

## Intel Core i7-14700KF Prozessor 33 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:  
CM8071504820722

Produktname : i7-14700KF



Intel Core i7-14700KF. 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: 5,6 GHz. Prozessor-Paketgröße: 45 x 37,5 mm



Prozessor		Merkmale	
Prozessorhersteller *	Intel	Spezifikation der thermischen Lösung	PCG 2020A
Prozessorgeneration	Intel Core i7-14xxx	Direkte Medienschnittstelle (DMI) Revision	4.0
Prozessor *	i7-14700KF	Exportkontroll-Klassifizierungsnummer (ECCN)	5A992C
Prozessorfamilie *	Intel® Core™ i7	Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	740.17B1
Anzahl Prozessorkerne *	20	<b>Prozessor Besonderheiten</b>	
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	5,6 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
Leistung Kern-Boost-Frequenz	5,5 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Leistung Basisfrequenz des Kerns	3,4 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Effiziente Kern-Boost-Frequenz	4,3 GHz	Intel® Thread Director	✓
Effiziente Basisfrequenz des Kerns	2,5 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	✓
Grundleistung des Prozessors	125 W	Intel® Virtualization Technologie (VT-X)	✓
Maximale Turboleistung	253 W	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Stepping	B0	Intel Turbo Boost Max Technology 3.0	✓
Maximale Anzahl DMI-Spuren	8	Intel® Boot Guard	✓
Durch den Prozessor (max) unterstützte Speicherbandbreite	89,6 GB/s	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Prozessor Codename	Raptor Lake	Intel® Volume Management Device (VMD)	✓
ARK Prozessorerkennung	236789	Modusbasierte Execute Control (MBE)	✓
<b>Speicher</b>		Intel® Standard Manageability (ISM)	✓
Maximaler interner Speicher, vom Prozessor unterstützt	192 GB	<b>Betriebsbedingungen</b>	
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM, DDR5-SDRAM	Tjunction	100 °C
Speicherkanäle *	Zweikanalig	<b>Logistikdaten</b>	
Speicherbandbreite (max.)	89,6 GB/s	Warentarifnummer (HS)	8542310001
<b>Grafik</b>			
Eingebaute Grafikkadappter *	✗		
Separater Grafikkadappter *	✗		
Eingebautes Grafikkartenmodell *	Nicht verfügbar		
Separates Grafikkartenmodell *	Nicht verfügbar		
<b>Merkmale</b>			
Execute Disable Bit	✓		
Leerlauf Zustände	✓		
Thermal-Überwachungstechnologien	✓		
Marktsegment	Desktop		

Merkmale		Technische Details	
Nutzungsbedingungen	PC/Client/Tablet	Startdatum	Q4'23
Maximale Anzahl der PCI-Express-Lanes	20	Status	Launched
PCI-Express-Slots-Version	4.0, 5.0	<b>Gewicht und Abmessungen</b>	
PCI Express Konfigurationen	1x16+1x4, 2x8+1x4	Prozessor-Paketgröße	45 x 37.5 mm
Unterstützte Befehlssätze	AVX 2.0, SSE4.1, SSE4.2	<b>Sonstige Funktionen</b>	
Skalierbarkeit	1S	Pufferspeicher L2	28672 KB
CPU Konfiguration (max)	1	RAM-Speicher maximal	192 GB
Eingebettete Optionen verfügbar	✘		



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