



# Intel® Xeon® Silver 4116 Processor

16.5M Cache, 2.10 GHz

Spec Code

SR3HQ

Ordering Code

CD8067303567200

## Intel® Xeon® Silver 4116 Processor (16.5M Cache, 2.10 GHz)

Code Name	Skylake
<b><u>Essentials</u></b>	
Vertical Segment	Server
Processor Number	4116
Status	Launched
Launch Date	Q3'17
Lithography	14 nm
Recommended Customer Price	\$1002.00 - \$1012.00
<b><u>Performance</u></b>	
# of Cores	12
# of Threads	24
Processor Base Frequency	2.10 GHz
Max Turbo Frequency	3.00 GHz
Cache	16.5 MB L3
# of UPI Links	2
<b><u>TDP</u></b>	<b><u>85 W</u></b>
Supplemental Information	
Embedded Options Available	Yes
Conflict Free	Yes
Datasheet	<a href="#">Link</a>
<b><u>Product Brief</u></b>	<a href="#">Link</a>
Memory Specifications	
Max Memory Size (dependent on memory type)	768 GB

Memory Types	DDR4-2400
Maximum Memory Speed	2400 MHz
Max # of Memory Channels	6
<b><u>ECC Memory Supported ‡</u></b>	<b><u>Yes</u></b>
Expansion Options	
Scalability	2S
PCI Express Revision	3
<b><u>Max # of PCI Express Lanes</u></b>	<b><u>48</u></b>
Package Specifications	
Sockets Supported	FCLGA3647
T<sub>CASE</sub>	76°C
Package Size	76.0mm x 56.5mm
<b><u>Low Halogen Options Available</u></b>	<b><u>See MDDS</u></b>
Advanced Technologies	
Intel® Optane™ Memory Supported ‡	No
Intel® Speed Shift Technology	Yes
Intel® Turbo Boost Max Technology 3.0 ‡	No
Intel® Turbo Boost Technology	2
Intel® vPro™ Technology ‡	Yes
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® TSX-NI	Yes
Intel® 64 ‡	Yes
Instruction Set Extensions	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units	1
<b><u>Intel® Volume Management Device (VMD)</u></b>	<b><u>Yes</u></b>
Security & Reliability	
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Mode-based Execute Control (MBE)	Yes