

Intel® Xeon® Gold 5215 Processor (13.75M Cache 2.50 GHz)

Essentials	
Product Collection	2nd Gen Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number	5215
Lithography	14 nm
Recommended Customer Price	\$1424.00

CPU Specifications	
Total Cores	10
Total Threads	20
Max Turbo Frequency	3.40 GHz
Processor Base Frequency	2.50 GHz
Cache	13.75 MB
Max # of UPI Links	2
TDP	85 W

Supplemental Information	
Marketing Status	Launched
Launch Date	Q2'19
Servicing Status	Baseline Servicing
Embedded Options Available	Yes
Use Conditions	Server/Enterprise
Product Brief	View now

Memory Specifications	
Max Memory Size (dependent on memory type)	1 TB
Memory Types	DDR4-2667
Maximum Memory Speed	2667 MHz
Max # of Memory Channels	6
Intel® Optane™ Persistent Memory Supported	Yes
ECC Memory Supported ‡	Yes

Expansion Options	
Scalability	4S
PCI Express Revision	3
Max # of PCI Express Lanes	48

Package Specifications	
Sockets Supported	FCLGA3647
TCASE	77°C
Package Size	76.0mm x 56.5mm

Advanced Technologies	
Intel® Volume Management Device (VMD)	Yes
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	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® Hyper-Threading Technology ‡	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

Security & Reliability	
Intel vPro® Eligibility ‡	Intel vPro® Platform
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® Run Sure Technology	Yes
Mode-based Execute Control (MBEC)	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