



Intel® Xeon® Silver 4210R Processor

13.75M Cache, 2.40 GHz

Spec Code

SRG24

Ordering Code

CD8069504344500

Intel® Xeon® Silver 4210R Processor (13.75M Cache, 2.40 GHz)	
Essentials	
Product Collection	2nd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number	4210R
Status	Launched
Launch Date	Q1'20
Lithography	14 nm
Recommended Customer Price	\$501.00 - \$511.00
Performance	
# of Cores	10
# of Threads	20
Processor Base Frequency	2.40 GHz
Max Turbo Frequency	3.20 GHz
Cache	13.75 MB
# of UPI Links	2
TDP	100 W
Supplemental Information	
Embedded Options Available	Yes
Memory Specifications	
Max Memory Size (dependent on memory type)	1 TB
Memory Types	DDR4-2400
Maximum Memory Speed	2400 MHz
Max # of Memory Channels	6
ECC Memory Supported ‡	Yes
Intel® Optane™ DC Persistent Memory Supported	No
Expansion Options	
Scalability	2S
PCI Express Revision	3
Max # of PCI Express Lanes	48
Package Specifications	
Sockets Supported	FCLGA3647

TCASE	84°C
Package Size	76.0mm x 56.5mm
Advanced Technologies	
Intel® Deep Learning Boost (Intel® DL Boost)	Yes
Intel® Speed Select Technology - Performance Profile	No
Intel® Speed Select Technology - Base Frequency	No
Intel® Resource Director Technology (Intel® RDT)	Yes
Intel® Speed Shift Technology	Yes
Intel® Turbo Boost Max Technology 3.0 ‡	No
Intel® Turbo Boost Technology ‡	2
Intel® vPro™ Platform Eligibility ‡	Yes
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	1
Enhanced Intel SpeedStep® Technology	Yes
Intel® Volume Management Device (VMD)	Yes
Security & Reliability	
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® Run Sure Technology	No
Mode-based Execute Control (MBE)	Yes