EVALUATION KITS

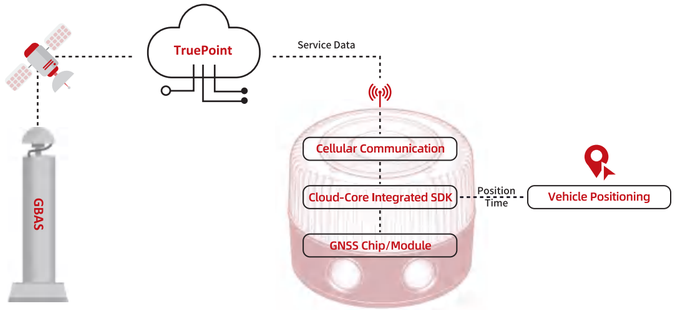
CC7100W EVK

CC7100Q EVK

TEST TOOL

iNavTool

CLOUD-CHIP INTEGRATED SOLUTION



Precise Positioning Makes IOT Communication Smarter

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2026 March

a BDStar company

Traffic Emergency Beacon

ABOUT US

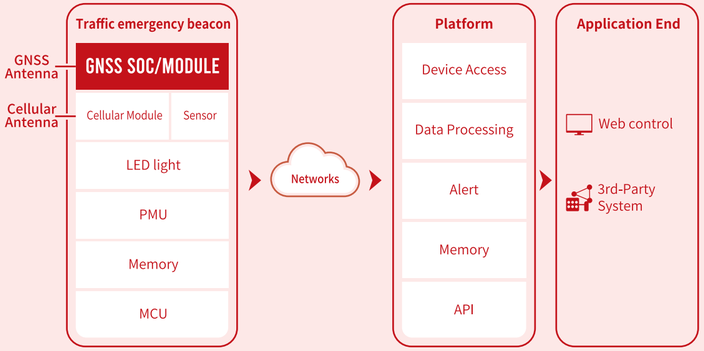
ICOE (Shanghai) Technology is a leading provider of positioning chips and full-stack solutions, specializing in location-based services. We deliver intelligent, reliable positioning chips and customized solutions for the global IoT and consumer electronics markets.

Leveraging on our core strengths in ultra-low power consumption, high performance, and compact design, our products are widely used in wearables, smart IoT devices, and other fields worldwide.

TRAFFIC EMERGENCY BEACON

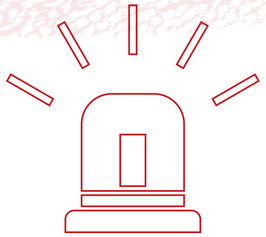
The traffic emergency beacon market is strongly driven by government regulations, replacing traditional warning triangles with a new type of smart device connected emergency beacon. This policy is primarily aimed at enhancing road safety and enabling intelligent upgrades. Once activated, the beacon automatically transmits the vehicle's precise location to the traffic management platform. This product has high requirements for power consumption, positioning accuracy, and network real-time performance. ICOE focuses on IoT industry, leveraging its technological advantages in low power consumption, high performance and compact size to deliver accurate positioning for traffic emergency beacons.

TRAFFIC EMERGENCY BEACON SOLUTION



TRAFFIC EMERGENCY BEACON - CC7100W

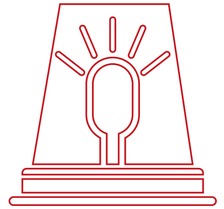
- Super small size, suitable for size sensitive applications
- Adaptive anti-jamming capability
- Real-time and predicted A-GNSS
- ROM based, supporting dynamic Loading mode



Frequency	Single-band L1
Constellation	GPS/BDS/GLONASS/Galileo/QZSS
Tracking Power Consumption	<22mW
AGNSS TTFF (Cold Start)	3s
Cold Start Sensitivity	-149dBm
Tracking Sensitivity	-165dBm
Positioning Accuracy	1.5m
Velocity Accuracy	0.1m/s
Interfaces	UART×2, I²C×1, SPI×1
Package	WLCSP: 1.8 × 2.1 × 0.5 (mm)

TRAFFIC EMERGENCY BEACON - CC7100Q

- Software optimized for weak signal scenarios
- Adaptive anti-jamming capability
- Real-time and predicted A-GNSS
- On-chip flash, supporting OTA upgrade



Frequency	Single-band L1
Constellation	GPS/BDS/GLONASS/Galileo/QZSS
Tracking Power Consumption	<22mW
AGNSS TTFF (Cold Start)	3s
Cold Start Sensitivity	-149dBm
Tracking Sensitivity	-165dBm
Positioning Accuracy	1.5m
Velocity Accuracy	0.1m/s
Interfaces	UART×2, I²C×1, SPI×1
Package	QFN: 4.4 × 4 × 0.75 (mm)