

Intel Core i7-14700K processor 33 MB Smart Cache

Merk : Intel

Productfamilie: Core

 Artikelcode:
CM8071504820721

Productnaam : i7-14700K



Intel Core i7-14700K. 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: Workstation, PC/Client/Tablet, PCI Express slots versie: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5,6 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Thermal Monitoring Technologies	✓
Processorgeneratie	Intel Core i7-14xxx	Marktsegment	Desktop
Processormodel *	i7-14700K	Gebruiksvoorwaarden	Workstation, PC/Client/Tablet
Processorfamilie *	Intel® Core™ i7	Maximaal aantal PCI Express-lijnen	20
Aantal processorkernen *	20	PCI Express slots versie	4.0, 5.0
Processor socket *	LGA 1700	PCI Express configuraties	1x16+1x4, 2x8+1x4
Processor aantal threads	28	Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	Schaalbaarheid	15
Prestatiekernen	8	CPU configuratie (max)	1
Efficiënte kernen	12	Ingebouwde opties beschikbaar	✗
Maximale turbofrequentie van processor	5,6 GHz	Thermal solution specificatie	PCG 2020A
Prestatie-kernboostfrequentie	5,5 GHz	Directe media-interface (DMI) revisie	4.0
Prestatie-kernbasisfrequentie	3,4 GHz	Export Control Classification Number (ECCN)	5A992C
Efficiënte kernboostfrequentie	4,3 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Efficiënte kernbasisfrequentie	2,5 GHz		
Processor cache	33 MB		
Processor cache type	Smart Cache		
Box *	✗		
Processor basisvermogen	125 W		
Maximaal turbovermogen	253 W		
Stepping	B0		
Maximum aantal DMI lanes	8		
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s		
Codenaam processor	Raptor Lake		
ARK ID processor	236783		
Geheugen		Processor speciale functies	
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Turbo Boost Technology	2.0
Geheugen kanaal *	Dubbelkanaals	Intel® Quick Sync Video Technology	✓
ECC	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Geheugen bandbreedte (max)	89,6 GB/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Grafisch		Enhanced Intel SpeedStep Technology	✓
Ingebouwde grafische adapter *	✓	Intel® Speed Shift-technologie	✓
Aparte grafische adapter *	✗	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
On-board graphics adapter model *	Intel UHD Graphics 770	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
On-board ondersteunde grafische adapter uitgangen	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel® Control-flow Enforcement Technology (CET)	✓
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Thread Director	✓
		Intel® VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel® OS Guard	✓
		Intel® 64	✓
		Intel® Virtualization Technology (VT-x)	✓
		Intel® Virtualization Technology for Directed I/O (VT-d)	✓

Grafisch		Processor speciale functies	
Graphics on-board -adapter dynamische frequentie (max)	1600 MHz	Intel® Turbo Boost Max Technology 3.0	✓
Aantal displays ondersteund (door on-board grafische adapter)	4	Intel® Boot Guard	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board grafische adapter OpenGL versie	4.5	Intel® Volume Management Device (VMD)	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	7680 x 4320 Pixels	Mode-based Execute Control (MBE)	✓
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	Eisen aan de omgeving	
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Tjunction	100 °C
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	Technische details	
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	OpenCL-versie	3.0
On-board grafische adapter ID	0xA780	Lanceringsdatum	Q4'23
Discreet grafische adapter model *	Niet beschikbaar	Status	Launched
Aantal verwerkingseenheden	32	Logistieke gegevens	
Multi-Formaat Codec-motoren	2	Code geharmoniseerd systeem (HS)	8542310001
Kenmerken		Gewicht en omvang	
Execute Disable Bit	✓	Verpakkingsgrootte processor	45 x 37.5 mm
Idle States	✓	Overige specificaties	
		L2 cache	28672 KB
		Maximum intern geheugen	192 GB
		Grafische uitvoer	eDP 1.4b, DP 1.4a, HDMI 2.1



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