

Intel Core i5-12600KF processor 20 MB Smart Cache Box

Brand : Intel

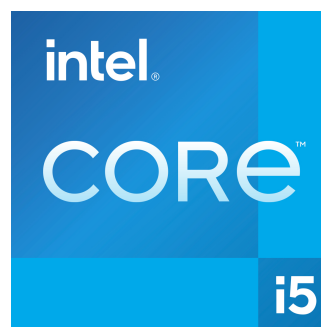
Product family: Core

Product code:
BX8071512600KF

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	Harmonized System (HS) code	85423119
Processor cores *	10	Export Control Classification Number (ECCN)	5A992CN3
Processor socket *	LGA 1700	Commodity Classification Automated Tracking System (CCATS)	G167599
Component for	PC	Processor special features	
Processor threads	16	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Performance cores	6	Intel® AES New Instructions (Intel® AES-NI)	✓
Efficient cores	4	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	4.9 GHz	Intel® Speed Shift Technology	✓
Performance-core boost frequency	4.9 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Performance-core base frequency	3.7 GHz	Intel® Thread Director	✓
Efficient-core boost frequency	3.6 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Efficient-core base frequency	2.8 GHz	Intel® Secure Key	✓
Processor cache	20 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel 64	✓
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Processor base power	125 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum turbo power	150 W	Intel Turbo Boost Max Technology 3.0	✗
Bus type	DMI4	Intel® Optane™ Memory Ready	✓
Maximum number of DMI lanes	8	Intel® Boot Guard	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor codename	Alder Lake	Intel® Volume Management Device (VMD)	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	128 GB	Intel® Standard Manageability (ISM)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Operational conditions	
Memory channels *	Dual-channel	Tjunction	100 °C
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		Packaging data	
Execute Disable Bit	✓	Package type	Retail box
Idle States	✓	Technical details	
Thermal Monitoring Technologies	✓	Target market	Gaming
Market segment	Desktop	Launch date	Q4'21
Use conditions	PC/Client/Tablet	Status	Launched
Maximum number of PCI Express lanes	20	Weight & dimensions	
PCI Express slots version	5.0, 4.0	Processor package size	45 x 37.5 mm
PCI Express configurations	1x16+1x4, 2x8+1x4	Other features	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Maximum internal memory	128 GB
Scalability	1S		



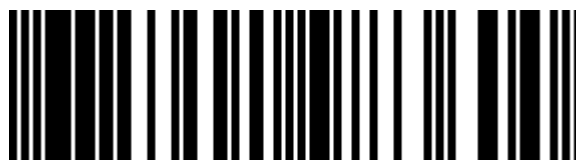
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