

Intel Core i9-9900X processor 3.5 GHz 19.25 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code:
BX80673I99900X

Product name : i9-9900X

Intel® Core™ i9-9900X X-series Processor
(19.25M Cache, up to 4.50 GHz)

Intel Core i9-9900X. Processor family: Intel® Core™ i9 X-series, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0, AVX-512, Scalability: 1S. Intel® Turbo Boost Max Technology 3.0 frequency: 4.5 GHz. Package width: 44 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992C
Processor generation	9th gen Intel® Core™ i9	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor model *	i9-9900X	Processor special features	
Processor base frequency *	3.5 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i9 X-series	Intel® Turbo Boost Technology	2.0
Processor cores *	10	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2066 (Socket R4)	Enhanced Intel SpeedStep Technology	✓
Component for	PC	Intel® Turbo Boost Max Technology 3.0 frequency	4.5 GHz
Processor lithography *	14 nm	Intel 64	✓
Processor series	Intel® Core™ X-series	Intel Virtualization Technology (VT-x)	✓
Processor threads	20	Intel Virtualization Technology for Directed I/O (VT-d)	✓
System bus rate	8 GT/s	Intel Turbo Boost Max Technology 3.0	✓
Processor operating modes *	64-bit	Intel® Optane™ Memory Ready	✓
Processor boost frequency	4.4 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	19.25 MB	Operational conditions	
Processor cache type	Smart Cache	Tjunction	92 °C
Thermal Design Power (TDP)	165 W	Technical details	
Box *	✓	Target market	Gaming, Content Creation
Cooler included *	✗	Bus bandwidth	8
Generation	9th Generation	Bus type units	GT/s
Compatible chipsets	Intel® X299	Launch date	Q4'18
Bus type	DMI3	Processor cache	19712 KB
Memory bandwidth supported by processor (max)	85 GB/s	Product type	Processor
Processor codename	Skylake		
Processor ARK ID	189124		
Memory			
Maximum internal memory supported by processor	128 GB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2666 MHz		

Memory		Technical details	
Memory channels *	Quad-channel	Status	Discontinued
ECC	✗	Maximum memory	128 GB
Graphics		Processor brand name	Intel Core i7 X-series Intel Core i7 X-series processor
On-board graphics card *	✗	Supported memory types	DDR4-SDRAM
Discrete graphics card *	✗	Last change	63903513
On-board graphics card model *	Not available	Product family	Intel Core Processors
Discrete graphics card model *	Not available	Intel Turbo Boost Max Technology frequency	4.5 MHz
Features		Bus speed	8 GT/s
Execute Disable Bit	✓	Logistics data	
Market segment	Desktop	Harmonized System (HS) code	85423119
Maximum number of PCI Express lanes	44	Packaging data	
PCI Express slots version	3.0	Package width	44 mm
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Package depth	116 mm
Scalability	1S	Package height	101 mm
CPU configuration (max)	1	Package weight	87 g
Embedded options available	✗	Package type	Retail box
Thermal solution specification	PCG 2017X	Other features	
PCI Express CEM revision	3.0	Maximum internal memory	128 GB
		Maximum internal memory	131072 MB



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