



# Intel® Xeon® Gold 6238T Processor


30.25M Cache, 1.90 GHz

Spec Code

SRF9C

Ordering Code

CD8069504200401

<b>Essentials</b>	
Product Collection	2nd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number	6238T
Status	Launched
Launch Date	Q2'19
Lithography	14 nm
Use Conditions	Communications Commercial Temp
Recommended Customer Price	\$2742.00
<b>Performance</b>	
# of Cores	22
# of Threads	44
Processor Base Frequency	1.90 GHz
Max Turbo Frequency	3.70 GHz
Cache	30 MB
# of UPI Links	3
TDP	125 W
<b>Supplemental Information</b>	
Embedded Options Available	Yes
<b>Memory Specifications</b>	
Max Memory Size (dependent on memory type)	1 TB
Memory Types	DDR4-2933
Maximum Memory Speed	2933 MHz
Max # of Memory Channels	6
ECC Memory Supported 	Yes
Intel® Optane™ DC Persistent Memory Supported	Yes
<b>Expansion Options</b>	
Scalability	4S

PCI Express Revision	3.0
Max # of PCI Express Lanes	48
<b><u>Package Specifications</u></b>	
Sockets Supported	FCLGA3647
TCASE	90°C
Package Size	76.0mm x 56.5mm
<b><u>Advanced Technologies</u></b>	
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 ‡	2.0
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® TSX-NI	Yes
Intel® 64 ‡	Yes
Instruction Set Extensions	Intel® AVX-512
# of AVX-512 FMA Units	2
Enhanced Intel SpeedStep® Technology	Yes
Intel® Volume Management Device (VMD)	Yes
<b><u>Security &amp; Reliability</u></b>	
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® Run Sure Technology	Yes
Mode-based Execute Control (MBE)	Yes