

Intel Core i5-13400 processor 20 MB Smart Cache Box

Brand: Intel Product family: Core Product code: BX8071513400

Product name: i5-13400

Boxed Intel® Core™ i5-13400 Processor (20M Cache, up to 4.60 GHz) FC-LGA16A 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: 4.0, 5.0. Processor package size: 45 x 37.5 mm







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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	4.0, 5.0
Processor socket *	LGA 1700	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor threads	16	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	Scalability	1S
Performance cores	6	CPU configuration (max)	1
Efficient cores	4	Embedded options available	<u> </u>
Processor boost frequency	4.6 GHz	Direct Media Interface (DMI)	•
Performance-core boost frequency	4.6 GHz	Revision	4.0
Performance-core base frequency Efficient-core boost frequency	2.5 GHz 3.3 GHz	Export Control Classification Number (ECCN)	5A992C
Efficient-core base frequency Processor cache Processor cache type	1.8 GHz 20 MB Smart Cache	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Box *	√	Processor special features	
Cooler included *	V	Intel® Hyper Threading Technology	
Processor base power	65 W	(Intel® HT Technology)	1
Maximum turbo power	154 W	Intel® Turbo Boost Technology	2.0
Maximum number of DMI lanes	8	Intel® Quick Sync Video Technology	1
Processor codename Processor ARK ID	Raptor Lake 230495	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory supported by processor	192 GB	Enhanced Intel SpeedStep Technology	✓
Memory types supported by	DDR4-SDRAM, DDR5-SDRAM	Intel® Speed Shift Technology	✓
processor Memory channels *	Dual-channel	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Non-ECC Memory bandwidth (max)	√ 76.8 GB/s	Intel® Control-flow Enforcement Technology (CET)	✓
• • •		Intel® Thread Director	✓
Graphics		Intel VT-x with Extended Page	1
On-board graphics card *	✓	Tables (EPT)	•
Discrete graphics card *	×	Intel® Secure Key	1
On-board graphics card model *	Intel UHD Graphics 730	Intel® OS Guard	1
On-board graphics card outputs	Embedded DisplayPort (eDP) 1.4b,	Intel 64	1
Supported On-board graphics card base	DisplayPort 1.4a, HDMI 2.1 300 MHz	Intel Virtualization Technology (VT-x)	✓
frequency			

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1550 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	1
Number of displays supported (onboard graphics)	4	Intel Turbo Boost Max Technology 3.0	×
On-board graphics card DirectX version	12.0	Intel® Boot Guard Intel® Deep Learning Boost (Intel®	1
On-board graphics card OpenGL version	4.5	DL Boost)	✓
On-board graphics card maximum	7680 x 4320 pixels	Intel® Volume Management Device (VMD)	1
resolution (DisplayPort) On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Mode-based Execute Control (MBE) Intel® Standard Manageability (ISM)	•
		Operational conditions	
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Technical details	
		OpenCL version Launch date	3.0 Q1'23
On-board graphics card refresh rate at maximum resolution (eDP -	120 Hz	Logistics data	Q123
Integrated Flat Panel) On-board graphics card refresh rate		Harmonized System (HS) code	8542310001
at maximum resolution (HDMI)	60 Hz	Weight & dimensions	
On-board graphics card ID	0x4682/0xA782	Processor package size	45 x 37.5 mm
Discrete graphics card model * Number of execution units	Not available 24	Other features	
Multi-Format Codec Engines	1	L2 cache	9728 KB
Features		Maximum internal memory	192 GB
Execute Disable Bit	1	Graphics output eDP 1.4b, DP 1.4a, HDMI 2.1	eur 1.40, ur 1.4a, humi 2.1
Idle States	✓		





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