

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

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071512900K

Productnaam : i9-12900K



Intel Core i9-12900K. 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, Basisfrequentie ingebouwde grafische adapter: 300 MHz, Graphics on-board -adapter dynamische frequentie (max): 1550 MHz. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, Workstation, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,2 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel® 12de generatie Core™ i9	Thermal solution specificatie	PCG 2020A
Processormodel *	i9-12900K	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® Quick Sync Video Technology	✓
Processor operating modes *	64-bit	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Prestatiekernen	8	Intel® AES New Instructions (Intel® AES-NI)	✓
Efficiënte kernen	8	Enhanced Intel SpeedStep Technology	✓
Maximale turbofrequentie van processor	5,2 GHz	Intel® Trusted Execution Technology	✓
Prestatie-kernboostfrequentie	5,1 GHz	Intel® Speed Shift-technologie	✓
Prestatie-kernbasisfrequentie	3,2 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,2 GHz
Efficiënte kernboostfrequentie	3,9 GHz	Intel® Total Memory Encryption	✓
Efficiënte kernbasisfrequentie	2,4 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor cache	30 MB	Intel® Thread Director	✓
Processor cache type	Smart Cache	Intel® VT-x with Extended Page Tables (EPT)	✓
Box *	✓	Intel® Secure Key	✓
Inclusief koeler *	✗	Intel® Active Management Technology (Intel® AMT)	✓
Processor basisvermogen	125 W	Intel® Stable Image Platform Program (SIPP)	✓
Maximaal turbovermogen	241 W	Intel® OS Guard	✓
Bus type	DMI4	Intel® 64	✓
Maximum aantal DMI lanes	8	Intel® Virtualization Technology (VT-x)	✓
Geheugenbandbreedte ondersteund door de processor (max)	76,8 GB/s	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Codenaam processor	Alder Lake	Intel® Turbo Boost Max Technology 3.0	✓
ARK ID processor	134599	Intel® Optane™ Memory Ready	✓
Geheugen		Intel® Boot Guard	✓
Maximaal intern geheugen ondersteund door processor	128 GB	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM		
Geheugen kanaal *	Dubbelkanaals		
ECC	✓		
Non-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	
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Volume Management Device (VMD)	✓
Graphics on-board -adapter dynamische frequentie (max)	1550 MHz	Mode-based Execute Control (MBE)	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® vPro™ Platform Eligibility	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
On-board grafische adapter OpenGL versie	4.5	Intel® One-Click Recovery (Herstel met 1 klik)	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	7680 x 4320 Pixels	Intel® virtualisatietechnologie met omleidingsbescherming (VT-rp)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel vPro® Enterprise-platformvoorwaarden	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel® -technologie voor dreigingsdetectie (TDT)	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Intel® Hardware Shield-voorwaarden	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Intel® totale geheugencodering - Meerdere sleutels	✓
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz		
On-board grafische adapter ID	0x4680		
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, Workstation	OpenCL-versie	2.1
Maximaal aantal PCI Express-lijnen	20	Lanceringsdatum	Q4'21
PCI Express slots versie	5.0, 4.0	Status	Launched
PCI Express configuraties	1x16+1x4, 2x8+1x4	Logistieke gegevens	
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Code geharmoniseerd systeem (HS)	85423119
Schaalbaarheid	1S	Verpakking	
CPU configuratie (max)	1	Type verpakking	Retaildoos
		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



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