

Intel Core i7-14700K Prozessor 33 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:
CM8071504820721

Produktname : i7-14700K



Intel Core i7-14700K. Prozessorfamilie: Intel® Core™ i7, Prozessorsockel: LGA 1700, Prozessorhersteller: Intel. Speicherkanäle: Zweikanalig, Maximaler interner Speicher, vom Prozessor unterstützt: 192 GB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM, DDR5-SDRAM. Eingebautes Grafikkartenmodell: Intel UHD Graphics 770, On-Board Grafikkadapater unterstützte Ausgänge: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-Board Grafikkadapater Basisfrequenz: 300 MHz. Marktsegment: Desktop, Nutzungsbedingungen: Arbeitsstation, PC/Client/Tablet, PCI-Express-Slots-Version: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,6 GHz

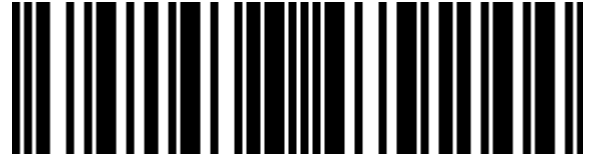


| Prozessor | | Merkmale | |
|---|---|--|----------------------------------|
| Prozessorhersteller * | Intel | Thermal-Überwachungstechnologien | ✓ |
| Prozessorgeneration | Intel Core i7-14xxx | Marktsegment | Desktop |
| Prozessor * | i7-14700K | Nutzungsbedingungen | Arbeitsstation, PC/Client/Tablet |
| Prozessorfamilie * | Intel® Core™ i7 | Maximale Anzahl der PCI-Express-Lanes | 20 |
| Anzahl Prozessorkerne * | 20 | PCI-Express-Slots-Version | 4.0, 5.0 |
| Prozessorsockel * | LGA 1700 | PCI Express Konfigurationen | 1x16+1x4, 2x8+1x4 |
| Prozessor-Threads | 28 | Unterstützte Befehlssätze | AVX 2.0, SSE4.1, SSE4.2 |
| Prozessorbetriebsmodi * | 64-Bit | Skalierbarkeit | 1S |
| Leistungskerne | 8 | CPU Konfiguration (max) | 1 |
| Effiziente Kerne | 12 | Eingebettete Optionen verfügbar | ✗ |
| Prozessor Boost-Frequenz | 5,6 GHz | Spezifikation der thermischen Lösung | PCG 2020A |
| Leistung Kern-Boost-Frequenz | 5,5 GHz | Direkte Medienschnittstelle (DMI) Revision | 4.0 |
| Leistung Basisfrequenz des Kerns | 3,4 GHz | Exportkontroll-Klassifizierungsnummer (ECCN) | 5A992C |
| Effiziente Kern-Boost-Frequenz | 4,3 GHz | Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS) | 740.17B1 |
| Effiziente Basisfrequenz des Kerns | 2,5 GHz | | |
| Prozessor-Cache | 33 MB | | |
| Prozessor Cache Typ | Smart Cache | | |
| Box * | ✗ | | |
| Grundleistung des Prozessors | 125 W | | |
| Maximale Turboleistung | 253 W | | |
| Stepping | B0 | | |
| Maximale Anzahl DMI-Spuren | 8 | | |
| Durch den Prozessor (max) unterstützte Speicherbandbreite | 89,6 GB/s | | |
| Prozessor Codename | Raptor Lake | | |
| ARK Prozessorerkennung | 236783 | | |
| Speicher | | Prozessor Besonderheiten | |
| Maximaler interner Speicher, vom Prozessor unterstützt | 192 GB | Intel® Hyper-Threading-Technik (Intel® HT Technology) | ✓ |
| Speichertypen, vom Prozessor unterstützt | DDR4-SDRAM, DDR5-SDRAM | Intel® Turbo-Boost-Technologie | 2.0 |
| Speicherkanäle * | Zweikanalig | Intel® Quick-Sync-Video-Technik | ✓ |
| ECC | ✓ | Intel® Clear Video HD Technology für (Intel® CVT HD) | ✓ |
| Speicherbandbreite (max.) | 89,6 GB/s | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| | | Verbesserte Intel SpeedStep Technologie | ✓ |
| | | Intel® -Speed-Shift-Technologie | ✓ |
| | | Intel® Turbo Boost Max Technology 3.0 frequency | 5,6 GHz |
| | | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0 | ✓ |
| | | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| | | Intel® Thread Director | ✓ |
| | | Intel® VT-x mit Extended Page Tables (EPT) | ✓ |
| | | Intel® Sicherer Schlüssel | ✓ |
| | | Intel® OS Guard | ✓ |
| | | Intel® 64 | ✓ |
| | | Intel® Virtualization Technologie (VT-X) | ✓ |
| | | Intel® Virtualisierungstechnik für direkte I/O (VT-d) | ✓ |
| Grafik | | | |
| Eingebaute Grafikkadapater * | ✓ | | |
| Separater Grafikkadapater * | ✗ | | |
| Eingebautes Grafikkartenmodell * | Intel UHD Graphics 770 | | |
| On-Board Grafikkadapater unterstützte Ausgänge | Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1 | | |
| On-Board Grafikkadapater Basisfrequenz | 300 MHz | | |
| Maximale dynamische Frequenz der On-Board Grafikkadapater | 1600 MHz | | |

| Grafik | | Prozessor Besonderheiten | |
|---|-------------------|--|-----------------------------|
| Anzahl an unterstützten Displays (On-Board-Grafik) | 4 | Intel Turbo Boost Max Technology 3.0 | ✓ |
| On-Board Grafikkadapler DirectX Version | 12.0 | Intel® Boot Guard | ✓ |
| On-Board Grafikkadapler OpenGL Version | 4.5 | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (DisplayPort) | 7680 x 4320 Pixel | Intel® Volume Management Device (VMD) | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (eDP - integrierter Flachbildschirm) | 5120 x 3200 Pixel | Modusbasierte Execute Control (MBE) | ✓ |
| Integrierter Grafik-Adapter maximale Auflösung (HDMI) | 4096 x 2160 Pixel | Intel® Standard Manageability (ISM) | ✓ |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (DisplayPort) | 60 Hz | Betriebsbedingungen | |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (eDP - integrierter Flachbildschirm) | 120 Hz | Tjunction | 100 °C |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (HDMI) | 60 Hz | Technische Details | |
| On-Board Grafikkadapler Geräte-ID | 0xA780 | OpenCL-Version | 3.0 |
| Separates Grafikkartenmodell * | Nicht verfügbar | Startdatum | Q4'23 |
| Anzahl der Rechenwerke | 32 | Status | Launched |
| Multi-Format-Codec-Engines | 2 | Logistikdaten | |
| Merkmale | | Warentarifnummer (HS) | 8542310001 |
| Execute Disable Bit | ✓ | Gewicht und Abmessungen | |
| Leerlauf Zustände | ✓ | Prozessor-Paketgröße | 45 x 37.5 mm |
| | | Sonstige Funktionen | |
| | | Pufferspeicher L2 | 28672 KB |
| | | RAM-Speicher maximal | 192 GB |
| | | Grafischer Ausgang | eDP 1.4b, DP 1.4a, HDMI 2.1 |



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