



Intel® Xeon® Silver 4316 Processor

30M Cache, 2.30 GHz

Spec Code

SRKXH

Ordering Code

CD8068904656601

Intel® Xeon® Silver 4316 Processor (30M Cache, 2.30 GHz)	
Essentials	
Product Collection	3rd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Ice Lake
Vertical Segment	Server
Processor Number	4316
Status	Launched
Launch Date	Q2'21
Lithography	10 nm
Recommended Customer Price	\$1,002.00
CPU Specifications	
# of Cores	20
# of Threads	40
Processor Base Frequency	2.30 GHz
Max Turbo Frequency	3.40 GHz
Cache	30 MB
# of UPI Links	2
TDP	150 W
Supplemental Information	
Embedded Options Available	Yes
Memory Specifications	
Max Memory Size (dependent on memory type)	6 TB
Memory Types	DDR4-2667
Maximum Memory Speed	2667 MHz
Max # of Memory Channels	8
ECC Memory Supported ‡	Yes
Intel® Optane™ Persistent Memory Supported	No
Expansion Options	
Scalability	2S
PCI Express Revision	4
Max # of PCI Express Lanes	64
Package Specifications	
Sockets Supported	FCLGA4189
TCASE	84°C
Package Size	77.5mm x 56.5mm
Advanced Technologies	

Intel® Deep Learning Boost (Intel® DL Boost)	Yes
Intel® Resource Director Technology (Intel® RDT)	Yes
Intel® Speed Shift Technology	Yes
Intel® Turbo Boost Technology ‡	2
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
Intel® Transactional Synchronization Extensions	Yes
Intel® 64 ‡	Yes
Instruction Set Extensions	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units	2
Intel® Volume Management Device (VMD)	Yes
Security & Reliability	
Intel® AES New Instructions	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes with Intel® SPS
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Mode-based Execute Control (MBE)	Yes
Intel® Total Memory Encryption	Yes
Execute Disable Bit ‡	Yes
Intel® Run Sure Technology	Yes
Mode-based Execute Control (MBE)	Yes
Intel® Total Memory Encryption	Yes