

Lenovo Xeon Silver 4310 processor 2.1 GHz 18 MB Smart Cache

Brand : Lenovo **Product code:** 4XG7A63425

Product name: Xeon Silver 4310

Intel Xeon Silver Silver 4310 Processor (18MB Cache, up to 3.3 GHz)
Lenovo Xeon Silver 4310. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6.14 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S. Processor package size: 77.5 x 56.5 mm. Compatibility: Lenovo ThinkSystem SR630 V2





Processor		Features	
Processor manufacturer *	Intel	PCI Express slots version	4.0
Processor generation	3rd Generation Intel® Xeon®	Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
•	Scalable	Scalability	2S
Processor model *	4310	Processor special features	
Processor base frequency *	2.1 GHz	Intel® Hyper Threading Technology	
Processor family *	Intel Xeon Silver	(Intel® HT Technology)	✓
Processor cores *	12	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 4189	Intel® AES New Instructions (Intel® AES-NI)	
Component for	Server/workstation		•
Processor lithography *	10 nm	Intel Trusted Execution Technology	✓
Processor threads	24 Ir	Intel® Speed Shift Technology	✓
System bus rate	10.4 GT/s	Intel VT-x with Extended Page	
Processor operating modes *	64-bit	Tables (EPT)	V
Processor boost frequency	3.3 GHz	Intel Software Guard Extensions	/
Processor cache	18 MB	(Intel SGX)	•
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	120 W	Intel Virtualization Technology (VT-	/
Box *	×	x)	
Cooler included *	×	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	M1	AVX-512 Fused Multiply-Add (FMA)	
Processor codename	Ice Lake	units	2
Processor ARK ID	215277	Intel® Deep Learning Boost (Intel®	
Memory		DL Boost) on CPU	•
Maximum internal memory		Intel® Resource Director	1
supported by processor	6.14 TB	Technology (Intel® RDT)	
Memory types supported by		Intel® Volume Management Device (VMD) Mode-based Execute Control (MBE)	✓
processor	DDR4-SDRAM		/
Memory clock speeds supported by	2667 MHz	Mode-pased Execute Control (MBE)	•
processor	200		

Memory	
Memory channels *	Octa-channel
ECC	✓
Graphics	
On-board graphics card *	x
Discrete graphics card *	×
On-board graphics card model *	Not available
Discrete graphics card model *	Not available
Features	
Execute Disable Bit	✓
Market segment	Server
Maximum number of PCI Express lanes	64

Operational conditions		
Tcase	82 °C	
Logistics data		
Harmonized System (HS) code	85423119	
Weight & dimensions		
Processor package size	77.5 x 56.5 mm	
Other features		
Compatibility	Lenovo ThinkSystem SR630 V2	





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