

Intel Core i7-12700K processor 25 MB Smart Cache Box



Model: BX8071512700K

Manufacturer: INTEL

EAN: 5032037233989

Product Code: 937118

R6,494

Discrete graphics card: No | Tjunction: 100 °C | Processor threads: 20 | Thermal solution specification: PCG 2020A | Intel® Quick Sync Video Technology: Yes | Number of execution units: 32 | Processor operating modes: 64-bit | Maximum internal memory supported by processor: 128 GB | Processor family: Intel® Core™ i7 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Memory types supported by processor: DDR4-SDRAM | Processor package size: 45 x 37.5 mm | Thermal Monitoring Technologies: Yes | Processor codename: Alder Lake | CPU configuration (max): 1 | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | Intel Turbo Boost Max Technology 3.0: Yes | Intel® Optane™ Memory Ready: Yes | Discrete graphics card model: Not available | Mode-based Execute Control (MBE): Yes | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Component for: PC |

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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Memory channels: Dual-channel | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | On-board graphics card model: Intel UHD Graphics 770 | Memory bandwidth (max): 76.8 GB/s | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Enhanced Intel SpeedStep Technology: Yes | Processor cores: 12 | On-board graphics card: Yes | Intel® Boot Guard: Yes | Box: Yes | On-board graphics card ID: 0x4680 | Processor cache: 25 MB | Use conditions: PC/Client/Tablet | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Intel® Turbo Boost Technology: 2.0 | Commodity Classification Automated Tracking System (CCATS): G167599 | Processor manufacturer: Intel | Performance-core base frequency: 3.6 GHz | Intel 64: Yes | Number of displays supported (on-board graphics): 4 | Intel® Thread Director: Yes | Processor model: i7-12700K | Idle States: Yes | Intel® Secure Key: Yes | Intel® Volume Management Device (VMD): Yes | On-board graphics card DirectX version: 12.0 | Execute Disable Bit: Yes | Processor ARK ID: 134594 | On-board graphics card dynamic frequency (max): 1500 MHz | Performance cores: 8 | Processor socket: LGA 1700 | Intel® OS Guard: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5 GHz | Processor base power: 125 W | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Embedded options available: No | Launch date: Q4'21 | Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.2 | Supported instruction sets: SSE4.1 | OpenCL version: 2.1 | Maximum number of DMI lanes: 8 | Status: Launched | Performance-core boost frequency: 4.9 GHz | On-board graphics card base frequency: 300 MHz | Processor generation: 12th gen Intel® Core™ i7 | Harmonized System (HS) code: 8542310001 | Intel® Control-flow Enforcement Technology (CET): Yes | On-board graphics card OpenGL version: 4.5 | Market segment: Desktop | Memory types supported by processor: DDR5-SDRAM | Maximum internal memory: 128 GB | Scalability: 1S | Target market: Gaming, Content Creation | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Warnings: Do not touch the processor pins to avoid electrostatic damage. | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | Intel® Speed Shift Technology: Yes | Bus type: DMI4 | Efficient cores: 4 | Intel VT-x with Extended Page Tables (EPT): Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | PCI Express slots version: 4.0 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Maximum turbo power: 190 W | Export Control Classification Number (ECCN): 5A992CN3 | Maximum number of PCI Express lanes: 20

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