

## Intel Xeon Silver 4316 processor 2.3 GHz 30 MB

Brand : Intel Product family: Xeon Product code: CD8068904656601

Product name: Silver 4316

Intel® Xeon® Silver 4316 Processor (30M Cache, 2.30 GHz)

Intel Xeon 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: 6.14 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





Processor		Processor special features	
Processor manufacturer *	Intel 3rd Generation Intel® Xeon®	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	Scalable	Intel Trusted Execution Technology	✓
Processor model *	4316	Intel® Speed Shift Technology	1
Processor base frequency *	2.3 GHz	Intel® Transactional	<b>√</b>
Processor family *	Intel Xeon Silver	Synchronization Extensions	•
Processor cores *	20	Intel® Total Memory Encryption	1
Processor socket *	LGA 4189	Intel® Crypto Acceleration	1
Component for	Server/workstation	Intel® Platform Firmware Resilience	<b>√</b>
Processor lithography *	10 nm	Support  Maximum Englava Siza Support for	
Processor threads	40	Maximum Enclave Size Support for Intel® SGX	8 GB
System bus rate	10.4 GT/s	Intel VT-x with Extended Page	
Processor operating modes *	64-bit	Tables (EPT)	✓
Processor boost frequency	3.4 GHz	Intel Software Guard Extensions	1
Processor cache	30 MB	(Intel SGX)	•
Thermal Design Power (TDP)	150 W	Intel 64	✓
Box *	×	Intel Virtualization Technology (VT-x)	1
Cooler included *	×	Intel Virtualization Technology for	
Processor codename	Ice Lake	Directed I/O (VT-d)	1
Processor ARK ID	215270	AVX-512 Fused Multiply-Add (FMA)	2
Memory		units	
Maximum internal memory supported by processor	6.14 TB	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Resource Director Technology (Intel® RDT)	✓
Memory clock speeds supported by processor	2667 MHz	Intel® Volume Management Device (VMD)	✓
Memory channels *	Octa-channel	Mode-based Execute Control (MBE)	1
ECC	✓	Intel® Optane™ DC Persistent Memory Supported	×
Graphics		Operational conditions	
On-board graphics card *	×	Tcase	84 °C
Discrete graphics card *	×		
On-board graphics card model *	Not available	Technical details	
Discrete graphics card model *	Not available	Target market	Cloud Computing
Features		Launch date	Q2'21
Execute Disable Bit	1	Status	Launched
Market segment	<b>√</b> Server	Supported memory types	DDR4-SDRAM
•	Jei vei	Memory speed (max)	2667 MHz
Maximum number of PCI Express lanes	64	Number of UPI links	2
PCI Express slots version	4.0	Servicing status	Baseline Servicing

Features		Logistics data	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Harmonized System (HS) code	85423119
Scalability	2S	Packaging data	
Embedded options available	<b>√</b>	Package type	Retail box
Export Control Classification Number (ECCN)	5A992CN3	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G178966	Processor package size	77.5 x 56.5 mm
		Other features	
Processor special features		Maximum internal memory	6 TB

Intel® Hyper Threading Technology (Intel® HT Technology)

Intel® Turbo Boost Technology 2.0

