

Intel Core i7-12700F Prozessor 25 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:
CM8071504555020

Produktname : i7-12700F



Intel® Core™ i7-12700F Prozessor (25 MB Cache, bis zu 4,90 GHz)

Intel Core i7-12700F. Prozessorfamilie: Intel® Core™ i7, 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: 4,9 GHz. Verpackungsart: Einzelhandels-Box



Prozessor		Merkmale	
Prozessorhersteller *	Intel	Direkte Medienschnittstelle (DMI) Revision	4.0
Prozessorgeneration	Intel® Core™ i7 Prozessoren der 12. Generation	Exportkontroll-Klassifizierungsnummer (ECCN)	5A992CN3
Prozessor *	i7-12700F	Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	G167599
Prozessorfamilie *	Intel® Core™ i7	Prozessor Besonderheiten	
Anzahl Prozessorkerne *	12	Intel® Hyper-Threading-Technik (Intel® HT Technology)	✓
Prozessorsockel *	LGA 1700	Intel® Turbo-Boost-Technologie	2.0
Prozessor-Threads	20	Intel® AES New Instructions (Intel® AES-NI)	✓
Prozessorbetriebsmodi *	64-Bit	Verbesserte Intel SpeedStep Technologie	✓
Leistungskerne	8	Intel® -Speed-Shift-Technologie	✓
Effiziente Kerne	4	Intel® Turbo Boost Max Technology 3.0 frequency	4,9 GHz
Prozessor Boost-Frequenz	4,9 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Leistung Kern-Boost-Frequenz	4,8 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Leistung Basisfrequenz des Kerns	2,1 GHz	Intel® Thread Director	✓
Effiziente Kern-Boost-Frequenz	3,6 GHz	Intel® VT-x mit Extended Page Tables (EPT)	✓
Effiziente Basisfrequenz des Kerns	1,6 GHz	Intel® Sicherer Schlüssel	✓
Prozessor-Cache	25 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	180 W	Intel Turbo Boost Max Technology 3.0	✓
Bus Typ	DMI4	Intel® Optane™ Memory-bereit	✓
Maximale Anzahl DMI-Spuren	8	Intel® Boot Guard	✓
Durch den Prozessor (max) unterstützte Speicherbandbreite	76,8 GB/s	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Prozessor Codename	Alder Lake	Intel® Volume Management Device (VMD)	✓
ARK Prozessorerkennung	134592	Modusbasierte Execute Control (MBE)	✓
Speicher		Intel® Standard Manageability (ISM)	✓
Maximaler interner Speicher, vom Prozessor unterstützt	128 GB	Betriebsbedingungen	
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM, DDR5-SDRAM	Tjunction	100 °C
Speicherkanäle *	Zweikanalig	Logistikdaten	
Speicherbandbreite (max.)	76,8 GB/s	Warentarifnummer (HS)	85423119
Grafik			
Eingebaute Grafikkarte *	✗		
Separater Grafikkarte *	✗		
On-Board Grafikkartenmodell *	Nicht verfügbar		
Dediziertes Grafikkartenmodell *	Nicht verfügbar		
Merkmale			
Execute Disable Bit	✓		
Leerlauf Zustände	✓		
Thermal-Überwachungstechnologien	✓		
Marktsegment	Desktop		

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



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