

Intel Xeon Silver 4310T processor 2.3 GHz 15 MB

Brand : Intel

Product family: Xeon

Product code:
CD8068904659001

Product name : Silver 4310T

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Intel Xeon Silver 4310T. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 8 GB. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	4310T	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.3 GHz	Intel® Total Memory Encryption	✓
Processor family *	Intel Xeon Silver	Intel® Crypto Acceleration	✓
Processor cores *	10	Intel® Platform Firmware Resilience Support	✓
Processor socket *	LGA 4189	Maximum Enclave Size Support for Intel® SGX	8 GB
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	10 nm	Intel Software Guard Extensions (Intel SGX)	✓
Processor series	Intel Xeon Silver 4000 Series	Intel 64	✓
Processor threads	20	Intel Virtualization Technology (VT-x)	✓
System bus rate	10.4 GT/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.4 GHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor cache	15 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	105 W	Intel® Volume Management Device (VMD)	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✗
Processor codename	Ice Lake		
Processor ARK ID	215283		
Memory		Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tcase	88 °C
Memory channels *	Octa-channel		
ECC	✓	Technical details	
Graphics		Target market	Cloud Computing
On-board graphics card *	✗	Launch date	Q2'21
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Discrete graphics card model *	Not available	Memory speed (max)	2667 MHz
Features		Number of UPI links	2
Execute Disable Bit	✓	Servicing status	Baseline Servicing
Market segment	Server		
Maximum number of PCI Express lanes	64		
PCI Express slots version	4.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	2S		

Features		Logistics data	
Embedded options available	✓	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992CN3	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G178966	Processor package size	77.5 x 56.5 mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	6 TB
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		



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