

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

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514900KS

Productnaam : i9-14900KS

Intel Core i9-14900KS. 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: PC/Client/Tablet, PCI Express slots versie: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,9 GHz, Intel® Thermal Velocity Boost Frequency: 6,2 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel Core i9-14xxx	Directe media-interface (DMI) revisie	4.0
Processormodel *	i9-14900KS	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® Quick Sync Video Technology	✓
Prestatiekernen	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Efficiënte kernen	16	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximale turbofrequentie van processor	6,2 GHz	Enhanced Intel SpeedStep Technology	✓
Prestatie-kernboostfrequentie	5,7 GHz	Intel® Trusted Execution Technology	✓
Prestatie-kernbasisfrequentie	3,2 GHz	Intel® Speed Shift-technologie	✓
Efficiënte kernboostfrequentie	4,5 GHz	Intel® Thermal Velocity Boost	✓
Efficiënte kernbasisfrequentie	2,4 GHz	Intel® Adaptive Boost-technologie	✓
Processor cache	36 MB	Intel® Turbo Boost Max Technology 3.0 frequency	5,9 GHz
Processor cache type	Smart Cache	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Box *	✓	Intel® Thermal Velocity Boost Frequency	6,2 GHz
Processor basisvermogen	150 W	Intel® Control-flow Enforcement Technology (CET)	✓
Maximaal turbovermogen	253 W	Intel® Thread Director	✓
Stepping	B0	Intel® VT-x with Extended Page Tables (EPT)	✓
Maximum aantal DMI lanes	8	Intel® Secure Key	✓
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Intel® Active Management Technology (Intel® AMT)	✓
Codenaam processor	Raptor Lake	Intel® OS Guard	✓
ARK ID processor	237504	Intel® 64	✓
Geheugen		Intel® Virtualization Technology (VT-x)	✓
Maximaal intern geheugen ondersteund door processor	192 GB		
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM		
Geheugen kanaal *	Dubbelkanaals		
ECC	✓		
Geheugen bandbreedte (max)	89,6 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		

Grafisch		Processor speciale functies	
On-board graphics adapter model *	Intel UHD Graphics 770	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
On-board ondersteunde grafische adapter uitgangen	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel® Turbo Boost Max Technology 3.0	✓
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Boot Guard	✓
Graphics on-board -adapter dynamische frequentie (max)	1650 MHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® Volume Management Device (VMD)	✓
On-board grafische adapter DirectX-versie	12.0	Mode-based Execute Control (MBE)	✓
On-board grafische adapter OpenGL versie	4.5	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	7680 x 4320 Pixels	Intel® One-Click Recovery (Herstel met 1 klik)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel® Remote Platform Erase (RPE)	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel® virtualisatietechnologie met omleidingsbescherming (VT-rp)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Intel vPro® Enterprise-platformvoorwaarden	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Intel® -technologie voor dreigingsdetectie (TDT)	✓
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	Intel® Hardware Shield-voorwaarden	✓
On-board grafische adapter ID	0xA780	Intel® totale geheugencodering - Meerdere sleutels	✓
Discreet grafische adapter model *	Niet beschikbaar	Intel vPro® Essentials-platformvoorwaarden	✓
Aantal verwerkingseenheden	32		
Multi-Formaat Codec-motoren	2		
Kenmerken		Eisen aan de omgeving	
Execute Disable Bit	✓	Tjunction	100 °C
Idle States	✓	Technische details	
Thermal Monitoring Technologies	✓	OpenCL-versie	3.0
Marktsegment	Desktop	Lanceringsdatum	Q1'24
Gebruiksvoorwaarden	PC/Client/Tablet	Status	Launched
Maximaal aantal PCI Express-lijnen	20	Logistieke gegevens	
PCI Express slots versie	4.0, 5.0	Code geharmoniseerd systeem (HS)	8542310001
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
		Maximum intern geheugen	192 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



5032037280235



5032037280310



0735858548748



735858548748

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.