

Intel Core i7-14700F Prozessor 33 MB Smart Cache Box

Marke : Intel

Produktfamilie: Core

Artikel-Code: BX8071514700F

Produktname : i7-14700F

Intel Core i7-14700F. Prozessorfamilie: Intel® Core™ i7, Prozessorsockel: LGA 1700, Prozessorhersteller: Intel. Speicherkanäle: Zweikanalig, Maximaler interner Speicher, vom Prozessor unterstützt: 192 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: 5,4 GHz. Prozessor-Paketgröße: 45 x 37,5 mm



Prozessor		Merkmale	
Prozessorhersteller *	Intel	Eingebettete Optionen verfügbar	✗
Prozessorgeneration	Intel Core i7-14xxx	Direkte Medienschnittstelle (DMI) Revision	4.0
Prozessor *	i7-14700F	Exportkontroll-Klassifizierungsnummer (ECCN)	5A992C
Prozessorfamilie *	Intel® Core™ i7	Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	740.17B1
Anzahl Prozessorkerne *	20	Prozessor Besonderheiten	
Prozessorsockel *	LGA 1700	Intel® Hyper-Threading-Technik (Intel® HT Technology)	✓
Prozessor-Threads	28	Intel® Turbo-Boost-Technologie	2.0
Prozessorbetriebsmodi *	64-Bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Leistungskerne	8	Verbesserte Intel SpeedStep Technologie	✓
Effiziente Kerne	12	Intel®-Speed-Shift-Technologie	✓
Prozessor Boost-Frequenz	5,4 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,4 GHz
Leistung Kern-Boost-Frequenz	5,3 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Leistung Basisfrequenz des Kerns	2,1 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Effiziente Kern-Boost-Frequenz	4,2 GHz	Intel® Thread Director	✓
Effiziente Basisfrequenz des Kerns	1,5 GHz	Intel® VT-x mit Extended Page Tables (EPT)	✓
Prozessor-Cache	33 MB	Intel® Sicherer Schlüssel	✓
Prozessor Cache Typ	Smart Cache	Intel® OS Guard	✓
Box *	✓	Intel® 64	✓
Kühler enthalten *	✓	Intel® Virtualization Technologie (VT-X)	✓
Grundleistung des Prozessors	65 W	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Maximale Turboleistung	219 W	Intel® Turbo Boost Max Technology 3.0	✓
Stepping	B0	Intel® Boot Guard	✓
Maximale Anzahl DMI-Spuren	8	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Durch den Prozessor (max) unterstützte Speicherbandbreite	89,6 GB/s	Intel® Volume Management Device (VMD)	✓
Prozessor Codename	Raptor Lake	Modusbasierte Execute Control (MBE)	✓
ARK Prozessorerkennung	236854	Intel® Standard Manageability (ISM)	✓
Speicher		Betriebsbedingungen	
Maximaler interner Speicher, vom Prozessor unterstützt	192 GB	Tjunction	100 °C
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM, DDR5-SDRAM		
Speicherkanäle *	Zweikanalig		
Speicherbandbreite (max.)	89,6 GB/s		
Grafik			
Eingebaute Grafikkarte *	✗		
Separater Grafikkarte *	✗		
On-Board Grafikkartenmodell *	Nicht verfügbar		
Dediziertes Grafikkartenmodell *	Nicht verfügbar		
Merkmale			
Execute Disable Bit	✓		
Leerlauf Zustände	✓		

Merkmale		Logistikdaten	
Thermal-Überwachungstechnologien	✓	Warentarifnummer (HS)	8542310001
Marktsegment	Desktop	Technische Details	
Nutzungsbedingungen	PC/Client/Tablet	Startdatum	Q1'24
Maximale Anzahl der PCI-Express-Lanes	20	Status	Launched
PCI-Express-Slots-Version	4.0, 5.0	Gewicht und Abmessungen	
PCI Express Konfigurationen	1x16+1x4, 2x8+1x4	Prozessor-Paketgröße	45 x 37.5 mm
Unterstützte Befehlssätze	AVX 2.0, SSE4.1, SSE4.2	Sonstige Funktionen	
Skalierbarkeit	1S	Pufferspeicher L2	28672 KB
CPU Konfiguration (max)	1	RAM-Speicher maximal	192 GB



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