

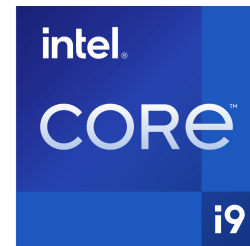
## Intel Core i9-14900K processor 36 MB Smart Cache

Merk : Intel

Productfamilie: Core

 Artikelcode:  
CM8071505094017

Productnaam : i9-14900K



Intel Core i9-14900K. 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. On-board graphics adapter model: Intel UHD Graphics 770, On-board ondersteunde grafische adapter uitgangen: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, Basisfrequentie ingebouwde grafische adapter: 300 MHz. Marktsegment: Desktop, Gebruiksvoorwaarden: Workstation, 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



Processor		Kenmerken	
Processorfabrikant *	Intel	Gebruiksvoorwaarden	Workstation, PC/Client/Tablet
Processorgeneratie	Intel Core i9-14xxx	Maximaal aantal PCI Express-lijnen	20
Processormodel *	i9-14900K	PCI Express slots versie	4.0, 5.0
Processorfamilie *	Intel® Core™ i9	PCI Express configuraties	1x16+1x4, 2x8+1x4
Aantal processorkernen *	24	Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2
Processor socket *	LGA 1700	Schaalbaarheid	1S
Processor aantal threads	32	CPU configuratie (max)	1
Processor operating modes *	64-bit	Ingebouwde opties beschikbaar	✗
Prestatiekernen	8	Thermal solution specificatie	PCG 2020A
Efficiënte kernen	16	Directe media-interface (DMI) revisie	4.0
Maximale turbofrequentie van processor	6 GHz	Export Control Classification Number (ECCN)	5A992C
Prestatie-kernboostfrequentie	5,6 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Prestatie-kernbasisfrequentie	3,2 GHz		
Efficiënte kernboostfrequentie	4,4 GHz		
Efficiënte kernbasisfrequentie	2,4 GHz		
Processor cache	36 MB		
Processor cache type	Smart Cache		
Box *	✗		
Processor basisvermogen	125 W		
Maximaal turbovermogen	253 W		
Stepping	B0		
Maximum aantal DMI lanes	8		
Geheugenbandbreedte ondersteund door de processor ( max)	89,6 GB/s		
Codenaam processor	Raptor Lake		
ARK ID processor	236773		
Geheugen		Processor speciale functies	
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Turbo Boost Technology	2.0
Geheugen kanaal *	Dubbelkanaals	Intel® Quick Sync Video Technology	✓
ECC	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Geheugen bandbreedte (max)	89,6 GB/s	Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel® Speed Shift-technologie	✓
		Intel® Thermal Velocity Boost	✓
		Intel® Adaptive Boost-technologie	✓
		Intel® Turbo Boost Max Technology 3.0 frequency	5,8 GHz
		Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
		Intel® Thermal Velocity Boost Frequency	6 GHz
		Intel® Control-flow Enforcement Technology (CET)	✓
		Intel® Thread Director	✓
		Intel® VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel® OS Guard	✓
		Intel® 64	✓
Grafisch			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Intel UHD Graphics 770		
On-board ondersteunde grafische adapter uitgangen	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1		
Basisfrequentie ingebouwde grafische adapter	300 MHz		

Grafisch		Processor speciale functies	
Graphics on-board -adapter dynamische frequentie (max)	1650 MHz	Intel® Virtualization Technology (VT-x)	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Turbo Boost Max Technology 3.0	✓
On-board grafische adapter OpenGL versie	4.5	Intel® Boot Guard	✓
Graphics aan boord maximale resolutie adapter (DisplayPort )	7680 x 4320 Pixels	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel® Volume Management Device (VMD)	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Mode-based Execute Control (MBE)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort )	60 Hz	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz		
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz		
On-board grafische adapter ID	0xA780		
Discreet grafische adapter model *	Niet beschikbaar		
Aantal verwerkingseenheden	32		
Multi-Formaat Codec-motoren	2		
Kenmerken		Eisen aan de omgeving	
Execute Disable Bit	✓	Tjunction	100 °C
Idle States	✓		
Thermal Monitoring Technologies	✓	Technische details	
Marktsegment	Desktop	OpenCL-versie	3.0
		Lanceringsdatum	Q4'23
		Status	Launched
		Logistieke gegevens	
		Code geharmoniseerd systeem (HS)	8542310001
		Gewicht en omvang	
		Verpakkingsgrootte processor	45 x 37.5 mm
		Overige specificaties	
		L2 cache	32768 KB
		Maximum intern geheugen	192 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



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