

Intel Core i7-11700F processor 2.5 GHz 16 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8070811700F

Product name : i7-11700F



Intel Core i7-11700F Processor (16MB Cache, up to 4.9 GHz)

Intel Core i7-11700F. 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: 4.9 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.8 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	11th gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-11700F	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.5 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor cores *	8	Intel Trusted Execution Technology	✗
Processor socket *	LGA 1200 (Socket H5)	Intel® Thermal Velocity Boost	✗
Component for	PC	Intel® Turbo Boost Max Technology 3.0 frequency	4.9 GHz
Processor lithography *	14 nm	Intel® Turbo Boost Technology 2.0 frequency	4.8 GHz
Processor threads	16	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
System bus rate	8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	4.9 GHz	Intel Stable Image Platform Program (SIPP)	✗
Processor cache	16 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel Software Guard Extensions (Intel SGX)	✗
Thermal Design Power (TDP)	65 W	Intel 64	✓
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	50 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	212280	Intel Turbo Boost Max Technology 3.0	✓
Memory		Intel® Optane™ Memory Ready	✓
Maximum internal memory supported by processor	128 GB	Intel® Boot Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory clock speeds supported by processor	3200 MHz	Intel® vPro™ Platform Eligibility	✗
Memory channels *	Dual-channel	Operational conditions	
ECC	✗	Tjunction	100 °C
Memory bandwidth (max)	50 GB/s	Technical details	
Graphics		Target market	Gaming, Content Creation
On-board graphics card *	✗	Launch date	Q1'21
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Discrete graphics card model *	Not available	Logistics data	
Features		Harmonized System (HS) code	85423119
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Desktop		
Use conditions	PC/Client/Tablet		
Maximum number of PCI Express lanes	20		
PCI Express slots version	4.0		

Features		Packaging data	
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4	Package type	Retail box
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Weight & dimensions	
Scalability	1S	Processor package size	37.5 x 37.5 mm
CPU configuration (max)	1	Other features	
Embedded options available	✘	Maximum internal memory	128 GB
Export Control Classification Number (ECCN)	5A992CN3		
Commodity Classification Automated Tracking System (CCATS)	G167599		



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