

## Intel Core i7-13700K processor 30 MB Smart Cache Box

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071513700K

Productnaam : i7-13700K



Intel Core i7-13700K. 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: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,4 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	CPU configuratie (max)	1
Processorgeneratie	Intel® 13de generatie Core™ i7	Ingebouwde opties beschikbaar	✗
Processormodel *	i7-13700K	Directe media-interface (DMI) revisie	4.0
Processorfamilie *	Intel® Core™ i7	Export Control Classification Number (ECCN)	5A992C
Aantal processorkernen *	16	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor socket *	LGA 1700	<b>Processor speciale functies</b>	
Processor aantal threads	24	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Prestatiekernen	8	Intel® Quick Sync Video Technology	✓
Efficiënte kernen	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximale turbofrequentie van processor	5,4 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Prestatie-kernboostfrequentie	5,3 GHz	Enhanced Intel SpeedStep Technology	✓
Prestatie-kernbasisfrequentie	3,4 GHz	Intel® Trusted Execution Technology	✓
Efficiënte kernboostfrequentie	4,2 GHz	Intel® Speed Shift-technologie	✓
Efficiënte kernbasisfrequentie	2,5 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5,4 GHz
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	✓
Inclusief koeler *	✗	Intel® VT-x with Extended Page Tables (EPT)	✓
Processor basisvermogen	125 W	Intel® Secure Key	✓
Maximaal turbovermogen	253 W	Intel® Active Management Technology (Intel® AMT)	✓
Stepping	B0	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	230500	Intel® Turbo Boost Max Technology 3.0	✓
<b>Geheugen</b>		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		
Geheugen kanaal *	Dubbelkanaals		
ECC	✓		
Non-ECC	✓		
Geheugen bandbreedte (max)	89,6 GB/s		
<b>Grafisch</b>			
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		

Grafisch		Processor speciale functies	
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Volume Management Device (VMD)	✓
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		
Aantal verwerkingseenheden	32		
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	3.0
Gebruiksvoorwaarden	PC/Client/Tablet, Workstation	Lanceringsdatum	Q4'22
Maximaal aantal PCI Express-lijnen	20	Status	Launched
PCI Express slots versie	4.0, 5.0	Logistieke gegevens	
PCI Express configuraties	1x16+1x4, 2x8+1x4	Code geharmoniseerd systeem (HS)	8542310001
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Verpakking	
Schaalbaarheid	1S	Type verpakking	Retaildoos
		Overige specificaties	
		L2 cache	24576 KB
		Maximum intern geheugen	192 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



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