

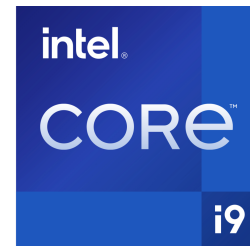
## Intel Core i9-11900K processor 3,5 GHz 16 MB Smart Cache

Merk : Intel

Productfamilie: Core

 Artikelcode:  
CM8070804400161

Productnaam : i9-11900K



Intel Core i9-11900K. Processorfamilie: Intel® Core™ i9, Processor socket: LGA 1200 (Socket H5), Processor lithografie: 14 nm. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM. On-board graphics adapter model: Intel UHD Graphics 750, Maximaal geheugen ingebouwde grafische adapter: 64 GB, Basisfrequentie ingebouwde grafische adapter: 350 MHz. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express configuraties: 1x16+1x4, 2x8+1x4, 1x8+3x4. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5,1 GHz, Intel® Thermal Velocity Boost Temperature: 70 °C



Processor		Kenmerken	
Processorfabrikant *	Intel	PCI Express configuraties	1x16+1x4, 2x8+1x4, 1x8+3x4
Processorgeneratie	Intel® 11de generatie Core™ i9	Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Processormodel *	i9-11900K	Schaalbaarheid	1S
Basisfrequentie processor *	3,5 GHz	CPU configuratie (max)	1
Processorfamilie *	Intel® Core™ i9	Ingebouwde opties beschikbaar	✗
Aantal processorkernen *	8	Export Control Classification Number (ECCN)	5A992CN3
Processor socket *	LGA 1200 (Socket H5)	Commodity Classification Automated Tracking System (CCATS)	G167599
Component voor	PC	<b>Processor speciale functies</b>	
Processor lithografie *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor aantal threads	16	Intel® Identity Protection Technology (Intel® IPT)	✓
Systeembus	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® Quick Sync Video Technology	✓
Maximale turbofrequentie van processor	5,3 GHz	Intel® InTru™ 3D Technology	✓
Processor cache	16 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	125 W	Enhanced Intel SpeedStep Technology	✓
Box *	✗	Intel® Trusted Execution Technology	✓
Configureerbare TDP-downfrequentie	3 GHz	Intel® Thermal Velocity Boost	✓
Inclusief koeler *	✗	Intel® Turbo Boost Max Technology 3.0 frequency	5,2 GHz
Configureerbare TDP-down	95 W	Intel® Turbo Boost Technology 2.0 frequency	5,1 GHz
Geheugenbandbreedte ondersteund door de processor ( max)	50 GB/s	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
ARK ID processor	212325	Intel® Thermal Velocity Boost Temperature	70 °C
<b>Geheugen</b>		Intel® Thermal Velocity Boost Frequency	5,3 GHz
Maximaal intern geheugen ondersteund door processor	128 GB	Intel® VT-x with Extended Page Tables (EPT)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM	Intel® Secure Key	✓
Klokgeheugen-snelheden ondersteund door processor	3200 MHz	Intel® Stable Image Platform Program (SIPP)	✓
Geheugen kanaal *	Dubbelkanaals	Intel® OS Guard	✓
ECC	✗	Intel® Clear Video-technologie	✓
Geheugen bandbreedte (max)	50 GB/s	Intel® Software Guard Extensions (Intel® SGX)	✗
<b>Grafisch</b>			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Intel UHD Graphics 750		
Maximaal geheugen ingebouwde grafische adapter	64 GB		
Basisfrequentie ingebouwde grafische adapter	350 MHz		

Grafisch		Processor speciale functies	
Graphics on-board -adapter dynamische frequentie (max)	1300 MHz	Intel® 64	✓
Aantal displays ondersteund (door on-board grafische adapter)	3	Intel® Virtualization Technology (VT-x)	✓
4K-ondersteuning	✓	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
On-board grafische adapter OpenGL versie	4.5	Intel® Turbo Boost Max Technology 3.0	✓
Graphics aan boord maximale resolutie adapter (DisplayPort )	5120 x 3200 Pixels	Intel® Optane™ Memory Ready	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel® Boot Guard	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort )	60 Hz	Intel® vPro™ Platform Eligibility	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	60 Hz		
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz		
On-board grafische adapter ID	0x4C8A		
Discreet grafische adapter model *	Niet beschikbaar		
Aantal verwerkingseenheden	32		
Kenmerken		Eisen aan de omgeving	
Execute Disable Bit	✓	Tjunction	100 °C
Idle States	✓		
Thermal Monitoring Technologies	✓	Technische details	
Marktsegment	Desktop	Doelgroep	Gaming, Content Creation
Gebruiksvoorwaarden	PC/Client/Tablet	Lanceringsdatum	Q1'21
Maximaal aantal PCI Express-lijnen	20	Status	Launched
PCI Express slots versie	4.0	Ondersteunde geheugen types	DDR4-SDRAM
		Logistieke gegevens	
		Code geharmoniseerd systeem (HS)	85423119
		Verpakking	
		Type verpakking	Lade
		Gewicht en omvang	
		Verpakkingsgrootte processor	37.5 x 37.5 mm
		Overige specificaties	
		Maximum intern geheugen	128 GB



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