

Intel Core i7-11700K processor 3.6 GHz 16 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8070804488629

Product name : i7-11700K



Intel® Core™ i7-11700K Processor (16M Cache, up to 5.00 GHz)

Intel Core i7-11700K. 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. On-board graphics card model: Intel UHD Graphics 750, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express configurations: 1x16+1x4, 2x8+1x4, 1x8+3x4. Intel® Turbo Boost Max Technology 3.0 frequency: 5 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.9 GHz



| Processor | | Features | |
|------------------------------------------------|--------------------------|------------------------------------------------------------|----------------------------------|
| Processor manufacturer * | Intel | Maximum number of PCI Express lanes | 20 |
| Processor generation | 11th gen Intel® Core™ i7 | PCI Express slots version | 4.0 |
| Processor model * | i7-11700K | PCI Express configurations | 1x16+1x4, 2x8+1x4, 1x8+3x4 |
| Processor base frequency * | 3.6 GHz | Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0, AVX-512 |
| Processor family * | Intel® Core™ i7 | Scalability | 1S |
| Processor cores * | 8 | CPU configuration (max) | 1 |
| Processor socket * | LGA 1200 (Socket H5) | Embedded options available | ✗ |
| Component for | PC | Export Control Classification Number (ECCN) | 5A992CN3 |
| Processor lithography * | 14 nm | Commodity Classification Automated Tracking System (CCATS) | G167599 |
| Processor threads | 16 | Processor special features | |
| System bus rate | 8 GT/s | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor operating modes * | 64-bit | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor boost frequency | 5 GHz | Intel® Turbo Boost Technology | 2.0 |
| Processor cache | 16 MB | Intel® Quick Sync Video Technology | ✓ |
| Processor cache type | Smart Cache | Intel® InTru™ 3D Technology | ✓ |
| Thermal Design Power (TDP) | 125 W | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Box * | ✗ | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Configurable TDP-down frequency | 3.1 GHz | Enhanced Intel SpeedStep Technology | ✓ |
| Cooler included * | ✗ | Intel Trusted Execution Technology | ✓ |
| Configurable TDP-down | 95 W | Intel® Thermal Velocity Boost | ✗ |
| Memory bandwidth supported by processor (max) | 50 GB/s | Intel® Turbo Boost Max Technology 3.0 frequency | 5 GHz |
| Processor ARK ID | 212047 | Intel® Turbo Boost Technology 2.0 frequency | 4.9 GHz |
| Memory | | Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0 | ✓ |
| Maximum internal memory supported by processor | 128 GB | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Memory types supported by processor | DDR4-SDRAM | Intel® Secure Key | ✓ |
| Memory clock speeds supported by processor | 3200 MHz | Intel Stable Image Platform Program (SIPP) | ✓ |
| Memory channels * | Dual-channel | Intel® OS Guard | ✓ |
| ECC | ✗ | Intel Clear Video Technology | ✓ |
| Memory bandwidth (max) | 50 GB/s | Intel Software Guard Extensions (Intel SGX) | ✗ |
| Graphics | | Intel 64 | ✓ |
| On-board graphics card * | ✓ | | |
| Discrete graphics card * | ✗ | | |
| On-board graphics card model * | Intel UHD Graphics 750 | | |
| Maximum on-board graphics card memory | 64 GB | | |
| On-board graphics card base frequency | 350 MHz | | |
| On-board graphics card dynamic frequency (max) | 1300 MHz | | |

| Graphics | | Processor special features | |
|-----------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------|--------------------------|
| Number of displays supported (on-board graphics) | 3 | Intel Virtualization Technology (VT-x) | ✓ |
| On-board graphics card 4K support | ✓ | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| On-board graphics card OpenGL version | 4.5 | Intel Turbo Boost Max Technology 3.0 | ✓ |
| On-board graphics card maximum resolution (DisplayPort) | 5120 x 3200 pixels | Intel® Optane™ Memory Ready | ✓ |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel) | 5120 x 3200 pixels | Intel® Boot Guard | ✓ |
| On-board graphics card maximum resolution (HDMI) | 4096 x 2160 pixels | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| On-board graphics card refresh rate at maximum resolution (DisplayPort) | 60 Hz | Intel® vPro™ Platform Eligibility | ✓ |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 60 Hz | Operational conditions | |
| On-board graphics card refresh rate at maximum resolution (HDMI) | 60 Hz | Tjunction | 100 °C |
| On-board graphics card ID | 0x4C8A | Technical details | |
| Discrete graphics card model * | Not available | Target market | Gaming, Content Creation |
| Number of execution units | 32 | Launch date | Q1'21 |
| Features | | Status | Launched |
| Execute Disable Bit | ✓ | Supported memory types | DDR4-SDRAM |
| Idle States | ✓ | Logistics data | |
| Thermal Monitoring Technologies | ✓ | Harmonized System (HS) code | 85423119 |
| Market segment | Desktop | Packaging data | |
| Use conditions | PC/Client/Tablet | Package type | Retail box |
| | | Weight & dimensions | |
| | | Processor package size | 37.5 x 37.5 mm |
| | | Other features | |
| | | Maximum internal memory | 128 GB |



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