

Intel Core i7-14700K processor 33 MB Smart Cache Box



Model: BX8071514700K

Manufacturer: INTEL

EAN: 5032037278485

Product Code: 937121

R9,095

CPU configuration (max): 1 | Stepping: B0 | Discrete graphics card model: Not available | Processor package size: 45 x 37.5 mm | Processor family: Intel® Core™ i7 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Number of execution units: 32 | On-board graphics card model: Intel UHD Graphics 770 | Enhanced Intel SpeedStep Technology: Yes | On-board graphics card DirectX version: 12.0 | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Processor codename: Raptor Lake | Non-ECC: Yes | Thermal Monitoring Technologies: Yes | PCI Express slots version: 5.0 | PCI Express slots version: 4.0 | Intel® Turbo Boost Technology: 2.0 | Maximum internal memory: 192 GB | Embedded options available: No | Intel® Boot Guard: Yes | L2 cache: 28672 KB | Intel® Volume Management Device (VMD): Yes | Harmonized System (HS) code: 8542310001 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel Turbo Boost Max Technology 3.0: Yes | Cooler included: No | On-board graphics card maximum

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resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Graphics output: eDP 1.4b, DP 1.4a, HDMI 2.1 | Launch date: Q4'23 | Commodity Classification Automated Tracking System (CCATS): 740.17B1 | Intel 64: Yes | Multi-Format Codec Engines: 2 | Processor socket: LGA 1700 | On-board graphics card OpenGL version: 4.5 | Processor manufacturer: Intel | Supported instruction sets: SSE4.2 | Intel Virtualization Technology (VT-x): Yes | On-board graphics card: Yes | Processor operating modes: 64-bit | Processor ARK ID: 236783 | Performance cores: 8 | Memory types supported by processor: DDR5-SDRAM | Intel® Control-flow Enforcement Technology (CET): Yes | On-board graphics card dynamic frequency (max): 1600 MHz | Idle States: Yes | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | On-board graphics card maximum resolution (HDMI): 4096 x 2160 pixels | Number of displays supported (on-board graphics): 4 | Maximum turbo power: 253 W | Intel® OS Guard: Yes | Processor cores: 20 | Export Control Classification Number (ECCN): 5A992C | Processor model: i7-14700K | On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b | Maximum number of DMI lanes: 8 | Memory channels: Dual-channel | On-board graphics card outputs supported: HDMI 2.1 | Box: Yes | Processor base power: 125 W | Maximum internal memory supported by processor: 192 GB | Memory types supported by processor: DDR4-SDRAM | Processor generation: Intel® Core™ i7 (14th gen) | Intel® Standard Manageability (ISM): Yes | ECC: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5.6 GHz | Processor cache: 33 MB | Intel® Thread Director: Yes | Supported instruction sets: SSE4.1 | Memory bandwidth (max): 89.6 GB/s | Supported instruction sets: AVX 2.0 | Thermal solution specification: PCG 2020A | Intel® AES New Instructions (Intel® AES-NI): Yes | Use conditions: PC/Client/Tablet | Use conditions: Workstation | Discrete graphics card: No | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Status: Launched | Intel® Speed Shift Technology: Yes | Tjunction: 100 °C | Processor threads: 28 | On-board graphics card outputs supported: DisplayPort 1.4a | On-board graphics card base frequency: 300 MHz | Scalability: 1S | Performance-core base frequency: 3.4 GHz | Market segment: Desktop | Performance-core boost frequency: 5.5 GHz | Direct Media Interface (DMI) Revision: 4.0 | Mode-based Execute Control (MBE): Yes | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | OpenCL version: 3.0 | Intel® Quick Sync Video Technology: Yes | On-board graphics card ID: 0xA780 | Intel® Secure Key: Yes | Execute Disable Bit: Yes | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0: Yes | Intel VT-x with Extended Page Tables (EPT): Yes | Processor cache type: Smart Cache | Memory bandwidth supported by processor (max): 89.6 GB/s | Efficient cores: 12 | Maximum number of PCI Express lanes: 20 | Warnings: Do not touch the processor pins to avoid electrostatic damage. | Warnings:

Avoid shocks and drops so as not to damage delicate components. | Warnings: Ensure that the

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processor is adequately cooled to prevent overheating.

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