Intel Core i7-13700T processor 30 MB Smart Cache

Brand : Intel

Product family: Core

Product code: CM8071504820903

Product name : i7-13700T

Intel Core i713700T Processor 30M Cache up to 4.90 GHz

Intel Core i7-13700T. 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: 4.9 GHz





Processor		Features	
Processor manufacturer *	Intel	Direct Media Interface (DMI)	4.0
Processor generation	13th gen Intel® Core™ i7	Revision	
Processor model *	i7-13700T	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® Hyper Threading Technology	
Performance cores	8	(Intel® HT Technology)	1
Efficient cores	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	4.9 GHz	Intel® Quick Sync Video Technology	1
Performance-core boost frequency	4.8 GHz	Intel [®] Clear Video HD Technology	1
Performance-core base frequency	1.4 GHz	(Intel® CVT HD)	•
Efficient-core boost frequency	3.6 GHz	Intel® AES New Instructions (Intel®	1
Efficient-core base frequency	1 GHz	AES-NI)	
Processor cache	30 MB	Enhanced Intel SpeedStep Technology	1
Processor cache type	Smart Cache	Intel Trusted Execution Technology	1
Box *	×	Intel® Speed Shift Technology	
Processor base power	35 W	Intel® Turbo Boost Max Technology	-
Maximum turbo power	106 W	3.0 frequency	4.9 GHz
Stepping	BO	Intel® Gaussian & Neural	,
Bus type	DMI4	Accelerator (Intel [®] GNA) 3.0	v
Maximum number of DMI lanes	8	Intel® Control-flow Enforcement	1
Memory bandwidth supported by processor (max)	89.6 GB/s	Technology (CET) Intel® Thread Director	1
Processor codename	Raptor Lake	Intel VT-x with Extended Page	
Processor ARK ID	230492	Tables (EPT)	v
		Intel® Secure Key	1
Memory		Intel® Active Management	1
Maximum internal memory supported by processor	192 GB	Technology (Intel® AMT) Intel Stable Image Platform Program	•
Memory types supported by	DDR4-SDRAM, DDR5-SDRAM	(SIPP)	✓
processor		Intel [®] OS Guard	1
Memory channels *	Dual-channel	Intel 64	1
ECC		Intel Virtualization Technology (VT-	1
Memory bandwidth (max)	89.6 GB/s	x) Intel Virtualization Technology for	
Graphics		Directed I/O (VT-d)	4
On-board graphics card *	4	Intel Turbo Boost Max Technology	1
Discrete graphics card *	×	3.0	v
On-board graphics card model $*$	Intel UHD Graphics 770	Intel [®] Boot Guard	✓
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 frequency (max)	1600 MHz	Mode-based Execute Control (MBE) Intel® vPro™ Platform Eligibility	4
Number of displays supported (on- board graphics)	4	Intel® Standard Manageability (ISM) Intel® One-Click Recovery	4
On-board graphics card DirectX version	12.0	Intel® Remote Platform Erase (RPE)	·
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	4
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Threat Detection Technology (TDT)	4
		Intel [®] 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 Hz	Technical details	
at maximum resolution (HDMI)		Target market	Gaming, Content Creation
On-board graphics card ID	0xA780	OpenCL version	3.0
Discrete graphics card model *	Not available	Launch date	Q1'23
Number of execution units	32	Status	Launched
Multi-Format Codec Engines	2	Logistics data	
Features		Harmonized System (HS) code	8542310001
Execute Disable Bit	4	Weight & dimensions	
Idle States Thermal Monitoring Technologies		Processor package size	45 x 37.5 mm
Market segment	Desktop	Other features	
Use conditions	PC/Client/Tablet, Workstation	L2 cache	24576 KB
Maximum number of PCI Express	20	Maximum internal memory	192 GB
lanes		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
PCI Express slots version	5.0, 4.0		
PCI Express configurations Supported instruction sets	1x16+1x4, 2x8+1x4 SSE4.1, SSE4.2, AVX 2.0		
Scalability	1S		
CPU configuration (max)	1		
Embedded options available	- -		

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