

Intel Core i9-12900KF processor 30 MB Smart Cache Box

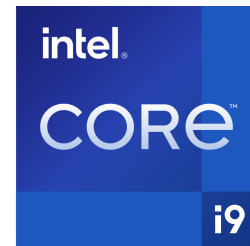
Merk : Intel

Productfamilie: Core

Artikelcode: BX8071512900KF

Productnaam : i9-12900KF

Intel Core i9-12900KF. Processorfamilie: Intel® Core™ i9, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz. Type verpakking: Retaildoos



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel® 12de generatie Core™ i9	Thermal solution specificatie	PCG 2020A
Processormodel *	i9-12900KF	Export Control Classification Number (ECCN)	5A992CN3
Processorfamilie *	Intel® Core™ i9	Commodity Classification Automated Tracking System (CCATS)	G167599
Aantal processorkernen *	16	Processor speciale functies	
Processor socket *	LGA 1700	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Component voor	PC	Intel® Turbo Boost Technology	2.0
Processor aantal threads	24	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Prestatiekernen	8	Intel® Speed Shift-technologie	✓
Efficiënte kernen	8	Intel® Turbo Boost Max Technology 3.0 frequency	5,2 GHz
Maximale turbofrequentie van processor	5,2 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Prestatie-kernboostfrequentie	5,1 GHz	Intel® Thread Director	✓
Prestatie-kernbasisfrequentie	3,2 GHz	Intel® VT-x with Extended Page Tables (EPT)	✓
Efficiënte kernboostfrequentie	3,9 GHz	Intel® Secure Key	✓
Efficiënte kernbasisfrequentie	2,4 GHz	Intel® OS Guard	✓
Processor cache	30 MB	Intel® 64	✓
Processor cache type	Smart Cache	Intel® Virtualization Technology (VT-x)	✓
Box *	✓	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Processor basisvermogen	125 W	Intel® Turbo Boost Max Technology 3.0	✓
Maximaal turbovermogen	241 W	Intel® Optane™ Memory Ready	✓
Bus type	DMI4	Intel® Boot Guard	✓
Maximum aantal DMI lanes	8	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Geheugenbandbreedte ondersteund door de processor (max)	76,8 GB/s	Intel® Volume Management Device (VMD)	✓
Codenaam processor	Alder Lake	Mode-based Execute Control (MBE)	✓
ARK ID processor	134600	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Geheugen		Eisen aan de omgeving	
Maximaal intern geheugen ondersteund door processor	128 GB	Tjunction	100 °C
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Logistieke gegevens	
Geheugen kanaal *	Dubbelkanaals	Code geharmoniseerd systeem (HS) 85423119	
Geheugen bandbreedte (max)	76,8 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✗		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Niet beschikbaar		
Discreet grafische adapter model *	Niet beschikbaar		
Kenmerken			
Execute Disable Bit	✓		

Kenmerken		Verpakking	
Idle States	✓	Type verpakking	Retaildoos
Thermal Monitoring Technologies	✓	Technische details	
Marktsegment	Desktop	Doelgroep	Gaming, Content Creation
Gebruiksvoorwaarden	PC/Client/Tablet	Lanceringsdatum	Q4'21
Maximaal aantal PCI Express-lijnen	20	Status	Launched
PCI Express slots versie	5.0, 4.0	Gewicht en omvang	
PCI Express configuraties	1x16+1x4, 2x8+1x4	Verpakkingsgrootte processor	45 x 37.5 mm
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Overige specificaties	
Schaalbaarheid	1S	Maximum intern geheugen	128 GB
CPU configuratie (max)	1		



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