

Intel Core i7-14700KF processor 33 MB Smart Cache

Brand : Intel

Product family: Core

Product code: CM8071504820722

Product name : i7-14700KF

Intel® Core™ i7 processor 14700KF (33M Cache, up to 5.60 GHz) FC-LGA16A, Tray Intel Core i7-14700KF. Processor family: Intel® Core™ i7, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.6 GHz. Processor package size: 45 x 37.5 mm



Processor		Features	
Processor manufacturer *	Intel	Thermal solution specification	PCG 2020A
Processor generation Processor model *	Intel Core i7-14xxx i7-14700KF	Direct Media Interface (DMI) Revision	4.0
Processor family *	Intel® Core™ i7	Export Control Classification	5A992C
Processor cores *	20	Number (ECCN)	JAJJZC
Processor socket *	LGA 1700	Commodity Classification Automated Tracking System	740.17B1
Processor threads	28	(CCATS)	, 10.17.51
Processor operating modes *	64-bit	Processor special features	
Performance cores	8	Intel® Hyper Threading Technology	
Efficient cores	12	(Intel® HT Technology)	4
Processor boost frequency	5.6 GHz	Intel® Turbo Boost Technology	2.0
Performance-core boost frequency	5.5 GHz	Intel [®] AES New Instructions (Intel [®]	
Performance-core base frequency	3.4 GHz	AES-NI)	4
Efficient-core boost frequency	4.3 GHz	Enhanced Intel SpeedStep	4
Efficient-core base frequency	2.5 GHz	Technology	
Processor cache	33 MB	Intel® Speed Shift Technology	4
Processor cache type	Smart Cache	Intel® Turbo Boost Max Technology 3.0 frequency	5.6 GHz
Box *	×	Intel® Gaussian & Neural	
Processor base power	125 W	Accelerator (Intel® GNA) 3.0	4
Maximum turbo power	253 W	Intel [®] Control-flow Enforcement	4
Stepping	B0	Technology (CET)	•
Maximum number of DMI lanes	8	Intel [®] Thread Director	4
Memory bandwidth supported by processor (max)	89.6 GB/s	Intel VT-x with Extended Page Tables (EPT)	1
Processor codename	Raptor Lake	Intel [®] Secure Key	4
Processor ARK ID	236789	Intel [®] OS Guard	4
Memory		Intel 64	4
Maximum internal memory supported by processor	192 GB	Intel Virtualization Technology (VT- x)	1
Memory types supported by	DDR4-SDRAM, DDR5-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
processor Memory channels *	Dual-channel	Intel Turbo Boost Max Technology	1
Memory bandwidth (max)	89.6 GB/s	3.0	
• • •	09.0 00/3	Intel® Boot Guard	4
Graphics		Intel [®] Deep Learning Boost (Intel [®] DL Boost)	4
On-board graphics card *	×	Intel® Volume Management Device	
Discrete graphics card *	×	(VMD)	4
On-board graphics card model *	Not available	Mode-based Execute Control (MBE)	✓
Discrete graphics card model *	Not available	Intel [®] Standard Manageability (ISM) 🗸
Features		Operational conditions	
Execute Disable Bit	4	Tjunction	100 °C
Idle States	4	Logistics data	
Thermal Monitoring Technologies		Harmonized System (HS) code	8542310001
Market segment	Desktop		





Features		Technical details		
Use conditions	PC/Client/Tablet	Launch date	Q4'23	
Maximum number of PCI Express lanes	20	Status	Launched	
PCI Express slots version	4.0, 5.0 1x16+1x4, 2x8+1x4 AVX 2.0, SSE4.1, SSE4.2	Weight & dimensions		
PCI Express configurations		Processor package size	45 x 37.5 mm	
Supported instruction sets		Other features		
Scalability	15	L2 cache	28672 KB	
CPU configuration (max)	1	Maximum internal memory	192 GB	
Embedded options available	s available 🛛 🗙			



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