

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

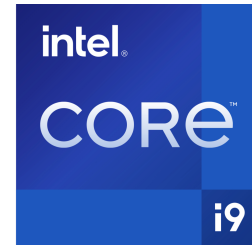
Merk : Intel

Productfamilie: Core

Artikelcode: BX8071512900F

Productnaam : i9-12900F

Intel Core i9-12900F. 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: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,1 GHz. Type verpakking: Retaildoos



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel® 12de generatie Core™ i9	Directe media-interface (DMI) revisie	4.0
Processormodel *	i9-12900F	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)	✓
Processor aantal threads	24	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Prestatiekernen	8	Enhanced Intel SpeedStep Technology	✓
Efficiënte kernen	8	Intel® Speed Shift-technologie	✓
Maximale turbofrequentie van processor	5,1 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,1 GHz
Prestatie-kernboostfrequentie	5 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Prestatie-kernbasisfrequentie	2,4 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Efficiënte kernboostfrequentie	3,8 GHz	Intel® Thread Director	✓
Efficiënte kernbasisfrequentie	1,8 GHz	Intel® VT-x with Extended Page Tables (EPT)	✓
Processor cache	30 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Box *	✓	Intel® 64	✓
Processor basisvermogen	65 W	Intel® Virtualization Technology (VT-x)	✓
Maximaal turbovermogen	202 W	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	C0	Intel® Turbo Boost Max Technology 3.0	✓
Bus type	DMI4	Intel® Optane™ Memory Ready	✓
Maximum aantal DMI lanes	8	Intel® Boot Guard	✓
Geheugenbandbreedte ondersteund door de processor (max)	76,8 GB/s	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Codenaam processor	Alder Lake	Intel® Volume Management Device (VMD)	✓
ARK ID processor	134598	Mode-based Execute Control (MBE)	✓
Geheugen		Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Maximaal intern geheugen ondersteund door processor	128 GB	Eisen aan de omgeving	
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Tjunction	100 °C
Geheugen kanaal *	Dubbelkanaals		
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		Logistieke gegevens	
Idle States	✓	Code geharmoniseerd systeem (HS) 85423119	
Thermal Monitoring Technologies	✓	Verpakking	
Marktsegment	Desktop	Type verpakking	Retaildoos
Gebruiksvoorwaarden	PC/Client/Tablet	Technische details	
Maximaal aantal PCI Express-lijnen	20	Doelgroep	Gaming, Content Creation
PCI Express slots versie	4.0, 5.0	Lanceringsdatum	Q1'22
PCI Express configuraties	1x16+1x4, 2x8+1x4	Status	Launched
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Gewicht en omvang	
Schaalbaarheid	1S	Verpakkingsgrootte processor	45 x 37.5 mm
CPU configuratie (max)	1	Overige specificaties	
		Maximum intern geheugen	128 GB



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