

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



Model: BX8071514700K

Manufacturer: INTEL

EAN: 5032037278485

Product Code: 609615

## R9,170

Enhanced Intel SpeedStep Technology: Yes | Stepping: B0 | CPU configuration (max): 1 | On-board graphics card model: Intel UHD Graphics 770 | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel® Turbo Boost Technology: 2.0 | Intel® Clear Video HD Technology (Intel® CVT HD): Yes | Discrete graphics card model: Not available | PCI Express slots version: 5.0 | On-board graphics card DirectX version: 12.0 | Processor family: Intel® Core™ i7 | PCI Express configurations: 1x16+1x4 | PCI Express configurations: 2x8+1x4 | Maximum internal memory: 192 GB | Number of execution units: 32 | Intel® Hyper Threading Technology (Intel® HT Technology): Yes | Processor codename: Raptor Lake | Thermal Monitoring Technologies: Yes | Processor package size: 45 x 37.5 mm | PCI Express slots version: 4.0 | Embedded options available: No | Non-ECC: Yes | Performance cores: 8 | On-board graphics card maximum resolution (eDP - Integrated Flat Panel): 5120 x 3200 pixels | Processor base power: 125 W | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® Turbo Boost Max Technology 3.0 frequency: 5.6 GHz | Intel® Thread Director: Yes | Launch date:

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Q4'23 | Use conditions: PC/Client/Tablet | Use conditions: Workstation | Commodity Classification  
Automated Tracking System (CCATS): 740.17B1 | Export Control Classification Number (ECCN):  
5A992C | Harmonized System (HS) code: 8542310001 | Intel® Volume Management Device (VMD):  
Yes | Intel® Boot Guard: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | Performance-  
core base frequency: 3.4 GHz | Maximum turbo power: 253 W | Graphics output: eDP 1.4b, DP 1.4a,  
HDMI 2.1 | Intel Turbo Boost Max Technology 3.0: Yes | On-board graphics card OpenGL version: 4.5 |  
Multi-Format Codec Engines: 2 | Intel® Speed Shift Technology: Yes | On-board graphics card refresh  
rate at maximum resolution (DisplayPort): 60 Hz | Maximum number of DMI lanes: 8 | Performance-  
core boost frequency: 5.5 GHz | Cooler included: No | L2 cache: 28672 KB | On-board graphics card  
refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Mode-based Execute  
Control (MBE): Yes | Efficient cores: 12 | 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 refresh rate at maximum resolution (HDMI): 60 Hz | Memory bandwidth (max):  
89.6 GB/s | Execute Disable Bit: Yes | On-board graphics card: Yes | Processor manufacturer: Intel |  
Intel 64: Yes | Intel Virtualization Technology (VT-x): Yes | Intel® Secure Key: Yes | Idle States: Yes |  
Number of displays supported (on-board graphics): 4 | On-board graphics card dynamic frequency  
(max): 1600 MHz | On-board graphics card ID: 0xA780 | Memory types supported by processor:  
DDR5-SDRAM | Processor cache: 33 MB | Processor generation: Intel® Core™ i7 (14th gen) | Status:  
Launched | Supported instruction sets: AVX 2.0 | Supported instruction sets: SSE4.2 | Intel®  
Standard Manageability (ISM): Yes | Direct Media Interface (DMI) Revision: 4.0 | Intel® Quick Sync  
Video Technology: Yes | Memory channels: Dual-channel | On-board graphics card outputs  
supported: HDMI 2.1 | On-board graphics card outputs supported: DisplayPort 1.4a | Processor cores:  
20 | Processor model: i7-14700K | Market segment: Desktop | Supported instruction sets: SSE4.1 |  
Intel® AES New Instructions (Intel® AES-NI): Yes | Processor threads: 28 | Box: Yes | Thermal  
solution specification: PCG 2020A | Discrete graphics card: No | Maximum internal memory  
supported by processor: 192 GB | Memory types supported by processor: DDR4-SDRAM | OpenCL  
version: 3.0 | Intel® OS Guard: Yes | Processor ARK ID: 236783 | Processor operating modes: 64-bit |  
Tjunction: 100 °C | On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b |  
Scalability: 1S | ECC: Yes | Processor cache type: Smart Cache | Memory bandwidth supported by  
processor (max): 89.6 GB/s | Intel VT-x with Extended Page Tables (EPT): Yes | Intel® Gaussian &  
Neural Accelerator (Intel® GNA) 3.0: Yes | On-board graphics card base frequency: 300 MHz |  
Processor socket: LGA 1700 | Maximum number of PCI Express lanes: 20 | Warnings: Avoid shocks  
and drops so as not to damage delicate components. | Warnings: Do not touch the processor pins to  
avoid electrostatic damage. | Warnings: Ensure that the processor is adequately cooled to prevent

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overheating.

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