

Intel Core i7-14700K processor 33 MB Smart Cache

Brand : Intel **Product family:** Core **Product code:** CM8071504820721

Product name: i7-14700K

Intel® Core™ i7 processor 14700K (33M Cache, up to 5.60 GHz) FC-LGA16A, Tray
Intel Core i7-14700K. Processor family: Intel® Core™ i7, Processor socket: LGA 1700, Processor
manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by
processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. On-board
graphics card model: Intel UHD Graphics 770, On-board graphics card outputs supported: Embedded
DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card base frequency: 300 MHz.
Market segment: Desktop, Use conditions: Workstation, PC/Client/Tablet, PCI Express slots version: 4.0,
5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.6 GHz





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Processor		Features	
Processor manufacturer *	Intel	Thermal Monitoring Technologies	✓
Processor generation	Intel Core i7-14xxx	Market segment	Desktop
Processor model *	i7-14700K	Use conditions	Workstation, PC/Client/Tablet
Processor family *	Intel® Core™ i7	Maximum number of PCI Express lanes	20
Processor cores *	20	PCI Express slots version	4.0, 5.0
Processor socket *	LGA 1700	PCI Express slots version PCI Express configurations	1x16+1x4, 2x8+1x4
Processor threads	28	•	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	Supported instruction sets	1S
Performance cores	8	Scalability CPU configuration (max)	1
Efficient cores	12	• , ,	X
Processor boost frequency	5.6 GHz	Embedded options available	
Performance-core boost frequency	5.5 GHz	Thermal solution specification	PCG 2020A
Performance-core base frequency	3.4 GHz	Direct Media Interface (DMI) Revision	4.0
Efficient-core boost frequency	4.3 GHz	Export Control Classification	T.1000
Efficient-core base frequency	2.5 GHz	Number (ECCN)	5A992C
Processor cache	33 MB	Commodity Classification	
Processor cache type	Smart Cache	Automated Tracking System	740.17B1
Box *	×	(CCATS)	
Processor base power	125 W	Processor special features	
Maximum turbo power	253 W	Intel® Hyper Threading Technology	J
Stepping	В0	(Intel® HT Technology)	•
Maximum number of DMI lanes	8	Intel® Turbo Boost Technology	2.0
Memory bandwidth supported by	89.6 GB/s	Intel® Quick Sync Video Technology	✓
processor (max)	Dantor Lako	Intel® Clear Video HD Technology	1
Processor codename	Raptor Lake 236783	(Intel® CVT HD)	
Processor ARK ID	230783	Intel® AES New Instructions (Intel® AES-NI)	1
Memory		Enhanced Intel SpeedStep	,
Maximum internal memory	192 GB	Technology	√
supported by processor	-0-05	Intel® Speed Shift Technology	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Turbo Boost Max Technology 3.0 frequency	5.6 GHz
Memory channels * ECC	Dual-channel ✓	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Memory bandwidth (max)	89.6 GB/s	Intel® Control-flow Enforcement Technology (CET)	✓
Graphics		Intel® Thread Director	✓
On-board graphics card *	✓	Intel VT-x with Extended Page	J
Discrete graphics card *	×	Tables (EPT)	•
On-board graphics card model *	Intel UHD Graphics 770	Intel® Secure Key	1
On-board graphics card outputs	Embedded DisplayPort (eDP) 1.4b,	Intel® OS Guard	1
supported	DisplayPort 1.4a, HDMI 2.1	Intel 64	✓
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology (VT-x)	✓

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1600 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	1
Number of displays supported (onboard graphics)	4	Intel Turbo Boost Max Technology 3.0	1
On-board graphics card DirectX version	12.0	Intel® Boot Guard Intel® Deep Learning Boost (Intel®	√
On-board graphics card OpenGL version	4.5	DL Boost) Intel® Volume Management Device	√
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	(VMD) Mode-based Execute Control (MBE)	1
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Standard Manageability (ISM)	•
		Operational conditions	
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Technical details	
		OpenCL version Launch date	3.0 O4'23
On-board graphics card refresh rate at maximum resolution (eDP -	120 Hz	Status	Launched
Integrated Flat Panel)		Logistics data	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Harmonized System (HS) code	8542310001
On-board graphics card ID	0xA780	Weight & dimensions	
Discrete graphics card model *	Not available	Processor package size	45 x 37.5 mm
Number of execution units Multi-Format Codec Engines	32 2	Other features	
J	-	L2 cache	28672 KB
Features		Maximum internal memory	192 GB
Execute Disable Bit Idle States	1	Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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