

Intel Core i9-12900 processor 30 MB Smart Cache Box

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071512900

Productnaam : i9-12900

Intel Core i9-12900. 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. 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, Workstation, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,1 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel® 12de generatie Core™ i9	Directe media-interface (DMI) revisie	4.0
Processormodel *	i9-12900	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® Quick Sync Video Technology	✓
Prestatiekernen	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Efficiënte kernen	8	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximale turbofrequentie van processor	5,1 GHz	Enhanced Intel SpeedStep Technology	✓
Prestatie-kernboostfrequentie	5 GHz	Intel® Trusted Execution Technology	✓
Prestatie-kernbasisfrequentie	2,4 GHz	Intel® Speed Shift-technologie	✓
Efficiënte kernboostfrequentie	3,8 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,1 GHz
Efficiënte kernbasisfrequentie	1,8 GHz	Intel® Total Memory Encryption	✓
Processor cache	30 MB	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Processor cache type	Smart Cache	Intel® Control-flow Enforcement Technology (CET)	✓
Box *	✓	Intel® Thread Director	✓
Processor basisvermogen	65 W	Intel® VT-x with Extended Page Tables (EPT)	✓
Maximaal turbovermogen	202 W	Intel® Secure Key	✓
Stepping	C0	Intel® Active Management Technology (Intel® AMT)	✓
Bus type	DMI4	Intel® Stable Image Platform Program (SIPP)	✓
Maximum aantal DMI lanes	8	Intel® OS Guard	✓
Geheugenbandbreedte ondersteund door de processor (max)	76,8 GB/s	Intel® 64	✓
Codenaam processor	Alder Lake	Intel® Virtualization Technology (VT-x)	✓
ARK ID processor	134597	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Geheugen			
Maximaal intern geheugen ondersteund door processor	128 GB		
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM		
Geheugen kanaal *	Dubbelkanaals		
ECC	✓		
Geheugen bandbreedte (max)	76,8 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Intel UHD Graphics 770		

Grafisch		Processor speciale functies	
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® Optane™ Memory Ready	✓
Graphics on-board -adapter dynamische frequentie (max)	1550 MHz	Intel® Boot Guard	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Volume Management Device (VMD)	✓
On-board grafische adapter OpenGL versie	4.5	Mode-based Execute Control (MBE)	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	7680 x 4320 Pixels	Intel® vPro™ Platform Eligibility	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel® One-Click Recovery (Herstel met 1 klik)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Intel® virtualisatietechnologie met omleidingsbescherming (VT-rp)	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Intel vPro® Enterprise-platformvoorwaarden	✓
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	Intel® -technologie voor dreigingsdetectie (TDT)	✓
On-board grafische adapter ID	0x4680	Intel® Hardware Shield-voorwaarden	✓
Discreet grafische adapter model *	Niet beschikbaar	Intel® totale geheugencodering - Meerdere sleutels	✓
Aantal verwerkingseenheden	32	Intel vPro® Essentials-platformvoorwaarden	✓
Multi-Formaat Codec-motoren	2		
Kenmerken		Eisen aan de omgeving	
Execute Disable Bit	✓	Tjunction	100 °C
Idle States	✓	Technische details	
Thermal Monitoring Technologies	✓	Doelgroep	Gaming, Content Creation
Marktsegment	Desktop	OpenCL-versie	2.1
Gebruiksvoorwaarden	PC/Client/Tablet, Workstation	Lanceringsdatum	Q1'22
Maximaal aantal PCI Express-lijnen	20	Status	Launched
PCI Express slots versie	5.0, 4.0	Logistieke gegevens	
PCI Express configuraties	1x16+1x4, 2x8+1x4	Code geharmoniseerd systeem (HS)	85423119
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Verpakking	
Schaalbaarheid	1S	Type verpakking	Retaildoos
CPU configuratie (max)	1	Gewicht en omvang	
		Verpakkingsgrootte processor	45 x 37.5 mm
		Overige specificaties	
		Maximum intern geheugen	128 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



5032037237925



0735858503204



735858503204

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.

Publication date: 02-APR-2024. Prints or copies of Information are only valid on the printed Publication date