

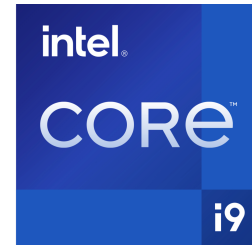
Intel Core i9-12900KF Prozessor 30 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:
CM8071504549231

Produktname : i9-12900KF



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

Intel Core i9-12900KF. 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. Marktsegment: Desktop, Nutzungsbedingungen: PC/Client/Tablet, PCI-Express-Slots-Version: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz. Verpackungsart: Einzelhandels-Box



| Prozessor | | Merkmale | |
|---|--|--|-----------|
| Prozessorhersteller * | Intel | Eingebettete Optionen verfügbar | ✗ |
| Prozessorgeneration | Intel® Core™ i9 Prozessoren der 12. Generation | Spezifikation der thermischen Lösung | PCG 2020A |
| Prozessor * | i9-12900KF | 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® AES New Instructions (Intel® AES-NI) | ✓ |
| Prozessorbetriebsmodi * | 64-Bit | Verbesserte Intel SpeedStep Technologie | ✓ |
| Leistungskerne | 8 | Intel® -Speed-Shift-Technologie | ✓ |
| Effiziente Kerne | 8 | Intel® Turbo Boost Max Technology 3.0 frequency | 5,2 GHz |
| Prozessor Boost-Frequenz | 5,2 GHz | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Leistung Kern-Boost-Frequenz | 5,1 GHz | Intel® Thread Director | ✓ |
| Leistung Basisfrequenz des Kerns | 3,2 GHz | Intel® VT-x mit Extended Page Tables (EPT) | ✓ |
| Effiziente Kern-Boost-Frequenz | 3,9 GHz | Intel® Sicherer Schlüssel | ✓ |
| Effiziente Basisfrequenz des Kerns | 2,4 GHz | Intel® OS Guard | ✓ |
| Prozessor-Cache | 30 MB | Intel® 64 | ✓ |
| Prozessor Cache Typ | Smart Cache | Intel® Virtualization Technologie (VT-X) | ✓ |
| Box * | ✗ | Intel® Virtualisierungstechnik für direkte I/O (VT-d) | ✓ |
| Grundleistung des Prozessors | 125 W | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Maximale Turboleistung | 241 W | Intel® Optane™ Memory-bereit | ✓ |
| Bus Typ | DMI4 | Intel® Boot Guard | ✓ |
| Maximale Anzahl DMI-Spuren | 8 | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Durch den Prozessor (max) unterstützte Speicherbandbreite | 76,8 GB/s | Intel® Volume Management Device (VMD) | ✓ |
| Prozessor Codename | Alder Lake | Modusbasierte Execute Control (MBE) | ✓ |
| ARK Prozessorerkennung | 134600 | Intel® Standard Manageability (ISM) | ✓ |
| Speicher | | Betriebsbedingungen | |
| Maximaler interner Speicher, vom Prozessor unterstützt | 128 GB | Tjunction | 100 °C |
| Speichertypen, vom Prozessor unterstützt | DDR4-SDRAM, DDR5-SDRAM | Logistikdaten | |
| Speicherkanäle * | Zweikanalig | Warentarifnummer (HS) | 85423119 |
| Speicherbandbreite (max.) | 76,8 GB/s | | |
| Grafik | | | |
| Eingebaute Grafikkarte * | ✗ | | |
| Separater Grafikkarte * | ✗ | | |
| Eingebautes Grafikkartenmodell * | Nicht verfügbar | | |
| Separates Grafikkartenmodell * | Nicht verfügbar | | |
| Merkmale | | | |
| Execute Disable Bit | ✓ | | |

| Merkmale | | Verpackungsdaten | |
|---------------------------------------|-------------------------|--------------------------------|--------------------------|
| Leerlauf Zustände | ✓ | Verpackungsart | Einzelhandels-Box |
| Thermal-Überwachungstechnologien | ✓ | Technische Details | |
| Marktsegment | Desktop | Zielmarkt | Gaming, Content Creation |
| Nutzungsbedingungen | PC/Client/Tablet | Startdatum | Q4'21 |
| Maximale Anzahl der PCI-Express-Lanes | 20 | Status | Launched |
| PCI-Express-Slots-Version | 5.0, 4.0 | Gewicht und Abmessungen | |
| PCI Express Konfigurationen | 1x16+1x4, 2x8+1x4 | Prozessor-Paketgröße | 45 x 37.5 mm |
| Unterstützte Befehlssätze | SSE4.1, SSE4.2, AVX 2.0 | Sonstige Funktionen | |
| Skalierbarkeit | 1S | RAM-Speicher maximal | 128 GB |
| CPU Konfiguration (max) | 1 | | |



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