

Intel Core i7-10700KF processor 3.8 GHz 16 MB Smart Cache Box

Brand : Intel

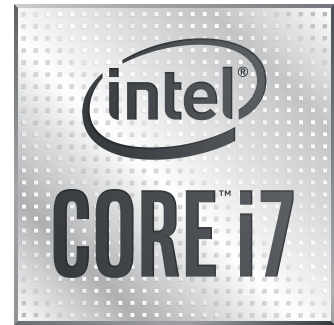
Product family: Core

Product code:
BX8070110700KF

Product name : i7-10700KF

Intel Core i7-10700KF Processor (16MB Cache, up to 5.1 GHz)

Intel Core i7-10700KF. Processor family: Intel® Core™ i7, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.1 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5 GHz. Package type: Retail box



| Processor | | Features | |
|--|--------------------------|--|---------|
| Processor manufacturer * | Intel | Export Control Classification Number (ECCN) | 5A992C |
| Processor generation | 10th gen Intel® Core™ i7 | Commodity Classification Automated Tracking System (CCATS) | G077159 |
| Processor model * | i7-10700KF | Processor special features | |
| Processor base frequency * | 3.8 GHz | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor family * | Intel® Core™ i7 | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor cores * | 8 | Intel® Turbo Boost Technology | 2.0 |
| Processor socket * | LGA 1200 (Socket H5) | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Component for | PC | Enhanced Intel SpeedStep Technology | ✓ |
| Processor lithography * | 14 nm | Intel Trusted Execution Technology | ✗ |
| Processor threads | 16 | Intel® Thermal Velocity Boost | ✗ |
| System bus rate | 8 GT/s | Intel® Turbo Boost Max Technology 3.0 frequency | 5.1 GHz |
| Processor operating modes * | 64-bit | Intel® Turbo Boost Technology 2.0 frequency | 5 GHz |
| Processor boost frequency | 5.1 GHz | Intel® Transactional Synchronization Extensions | ✗ |
| Processor cache | 16 MB | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor cache type | Smart Cache | Intel® Secure Key | ✓ |
| Thermal Design Power (TDP) | 125 W | Intel Stable Image Platform Program (SIPP) | ✗ |
| Box * | ✓ | Intel® OS Guard | ✓ |
| Configurable TDP-down frequency | 3.5 GHz | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Cooler included * | ✗ | Intel 64 | ✓ |
| Configurable TDP-down | 95 W | Intel Virtualization Technology (VT-x) | ✓ |
| Generation | 10th Generation | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Memory bandwidth supported by processor (max) | 45.8 GB/s | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Processor codename | Comet Lake | Intel® Optane™ Memory Ready | ✓ |
| Processor ARK ID | 199325 | Intel® Boot Guard | ✓ |
| Memory | | Intel® vPro™ Platform Eligibility | ✗ |
| Maximum internal memory supported by processor | 128 GB | Operational conditions | |
| Memory types supported by processor | DDR4-SDRAM | Tjunction | 100 °C |
| Memory clock speeds supported by processor | 2933 MHz | | |
| Memory channels * | Dual-channel | | |
| ECC | ✗ | | |
| Graphics | | | |
| On-board graphics card * | ✗ | | |
| Discrete graphics card * | ✗ | | |
| On-board graphics card model * | Not available | | |
| Discrete graphics card model * | Not available | | |

| Features | | Technical details | |
|-------------------------------------|-------------------------|--------------------------------|--------------------------|
| Execute Disable Bit | ✓ | Target market | Gaming, Content Creation |
| Idle States | ✓ | Launch date | Q2'20 |
| Thermal Monitoring Technologies | ✓ | Product type | Processor |
| Market segment | Desktop | Status | Launched |
| Maximum number of PCI Express lanes | 16 | Maximum memory | 128 GB |
| PCI Express slots version | 3.0 | Supported memory types | DDR4-SDRAM |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Bus speed | 8 GT/s |
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 | Packaging data | |
| Scalability | 1S | Package type | Retail box |
| CPU configuration (max) | 1 | Weight & dimensions | |
| Embedded options available | ✗ | Processor package size | 37.5 x 37.5 mm |
| Thermal solution specification | PCG 2015D | Other features | |
| PCI Express CEM revision | 3.0 | Maximum internal memory | 128 GB |
| Harmonized System (HS) code | 85423119 | | |



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