

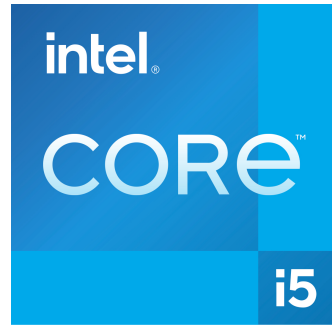
Intel Core i5-13400 processor 20 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8071505093004

Product name : i5-13400



Intel® Core™ i5-13400 Processor (20M Cache, up to 4.60 GHz) FC-LGA16A, Tray
 Intel Core i5-13400. Processor family: Intel® Core™ i5, 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 730, 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, PCI Express slots version: 5.0, 4.0. Processor package size: 45 x 37.5 mm



Processor		Features	
Processor manufacturer *	Intel	Thermal Monitoring Technologies	✓
Processor generation	13th gen Intel® Core™ i5	Market segment	Desktop
Processor model *	i5-13400	Use conditions	PC/Client/Tablet
Processor family *	Intel® Core™ i5	Maximum number of PCI Express lanes	20
Processor cores *	10	PCI Express slots version	5.0, 4.0
Processor socket *	LGA 1700	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor threads	16	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor operating modes *	64-bit	Scalability	1S
Performance cores	6	CPU configuration (max)	1
Efficient cores	4	Embedded options available	✓
Processor boost frequency	4.6 GHz	Direct Media Interface (DMI) Revision	4.0
Performance-core boost frequency	4.6 GHz	Export Control Classification Number (ECCN)	5A992C
Performance-core base frequency	2.5 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Efficient-core boost frequency	3.3 GHz		
Efficient-core base frequency	1.8 GHz		
Processor cache	20 MB		
Processor cache type	Smart Cache		
Box *	✗		
Processor base power	65 W		
Maximum turbo power	154 W		
Bus type	DMI4		
Maximum number of DMI lanes	8		
Memory bandwidth supported by processor (max)	76.8 GB/s		
Processor codename	Raptor Lake		
Processor ARK ID	230495		
Memory		Processor special features	
Maximum internal memory supported by processor	192 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Turbo Boost Technology	2.0
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
Memory bandwidth (max)	76.8 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
		Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel® Speed Shift Technology	✓
		Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
		Intel® Control-flow Enforcement Technology (CET)	✓
		Intel® Thread Director	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel® OS Guard	✓
		Intel 64	✓
		Intel Virtualization Technology (VT-x)	✓
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
On-board graphics card model *	Intel UHD Graphics 730		
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1		

Graphics		Processor special features	
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card dynamic frequency (max)	1550 MHz	Intel Turbo Boost Max Technology 3.0	✗
Number of displays supported (on-board graphics)	4	Intel® Boot Guard	✓
On-board graphics card DirectX version	12.0	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card OpenGL version	4.5	Intel® Volume Management Device (VMD)	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Mode-based Execute Control (MBE)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Standard Manageability (ISM)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Operational conditions	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Technical details	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Target market	Gaming
On-board graphics card ID	0x4682/0xA782	OpenCL version	3.0
Discrete graphics card model *	Not available	Launch date	Q1'23
Number of execution units	24	Status	Launched
Multi-Format Codec Engines	1	Logistics data	
Features		Harmonized System (HS) code	8542310001
Execute Disable Bit	✓	Weight & dimensions	
Idle States	✓	Processor package size	45 x 37.5 mm
		Other features	
		L2 cache	9728 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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Publication date: 29-NOV-2023. Prints or copies of Information are only valid on the printed Publication date