel® Turbo Boost Technology: 2.0 | Embedded options available: No | Maximum number of PCI Express lanes: 20 | Processor socket: LGA 1700 | On-board graphics card base frequency: 300 MHz | On-board graphics card dynamic frequency (max): 1550 MHz | Number of displays supported (on-board graphics): 4 | Memory bandwidth supported by processor (max): 76.8 GB/s | Supported instruction sets: SSE4.2 | Supported instruction sets: SSE4.1 | Supported instruction sets: AVX 2.0 | Status: Launched | Maximum internal memory supported by processor: 128 GB | Memory types supported by processor: DDR4-SDRAM | Memory types supported by processor: DDR5-SDRAM | Thermal solution specification: PCG 2020A | Scalability: 1S | Box: Yes | On-board graphics card ID: 0x4680 | Intel® Volume Management Device (VMD): Yes | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Use conditions: PC/Client/Tablet | On-board graphics card OpenGL version: 4.5 | Market segment: Desktop | Maximum turbo power: 241 W | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Intel® Speed Shift Technology: Yes | Efficient cores: 8 | Processor generation: 12th gen Intel® Core™ i9 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Performance-core base frequency: 3.2 GHz | Commodity Classification Automated Tracking System (CCATS): G167599 | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Performance cores: 8 | Intel Turbo Boost Max Technology 3.0: Yes | Warnings: Protect against overheating. | Warnings: Do not install on a switched-on device. | Target market: Gaming, Content Creation | Maximum number of DMI lanes: 8 | Warnings: Avoid contact with liquid. | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Intel® Thread Director: Yes | Mode-based Execute Control (MBE): Yes | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | 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 | Intel® Control-flow Enforcement Technology (CET): Yes | Launch date: Q4'21 | Harmonized System (HS) code: 8542310001 | Intel® Boot Guard: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz | Processor base power: 125 W | Export Control Classification Number (ECCN): 5A992CN3

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