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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 5119T
Number of Cores/Bus Width	14 Core, 64-Bit
Speed	1.9GHz
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-1-9-19m36">https://www.e-xfl.com/product-detail/advantech/96mpxe-1-9-19m36</a>



# Intel® Xeon® Gold 5119T Processor

19.25M Cache, 1.90 GHz

Spec Code

SR3MN

Ordering Code

CD8067303567703

## Intel® Xeon® Gold 5119T Processor (19.25M Cache, 1.90 GHz)

Code Name	Skylake
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### **Essentials**

Vertical Segment	Server
Processor Number	5119T
Status	Launched
Launch Date	Q3'17
Lithography	14 nm
Recommended Customer Price	\$1,555.00

### **Performance**

# of Cores	14
# of Threads	28
Processor Base Frequency	1.90 GHz
Max Turbo Frequency	3.20 GHz
Cache	19.25 MB L3
# of UPI Links	2
TDP	85 W

### **Supplemental Information**

Embedded Options Available	Yes
Conflict Free	Yes
Datasheet	<a href="#">Link</a>
Product Brief	<a href="#">Link</a>

### **Memory Specifications**

Max Memory Size (dependent on memory type)	768 GB
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Memory Types	DDR4-2400
Maximum Memory Speed	2400 MHz
Max # of Memory Channels	6
ECC Memory Supported ‡	Yes
<b>Expansion Options</b>	
Scalability	S4S
PCI Express Revision	3
Max # of PCI Express Lanes	48
<b><u>Package Specifications</u></b>	
Sockets Supported	FCLGA3647
T<sub>CASE</sub>	90°C
Package Size	76.0mm x 56.5mm
Low Halogen Options Available	See MDDS
<b><u>Advanced Technologies</u></b>	
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
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