

Intel Core i7-14700K processor 33 MB Smart Cache Box

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514700K

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	Idle States	✓
Processorgeneratie	Intel Core i7-14xxx	Thermal Monitoring Technologies	✓
Processormodel *	i7-14700K	Marktsegment	Desktop
Processorfamilie *	Intel® Core™ i7	Gebruiksvoorwaarden	Workstation, PC/Client/Tablet
Aantal processorkernen *	20	Maximaal aantal PCI Express-lijnen	20
Processor socket *	LGA 1700	PCI Express slots versie	4.0, 5.0
Processor aantal threads	28	PCI Express configuraties	1x16+1x4, 2x8+1x4
Processor operating modes *	64-bit	Ondersteunde instructie sets	AVX 2.0, SSE4.1, SSE4.2
Prestatiekernen	8	Schaalbaarheid	1S
Efficiënte kernen	12	CPU configuratie (max)	1
Maximale turbofrequentie van processor	5,6 GHz	Ingebouwde opties beschikbaar	✗
Prestatie-kernboostfrequentie	5,5 GHz	Thermal solution specificatie	PCG 2020A
Prestatie-kernbasisfrequentie	3,4 GHz	Directe media-interface (DMI) revisie	4.0
Efficiënte kernboostfrequentie	4,3 GHz	Export Control Classification Number (ECCN)	5A992C
Efficiënte kernbasisfrequentie	2,5 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor cache	33 MB		
Processor cache type	Smart Cache		
Box *	✓		
Inclusief koeler *	✗		
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)	✓
Non-ECC	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Geheugen bandbreedte (max)	89,6 GB/s	Enhanced Intel SpeedStep Technology	✓
Grafisch		Intel® Speed Shift-technologie	✓
Ingebouwde grafische adapter *	✓	Intel® Turbo Boost Max Technology 3.0 frequency	5,6 GHz
Aparte grafische adapter *	✗	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
On-board graphics adapter model *	Intel UHD Graphics 770	Intel® Control-flow Enforcement Technology (CET)	✓
On-board ondersteunde grafische adapter uitgangen	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	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	
Basisfrequentie ingebouwde grafische adapter	300 MHz	Intel® Turbo Boost Max Technology 3.0	✓
Graphics on-board -adapter dynamische frequentie (max)	1600 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® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Maximale resolutie (eDP - Integrated Flat Panel)	5120 x 3200 Pixels	Eisen aan de omgeving	
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Tjunction	100 °C
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Technische details	
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	120 Hz	OpenCL-versie	3.0
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	60 Hz	Lanceringsdatum	Q4'23
On-board grafische adapter ID	0xA780	Status	Launched
Discreet grafische adapter model *	Niet beschikbaar	Logistieke gegevens	
Aantal verwerkingseenheden	32	Code geharmoniseerd systeem (HS)	8542310001
Multi-Formaat Codec-motoren	2	Gewicht en omvang	
Kenmerken		Verpakkingsgrootte processor	45 x 37.5 mm
Execute Disable Bit	✓	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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