## Intel Core i3-13100 processor 12 MB Smart Cache

Brand : Intel

Product family: Core

**Product code:** CM8071505092202

Product name : i3-13100

Intel® Core<sup>™</sup> i3-13100 Processor (12M Cache, up to 4.50 GHz) FC-LGA16A, Tray Intel Core i3-13100. Processor family: Intel® Core<sup>™</sup> i3, 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. Package type: Retail box





Processor		Features	
Processor manufacturer *	Intel	Maximum number of PCI Express	20
Processor generation	Intel Core i3-13xxx	lanes	5.0.4.0
Processor model *	i3-13100	PCI Express slots version	5.0, 4.0
Processor family *	Intel® Core™ i3	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor cores *	4	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor socket *	LGA 1700	Scalability	15
Processor threads	8	CPU configuration (max)	1
Processor operating modes *	64-bit	Embedded options available	4
Performance cores	4	Direct Media Interface (DMI) Revision	4.0
Processor boost frequency	4.5 GHz	Export Control Classification	
Performance-core boost frequency	4.5 GHz	Number (ECCN)	5A992C
Performance-core base frequency	3.4 GHz	Commodity Classification	
Processor cache	12 MB	Automated Tracking System	740.17B1
Processor cache type	Smart Cache	(CCATS)	
Box *	×	Processor special features	
Processor base power	60 W	Intel <sup>®</sup> Hyper Threading Technology	1
Maximum turbo power	89 W	(Intel® HT Technology)	
Bus type	DMI4	Intel® Turbo Boost Technology	2.0
Maximum number of DMI lanes	8	Intel <sup>®</sup> Quick Sync Video Technology	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	1
Processor codename	Raptor Lake	Intel® AES New Instructions (Intel®	1
Processor ARK ID	230575	AES-NI)	
Memory		Enhanced Intel SpeedStep Technology	<
Maximum internal memory	192 GB	Intel <sup>®</sup> Speed Shift Technology	1
supported by processor Memory types supported by	DDR4-SDRAM, DDR5-SDRAM	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	<
processor Memory channels *	Dual-channel	Intel® Control-flow Enforcement Technology (CET)	✓
Memory bandwidth (max)	76.8 GB/s	Intel <sup>®</sup> Thread Director	×
Graphics		Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card *	4	Intel® Secure Key	1
Discrete graphics card *	×	Intel <sup>®</sup> OS Guard	1
On-board graphics card model *	Intel UHD Graphics 730	Intel 64	1
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel Virtualization Technology (VT- x)	<
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card dynamic frequency (max)	1500 MHz	Intel Turbo Boost Max Technology 3.0	×
Number of displays supported (on-	4	Intel® Boot Guard	1
board graphics)		Intel® Deep Learning Boost (Intel® DL Boost)	✓

Graphics		Processor special features	
On-board graphics card DirectX version	12.0	Intel® Volume Management Device (VMD)	∢
On-board graphics card OpenGL version	4.5	Mode-based Execute Control (MBE) Intel® Standard Manageability (ISM)	•
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Threat Detection Technology (TDT)	1
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Operational conditions	
On-board graphics card maximum		Tjunction	100 °C
resolution (HDMI)	4096 x 2160 pixels	Technical details	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	OpenCL version Launch date	3.0 Q1'23
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Status Logistics data	Launched
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Harmonized System (HS) code Packaging data	8542310001
On-board graphics card ID	0x4692	Package type	Retail box
Discrete graphics card model *	Not available	Weight & dimensions	
Number of execution units Multi-Format Codec Engines	24 1	Processor package size	45 x 37.5 mm
-	1	Other features	
Features		L2 cache	5120 KB
Execute Disable Bit		Maximum internal memory	192 GB
Idle States	4	Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
Thermal Monitoring Technologies			
Market segment	Desktop		
Use conditions	PC/Client/Tablet		



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