

Intel Core i9-12900KF processor 30 MB Smart Cache

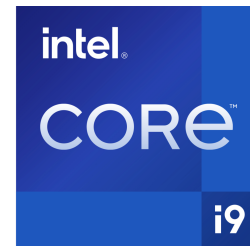
Merk : Intel

Productfamilie: Core

 Artikelcode:
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Productnaam : i9-12900KF

Intel Core i9-12900KF. Processorfamilie: Intel® Core™ i9, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz. Type verpakking: Retaildoos



| Processor | | Kenmerken | |
|----------------------------------------------------------|--------------------------------|---------------------------------------------------------------|-----------|
| Processorfabrikant * | Intel | Ingebouwde opties beschikbaar | ✗ |
| Processorgeneratie | Intel® 12de generatie Core™ i9 | Thermal solution specificatie | PCG 2020A |
| Processormodel * | i9-12900KF | Export Control Classification Number (ECCN) | 5A992CN3 |
| Processorfamilie * | Intel® Core™ i9 | Commodity Classification Automated Tracking System (CCATS) | G167599 |
| Aantal processorkernen * | 16 | Processor speciale functies | |
| Processor socket * | LGA 1700 | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Component voor | PC | Intel® Turbo Boost Technology | 2.0 |
| Processor aantal threads | 24 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor operating modes * | 64-bit | Enhanced Intel SpeedStep Technology | ✓ |
| Prestatiekernen | 8 | Intel® Speed Shift-technologie | ✓ |
| Efficiënte kernen | 8 | Intel® Turbo Boost Max Technology 3.0 frequency | 5,2 GHz |
| Maximale turbofrequentie van processor | 5,2 GHz | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Prestatie-kernboostfrequentie | 5,1 GHz | Intel® Thread Director | ✓ |
| Prestatie-kernbasisfrequentie | 3,2 GHz | Intel® VT-x with Extended Page Tables (EPT) | ✓ |
| Efficiënte kernboostfrequentie | 3,9 GHz | Intel® Secure Key | ✓ |
| Efficiënte kernbasisfrequentie | 2,4 GHz | Intel® OS Guard | ✓ |
| Processor cache | 30 MB | Intel® 64 | ✓ |
| Processor cache type | Smart Cache | Intel® Virtualization Technology (VT-x) | ✓ |
| Box * | ✗ | Intel® Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor basisvermogen | 125 W | Intel® Turbo Boost Max Technology 3.0 | ✓ |
| Maximaal turbovermogen | 241 W | Intel® Optane™ Memory Ready | ✓ |
| Bus type | DMI4 | Intel® Boot Guard | ✓ |
| Maximum aantal DMI lanes | 8 | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Geheugenbandbreedte ondersteund door de processor (max) | 76,8 GB/s | Intel® Volume Management Device (VMD) | ✓ |
| Codenaam processor | Alder Lake | Mode-based Execute Control (MBE) | ✓ |
| ARK ID processor | 134600 | Intel® Standard Manageability (ISM, Standaard beheerbaarheid) | ✓ |
| Geheugen | | Eisen aan de omgeving | |
| Maximaal intern geheugen ondersteund door processor | 128 GB | Tjunction | 100 °C |
| Geheugentypen ondersteund door processor | DDR4-SDRAM, DDR5-SDRAM | Logistieke gegevens | |
| Geheugen kanaal * | Dubbelkanaals | Code geharmoniseerd systeem (HS) 85423119 | |
| Geheugen bandbreedte (max) | 76,8 GB/s | | |
| Grafisch | | | |
| Ingebouwde grafische adapter * | ✗ | | |
| Aparte grafische adapter * | ✗ | | |
| On-board graphics adapter model * | Niet beschikbaar | | |
| Discreet grafische adapter model * | Niet beschikbaar | | |
| Kenmerken | | | |
| Execute Disable Bit | ✓ | | |

| Kenmerken | | Verpakking | |
|------------------------------------|-------------------------|------------------------------|--------------------------|
| Idle States | ✓ | Type verpakking | Retaildoos |
| Thermal Monitoring Technologies | ✓ | Technische details | |
| Marktsegment | Desktop | Doelgroep | Gaming, Content Creation |
| Gebruiksvoorwaarden | PC/Client/Tablet | Lanceringsdatum | Q4'21 |
| Maximaal aantal PCI Express-lijnen | 20 | Status | Launched |
| PCI Express slots versie | 5.0, 4.0 | Gewicht en omvang | |
| PCI Express configuraties | 1x16+1x4, 2x8+1x4 | Verpakkingsgrootte processor | 45 x 37.5 mm |
| Ondersteunde instructie sets | SSE4.1, SSE4.2, AVX 2.0 | Overige specificaties | |
| Schaalbaarheid | 1S | Maximum intern geheugen | 128 GB |
| CPU configuratie (max) | 1 | | |



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