

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

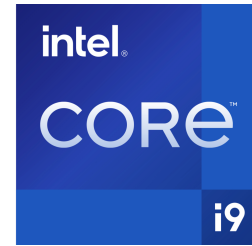
Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514900KF

Productnaam : i9-14900KF

Intel Core i9-14900KF. 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: 5,8 GHz, Intel® Thermal Velocity Boost Frequency: 6 GHz. Verpakkingsgrootte processor: 45 x 37.5 mm



Processor		Kenmerken	
Processorfabrikant *	Intel	Thermal solution specificatie	PCG 2020A
Processorgeneratie	Intel Core i9-14xxx	Directe media-interface (DMI) revisie	4.0
Processormodel *	i9-14900KF	Export Control Classification Number (ECCN)	5A992C
Processorfamilie *	Intel® Core™ i9	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Aantal processorkernen *	24	Processor speciale functies	
Processor socket *	LGA 1700	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor aantal threads	32	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Prestatiekernen	8	Enhanced Intel SpeedStep Technology	✓
Efficiënte kernen	16	Intel® Speed Shift-technologie	✓
Maximale turbofrequentie van processor	6 GHz	Intel® Thermal Velocity Boost	✓
Prestatie-kernboostfrequentie	5,6 GHz	Intel® Adaptive Boost-technologie	✓
Prestatie-kernbasisfrequentie	3,2 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,8 GHz
Efficiënte kernboostfrequentie	4,4 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Efficiënte kernbasisfrequentie	2,4 GHz	Intel® Thermal Velocity Boost Frequency	6 GHz
Processor cache	36 MB	Intel® Control-flow Enforcement Technology (CET)	✓
Processor cache type	Smart Cache	Intel® Thread Director	✓
Box *	✓	Intel® VT-x with Extended Page Tables (EPT)	✓
Inclusief koeler *	✗	Intel® Secure Key	✓
Processor basisvermogen	125 W	Intel® OS Guard	✓
Maximaal turbovermogen	253 W	Intel® 64	✓
Stepping	B0	Intel® Virtualization Technology (VT-x)	✓
Maximum aantal DMI lanes	8	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Intel® Turbo Boost Max Technology 3.0	✓
Codenaam processor	Raptor Lake	Intel® Boot Guard	✓
ARK ID processor	236787	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Geheugen		Intel® Volume Management Device (VMD)	✓
Maximaal intern geheugen ondersteund door processor	192 GB	Mode-based Execute Control (MBE)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM		
Geheugen kanaal *	Dubbelkanaals		
Non-ECC	✓		
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		Processor speciale functies	
Execute Disable Bit	✓	Intel® Standard Manageability (ISM, Standaard beheerbaarheid) ✓	
Idle States	✓		
Thermal Monitoring Technologies	✓		
Marktsegment	Desktop		
Gebruiksvoorwaarden	PC/Client/Tablet		
Maximaal aantal PCI Express-lijnen	20		
PCI Express slots versie	4.0, 5.0		
PCI Express configuraties	1x16+1x4, 2x8+1x4		
Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2		
Schaalbaarheid	1S		
CPU configuratie (max)	1		
Ingebouwde opties beschikbaar	✗		
		Eisen aan de omgeving	
		Tjunction	100 °C
		Logistieke gegevens	
		Code geharmoniseerd systeem (HS)	8542310001
		Technische details	
		Lanceringsdatum	Q4'23
		Status	Launched
		Gewicht en omvang	
		Verpakkingsgrootte processor	45 x 37.5 mm
		Overige specificaties	
		L2 cache	32768 KB
		Maximum intern geheugen	192 GB



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