

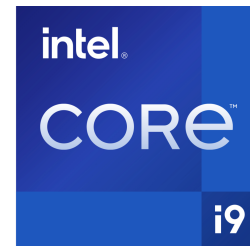
Intel Core i9-12900K Prozessor 30 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:
CM8071504549230

Produktname : i9-12900K



Intel® Core™ i9-12900K Prozessor (30 MB Cache, bis zu 5,20 GHz)

Intel Core i9-12900K. Prozessorfamilie: Intel® Core™ i9, Prozessorsockel: LGA 1700, Prozessorhersteller: Intel. Speicherkanäle: Zweikanalig, Maximaler interner Speicher, vom Prozessor unterstützt: 128 GB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM, DDR5-SDRAM. Eingebautes Grafikkartenmodell: Intel UHD Graphics 770, On-Board Grafikkadapler Basisfrequenz: 300 MHz, Maximale dynamische Frequenz der On-Board Grafikkadapler: 1550 MHz. Marktsegment: Desktop, Nutzungsbedingungen: PC/Client/Tablet, Arbeitsstation, PCI-Express-Slots-Version: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz



| Prozessor | | Merkmale | |
|---|--|--|-----------|
| Prozessorhersteller * | Intel | Eingebettete Optionen verfügbar | ✗ |
| Prozessorgeneration | Intel® Core™ i9 Prozessoren der 12. Generation | Spezifikation der thermischen Lösung | PCG 2020A |
| Prozessor * | i9-12900K | Exportkontroll-Klassifizierungsnummer (ECCN) | 5A992CN3 |
| Prozessorfamilie * | Intel® Core™ i9 | Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS) | G167599 |
| Anzahl Prozessorkerne * | 16 | Prozessor Besonderheiten | |
| Prozessorsockel * | LGA 1700 | Intel® Hyper-Threading-Technik (Intel® HT Technology) | ✓ |
| Komponente für | PC | Intel® Turbo-Boost-Technologie | 2.0 |
| Prozessor-Threads | 24 | Intel® Quick-Sync-Video-Technik | ✓ |
| Prozessorbetriebsmodi * | 64-Bit | Intel® Clear Video HD Technology für (Intel® CVT HD) | ✓ |
| Leistungskerne | 8 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Effiziente Kerne | 8 | Verbesserte Intel SpeedStep Technologie | ✓ |
| Prozessor Boost-Frequenz | 5,2 GHz | Intel® Trusted-Execution-Technik | ✓ |
| Leistung Kern-Boost-Frequenz | 5,1 GHz | Intel® -Speed-Shift-Technologie | ✓ |
| Leistung Basisfrequenz des Kerns | 3,2 GHz | Intel® Turbo Boost Max Technology 3.0 frequency | 5,2 GHz |
| Effiziente Kern-Boost-Frequenz | 3,9 GHz | Intel® Total Memory Encryption | ✓ |
| Effiziente Basisfrequenz des Kerns | 2,4 GHz | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Prozessor-Cache | 30 MB | Intel® Thread Director | ✓ |
| Prozessor Cache Typ | Smart Cache | Intel® VT-x mit Extended Page Tables (EPT) | ✓ |
| Box * | ✗ | Intel® Sicherer Schlüssel | ✓ |
| Grundleistung des Prozessors | 125 W | Intel® Active Management Technologie (Intel® AMT) | ✓ |
| Maximale Turboleistung | 241 W | Intel Stable Image Platform Program (SIPP) | ✓ |
| Bus Typ | DMI4 | Intel® OS Guard | ✓ |
| Maximale Anzahl DMI-Spuren | 8 | Intel® 64 | ✓ |
| Durch den Prozessor (max) unterstützte Speicherbandbreite | 76,8 GB/s | Intel® Virtualization Technologie (VT-X) | ✓ |
| Prozessor Codename | Alder Lake | Intel® Virtualisierungstechnik für direkte I/O (VT-d) | ✓ |
| ARK Prozessorerkennung | 134599 | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Speicher | | Intel® Optane™ Memory-bereit | ✓ |
| Maximaler interner Speicher, vom Prozessor unterstützt | 128 GB | Intel® Boot Guard | ✓ |
| Speichertypen, vom Prozessor unterstützt | DDR4-SDRAM, DDR5-SDRAM | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Speicherkanäle * | Zweikanalig | | |
| ECC | ✓ | | |
| Speicherbandbreite (max.) | 76,8 GB/s | | |
| Grafik | | | |
| Eingebaute Grafikkadapler * | ✓ | | |
| Separater Grafikkadapler * | ✗ | | |
| Eingebautes Grafikkartenmodell * | Intel UHD Graphics 770 | | |
| On-Board Grafikkadapler Basisfrequenz | 300 MHz | | |

