

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



Model: BX8071512700

Manufacturer: INTEL

EAN: 5032037237840

Product Code: 1312005

## R7,404

On-board graphics card DirectX version: 12.0 | Thermal Monitoring Technologies: Yes | PCI Express slots version: 4.0 | Number of execution units: 32 | PCI Express slots version: 5.0 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Maximum internal memory: 128 GB | Supported instruction sets: SSE4.1 | Processor operating modes: 64-bit | Intel 64: Yes | Supported instruction sets: SSE4.2 | Intel® Turbo Boost Technology: 2.0 | On-board graphics card: Yes | Processor cache type: Smart Cache | Processor manufacturer: Intel | CPU configuration (max): 1 | OpenCL version: 2.1 | On-board graphics card model: Intel UHD Graphics 770 | Processor model: i7-12700 | Intel® Secure Key: Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Execute Disable Bit: Yes | Discrete graphics card model: Not available | Intel® Optane™ Memory Ready: Yes | Processor codename: Alder Lake | Processor package size: 45 x 37.5 mm | Processor cache: 25 MB | Intel Stable Image Platform Program (SIPP): Yes | Embedded options available: No | Processor family: Intel® Core™ i7 | Intel® OS Guard: Yes | Memory bandwidth (max): 76.8 GB/s | Processor threads: 20 | Memory channels: Dual-channel | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Tjunction: 100 °C | ECC: Yes | Intel

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Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Supported instruction sets: AVX 2.0 | Intel Trusted Execution Technology: Yes | Bus type: DMI4 | Maximum number of PCI Express lanes: 20 | Intel VT-x with Extended Page Tables (EPT): Yes | Idle States: Yes | Enhanced Intel SpeedStep Technology: Yes | Intel® Quick Sync Video Technology: Yes | Maximum internal memory supported by processor: 128 GB | Discrete graphics card: No | Processor cores: 12 | Processor socket: LGA 1700 | On-board graphics card base frequency: 300 MHz | Status: Launched | Scalability: 1S | Target market: Gaming, Content Creation | On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | On-board graphics card outputs supported: HDMI 2.1 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 4.9 GHz | Number of displays supported (on-board graphics): 4 | Memory types supported by processor: DDR4-SDRAM | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Market segment: Desktop | Intel® vPro™ Platform Eligibility: Yes | Intel® Volume Management Device (VMD): Yes | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Use conditions: PC/Client/Tablet | Use conditions: Workstation | Memory types supported by processor: DDR5-SDRAM | Intel® Control-flow Enforcement Technology (CET): Yes | Launch date: Q1'22 | Processor base power: 65 W | On-board graphics card outputs supported: DisplayPort 1.4a | On-board graphics card ID: 0x4680 | Mode-based Execute Control (MBE): Yes | Maximum number of DMI lanes: 8 | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Intel Turbo Boost Max Technology 3.0: Yes | On-board graphics card OpenGL version: 4.5 | On-board graphics card dynamic frequency (max): 1500 MHz | Processor generation: 12th gen Intel® Core™ i7 | Intel® Thread Director: Yes | Intel® Speed Shift Technology: Yes | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Intel® Total Memory Encryption: Yes | Memory bandwidth supported by processor (max): 76.8 GB/s | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0: Yes | Maximum turbo power: 180 W | Multi-Format Codec Engines: 2 | Performance cores: 8 | Intel® Boot Guard: Yes | Box: Yes | Performance-core base frequency: 2.1 GHz | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Performance-core boost frequency: 4.8 GHz | Efficient cores: 4 | Direct Media Interface (DMI) Revision: 4.0 | Export Control Classification Number (ECCN): 5A992CN3 | Harmonized System (HS) code: 8542310001 | Commodity Classification Automated Tracking System (CCATS): G167599 | Warnings: Avoid shocks and drops so as not to damage delicate components. | Warnings: Do not touch the processor pins to avoid electrostatic damage.

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