



Intel® Xeon® Gold 6230T Processor

27.5M Cache, 2.10 GHz

Spec Code

SRFPS

Ordering Code

CD8069504283704

Intel® Xeon® Gold 6230T Processor (27.5M Cache, 2.10 GHz)

Essentials	
Product Collection	2nd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number	6230T
Status	Launched
Launch Date	Q2'19
Lithography	14 nm
Recommended Customer Price	\$1988.00
Performance	
# of Cores	20
# of Threads	40
Processor Base Frequency	2.10 GHz
Max Turbo Frequency	3.90 GHz
Cache	28 MB
# of UPI Links	3
TDP	125 W
Supplemental Information	
Embedded Options Available	Yes
Memory Specifications	
Max Memory Size (dependent on memory)	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 Sup	Yes
Expansion Options	
Scalability	4S

PCI Express Revision	3.0
Max # of PCI Express Lanes	48
<u>Package Specifications</u>	
Sockets Supported	FCLGA3647
TCASE	92°C
Package Size	76.0mm x 56.5mm
<u>Advanced Technologies</u>	
Intel® Deep Learning Boost (Intel® DL Boost)	Yes
Intel® Speed Select technology - Performance	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	Yes
Intel® VT-x with Extended Page Tables (EPT)	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	2
Enhanced Intel SpeedStep® Technology	Yes
Intel® Volume Management Device (VMD)	Yes
<u>Security & Reliability</u>	
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
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O	Yes
Intel® VT-x with Extended Page Tables (EPT)	Yes
Intel® TSX-NI	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.1, Intel® SSE4.2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes

Intel® Stable Image Platform Program (SIPP)	No
Security & Reliability	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes
Intel® Memory Protection Extensions (Intel® MPX)	No
Intel® OS Guard	No
Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes
Intel® Boot Guard	Yes