

Intel Core i5- 12600K processor 20 MB Smart Cache Box



Model: BX8071512600K

Manufacturer: INTEL

EAN: 5032037234108

Product Code: 1305668

R5,195

Thermal solution specification: PCG 2020A | Maximum internal memory supported by processor: 128 GB | Memory types supported by processor: DDR5-SDRAM | Memory types supported by processor: DDR4-SDRAM | Memory bandwidth supported by processor (max): 76.8 GB/s | Bus type: DMI4 | On-board graphics card dynamic frequency (max): 1450 MHz | Supported instruction sets: SSE4.1 | Scalability: 1S | Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.2 | Number of displays supported (on-board graphics): 4 | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Launch date: Q4'21 | On-board graphics card outputs supported: HDMI 2.1 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Status: Launched | On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b | Harmonized System (HS) code: 85423119 | On-board graphics card outputs supported: DisplayPort 1.4a | 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 | Intel® Active Management Technology (Intel®

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AMT): Yes | Intel Turbo Boost Max Technology 3.0: No | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | On-board graphics card ID: 0x4680 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Intel® Speed Shift Technology: Yes | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Intel® Boot Guard: Yes | Box: Yes | Target market: Gaming | On-board graphics card OpenGL version: 4.5 | Market segment: Desktop | Warnings: Ensure that the CPU is properly mounted in the CPU socket to avoid damage. | Warnings: Be careful when handling the processor to avoid damaging the delicate pins. | Warnings: Do not dispose of the processors in the normal rubbish bin - they require special disposal due to their potential environmental impact. | Cooler included: No | Intel® vPro™ Platform Eligibility: Yes | Intel® Volume Management Device (VMD): Yes | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Processor generation: 12th gen Intel® Core™ i5 | Intel® Quick Sync Video Technology: Yes | Intel® OS Guard: Yes | Processor package size: 45 x 37.5 mm | Maximum number of DMI lanes: 8 | OpenCL version: 2.1 | Intel® Secure Key: Yes | Intel 64: Yes | Memory channels: Dual-channel | Intel vPro® Enterprise Platform Eligibility: Yes | Processor threads: 16 | Execute Disable Bit: Yes | Intel® Virtualization Technology with Redirect Protection (VT-rp): Yes | Intel VT-x with Extended Page Tables (EPT): Yes | Maximum number of PCI Express lanes: 20 | Processor family: Intel® Core™ i5 | Intel® Hardware Shield Eligibility: Yes | Intel Trusted Execution Technology: Yes | Processor base power: 125 W | Embedded options available: No | Processor cache type: Smart Cache | Intel® Threat Detection Technology (TDT): Yes | Intel® Standard Manageability (ISM): Yes | Discrete graphics card model: Not available | Use conditions: PC/Client/Tablet | Component for: PC | Intel® Turbo Boost Technology: 2.0 | Intel® One-Click Recovery: Yes | Intel Stable Image Platform Program (SIPP): Yes | Processor codename: Alder Lake | CPU configuration (max): 1 | Idle States: Yes | Tjunction: 100 °C | Processor cores: 10 | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Processor manufacturer: Intel | ECC: Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Processor model: i5-12600K | Intel® Total Memory Encryption - Multi Key: Yes | Processor operating modes: 64-bit | Processor ARK ID: 134589 | Maximum turbo power: 150 W | Discrete graphics card: No | On-board graphics card model: Intel UHD Graphics 770 | Processor cache: 20 MB | Intel® Optane™ Memory Ready: Yes | Memory bandwidth (max): 76.8 GB/s | On-board graphics card: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | On-board graphics card DirectX version: 12.0 | Efficient cores: 4 | Enhanced Intel SpeedStep Technology: Yes | Maximum internal memory: 128 GB | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Thermal Monitoring Technologies: Yes | Intel® Thread Director: Yes | PCI Express slots version: 4.0 | On-board graphics card base

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frequency: 300 MHz | Number of execution units: 32 | Intel® Total Memory Encryption: Yes |
Performance-core boost frequency: 4.9 GHz | PCI Express slots version: 5.0 | Performance cores: 6 |
Performance-core base frequency: 3.7 GHz | Commodity Classification Automated Tracking System
(CCATS): G167599 | Processor socket: LGA 1700 | Non-ECC: Yes | Export Control Classification
Number (ECCN): 5A992CN3 | Intel® Control-flow Enforcement Technology (CET): Yes

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