

GT117U

LTE Advanced Tracker



LTE Cat.M1

Different Modules for
Different Regions

GNSS

Support Multi-Constellation
GNSS

2×HS-CAN

Double CAN Channels for
Enhanced OEM PID Reading

Security

Enhanced Encryption Algorithm

Functions

Remote Trip Tracking and
Vehicle State Monitoring

eSIM

eSIM Optional

Multiple Sensors

Built-in 3-axis G-sensor and 3-
axis Gyro

BLE

Support BLE Accessories



Cold Chain
Logistics



Fleet
Management



Transportation
Management

GT117U LTE Advanced Tracker provide variety of external interfaces, including RS232/RS485, 1-wire, CAN BUS and other I/O. With built-in sensor and standalone GNSS chipset, GT117U LTE advanced tracker can monitor driver behavior, towing and support to track the vehicle in real time.

GT117U can be expanded to many applications, such as Cold Chain logistics, Fleet Management, Transportation Management etc.



General Features

Dimension	103.2×70.8×17.8mm
Weight	About 100g

Operating Environment

Operating Temperature	-30°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Humidity	5%~95% RH

Physical Interface

ACC	1
Digital Input	3
Analog Input	1
Digital Output	3
Digital Output	1 open drain with 150mA max driver current
I/O	1 can be configured as 0~32V analog input or an open drain output with 150mA max driver current
RS-485	1
RS-232	1
HS-CAN	2
1-Wire	1
GNSS Antenna	Optional external GNSS antenna with FAKRA interface
USB	2.0 Type C
LED	GNSS/Cell/Power
SIM	4FF or eSIM

Network & Connectivity

North America Version	LTE Cat.M1: B2, B4, B5, B12, B13, B25, B26, B66
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Data Transfer

Cat.M1	Max 588kbps(DL)/Max 1119kbps(UL)
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Transmit Power

LTE	Power class 5 for North America Version
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GNSS

GNSS	GPS, GLONASS, Galileo, BeiDou, SBAS and QZSS
Sensitivity	-162dBm
Accuracy	<1.5m@CEP50
Hot Start	<1s
Cold Start	<28s

BLE

Specification	5.3
Support Accessories	TPMS, Temperature and Humidity sensor, BLE Tag

Functions

Location	GNSS/A-GPS(optional)/LBS
Time Synchronization	GNSS/NTP
Sensors	Built-in 3-axis G-sensor and 3-axis gyro. Used for motion detection, crash detection
CAN	2 HS-CAN channels. Used for vehicle data collection.
Ignition Detection	ACC/GNSS/Main power ADC/Engine RPM
Sleep Mode	Automatically enter sleep mode when IGN off
Configuration	Cloud/Cable/BLE
FW update	FOTA/Cable

Power Supply

Voltage	8~32V
Battery Capacity	220mAh(Li-ion)

CAUTION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.