

## Intel Core i9-10900X processor 3.7 GHz 19.25 MB Smart Cache

**Brand :** Intel

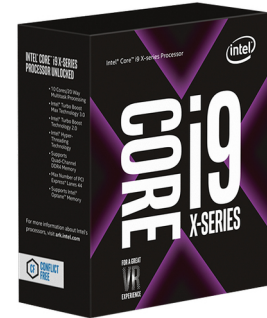
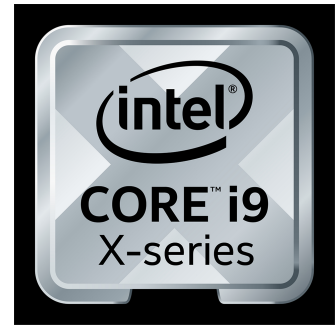
**Product family:** Core

**Product code:**  
CD8069504382100

**Product name :** i9-10900X

Intel Core i9-10900X Processor (19.25MB Cache, up to 4.5 GHz)

Intel Core i9-10900X. 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: 256 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: 4.7 GHz. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Embedded options available	✗
Processor generation	10th gen Intel® Core™ i9	Thermal solution specification	PCG 2017X
Processor model *	i9-10900X	PCI Express CEM revision	3.0
Processor base frequency *	3.7 GHz	Export Control Classification Number (ECCN)	5A992C
Processor family *	Intel® Core™ i9 X-series	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor cores *	10	<b>Processor special features</b>	
Processor socket *	LGA 2066 (Socket R4)	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Component for	PC	Intel® Turbo Boost Technology	2.0
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor threads	20	Enhanced Intel SpeedStep Technology	✓
System bus rate	8 GT/s	Intel® Turbo Boost Max Technology 3.0 frequency	4.7 GHz
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	4.5 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	19.25 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	Intel Turbo Boost Max Technology 3.0	✓
Thermal Design Power (TDP)	165 W	Intel® Optane™ Memory Ready	✓
Box *	✗	AVX-512 Fused Multiply-Add (FMA) units	2
Cooler included *	✗	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Generation	10th Generation		
Memory bandwidth supported by processor (max)	94 GB/s		
Processor codename	Cascade Lake		
Processor ARK ID	198019		
<b>Memory</b>			
Maximum internal memory supported by processor	256 GB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2933 MHz		

Memory		Operational conditions	
Memory channels *	Quad-channel	Tjunction	94 °C
ECC	✘	<b>Technical details</b>	
Graphics		Target market	Gaming, Content Creation
On-board graphics card *	✘	Launch date	Q4'19
Discrete graphics card *	✘	Product type	Processor
On-board graphics card model *	Not available	Status	Launched
Discrete graphics card model *	Not available	Maximum memory	256 GB
Features		Supported memory types	DDR4-SDRAM
Execute Disable Bit	✓	Bus speed	8 GT/s DMI3
Market segment	Desktop	Logistics data	
Maximum number of PCI Express lanes	48	Harmonized System (HS) code	85423119
PCI Express slots version	3.0	Packaging data	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Package type	Retail box
Scalability	1S	Other features	
CPU configuration (max)	1	Maximum internal memory	256 GB



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