

Intel Core i7-14700 processor 33 MB Smart Cache Box

Merk : Intel

Productfamilie: Core

Artikelcode: BX8071514700

Productnaam : i7-14700

Intel Core i7-14700. 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: 5,4 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	Idle States	✓
Processorgeneratie	Intel Core i7-14xxx	Thermal Monitoring Technologies	✓
Processormodel *	i7-14700	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	5,4 GHz	Ingebouwde opties beschikbaar	✓
Prestatie-kernboostfrequentie	5,3 GHz	Directe media-interface (DMI) revisie	4.0
Prestatie-kernbasisfrequentie	2,1 GHz	Export Control Classification Number (ECCN)	5A992C
Efficiënte kernboostfrequentie	4,2 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Efficiënte kernbasisfrequentie	1,5 GHz		
Processor cache	33 MB		
Processor cache type	Smart Cache		
Box *	✓	Processor speciale functies	
Inclusief koeler *	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor basisvermogen	65 W	Intel® Turbo Boost Technology	2.0
Maximaal turbovermogen	219 W	Intel® Quick Sync Video Technology	✓
Stepping	B0	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum aantal DMI lanes	8	Intel® AES New Instructions (Intel® AES-NI)	✓
Geheugenbandbreedte ondersteund door de processor (max)	89,6 GB/s	Enhanced Intel SpeedStep Technology	✓
Codenaam processor	Raptor Lake	Intel® Speed Shift-technologie	✓
ARK ID processor	236781	Intel® Turbo Boost Max Technology 3.0 frequency	5,4 GHz
Geheugen		Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Maximaal intern geheugen ondersteund door processor	192 GB	Intel® Control-flow Enforcement Technology (CET)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Thread Director	✓
Geheugen kanaal *	Dubbelkanaals	Intel® VT-x with Extended Page Tables (EPT)	✓
ECC	✓	Intel® Secure Key	✓
Geheugen bandbreedte (max)	89,6 GB/s	Intel® OS Guard	✓
Grafisch		Intel® 64	✓
Ingebouwde grafische adapter *	✓	Intel® Virtualization Technology (VT-x)	✓
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® Virtualization Technology for Directed I/O (VT-d)	✓
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	Q1'24
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
		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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