

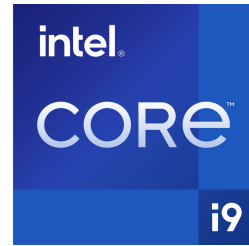
Intel Core i9-13900F processor 36 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8071504820606

Product name : i9-13900F



Intel® Core™ i9-13900F Processor (36M Cache, up to 5.60 GHz) FC-LGA16A, Tray
 Intel Core i9-13900F. Processor family: Intel® Core™ i9, 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: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.5 GHz, Intel® Thermal Velocity Boost Frequency: 5.6 GHz. Package type: Retail box

Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor generation	13th gen Intel® Core™ i9	Automated Tracking System (CCATS)	740.17B1
Processor model *	i9-13900F	Processor special features	
Processor family *	Intel® Core™ i9	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	24	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1700	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor threads	32	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel® Speed Shift Technology	✓
Performance cores	8	Intel® Thermal Velocity Boost	✓
Efficient cores	16	Intel® Adaptive Boost Technology	✓
Processor boost frequency	5.6 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	5.5 GHz
Performance-core boost frequency	5.2 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Performance-core base frequency	2 GHz	Intel® Thermal Velocity Boost Frequency	5.6 GHz
Efficient-core boost frequency	4.2 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Efficient-core base frequency	1.5 GHz	Intel® Thread Director	✓
Processor cache	36 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel® Secure Key	✓
Box *	✗	Intel® OS Guard	✓
Processor base power	65 W	Intel 64	✓
Maximum turbo power	219 W	Intel Virtualization Technology (VT-x)	✓
Bus type	DMI4	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum number of DMI lanes	8	Intel Turbo Boost Max Technology 3.0	✓
Memory bandwidth supported by processor (max)	89.6 GB/s	Intel® Boot Guard	✓
Processor codename	Raptor Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor ARK ID	230502	Intel® Volume Management Device (VMD)	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	192 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)	89.6 GB/s	Logistics data	
Graphics		Harmonized System (HS) code	8542310001
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		

Features		Packaging data	
Market segment	Desktop	Package type	Retail box
Use conditions	PC/Client/Tablet	Technical details	
Maximum number of PCI Express lanes	20	Target market	Gaming, Content Creation
PCI Express slots version	5.0, 4.0	Launch date	Q1'23
PCI Express configurations	1x16+1x4, 2x8+1x4	Status	Launched
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Weight & dimensions	
Scalability	1S	Processor package size	45 x 37.5 mm
CPU configuration (max)	1	Other features	
Embedded options available	✘	L2 cache	32768 KB
Direct Media Interface (DMI) Revision	4.0	Maximum internal memory	192 GB
Export Control Classification Number (ECCN)	5A992C		



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