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

Brand : Intel

Product family: Core

Product code: BX8070811700KF

Product name : i7-11700KF

Intel Core i7-11700KF Processor (16MB Cache, up to 5 GHz)
Intel Core i7-11700KF. 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, 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. Package type: Retail box

Processor	
Processor manufacturer *	Intel
Processor generation	11th gen Intel® Core™ i7
Processor model *	i7-11700KF
Processor base frequency *	3.6 GHz
Processor family *	Intel® Core™ i7
Processor cores *	8
Processor socket *	LGA 1200 (Socket H5)
Component for	PC
Processor lithography *	14 nm
Processor threads	16
System bus rate	8 GT/s
Processor operating modes *	64-bit
Processor boost frequency	5 GHz
Processor cache	16 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	125 W
Box *	✓
Configurable TDP-down frequency	3.1 GHz
Configurable TDP-down	95 W
Memory bandwidth supported by processor (max)	50 GB/s
Processor ARK ID	212048

Memory	
Maximum internal memory supported by processor	128 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	3200 MHz
Memory channels *	Dual-channel
ECC	✗
Memory bandwidth (max)	50 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	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Desktop
Use conditions	PC/Client/Tablet

Features	
Commodity Classification Automated Tracking System (CCATS)	G167599

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✗
Intel® Thermal Velocity Boost	✗
Intel® Turbo Boost Max Technology 3.0 frequency	5 GHz
Intel® Turbo Boost Technology 2.0 frequency	4.9 GHz
Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel Stable Image Platform Program (SIPP)	✗
Intel® OS Guard	✓
Intel Software Guard Extensions (Intel SGX)	✗
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Turbo Boost Max Technology 3.0	✓
Intel® Optane™ Memory Ready	✓
Intel® Boot Guard	✓
Intel® Deep Learning Boost (Intel® DL Boost)	✓
Intel® vPro™ Platform Eligibility	✗

Operational conditions	
Tjunction	100 °C

Technical details	
Target market	Gaming, Content Creation
Launch date	Q1'21

Features	
Maximum number of PCI Express lanes	20
PCI Express slots version	4.0
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Scalability	1S
CPU configuration (max)	1
Embedded options available	✘
Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992CN3

Technical details	
Status	Launched
Supported memory types	DDR4-SDRAM
Packaging data	
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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