

Intel Core i5-12600KF processor 20 MB Smart Cache

Brand : Intel

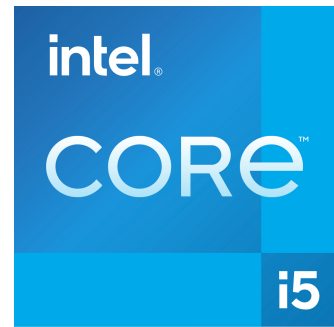
Product family: Core

Product code:
CM8071504555228

Product name : Intel® Core™ i5-12600KF Processor (20M Cache, up to 4.90 GHz)

Intel® Core™ i5-12600KF Processor (20M Cache, up to 4.90 GHz)

Intel Core i5-12600KF. 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. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 5.0, 4.0. Package type: Retail box. Processor package size: 45 x 37.5 mm



Processor		Features	
Processor manufacturer *	Intel	CPU configuration (max)	1
Processor generation	12th gen Intel® Core™ i5	Embedded options available	✗
Processor model *	i5-12600KF	Thermal solution specification	PCG 2020A
Processor family *	Intel® Core™ i5	Export Control Classification Number (ECCN)	5A992CN3
Processor cores *	10	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor socket *	LGA 1700	Processor special features	
Component for	PC	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	16	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Performance cores	6	Enhanced Intel SpeedStep Technology	✓
Efficient cores	4	Intel® Speed Shift Technology	✓
Processor boost frequency	4.9 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Performance-core boost frequency	4.9 GHz	Intel® Thread Director	✓
Performance-core base frequency	3.7 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Efficient-core boost frequency	3.6 GHz	Intel® Secure Key	✓
Efficient-core base frequency	2.8 GHz	Intel® OS Guard	✓
Processor cache	20 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Box *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor base power	125 W	Intel Turbo Boost Max Technology 3.0	✗
Maximum turbo power	150 W	Intel® Optane™ Memory Ready	✓
Bus type	DMI4	Intel® Boot Guard	✓
Maximum number of DMI lanes	8	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Volume Management Device (VMD)	✓
Processor codename	Alder Lake	Mode-based Execute Control (MBE)	✓
Processor ARK ID	134590	Intel® Standard Manageability (ISM)	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	128 GB	Tjunction	100 °C
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM		
Memory channels *	Dual-channel		
Memory bandwidth (max)	76.8 GB/s		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Logistics data	
Execute Disable Bit	✓	Harmonized System (HS) code	85423119
Idle States	✓	Packaging data	
Thermal Monitoring Technologies	✓	Package type	Retail box
Market segment	Desktop	Technical details	
Use conditions	PC/Client/Tablet	Target market	Gaming
Maximum number of PCI Express lanes	20	Launch date	Q4'21
PCI Express slots version	5.0, 4.0	Status	Launched
PCI Express configurations	1x16+1x4, 2x8+1x4	Weight & dimensions	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor package size	45 x 37.5 mm
Scalability	1S	Other features	
		Maximum internal memory	128 GB



0675901979160



675901979160



5054444444604



8592978357672

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.