



Intel® Xeon® Silver 4314 Processor

24M Cache, 2.40 GHz

Spec Code

SRKXL

Ordering Code

CD8068904655303

Intel® Xeon® Silver 4314 Processor (24M Cache, 2.40 GHz)	
Essentials	
Product Collection	3rd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Ice Lake
Vertical Segment	Server
Processor Number	4314
Status	Launched
Launch Date	Q2'21
Lithography	10 nm
Recommended Customer Price	\$694.00
CPU Specifications	
# of Cores	16
# of Threads	32
Processor Base Frequency	2.40 GHz
Max Turbo Frequency	3.40 GHz
Cache	24 MB
# of UPI Links	2
TDP	135 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	Yes
Expansion Options	
Scalability	2S
PCI Express Revision	4
Max # of PCI Express Lanes	64
Package Specifications	
Sockets Supported	FCLGA4189
TCASE	86°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

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