

Intel Core i7-13700 processor 30 MB Smart Cache

Merk : Intel

Productfamilie: Core

Artikelcode:
CM8071504820805

Productnaam : i7-13700



Intel Core i7-13700. Processorfamilie: Intel® Core™ i7, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 192 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: 5,2 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Directe media-interface (DMI) revisie	4.0
Processorgeneratie	Intel® 13de generatie Core™ i7	Export Control Classification Number (ECCN)	5A992C
Processormodel *	i7-13700	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processorfamilie *	Intel® Core™ i7	Processor speciale functies	
Aantal processorkernen *	16	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1700	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	2,1 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,2 GHz
Efficiënte kernboostfrequentie	4,1 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Efficiënte kernbasisfrequentie	1,5 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	✓
Processor basisvermogen	65 W	Intel® Active Management Technology (Intel® AMT)	✓
Maximaal turbovermogen	219 W	Intel® Stable Image Platform Program (SIPP)	✓
Bus type	DMI4	Intel® OS Guard	✓
Maximum aantal DMI lanes	8	Intel® 64	✓
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Intel® Virtualization Technology (VT-x)	✓
Codenaam processor	Raptor Lake	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
ARK ID processor	230490	Intel® Turbo Boost Max Technology 3.0	✓
Geheugen		Intel® Boot Guard	✓
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Volume Management Device (VMD)	✓
Geheugen kanaal *	Dubbelkanaals		
ECC	✓		
Geheugen bandbreedte (max)	89,6 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		
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		

Grafisch		Processor speciale functies	
Graphics on-board -adapter dynamische frequentie (max)	1600 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® Remote Platform Erase (RPE)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Intel® virtualisatietechnologie met omleidingsbescherming (VT-rp)	✓
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Intel vPro® Enterprise-platformvoorwaarden	✓
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Intel® -technologie voor dreigingsdetectie (TDT)	✓
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Intel® Hardware Shield-voorwaarden	✓
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	Intel® totale geheugencodering - Meerdere sleutels	✓
On-board grafische adapter ID	0xA780	Intel vPro® Essentials-platformvoorwaarden	✓
Discreet grafische adapter model *	Niet beschikbaar	Eisen aan de omgeving	
Aantal verwerkingseenheden	32	Tjunction	100 °C
Multi-Formaat Codec-motoren	2	Technische details	
Kenmerken		Doelgroep	Gaming, Content Creation
Execute Disable Bit	✓	OpenCL-versie	3.0
Idle States	✓	Lanceringsdatum	Q1'23
Thermal Monitoring Technologies	✓	Status	Launched
Marktsegment	Desktop	Logistieke gegevens	
Gebruiksvoorwaarden	PC/Client/Tablet, Workstation	Code geharmoniseerd systeem (HS)	8542310001
Maximaal aantal PCI Express-lijnen	20	Verpakking	
PCI Express slots versie	5.0, 4.0	Type verpakking	Retaildoos
PCI Express configuraties	1x16+1x4, 2x8+1x4	Gewicht en omvang	
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Verpakkingsgrootte processor	45 x 37.5 mm
Schaalbaarheid	1S	Overige specificaties	
CPU configuratie (max)	1	L2 cache	24576 KB
Ingebouwde opties beschikbaar	✓	Maximum intern geheugen	192 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



8592978422417

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: 01-NOV-2023. Prints or copies of Information are only valid on the printed Publication date