



DELL Xeon Silver 4310 processor 2.1 GHz 18 MB

Brand : DELL

Product family: Xeon

Product code: 338-CBXX

Product name : Silver 4310

Intel Xeon Silver 4310 Processor (18MB Cache, up to 3.3 GHz)

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The Intel Xeon® Silver 4310 2.1GHz Twelve Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Xeon Silver 4310 2.1GHz Twelve Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	4310	Intel® Speed Shift Technology	✓
Processor base frequency *	2.1 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel Xeon Silver	Intel® Total Memory Encryption	✓
Processor cores *	12	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4189	Intel® Platform Firmware Resilience Support	✓
Component for	Server/workstation	Maximum Enclave Size Support for Intel® SGX	8 GB
Processor lithography *	10 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	24	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	10.4 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.3 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	18 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	120 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Cooler included *	✗	Intel® Resource Director Technology (Intel® RDT)	✓
Processor codename	Ice Lake	Intel® Volume Management Device (VMD)	✓
Processor ARK ID	215277	Mode-based Execute Control (MBE)	✓
Memory		Intel® Optane™ DC Persistent Memory Supported	✗
Maximum internal memory supported by processor	6 TB	Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tcase	82 °C
Memory clock speeds supported by processor	2667 MHz	Technical details	
Memory channels *	Octa-channel	Launch date	Q2'21
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Memory speed (max)	2667 MHz
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		

Features		Technical details	
Maximum number of PCI Express lanes	64	Number of UPI links	2
PCI Express slots version	4.0	Logistics data	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Harmonized System (HS) code	85423119
Scalability	2S	Weight & dimensions	
Embedded options available	✓	Processor package size	77.5 x 56.5 mm
Export Control Classification Number (ECCN)	5A992CN3	Other features	
Commodity Classification Automated Tracking System (CCATS)	G178966	Maximum internal memory	6 TB
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		



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