

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

Brand : Intel Product family: Core Product code: CM8071504820806

Product name: i7-13700F

Market segment

Desktop

Intel® Core™ i7-13700F Processor (30M Cache, up to 5.20 GHz) FC-LGA16A, Tray
Intel Core i7-13700F. 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. Market
segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 5.0, 4.0. Intel® Turbo
Boost Max Technology 3.0 frequency: 5.2 GHz. Package type: Retail box







Dun		P. Aliman	
Processor		Features	
Processor manufacturer * Processor generation	Intel 13th gen Intel® Core™ i7	Direct Media Interface (DMI) Revision	4.0
Processor model *	i7-13700F	Export Control Classification Number (ECCN)	5A992C
Processor family * Processor cores * Processor socket *	Intel® Core™ i7 16 LGA 1700	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor threads	24	Processor special features	
Processor operating modes *	64-bit	Intel® Hyper Threading Technology	
Performance cores	8	(Intel® HT Technology)	✓
Efficient cores	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	5.2 GHz	Intel® AES New Instructions (Intel®	1
Performance-core boost frequency	5.1 GHz	AES-NI)	•
Performance-core base frequency Efficient-core boost frequency	2.1 GHz 4.1 GHz	Enhanced Intel SpeedStep Technology	✓
Efficient-core base frequency	1.5 GHz	Intel® Speed Shift Technology	✓
Processor cache	30 MB	Intel® Turbo Boost Max Technology 3.0 frequency	5.2 GHz
Processor cache type  Box *	Smart Cache	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Processor base power  Maximum turbo power	65 W 219 W	Intel® Control-flow Enforcement Technology (CET)	✓
Bus type	DMI4	Intel® Thread Director	✓
Maximum number of DMI lanes	8	Intel VT-x with Extended Page Tables (EPT)	✓
Memory bandwidth supported by processor (max)	89.6 GB/s	Intel® Secure Key	✓
Processor codename	Raptor Lake	Intel® OS Guard	✓
Processor ARK ID	230491	Intel 64	✓
Memory		Intel Virtualization Technology (VT-x)	✓
Maximum internal memory supported by processor	192 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel Turbo Boost Max Technology 3.0	✓
Memory channels *	Dual-channel	Intel® Boot Guard	✓
Memory bandwidth (max)  Graphics	89.6 GB/s	Intel® Deep Learning Boost (Intel® DL Boost)	✓
	J	Intel® Volume Management Device	1
On-board graphics card *	X	(VMD)	*
Discrete graphics card *	X Not available	Mode-based Execute Control (MBE)	
On-board graphics card model *  Discrete graphics card model *	Not available	Intel® Standard Manageability (ISM)	✓
3 1	INUL AVAIIANIE	Operational conditions	
Features		Tjunction	100 °C
Execute Disable Bit	<b>√</b>	Logistics data	
Idle States	<b>V</b>	Harmonized System (HS) code	8542310001
Thermal Monitoring Technologies	✓	Harmonized System (HS) code	03-2310001

Features		Packaging data	
Use conditions	PC/Client/Tablet	Package type	Retail box
Maximum number of PCI Express lanes	20 5.0, 4.0 1x16+1x4, 2x8+1x4 SSE4.1, SSE4.2, AVX 2.0	Technical details	
PCI Express slots version PCI Express configurations Supported instruction sets		Target market	Gaming, Content Creation
		Launch date	Q1'23
		Status	Launched
Scalability	15	Weight & dimensions	
CPU configuration (max)	1 <b>X</b>	Processor package size	45 x 37.5 mm
Embedded options available		Other features	
		L2 cache	24576 KB
		Maximum internal memory	192 GB



8592978422349

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.