

Intel Core i9-12900F Prozessor 30 MB Smart Cache Box

Marke : Intel

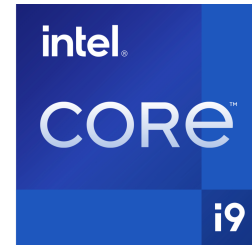
Produktfamilie: Core

Artikel-Code: BX8071512900F

Produktname : i9-12900F

Intel® Core™ i9-12900F Prozessor (30 MB Cache, bis zu 5,10 GHz)

Intel Core i9-12900F. 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: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,1 GHz. Verpackungsart: Einzelhandels-Box



Prozessor		Merkmale	
Prozessorhersteller *	Intel	Direkte Medienschnittstelle (DMI) Revision	4.0
Prozessorgeneration	Intel® Core™ i9 Prozessoren der 12. Generation	Exportkontroll-Klassifizierungsnummer (ECCN)	5A992CN3
Prozessor *	i9-12900F	Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	G167599
Prozessorfamilie *	Intel® Core™ i9	Prozessor Besonderheiten	
Anzahl Prozessorkerne *	16	Intel® Hyper-Threading-Technik (Intel® HT Technology)	✓
Prozessorsockel *	LGA 1700	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	5,1 GHz
Prozessor Boost-Frequenz	5,1 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Leistung Kern-Boost-Frequenz	5 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Leistung Basisfrequenz des Kerns	2,4 GHz	Intel® Thread Director	✓
Effiziente Kern-Boost-Frequenz	3,8 GHz	Intel® VT-x mit Extended Page Tables (EPT)	✓
Effiziente Basisfrequenz des Kerns	1,8 GHz	Intel® Sicherer Schlüssel	✓
Prozessor-Cache	30 MB	Intel® OS Guard	✓
Prozessor Cache Typ	Smart Cache	Intel® 64	✓
Box *	✓	Intel® Virtualization Technologie (VT-X)	✓
Grundleistung des Prozessors	65 W	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Maximale Turboleistung	202 W	Intel Turbo Boost Max Technology 3.0	✓
Stepping	C0	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	134598	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		
Speicherkanäle *	Zweikanalig		
Speicherbandbreite (max.)	76,8 GB/s		
Grafik			
Eingebaute Grafikkartenmodell *	✗		
Separater Grafikkartenmodell *	✗		
Eingebautes Grafikkartenmodell *	Nicht verfügbar		
Separates Grafikkartenmodell *	Nicht verfügbar		
Merkmale			
Execute Disable Bit	✓		

Merkmale		Logistikdaten	
Leerlauf Zustände	✓	Warentarifnummer (HS)	85423119
Thermal-Überwachungstechnologien	✓	Verpackungsdaten	
Marktsegment	Desktop	Verpackungsart	Einzelhandels-Box
Nutzungsbedingungen	PC/Client/Tablet	Technische Details	
Maximale Anzahl der PCI-Express-Lanes	20	Zielmarkt	Gaming, Content Creation
PCI-Express-Slots-Version	4.0, 5.0	Startdatum	Q1'22
PCI Express Konfigurationen	1x16+1x4, 2x8+1x4	Status	Launched
Unterstützte Befehlssätze	SSE4.1, SSE4.2, AVX 2.0	Gewicht und Abmessungen	
Skalierbarkeit	1S	Prozessor-Paketgröße	45 x 37.5 mm
CPU Konfiguration (max)	1	Sonstige Funktionen	
Eingebettete Optionen verfügbar	✗	RAM-Speicher maximal	128 GB



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