| Grafik | | Prozessor Besonderheiten | |
|---|----------------------------------|---|-----------------------------|
| Maximale dynamische Frequenz der On-Board Grafikkadaper | 1550 MHz | Intel® Volume Management Device (VMD) | ✓ |
| Anzahl an unterstützten Displays (On-Board-Grafik) | 4 | Modusbasierte Execute Control (MBE) | ✓ |
| On-Board Grafikkadaper DirectX Version | 12.0 | Intel® vPro™ Platform Eligibility | ✓ |
| On-Board Grafikkadaper OpenGL Version | 4.5 | Intel® Standard Manageability (ISM) | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (DisplayPort) | 7680 x 4320 Pixel | Intel® One-Click Recovery | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (eDP - integrierter Flachbildschirm) | 5120 x 3200 Pixel | Intel® Virtualisierungstechnik mit Umleitungsschutz (VT-rp) | ✓ |
| Integrierter Grafik-Adapter maximale Auflösung (HDMI) | 4096 x 2160 Pixel | Intel vPro® Enterprise Plattform-Berechtigung | ✓ |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (DisplayPort) | 60 Hz | Intel® Threat Detection Technology (TDT) | ✓ |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (eDP - integrierter Flachbildschirm) | 120 Hz | Intel® Hardware Shield Eligibility | ✓ |
| Bildwiederholfrequenz des On-Board Grafikkadapters bei maximaler Auflösung (HDMI) | 60 Hz | Intel® Total Memory Encryption - Multi Key | ✓ |
| On-Board Grafikkadaper Geräte-ID | 0x4680 | | |
| Separates Grafikkartenmodell * | Nicht verfügbar | | |
| Anzahl der Rechenwerke | 32 | | |
| Merkmale | | Betriebsbedingungen | |
| Execute Disable Bit | ✓ | Tjunction | 100 °C |
| Leerlauf Zustände | ✓ | Technische Details | |
| Thermal-Überwachungstechnologien | ✓ | Zielmarkt | Gaming, Content Creation |
| Marktsegment | Desktop | OpenCL-Version | 2.1 |
| Nutzungsbedingungen | PC/Client/Tablet, Arbeitsstation | Startdatum | Q4'21 |
| Maximale Anzahl der PCI-Express-Lanes | 20 | Status | Launched |
| PCI-Express-Slots-Version | 5.0, 4.0 | Logistikdaten | |
| PCI Express Konfigurationen | 1x16+1x4, 2x8+1x4 | Warentarifnummer (HS) | 85423119 |
| Unterstützte Befehlssätze | SSE4.1, SSE4.2, AVX 2.0 | Verpackungsdaten | |
| Skalierbarkeit | 1S | Verpackungsart | Einschub |
| CPU Konfiguration (max) | 1 | Gewicht und Abmessungen | |
| | | Prozessor-Paketgröße | 45 x 37.5 mm |
| | | Sonstige Funktionen | |
| | | RAM-Speicher maximal | 128 GB |
| | | Grafischer Ausgang | eDP 1.4b, DP 1.4a, HDMI 2.1 |



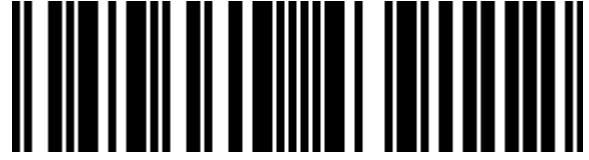
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