

Intel Core i9-13900F processor 36 MB Smart Cache Box

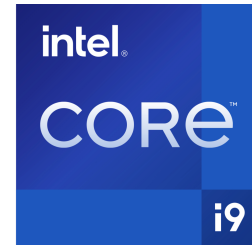
Brand : Intel

Product family: Core

Product code: BX8071513900F

Product name : i9-13900F

Boxed Intel® Core™ i9-13900F Processor (36M Cache, up to 5.60 GHz) FC-LGA16A
 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 | Export Control Classification Number (ECCN) | 5A992C |
| Processor generation | 13th gen Intel® Core™ i9 | Commodity Classification 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 | ✓ |
| Cooler included * | ✓ | Intel 64 | ✓ |
| Processor base power | 65 W | Intel Virtualization Technology (VT-x) | ✓ |
| Maximum turbo power | 219 W | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Bus type | DMI4 | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Maximum number of DMI lanes | 8 | Intel® Boot Guard | ✓ |
| Memory bandwidth supported by processor (max) | 89.6 GB/s | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Processor codename | Raptor Lake | Intel® Volume Management Device (VMD) | ✓ |
| Processor ARK ID | 230502 | Mode-based Execute Control (MBE) | ✓ |
| Memory | | Intel® Standard Manageability (ISM) | ✓ |
| Maximum internal memory supported by processor | 192 GB | Operational conditions | |
| Memory types supported by processor | DDR4-SDRAM, DDR5-SDRAM | Tjunction | 100 °C |
| Memory channels * | Dual-channel | | |
| Non-ECC | ✓ | | |
| 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 | | | |
| Execute Disable Bit | ✓ | | |

| Features | | Logistics data | |
|---------------------------------------|-------------------------|--------------------------------|--------------------------|
| Idle States | ✓ | Harmonized System (HS) code | 8542310001 |
| Thermal Monitoring Technologies | ✓ | 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 |



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