



Lenovo Xeon Silver 4310 processor 2.1 GHz 18 MB Smart Cache

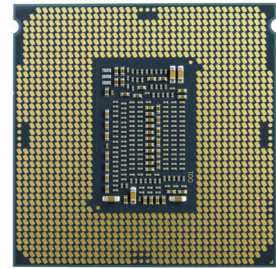
Brand : Lenovo

Product code: 4XG7A63425

Product name : Xeon Silver 4310

Intel Xeon Silver 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® Scalable	Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Processor model *	4310	Scalability	2S
Processor base frequency *	2.1 GHz	Processor special features	
Processor family *	Intel Xeon Silver	Intel® Hyper Threading Technology (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	Intel Trusted Execution Technology	✓
Processor lithography *	10 nm	Intel® Speed Shift Technology	✓
Processor threads	24	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	10.4 GT/s	Intel Software Guard Extensions (Intel SGX)	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.3 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	18 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	Smart Cache	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	120 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Box *	✗	Intel® Resource Director Technology (Intel® RDT)	✓
Cooler included *	✗	Intel® Volume Management Device (VMD)	✓
Stepping	M1	Mode-based Execute Control (MBE)	✓
Processor codename	Ice Lake	Operational conditions	
Processor ARK ID	215277	Tcase	82 °C
Memory			
Maximum internal memory supported by processor	6.14 TB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2667 MHz		
Memory channels *	Octa-channel		

Memory		Logistics data	
ECC	✓	Harmonized System (HS) code	85423119
Graphics		Weight & dimensions	
On-board graphics card *	✗	Processor package size	77.5 x 56.5 mm
Discrete graphics card *	✗		
On-board graphics card model *	Not available	Other features	
Discrete graphics card model *	Not available	Compatibility	Lenovo ThinkSystem SR630 V2
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	64		



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