

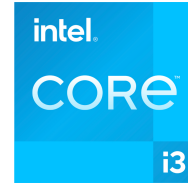
Intel Core i3-12100 processor 12 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8071504651012

Product name : i3-12100



Intel® Core™ i3-12100 Processor (12M Cache, up to 4.30 GHz)
 Intel Core i3-12100. Processor family: Intel® Core™ i3, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 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 lanes	20
Processor generation	12th gen Intel® Core™ i3	PCI Express slots version	5.0, 4.0
Processor model *	i3-12100	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor family *	Intel® Core™ i3	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor cores *	4	Scalability	1S
Processor socket *	LGA 1700	CPU configuration (max)	1
Processor threads	8	Embedded options available	✗
Processor operating modes *	64-bit	Direct Media Interface (DMI) Revision	4.0
Performance cores	4	Export Control Classification Number (ECCN)	5A992CN3
Processor boost frequency	4.3 GHz	Commodity Classification Automated Tracking System (CCATS)	G167599
Performance-core boost frequency	4.3 GHz		
Performance-core base frequency	3.3 GHz		
Processor cache	12 MB	Processor special features	
Processor cache type	Smart Cache	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Box *	✗	Intel® Turbo Boost Technology	2.0
Processor base power	60 W	Intel® Quick Sync Video Technology	✓
Maximum turbo power	89 W	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Bus type	DMI4	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum number of DMI lanes	8	Enhanced Intel SpeedStep Technology	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Speed Shift Technology	✓
Processor codename	Alder Lake	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Processor ARK ID	134584	Intel® Control-flow Enforcement Technology (CET)	✓
Memory		Intel® Thread Director	✗
Maximum internal memory supported by processor	128 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Secure Key	✓
Memory channels *	Dual-channel	Intel® OS Guard	✓
Memory bandwidth (max)	76.8 GB/s	Intel 64	✓
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✗	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card model *	Intel UHD Graphics 730	Intel® Optane™ Memory Ready	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel® Boot Guard	✓
On-board graphics card base frequency	300 MHz		
On-board graphics card dynamic frequency (max)	1400 MHz		
Number of displays supported (on-board graphics)	4		

Graphics		Processor special features	
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	Intel® Threat Detection Technology (TDT)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Technical details	
On-board graphics card ID	0x4692	OpenCL version	2.1
Discrete graphics card model *	Not available	Launch date	Q1'22
Number of execution units	24	Status	Launched
Multi-Format Codec Engines	1	Logistics data	
Features		Harmonized System (HS) code	85423119
Execute Disable Bit	✓	Packaging data	
Idle States	✓	Package type	Retail box
Thermal Monitoring Technologies	✓	Weight & dimensions	
Market segment	Desktop	Processor package size	45 x 37.5 mm
Use conditions	PC/Client/Tablet	Other features	
		Maximum internal memory	128 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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