Intel Core i5-13600KF processor 24 MB Smart Cache

Brand : Intel

Product family: Core

Product code: CM8071504821006

Product name : i5-13600KF

Intel® Core™ i5-13600KF Processor (24M Cache, up to 5.10 GHz) FC-LGA16A, Tray
Intel Core i5-13600KF. 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. L2 cache: 20480 KB, Maximum internal memory: 128 GB

Processor	
Processor manufacturer *	Intel
Processor generation	13th gen Intel® Core™ i5
Processor model *	i5-13600KF
Processor family *	Intel® Core™ i5
Processor cores *	14
Processor socket *	LGA 1700
Processor threads	20
Processor operating modes *	64-bit
Performance cores	6
Efficient cores	8
Processor boost frequency	5.1 GHz
Performance-core boost frequency	5.1 GHz
Performance-core base frequency	3.5 GHz
Efficient-core boost frequency	3.9 GHz
Efficient-core base frequency	2.6 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Box *	✗
Processor base power	125 W
Maximum turbo power	181 W
Stepping	B0
Bus type	DMI4
Maximum number of DMI lanes	8
Memory bandwidth supported by processor (max)	89.6 GB/s
Processor codename	Raptor Lake
Processor ARK ID	230494

Memory	
Maximum internal memory supported by processor	128 GB
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM
Memory channels *	Dual-channel
Memory bandwidth (max)	89.6 GB/s

Graphics	
On-board graphics card *	✗
Discrete graphics card *	✗
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Features	
CPU configuration (max)	1
Embedded options available	✗
Direct Media Interface (DMI) Revision	4.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	740.17B1

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel® Speed Shift Technology	✓
Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Intel® Control-flow Enforcement Technology (CET)	✓
Intel® Thread Director	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel® OS Guard	✓
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Turbo Boost Max Technology 3.0	✗
Intel® Boot Guard	✓
Intel® Deep Learning Boost (Intel® DL Boost)	✓
Intel® Volume Management Device (VMD)	✓
Mode-based Execute Control (MBE)	✓
Intel® Standard Manageability (ISM)	✓

Operational conditions	
Tjunction	100 °C

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Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Desktop
Use conditions	PC/Client/Tablet
Maximum number of PCI Express lanes	20
PCI Express slots version	5.0, 4.0
PCI Express configurations	1x16+1x4, 2x8+1x4
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Scalability	1S

Logistics data	
Harmonized System (HS) code	8542310001
Packaging data	
Package type	Retail box
Technical details	
Target market	Gaming
Launch date	Q4'22
Status	Launched
Other features	
L2 cache	20480 KB
Maximum internal memory	128 GB

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