

Intel Core i9-11900F processor 2.5 GHz 16 MB Smart Cache Box

Brand : Intel

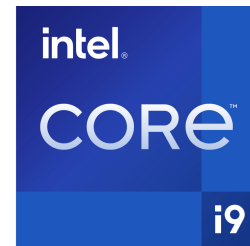
Product family: Core

Product code: BX8070811900F

Product name : i9-11900F

Intel Core i9-11900F Processor (16MB Cache, up to 5.2 GHz)

Intel Core i9-11900F. Processor family: Intel® Core™ i9, 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: 5.1 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5 GHz, Intel® Thermal Velocity Boost Temperature: 70 °C. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	11th gen Intel® Core™ i9	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i9-11900F	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.5 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Core™ i9	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	5.1 GHz
Processor lithography *	14 nm	Intel® Turbo Boost Technology 2.0 frequency	5 GHz
Processor threads	16	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
System bus rate	8 GT/s	Intel® Thermal Velocity Boost Temperature	70 °C
Processor operating modes *	64-bit	Intel® Thermal Velocity Boost Frequency	5.2 GHz
Processor boost frequency	5.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	16 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel Stable Image Platform Program (SIPP)	✗
Thermal Design Power (TDP)	65 W	Intel® OS Guard	✓
Box *	✓	Intel Software Guard Extensions (Intel SGX)	✗
Memory bandwidth supported by processor (max)	50 GB/s	Intel 64	✓
Processor ARK ID	212254	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	128 GB	Intel Turbo Boost Max Technology 3.0	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ Memory Ready	✓
Memory clock speeds supported by processor	3200 MHz	Intel® Boot Guard	✓
Memory channels *	Dual-channel	Intel® Deep Learning Boost (Intel® DL Boost)	✓
ECC	✗	Intel® vPro™ Platform Eligibility	✗
Memory bandwidth (max)	50 GB/s	Operational conditions	
Graphics		Tjunction	100 °C
On-board graphics card *	✗	Technical details	
Discrete graphics card *	✗	Target market	Gaming, Content Creation
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	Launch date	Q1'21
PCI Express slots version	4.0	Status	Launched
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	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
Harmonized System (HS) code	85423119	Other features	
Export Control Classification Number (ECCN)	5A992CN3	Maximum internal memory	128 GB
Commodity Classification Automated Tracking System (CCATS)	G167599		



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