Industrial IoT Communication Gateway
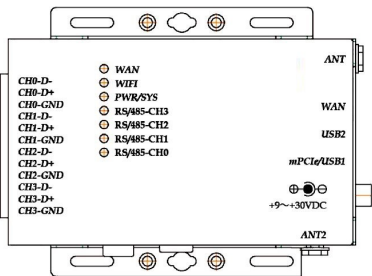
4G/LTE-CAT1 (T-Mobile connectivity) Wi-Fi

SBC-700 is a compact size, low power, cost effective and high-performance Programmable Gateway, it is designed to be the interface between devices and internet cloud (D2C), for sensors to Server. Also, based on Linux supported, it's easy to develop your application on SBC-700 platform to offer your own connected products that are reliable and time-to-market.

SBC-700

The SBC-700 default equipped with Telit LE910C1-NF mPCIe certified by T-Mobile, also with Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BeiDou, Galileo and QZSS) combines a 32-bit low power, high performance CPU, Low Power DDR-RAM, 10/100M Base-T Ethernet, 2.4GHz 802.11b/g/n WiFi, USB 2.0 ports, and 2 or 4 ports(option) isolation RS485 with auto-flow control. There is a min-iPCIe socket inside SBC700 for user to enable the LPWA, 4G/LTE or LTE-A wireless communication capability, also the USB port can support TW-UIO modules used to collect signal and control the system, like AI/AO/DI/DO with/without isolation features.

For the IoT and M2M market, SBC-700 is the best choice of network communication gateway to connect your devices to internet and gain Cloud service advantage.

Tri Cascade® Inc.

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Authorized IoT Service Provider

Reliable Connectivity

The SBC-700 supports 4G/LTE Category 1, FDD LTE: B12, B14, B4, B2 B5, B13, B66, B71 which enables the next generation connectivity for a number of mission critical applications. Supporting all major 4G bands, the SBC-700 is the perfect device choice for deployments across the globe.

EXPANDING CAPABILITIES WITH CUSTOM SOFTWARE APPLICATIONS

The SBC-700 features the Linux based Tri Cascade OS, empowering solution architects and system integrators to create their own applications using Tri Cascade's Software Development Kit (SDK).

RELIABLE ASSET TRACKING

Built-in high-performance GPS enables the SBC-700 to track and monitor vehicles, trucks, heavy construction machines

SBC-700 Hardware Specifications

System	
Processor	MIPS24KEc 32bits Processor – 580MHz
Memory	DDR2 RAM 128MB
Flash	Flash 32MB
WiFi	2.4GHz 802.11 b/g/n with SMA Antenna
MiniPCIe and SIM Socket	Telit LE910C1/C4-NF
T-Mobile 4G-CAT1 MiniPCIe Card	Support Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE, The supported bands are as: FDD LTE: B12, B14, B4, B2 B5, B13, B66, B71 WCDMA: B2/B4/B5
Serial Port	Isolation, RS485 x2 or x4 ports (option) with Auto-Flow.
Ethernet	10/100 Base-T Ethernet x1 port.
USB	USB 2.0 Host Type A x2 ports for data log and function extend.
Power Supply	DC input: +9Vdc ~ +30Vdc (default +12Vdc) @ 1.5A, DC Jack: 5.5/2.5mm (inner/outer size) with screw
OS support	Linux v4.x above
Mechanical	
Construction	Rugged Aluminum Metal chassis
Color	Black
Mounting	Wall-mount, DIN rail
Dimension	75(W) x 28(H) x 125(L) mm
Net weight	300 g
Environment	
Operating Temp.	-20℃ ~ 50 ℃, under 95% RH
Storage Temp.	-20℃ ~ 80 ℃, under 95% RH
Anti-Vibration	1 G / 5 ~ 500Hz / random operation
Anti-Shock	2 G peak acceleration
Warranty	2 years

Optional Selection

SBC700[1]S[2]E[3]

[1] = i		Isolation
= n		Non-Isolation
[2] = 1		if [1] = i, 1 = 1x port isolation RS485, if [1] = n, N/A
= 2		if [1] = i, 2 = 2x port isolation RS485, if [1] = n, 2x ports RS232
= 4		if [1] = i, 4 = 4x port isolation RS485, if [1] = n, 2x ports RS232 + 2x ports RS485
[3] = 1		Built-in WiFi
= 2		Built-in WiFi and 4G/LTE

Examples:

SBC700iS2E1	2x port isolation RS485, WiFi supported.
SBC700nS2E2	Non-Isolation 2x port RS232 + 2x port RS485, WiFi and 4G/LTE included.

About Tri Cascade, Inc.

Tri Cascade Inc. is the authorized T-Mobile IoT Service Provider a California corporation based in Newport Beach, with design and manufacturing facilities in Taiwan. We bring leading-edge IoT solutions and innovations, through our various patented IoT devices, to homes, hotels, office buildings, businesses and local governments seeking Smart Management with Energy Conversation– creating both individual and regional Smart Network Systems, which in turn establish Smart Cities. Our Management team has extensive years of innovation experience in Energy Efficiency Management, Home Wireless Networking, Home Automation and Device Control Systems, as well as B2B customer services.

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