

Intel Core i5-12400 processor 18 MB Smart Cache Box

Brand: Intel Product family: Core Product code: BX8071512400

Product name: i5-12400

frequency (max)

Boxed Intel® Core™ i5-12400 Processor (18M Cache, up to 4.40 GHz) FC-LGA16A Intel Core i5-12400. Processor family: Intel® Core™ i5, 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	20
Processor generation	12th gen Intel® Core™ i5	lanes	F 0 4 0
Processor model *	i5-12400	PCI Express slots version	5.0, 4.0
Processor family *	Intel® Core™ i5	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor cores *	6	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor socket *	LGA 1700	Scalability	1S
Processor threads	12	CPU configuration (max)	1
Processor operating modes *	64-bit	Embedded options available	X
Performance cores	6	Direct Media Interface (DMI) Revision	4.0
Processor boost frequency	4.4 GHz	Harmonized System (HS) code	85423119
Performance-core boost frequency	4.4 GHz	Export Control Classification	
Performance-core base frequency	2.5 GHz	Number (ECCN)	5A992CN3
Processor cache	18 MB	Commodity Classification	
Processor cache type	Smart Cache	Automated Tracking System	G167599
Box *	✓	(CCATS)	
Cooler included *	✓	Processor special features	
Processor base power	65 W	Intel® Hyper Threading Technology	J
Maximum turbo power	117 W	(Intel® HT Technology)	•
Bus type	DMI4	Intel® Turbo Boost Technology	2.0
Maximum number of DMI lanes	8	Intel® Quick Sync Video Technology	1
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor codename	Alder Lake	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Enhanced Intel SpeedStep	1
Maximum internal memory	128 GB	Technology	•
supported by processor		Intel® Speed Shift Technology	1
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Memory channels * Memory bandwidth (max)	Dual-channel 76.8 GB/s	Intel® Control-flow Enforcement Technology (CET)	✓
Graphics		Intel® Thread Director	×
On-board graphics card *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Discrete graphics card *	×	Intel® Secure Key	1
On-board graphics card model *	Intel UHD Graphics 730	Intel® OS Guard	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel 64	✓
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1450 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓

Graphics		Processor special features	
Number of displays supported (on- board graphics)	4	Intel Turbo Boost Max Technology 3.0	×
On-board graphics card DirectX version	12.0	Intel® Optane™ Memory Ready	✓
On-board graphics card OpenGL		Intel® Boot Guard	✓
version	4.5	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Volume Management Device (VMD)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Mode-based Execute Control (MBE)	✓
		Intel® Standard Manageability (ISM)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Threat Detection Technology (TDT)	1
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
		Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Technical details	
		Target market	Gaming
On-board graphics card refresh rate	60 HZ	OpenCL version	2.1
at maximum resolution (HDMI)		Launch date	Q1'22
On-board graphics card ID	0x4692 / 0x4682	Status	Launched
Discrete graphics card model *	Not available	Packaging data	
Number of execution units	24 1	Package type	Retail box
Multi-Format Codec Engines	1	Weight & dimensions	
Features		Processor package size	45 x 37.5 mm
Execute Disable Bit	✓	. 5	43 X 37.3 Hilli
Idle States	✓	Other features	
Thermal Monitoring Technologies	√	Maximum internal memory	128 GB
Market segment	Desktop	Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
Use conditions	PC/Client/Tablet		









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