

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



Model: BX8071512700K

Manufacturer: INTEL

EAN: 5032037233989

Product Code: 1309594

## R6,473

Status: Launched | Memory bandwidth (max): 76.8 GB/s | Processor threads: 20 | Tjunction: 100 °C | Intel® Turbo Boost Technology: 2.0 | Scalability: 1S | Target market: Gaming, Content Creation | Processor operating modes: 64-bit | Maximum number of DMI lanes: 8 | Enhanced Intel SpeedStep Technology: Yes | Component for: PC | Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.2 | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | On-board graphics card: Yes | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Intel® Quick Sync Video Technology: Yes | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel® Optane™ Memory Ready: Yes | Processor package size: 45 x 37.5 mm | Supported instruction sets: SSE4.1 | CPU configuration (max): 1 | Intel Turbo Boost Max Technology 3.0: Yes | Memory channels: Dual-channel | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | OpenCL version: 2.1 | Discrete graphics card model: Not available | Mode-based Execute Control (MBE): Yes | Intel VT-x

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with Extended Page Tables (EPT): Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | PCI Express slots version: 5.0 | Number of execution units: 32 | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | PCI Express slots version: 4.0 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Bus type: DMI4 | Intel® Speed Shift Technology: Yes | Processor cores: 12 | Maximum number of PCI Express lanes: 20 | Processor model: i7-12700K | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Thermal Monitoring Technologies: Yes | Intel® OS Guard: Yes | Launch date: Q4'21 | Processor cache type: Smart Cache | Processor codename: Alder Lake | Intel® Volume Management Device (VMD): Yes | Use conditions: PC/Client/Tablet | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Execute Disable Bit: Yes | On-board graphics card DirectX version: 12.0 | Embedded options available: No | Intel® Control-flow Enforcement Technology (CET): Yes | Intel® Secure Key: Yes | Intel 64: Yes | On-board graphics card ID: 0x4680 | Processor manufacturer: Intel | Performance-core boost frequency: 4.9 GHz | Performance-core base frequency: 3.6 GHz | Harmonized System (HS) code: 8542310001 | Performance cores: 8 | Export Control Classification Number (ECCN): 5A992CN3 | Intel® Boot Guard: Yes | Box: Yes | Number of displays supported (on-board graphics): 4 | Intel® Thread Director: Yes | Idle States: Yes | Discrete graphics card: No | Thermal solution specification: PCG 2020A | Maximum internal memory supported by processor: 128 GB | On-board graphics card model: Intel UHD Graphics 770 | Memory types supported by processor: DDR4-SDRAM | Processor base power: 125 W | Memory types supported by processor: DDR5-SDRAM | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Maximum turbo power: 190 W | Processor family: Intel® Core™ i7 | Processor generation: 12th gen Intel® Core™ i7 | Efficient cores: 4 | On-board graphics card dynamic frequency (max): 1500 MHz | Processor cache: 25 MB | Intel® Turbo Boost Max Technology 3.0 frequency: 5 GHz | Commodity Classification Automated Tracking System (CCATS): G167599 | Market segment: Desktop | Processor ARK ID: 134594 | On-board graphics card OpenGL version: 4.5 | Maximum internal memory: 128 GB | Warnings: Do not touch the processor pins to avoid electrostatic damage. | On-board graphics card base frequency: 300 MHz | Processor socket: LGA 1700

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