

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

Brand : Intel

Product family: Core

**Product code:** CM8071504820705

Product name : i7-13700K

Intel® Core<sup>™</sup> i7-13700K Processor (30M Cache, up to 5.40 GHz) FC-LGA16A, Tray Intel Core i7-13700K. Processor family: Intel® Core<sup>™</sup> i7, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 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: PC/Client/Tablet, Workstation, PCI Express slots version: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.4 GHz





Processor		Features	
Processor manufacturer *	Intel	Direct Media Interface (DMI)	4.0
Processor generation	13th gen Intel® Core™ i7	Revision	
Processor model *	i7-13700K	Export Control Classification Number (ECCN)	5A992C
Processor family *	Intel® Core™ i7	Commodity Classification	
Processor cores *	16	Automated Tracking System	740.17B1
Processor socket *	LGA 1700	(CCATS)	
Processor threads	24	Processor special features	
Processor operating modes *	64-bit	Intel <sup>®</sup> Hyper Threading Technology	J
Performance cores	8	(Intel® HT Technology)	~
Efficient cores	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	5.4 GHz	Intel <sup>®</sup> Quick Sync Video Technology	1
Performance-core boost frequency	5.3 GHz	Intel® Clear Video HD Technology	1
Performance-core base frequency	3.4 GHz	(Intel® CVT HD)	
Efficient-core boost frequency	4.2 GHz	Intel® AES New Instructions (Intel® AES-NI)	1
Efficient-core base frequency	2.5 GHz	Enhanced Intel SpeedStep	
Processor cache	30 MB	Technology	4
Processor cache type	Smart Cache	Intel Trusted Execution Technology	1
Box *		Intel <sup>®</sup> Speed Shift Technology	1
Processor base power	125 W 253 W	Intel <sup>®</sup> Turbo Boost Max Technology	5.4 GHz
Maximum turbo power	255 W B0	3.0 frequency	
Stepping Bus type	DMI4	Intel <sup>®</sup> Gaussian & Neural Accelerator (Intel <sup>®</sup> GNA) 3.0	1
Maximum number of DMI lanes	8	Intel® Control-flow Enforcement	
Memory bandwidth supported by		Technology (CET)	4
processor (max)	89.6 GB/s	Intel® Thread Director	1
Processor codename	Raptor Lake	Intel VT-x with Extended Page	1
Processor ARK ID	230500	Tables (EPT)	•
Memory		Intel® Secure Key	4
Maximum internal memory		Intel® Active Management Technology (Intel® AMT)	1
supported by processor	128 GB	Intel Stable Image Platform Program	
Memory types supported by		(SIPP)	4
processor	DDR4-SDRAM, DDR5-SDRAM	Intel <sup>®</sup> OS Guard	1
Memory channels *	Dual-channel	Intel 64	1
ECC	4	Intel Virtualization Technology (VT-	1
Memory bandwidth (max)	89.6 GB/s	x)	•
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	1	Intel Turbo Boost Max Technology	
Discrete graphics card *	×	3.0	1
On-board graphics card model *	Intel UHD Graphics 770	Intel <sup>®</sup> Boot Guard	1
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel® Deep Learning Boost (Intel® DL Boost)	∢
On-board graphics card base frequency	300 MHz	Intel® Volume Management Device (VMD)	✓

Graphics		Processor special features	
On-board graphics card dynamic	1600 MUL	Mode-based Execute Control (MBE)	1
frequency (max)	1600 MHz	Intel® vPro <sup>™</sup> Platform Eligibility	4
Number of displays supported (on-	4	Intel® Standard Manageability (ISM)	1
board graphics) On-board graphics card DirectX		Intel <sup>®</sup> One-Click Recovery	1
version	12.0	Intel <sup>®</sup> Remote Platform Erase (RPE)	1
On-board graphics card OpenGL version	4.5	Intel® Virtualization Technology with Redirect Protection (VT-rp)	4
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel vPro® Enterprise Platform Eligibility	<
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Threat Detection Technology (TDT)	4
		Intel <sup>®</sup> Hardware Shield Eligibility	1
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Total Memory Encryption - Multi Key	✓
On-board graphics card refresh rate at maximum resolution	60 Hz	Intel vPro® Essentials Platform Eligibility	4
(DisplayPort) On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Operational conditions	
		Tjunction	100 °C
On-board graphics card refresh rate	60 H	Technical details	
at maximum resolution (HDMI)	60 Hz	Target market	Gaming, Content Creation
On-board graphics card ID	0xA780	OpenCL version	3.0
Discrete graphics card model *	Not available	Launch date	Q4'22
Number of execution units	32	Status	Launched
Multi-Format Codec Engines	2	Logistics data	
Features		Harmonized System (HS) code	8542310001
Execute Disable Bit	4	Packaging data	
Idle States		Package type	Retail box
Thermal Monitoring Technologies Market segment	V Desktop	Other features	
Use conditions	PC/Client/Tablet, Workstation	L2 cache	24576 KB
Maximum number of PCI Express		Maximum internal memory	128 GB
lanes	20	Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
PCI Express slots version	4.0, 5.0	•	
PCI Express configurations	1x16+1x4, 2x8+1x4		
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0		
Scalability	15		
CPU configuration (max)	1		
Embedded options available	×		



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