

## Essentials

Product Collection	2nd Gen Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number <a href="#">?</a>	6234
Lithography <a href="#">?</a>	14 nm
Recommended Customer Price <a href="#">?</a>	\$2607.00-\$2613.00

## CPU Specifications

Total Cores <a href="#">?</a>	8
Total Threads <a href="#">?</a>	16
Max Turbo Frequency <a href="#">?</a>	4.00 GHz
Processor Base Frequency <a href="#">?</a>	3.30 GHz
Cache <a href="#">?</a>	24.75 MB
Max # of UPI Links <a href="#">?</a>	3
TDP <a href="#">?</a>	130 W

## Supplemental Information

Marketing Status	Launched
Launch Date <a href="#">?</a>	Q2'19
Servicing Status <a href="#">?</a>	Baseline Servicing
Embedded Options Available <a href="#">?</a>	No
Product Brief	<a href="#">View now</a>

## Memory Specifications

Max Memory Size (dependent on memory type) <a href="#">?</a>	1 TB
Memory Types <a href="#">?</a>	DDR4-2933
Maximum Memory Speed	2933 MHz
Max # of Memory Channels <a href="#">?</a>	6
Intel® Optane™ Persistent Memory Supported <a href="#">?</a>	Yes
ECC Memory Supported <sup>†</sup> <a href="#">?</a>	Yes

## Expansion Options

Scalability	4S
PCI Express Revision <a href="#">?</a>	3.0
Max # of PCI Express Lanes <a href="#">?</a>	48

## Package Specifications

Sockets Supported <a href="#">?</a>	FCLGA3647
T <sub>CASE</sub> <a href="#">?</a>	79°C
Package Size	76.0mm x 56.5mm

## Advanced Technologies

Intel® Deep Learning Boost (Intel® DL Boost) on CPU <a href="#">?</a>	Yes
Intel® Speed Select Technology - Performance Profile <a href="#">?</a>	No
Intel® Speed Select Technology - Base Frequency <a href="#">?</a>	No
Intel® Resource Director Technology (Intel® RDT) <a href="#">?</a>	Yes
Intel® Speed Shift Technology <a href="#">?</a>	Yes
Intel® Turbo Boost Max Technology 3.0 <sup>†</sup> <a href="#">?</a>	No
Intel® Turbo Boost Technology <sup>†</sup> <a href="#">?</a>	2.0
Intel® Hyper-Threading Technology <sup>†</sup> <a href="#">?</a>	Yes
Intel® Transactional Synchronization Extensions <a href="#">?</a>	Yes
Intel® 64 <sup>†</sup> <a href="#">?</a>	Yes
Instruction Set Extensions <a href="#">?</a>	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units <a href="#">?</a>	2
Enhanced Intel SpeedStep® Technology <a href="#">?</a>	Yes
Intel® Volume Management Device (VMD) <a href="#">?</a>	Yes

## Security &amp; Reliability

Intel vPro® Eligibility <sup>†</sup> <a href="#">?</a>	Intel vPro® Platform
Intel® AES New Instructions <a href="#">?</a>	Yes
Intel® Trusted Execution Technology <sup>†</sup> <a href="#">?</a>	Yes
Execute Disable Bit <sup>†</sup> <a href="#">?</a>	Yes
Intel® Run Sure Technology <a href="#">?</a>	Yes
Mode-based Execute Control (MBEC) <a href="#">?</a>	Yes
Intel® Virtualization Technology (VT-x) <sup>†</sup> <a href="#">?</a>	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <sup>†</sup> <a href="#">?</a>	Yes
Intel® VT-x with Extended Page Tables (EPT) <sup>†</sup> <a href="#">?</a>	Yes