

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		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor generation	11th gen Intel® Core™ i7	Automated Tracking System (CCATS)	G167599
Processor model *	i7-11700KF	Processor special features	
Processor base frequency *	3.6 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 GHz
Processor operating modes *	64-bit	Intel® Turbo Boost Technology 2.0 frequency	4.9 GHz
Processor boost frequency	5 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
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	3.1 GHz	Intel Software Guard Extensions (Intel SGX)	✗
Configurable TDP-down	95 W	Intel 64	✓
Memory bandwidth supported by processor (max)	50 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor ARK ID	212048	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory		Intel Turbo Boost Max Technology 3.0	✓
Maximum internal memory supported by processor	128 GB	Intel® Optane™ Memory Ready	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Boot Guard	✓
Memory clock speeds supported by processor	3200 MHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory channels *	Dual-channel	Intel® vPro™ Platform Eligibility	✗
ECC	✗	Operational conditions	
Memory bandwidth (max)	50 GB/s	Tjunction	100 °C
Graphics		Technical details	
On-board graphics card *	✗	Target market	Gaming, Content Creation
Discrete graphics card *	✗	Launch date	Q1'21
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		Technical details	
Maximum number of PCI Express lanes	20	Status	Launched
PCI Express slots version	4.0	Supported memory types	DDR4-SDRAM
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4	Packaging data	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Package type	Retail box
Scalability	1S	Weight & dimensions	
CPU configuration (max)	1	Processor package size	37.5 x 37.5 mm
Embedded options available	✘	Other features	
Harmonized System (HS) code	85423119	Maximum internal memory	128 GB
Export Control Classification Number (ECCN)	5A992CN3		



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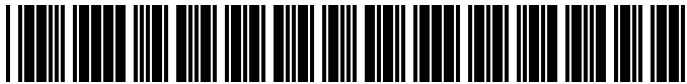
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