

Intel Core i9-14900 processor 36 MB Smart Cache Box

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514900

Productnaam : i9-14900



Intel Core i9-14900. 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: 5,6 GHz, Intel® Thermal Velocity Boost Frequency: 5,8 GHz

Processor		Kenmerken	
Processorfabrikant *	Intel	Marktsegment	Desktop
Processorgeneratie	Intel Core i9-14xxx	Gebruiksvoorwaarden	Workstation, PC/Client/Tablet
Processormodel *	i9-14900	Maximaal aantal PCI Express-lijnen	20
Processorfamilie *	Intel® Core™ i9	PCI Express slots versie	4.0, 5.0
Aantal processorkernen *	24	PCI Express configuraties	1x16+1x4, 2x8+1x4
Processor socket *	LGA 1700	Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2
Processor aantal threads	32	Schaalbaarheid	15
Processor operating modes *	64-bit	CPU configuratie (max)	1
Prestatiekernen	8	Ingebouwde opties beschikbaar	✓
Efficiënte kernen	16	Directe media-interface (DMI) revisie	4.0
Maximale turbofrequentie van processor	5,8 GHz	Export Control Classification Number (ECCN)	5A992C
Prestatie-kernboostfrequentie	5,4 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Prestatie-kernbasisfrequentie	2 GHz	Processor speciale functies	
Efficiënte kernboostfrequentie	4,3 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Efficiënte kernbasisfrequentie	1,5 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	36 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Box *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Inclusief koeler *	✓	Enhanced Intel SpeedStep Technology	✓
Processor basisvermogen	65 W	Intel® Speed Shift-technologie	✓
Maximaal turbovermogen	219 W	Intel® Thermal Velocity Boost	✓
Stepping	B0	Intel® Adaptive Boost-technologie	✓
Maximum aantal DMI lanes	8	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Codenaam processor	Raptor Lake	Intel® Thermal Velocity Boost Frequency	5,8 GHz
ARK ID processor	236793	Intel® Control-flow Enforcement Technology (CET)	✓
Geheugen		Intel® Thread Director	✓
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® VT-x with Extended Page Tables (EPT)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Secure Key	✓
Geheugen kanaal *	Dubbelkanaals	Intel® OS Guard	✓
ECC	✓	Intel® 64	✓
Geheugen bandbreedte (max)	89,6 GB/s		
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		

Grafisch		Processor speciale functies	
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Virtualization Technology (VT-x)	✓
Graphics on-board -adapter dynamische frequentie (max)	1650 MHz	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® Turbo Boost Max Technology 3.0	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Boot Guard	✓
On-board grafische adapter OpenGL versie	4.5	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	7680 x 4320 Pixels	Intel® Volume Management Device (VMD)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Mode-based Execute Control (MBE)	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Eisen aan de omgeving	
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Tjunction	100 °C
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	Technische details	
On-board grafische adapter ID	0xA780	OpenCL-versie	3.0
Discreet grafische adapter model *	Niet beschikbaar	Lanceringsdatum	Q1'24
Aantal verwerkingseenheden	32	Status	Launched
Multi-Formaat Codec-motoren	2	Logistieke gegevens	
Kenmerken		Code geharmoniseerd systeem (HS) 8542310001	
Execute Disable Bit	✓	Gewicht en omvang	
Idle States	✓	Verpakkingsgrootte processor	45 x 37.5 mm
Thermal Monitoring Technologies	✓	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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