

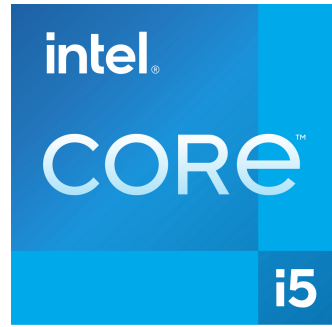
Intel Core i5-12600KF processor 20 MB Smart Cache

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) FC-LGA16A, Tray
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



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