

# TRITOM<sup>®</sup>

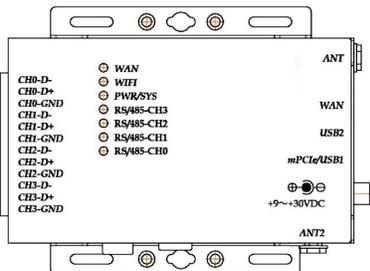
## CAT1 IoT Gateway

### Industrial IoT Communication Gateway

### 4G/LTE-CAT1 (T-Mobile)-WiFi

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 certified by T-Mobile equipped with Qualcomm<sup>®</sup> 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, MicroSD socket for storage extension and 2x or 4x ports auto-flow control RS485 with isolation. There is a miniPCIe socket inside SBC700 for user to adapt the 4G/LTE 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.



**Authorized IoT Service Provider**

Tri Cascade Inc<sup>®</sup>  
Taking Internet of Things Further

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### Reliable Connectivity

The SBC-700 supports 4G LTE Category 1, FDD LTE: B2/B4/B12 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	
<b>Processor</b>	MIPS24KEc 32bits Processor – 580MHz
<b>Memory</b>	DDR2 RAM 128MB
<b>Flash</b>	Flash 32MB
<b>Wi-Fi</b>	2.4GHz 802.11 b/g/n with SMA Antenna
<b>MiniPCIe Socket</b>	Support 4G/LTE, CAT-M, NB-IOT modules
<b>T-Mobile 4G-CAT-1 mPCIe</b>	Support Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE, The supported Bands as: <b>FDD LTE: B2/B4/B12</b> WCDMA: B2/B4/B5
<b>Serial Port</b>	Isolation, RS485 x2 or x4 ports with Auto-Flow.
<b>Ethernet</b>	10/100 Base-T Ethernet x1 port.
<b>USB</b>	USB 2.0 Host Type A x2 ports external (one shared) USB 2.0 Host connector x1 port internal
<b>Power Supply</b>	DC input: +9Vdc ~ +30Vdc
<b>OS support</b>	Linux v4.x above
Mechanical	
<b>Construction</b>	Rugged Aluminum Metal chassis
<b>Color</b>	Black
<b>Mounting</b>	Wall-mount, DIN rail
<b>Dimension</b>	70(W) x 25(H) x 120(L) mm
<b>Net weight</b>	0.3 kg
Environment	
<b>Operating Temp.</b>	-20°C ~ 50 °C, under 95% RH
<b>Storage Temp.</b>	-20°C ~ 80 °C, under 95% RH
<b>Anti-Vibration</b>	1 G / 5 ~ 500Hz / random operation
<b>Anti-Shock</b>	10 G peak acceleration
<b>Warranty</b>	1 years

\* Specification is subjected to change according to existing system.

## 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				
<b>Examples:</b>					
<b>SBC700iS2E1</b>	2x port isolation RS485, WiFi supported.				
<b>SBC700nS2E2</b>	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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