

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

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514900F

Productnaam : i9-14900F



Intel Core i9-14900F. Processorfamilie: Intel® Core™ i9, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 192 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express slots versie: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,6 GHz, Intel® Thermal Velocity Boost Frequency: 5,8 GHz. Verpakkingsgrootte processor: 45 x 37,5 mm



Processor		Kenmerken	
Processorfabrikant *	Intel	Directe media-interface (DMI) revisie	4.0
Processorgeneratie	Intel Core i9-14xxx	Export Control Classification Number (ECCN)	5A992C
Processormodel *	i9-14900F	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processorfamilie *	Intel® Core™ i9	Processor speciale functies	
Aantal processorkernen *	24	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1700	Intel® Turbo Boost Technology	2.0
Processor aantal threads	32	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Prestatiekernen	8	Intel® Speed Shift-technologie	✓
Efficiënte kernen	16	Intel® Thermal Velocity Boost	✓
Maximale turbofrequentie van processor	5,8 GHz	Intel® Adaptive Boost-technologie	✓
Prestatie-kernboostfrequentie	5,4 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
Prestatie-kernbasisfrequentie	2 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Efficiënte kernboostfrequentie	4,3 GHz	Intel® Thermal Velocity Boost Frequency	5,8 GHz
Efficiënte kernbasisfrequentie	1,5 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor cache	36 MB	Intel® Thread Director	✓
Processor cache type	Smart Cache	Intel® VT-x with Extended Page Tables (EPT)	✓
Box *	✓	Intel® Secure Key	✓
Inclusief koeler *	✓	Intel® OS Guard	✓
Processor basisvermogen	65 W	Intel® 64	✓
Maximaal turbovermogen	219 W	Intel® Virtualization Technology (VT-x)	✓
Stepping	B0	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Maximum aantal DMI lanes	8	Intel® Turbo Boost Max Technology 3.0	✓
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Intel® Boot Guard	✓
Codenaam processor	Raptor Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✓
ARK ID processor	236853	Intel® Volume Management Device (VMD)	✓
Geheugen		Mode-based Execute Control (MBE)	✓
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM		
Geheugen kanaal *	Dubbelkanaals		
Geheugen bandbreedte (max)	89,6 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✗		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Niet beschikbaar		
Discreet grafische adapter model *	Niet beschikbaar		
Kenmerken			
Execute Disable Bit	✓		

Kenmerken		Eisen aan de omgeving	
Idle States	✓	Tjunction	100 °C
Thermal Monitoring Technologies	✓	Logistieke gegevens	
Marktsegment	Desktop	Code geharmoniseerd systeem (HS) 8542310001	
Gebruiksvoorwaarden	PC/Client/Tablet	Technische details	
Maximaal aantal PCI Express-lijnen	20	Lanceringsdatum	Q1'24
PCI Express slots versie	4.0, 5.0	Status	Launched
PCI Express configuraties	1x16+1x4, 2x8+1x4	Gewicht en omvang	
Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2	Verpakkingsgrootte processor	45 x 37.5 mm
Schaalbaarheid	1S	Overige specificaties	
CPU configuratie (max)	1	L2 cache	32768 KB
Ingebouwde opties beschikbaar	✗	Maximum intern geheugen	192 GB



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