

Intel Core i9-14900F Prozessor 36 MB Smart Cache Box

Marke : Intel

Produktfamilie: Core

Artikel-Code: BX8071514900F

Produktname : i9-14900F



Intel Core i9-14900F. Prozessorfamilie: Intel® Core™ i9, 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, Intel® Thermal Velocity Boost Frequency: 5,8 GHz. Prozessor-Paketgröße: 45 x 37,5 mm

Prozessor		Merkmale	
Prozessorhersteller *	Intel	Direkte Medienschnittstelle (DMI) Revision	4.0
Prozessorgeneration	Intel Core i9-14xxx	Exportkontroll-Klassifizierungsnummer (ECCN)	5A992C
Prozessor *	i9-14900F	Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	740.17B1
Prozessorfamilie *	Intel® Core™ i9	Prozessor Besonderheiten	
Anzahl Prozessorkerne *	24	Intel® Hyper-Threading-Technik (Intel® HT Technology)	✓
Prozessorsockel *	LGA 1700	Intel® Turbo-Boost-Technologie	2.0
Prozessor-Threads	32	Intel® AES New Instructions (Intel® AES-NI)	✓
Prozessorbetriebsmodi *	64-Bit	Verbesserte Intel SpeedStep Technologie	✓
Leistungskerne	8	Intel® -Speed-Shift-Technologie	✓
Effiziente Kerne	16	Intel® Thermal Velocity Boost (Thermischer Geschwindigkeitsanstieg)	✓
Prozessor Boost-Frequenz	5,8 GHz	Intel® Adaptive Boost Technology	✓
Leistung Kern-Boost-Frequenz	5,4 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
Leistung Basisfrequenz des Kerns	2 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Effiziente Kern-Boost-Frequenz	4,3 GHz	Intel® Thermal Velocity Boost Frequency	5,8 GHz
Effiziente Basisfrequenz des Kerns	1,5 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Prozessor-Cache	36 MB	Intel® Thread Director	✓
Prozessor Cache Typ	Smart Cache	Intel® VT-x mit Extended Page Tables (EPT)	✓
Box *	✓	Intel® Sicherer Schlüssel	✓
Kühler enthalten *	✓	Intel® OS Guard	✓
Grundleistung des Prozessors	65 W	Intel® 64	✓
Maximale Turboleistung	219 W	Intel® Virtualization Technologie (VT-X)	✓
Stepping	B0	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Maximale Anzahl DMI-Spuren	8	Intel Turbo Boost Max Technology 3.0	✓
Durch den Prozessor (max) unterstützte Speicherbandbreite	89,6 GB/s	Intel® Boot Guard	✓
Prozessor Codename	Raptor Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✓
ARK Prozessorerkennung	236853	Intel® Volume Management Device (VMD)	✓
Speicher		Modusbasierte Execute Control (MBE)	✓
Maximaler interner Speicher, vom Prozessor unterstützt	192 GB		
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	
Thermal-Überwachungstechnologien	✓
Marktsegment	Desktop
Nutzungsbedingungen	PC/Client/Tablet
Maximale Anzahl der PCI-Express-Lanes	20
PCI-Express-Slots-Version	4.0, 5.0
PCI Express Konfigurationen	1x16+1x4, 2x8+1x4
Unterstützte Befehlssätze	AVX 2.0, SSE4.1, SSE4.2
Skalierbarkeit	1S
CPU Konfiguration (max)	1
Eingebettete Optionen verfügbar	✗

Prozessor Besonderheiten	
Intel® Standard Manageability (ISM) ✓	
Betriebsbedingungen	
Tjunction	100 °C
Logistikdaten	
Warentarifnummer (HS)	8542310001
Technische Details	
Startdatum	Q1'24
Status	Launched
Gewicht und Abmessungen	
Prozessor-Paketgröße	45 x 37.5 mm
Sonstige Funktionen	
Pufferspeicher L2	32768 KB
RAM-Speicher maximal	192 GB



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