

Lenovo Xeon Intel Silver 4309Y processor 2.8 GHz 12 MB

Brand : Lenovo

Product family: Xeon

Product code: 4XG7A72930

Processor special features

Product name : Intel Silver 4309Y

Intel Xeon Silver 4309Y Processor (12MB Cache, up to 3.6 GHz)

Lenovo Xeon Intel Silver 4309Y. 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: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 8 GB. Package type: Retail box





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Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	1
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	1
Processor model *	4309Y	Intel [®] Speed Shift Technology	1
Processor base frequency *	2.8 GHz	Intel® Transactional	
Processor family *	Intel Xeon Silver	Synchronization Extensions	1
Processor cores *	8	Intel® Total Memory Encryption	1
Processor socket *	LGA 4189	Intel [®] Crypto Acceleration	1
Component for	Server/workstation	Intel® Platform Firmware Resilience	
Processor lithography *	10 nm	Support	-
Processor threads	16	Maximum Enclave Size Support for	8 GB
System bus rate	10.4 GT/s	Intel® SGX	
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	1
Processor boost frequency	3.6 GHz	Intel Software Guard Extensions	
Processor cache	12 MB	(Intel SGX)	✓
Thermal Design Power (TDP)	105 W	Intel 64	1
Box *	×	Intel Virtualization Technology (VT-	
Cooler included *	×	x)	-
Processor codename	Ice Lake	Intel Virtualization Technology for	1
Processor ARK ID	215275	Directed I/O (VT-d)	
Memory		AVX-512 Fused Multiply-Add (FMA) units	2
Maximum internal memory supported by processor	6.14 TB	Intel [®] Deep Learning Boost (Intel [®] DL Boost) on CPU	1
Memory types supported by processor	DDR4-SDRAM	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	1
Memory clock speeds supported by processor	2667 MHz	Intel [®] Resource Director Technology (Intel [®] RDT)	1
Memory channels *	Octa-channel	Intel® Volume Management Device	
ECC	1	(VMD)	Č.

Graphics		Processor special features		
On-board graphics card *	x	Mode-based Execute Control (MBE)	1	
Discrete graphics card * On-board graphics card model *	× Not available	Intel® Optane™ DC Persistent Memory Supported	×	
Discrete graphics card model *	Not available	Operational conditions		
Features		Tcase	76 °C	
Execute Disable Bit	1	Technical details		
Market segment	Server	Launch date	Q2'21	
Maximum number of PCI Express lanes	64	Status Supported memory types	Launched DDR4-SDRAM	
PCI Express slots version	4.0	Memory speed (max)	2667 MHz	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Number of UPI links	2	
Scalability	25 ×	Logistics data		
Embedded options available		Harmonized System (HS) code	85423119	
Export Control Classification Number (ECCN)	5A992CN3	Packaging data	03423113	
Commodity Classification Automated Tracking System		Package type	Retail box	
(CCATS)				
Processor special features		Processor package size	77.5 x 56.5 mm	
Intel® Hyper Threading Technology (Intel® HT Technology)	1	Other features		
Intel® Turbo Boost Technology	2.0	Maximum internal memory	6 TB	





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