



Lenovo Xeon Intel Silver 4316 processor 2.3 GHz 30 MB

Brand : Lenovo

Product family: Xeon

Product code: 4XG7A63422

Product name : Intel Xeon
Silver 4316



Intel Xeon Silver Silver 4316 Processor (30MB Cache, up to 3.4 GHz)

Lenovo Xeon Intel Silver 4316. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 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. Processor package size: 77.5 x 56.5 mm

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 *	4316	Intel® Speed Shift Technology	✓
Processor base frequency *	2.3 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel Xeon Silver	Intel® Total Memory Encryption	✓
Processor cores *	20	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	40	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	3.4 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	30 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	150 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor codename	Ice Lake	Intel® Resource Director Technology (Intel® RDT)	✓
Processor ARK ID	215270	Intel® Volume Management Device (VMD)	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	6 TB	Intel® Optane™ DC Persistent Memory Supported	✗
Memory types supported by processor	DDR4-SDRAM	Operational conditions	
Memory clock speeds supported by processor	2667 MHz	Tcase	84 °C
Memory channels *	Octa-channel	Technical details	
ECC	✓	Target market	Cloud Computing
Graphics		Launch date	Q2'21
On-board graphics card *	✗	Status	Launched
Discrete graphics card *	✗	Supported memory types	DDR4-SDRAM
On-board graphics card model *	Not available	Memory speed (max)	2667 MHz
Discrete graphics card model *	Not available	Number of UPI links	2
Features			
Execute Disable Bit	✓		
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		

Features		Logistics data	
Scalability	25	Harmonized System (HS) code	85423119
Embedded options available	✓	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992CN3	Processor package size	77.5 x 56.5 mm
Commodity Classification Automated Tracking System (CCATS)	G178966	Other features	
Processor special features		Maximum internal memory	6 TB
Intel® Hyper Threading Technology (Intel® HT Technology)			
Intel® Turbo Boost Technology	2.0		



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