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Understanding [Embedded - Microprocessors](#)

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

Applications of [Embedded - Microprocessors](#)

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

Details

Product Status	Discontinued at Digi-Key
Core Processor	Xeon Gold 6130T
Number of Cores/Bus Width	16 Core, 64-Bit
Speed	2.1GHz
Co-Processors/DSP	-
RAM Controllers	DDR4
Graphics Acceleration	No
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	3647-LGA Module
Supplier Device Package	3647-FCLGA (76x56.5)
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpxe-2-1-22m36a



Intel® Xeon® Gold 6130T Processor

22M Cache, 2.10 GHz

Spec Code

SR3J8

Ordering Code

CD8067303593000

Intel® Xeon® Gold 6130T Processor (22M Cache, 2.10 GHz)

Code Name	Skylake
<u>Essentials</u>	
Vertical Segment	Server
Processor Number	6130T
Status	Launched
Launch Date	Q3'17
Lithography	14 nm
Recommended Customer Price	\$1988.00
<u>Performance</u>	
# of Cores	16
# of Threads	32
Processor Base Frequency	2.10 GHz
Max Turbo Frequency	3.70 GHz
Cache	22 MB L3
# of UPI Links	3
<u>TDP</u>	<u>125 W</u>
Supplemental Information	
Embedded Options Available	Yes
Conflict Free	Yes
Datasheet	Link
<u>Product Brief</u>	Link
Memory Specifications	
Max Memory Size (dependent on memory type)	768 GB

Memory Types	DDR4-2666
Maximum Memory Speed	2.67 GHz
Max # of Memory Channels	6
<u>ECC Memory Supported ‡</u>	<u>Yes</u>
Expansion Options	
Scalability	S4S
PCI Express Revision	3.0
<u>Max # of PCI Express Lanes</u>	<u>48</u>
Package Specifications	
Sockets Supported	FCLGA3647
T_{CASE}	92°C
Package Size	76.0mm x 56.5mm
<u>Low Halogen Options Available</u>	<u>See MDDS</u>
Advanced Technologies	
Intel® Optane™ Memory Supported ‡	No
Intel® Speed Shift Technology	Yes
Intel® Turbo Boost Max Technology 3.0 ‡	No
Intel® Turbo Boost Technology	2.0
Intel® vPro™ Technology ‡	Yes
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	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
<u>Intel® Volume Management Device (VMD)</u>	<u>Yes</u>
Security & Reliability	
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Intel® Run Sure Technology	Yes
Mode-based Execute Control (MBE)	Yes