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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 Silver 4109T
Number of Cores/Bus Width	8 Core, 64-Bit
Speed	2.0GHz
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	<a href="https://www.e-xfl.com/product-detail/advantech/96mpxe-2-0-11m36">https://www.e-xfl.com/product-detail/advantech/96mpxe-2-0-11m36</a>



# Intel® Xeon® Silver 4109T Processor

11M Cache, 2.00 GHz

Spec Code

SR3GP

Ordering Code

CD8067303562200

## Intel® Xeon® Silver 4109T Processor (11M Cache, 2.00 GHz)

Code Name	Skylake
<b><u>Essentials</u></b>	
Vertical Segment	Server
Processor Number	4109T
Status	Launched
Launch Date	Q3'17
Lithography	14 nm
Recommended Customer Price	\$501.00
<b><u>Performance</u></b>	
# of Cores	8
# of Threads	16
Processor Base Frequency	2.00 GHz
Max Turbo Frequency	3.00 GHz
Cache	11 MB L3
# of UPI Links	2
<b><u>TDP</u></b>	<b><u>70 W</u></b>
Supplemental Information	
Embedded Options Available	Yes
Conflict Free	Yes
Datasheet	<a href="#">Link</a>
<b><u>Product Brief</u></b>	<a href="#">Link</a>
Memory Specifications	
Max Memory Size (dependent on memory type)	768 GB

Memory Types	DDR4-2400
Maximum Memory Speed	2400 MHz
Max # of Memory Channels	6
<b><u>ECC Memory Supported ‡</u></b>	<b><u>Yes</u></b>
Expansion Options	
Scalability	2S
PCI Express Revision	3
<b><u>Max # of PCI Express Lanes</u></b>	<b><u>48</u></b>
Package Specifications	
Sockets Supported	FCLGA3647
T<sub>CASE</sub>	90°C
Package Size	76.0mm x 56.5mm
<b><u>Low Halogen Options Available</u></b>	<b><u>See MDDS</u></b>
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
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	1
<b><u>Intel® Volume Management Device (VMD)</u></b>	<b><u>Yes</u></b>
Security & Reliability	
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Mode-based Execute Control (MBE)	Yes