

Intel Core i7-13700 processor 30 MB Smart Cache Box

Brand : Intel Product family: Core Product code: BX8071513700

Product name: i7-13700

Boxed Intel® Core™ i7-13700 Processor (30M Cache, up to 5.20 GHz) FC-LGA16A Intel Core i7-13700. 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: PC/Client/Tablet, Workstation, PCI Express slots version: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz







Processor		Features	
Processor manufacturer * Processor generation	Intel 13th gen Intel® Core™ i7	Direct Media Interface (DMI) Revision	4.0
Processor model *	i7-13700 Intel® Core™ i7	Export Control Classification Number (ECCN)	5A992C
Processor family * Processor cores * Processor socket *	16 LGA 1700	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor threads	24	Processor special features	
Processor operating modes *	64-bit	•	
Performance cores	8	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Efficient cores	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	5.2 GHz	Intel® Quick Sync Video Technology	✓
Performance-core boost frequency	5.1 GHz	Intel® Clear Video HD Technology	,
Performance-core base frequency	2.1 GHz	(Intel® CVT HD)	•
Efficient-core boost frequency	4.1 GHz	Intel® AES New Instructions (Intel®	1
Efficient-core base frequency	1.5 GHz	AES-NI)	•
Processor cache	30 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✓
Box *	V	Intel® Speed Shift Technology	✓
Cooler included * Processor base power	√ 65 W	Intel® Turbo Boost Max Technology 3.0 frequency	5.2 GHz
Maximum turbo power	219 W	Intel® Gaussian & Neural	
Bus type	DMI4	Accelerator (Intel® GNA) 3.0	✓
Maximum number of DMI lanes	8	Intel® Control-flow Enforcement Technology (CET)	✓
Memory bandwidth supported by processor (max)	89.6 GB/s	Intel® Thread Director	√
Processor codename	Raptor Lake	Intel VT-x with Extended Page	1
Processor ARK ID	230490	Tables (EPT)	•
Memory		Intel® Secure Key	✓
Maximum internal memory	192 GB	Intel® Active Management Technology (Intel® AMT)	✓
supported by processor Memory types supported by	DDR4-SDRAM, DDR5-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
processor	DDR4-3DRAM, DDR3-3DRAM	Intel® OS Guard	✓
Memory channels *	Dual-channel	Intel 64	✓
ECC	✓	Intel Virtualization Technology (VT-	1
Non-ECC	✓	x)	*
Memory bandwidth (max)	89.6 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Turbo Boost Max Technology	,
On-board graphics card *	1	3.0	4
Discrete graphics card *	×	Intel® Boot Guard	✓
On-board graphics card model * On-board graphics card outputs	Intel UHD Graphics 770 Embedded DisplayPort (eDP) 1.4b,	Intel® Deep Learning Boost (Intel® DL Boost)	✓
supported	DisplayPort 1.4a, HDMI 2.1	Intel® Volume Management Device (VMD)	1

Graphics		Processor special features	
On-board graphics card base	200 MH=	Mode-based Execute Control (MBE)	✓
frequency	300 MHz	Intel® vPro™ Platform Eligibility	v
On-board graphics card dynamic frequency (max)	1600 MHz	Intel® Standard Manageability (ISM)	✓
Number of displays supported (on-		Intel® One-Click Recovery	✓
board graphics)	4	Intel® Remote Platform Erase (RPE)	✓
On-board graphics card DirectX version	12.0	Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
On-board graphics card OpenGL version	4.5	Intel vPro® Enterprise Platform Eligibility	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Threat Detection Technology (TDT)	✓
On-board graphics card maximum		Intel® Hardware Shield Eligibility	✓
resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Total Memory Encryption - Multi Key	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel vPro® Essentials Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
		Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Technical details	
		Target market	Gaming, Content Creation
On-board graphics card refresh rate	60 Hz	OpenCL version	3.0
at maximum resolution (HDMI)		Launch date	Q1'23
On-board graphics card ID	0xA780	Status	Launched
Discrete graphics card model * Number of execution units	Not available 32	Logistics data	
Multi-Format Codec Engines	2	Harmonized System (HS) code	8542310001
Features		Packaging data	
Execute Disable Bit	1	Package type	Retail box
Idle States	✓	Weight & dimensions	
Thermal Monitoring Technologies	√	Processor package size	45 x 37.5 mm
Market segment	Desktop	Other features	
Use conditions	PC/Client/Tablet, Workstation		24576 KD
Maximum number of PCI Express lanes	20	L2 cache Maximum internal memory	24576 KB 192 GB
PCI Express slots version	5.0, 4.0	Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
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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