



PRODUCT SPECIFICATION

Motorcycle/Vehicle Tracker

GTR-391 Series

(4G LTE Cat.1)

VER: 1.0



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General Description

GTR-391 series is designed as durable and multi-functional highly efficient Cat 1 LTE connectivity GPS tracker enabling simple, flexible and scalable migration from 2G and 3G to 4G.

A wide range of customize protocols, industry-standard interfaces and vehicle functionalities (such as RS-232, RS-485, OBDII and CANBus) allow the GTR-391 serve a wide range of IoT applications including environmental monitoring, asset tracking, fleet management, and battery systems.

Features

- Multi-band LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage
- 820mAh rechargeable battery
- GNSS
- Compact size and Waterproof IPX7 design
- Built-in high sensitivity GPS/Cellular antennas
- Built-in motion sensor
- Support cell ID
- Multiple I/Os support :
 - ACC detection
 - RS-232/ RS-485/ CANBus Transmission (Option: Choose one of three)
 - Digital Input for custom function or optional emergency button
- Configuration and firmware update via Over-The-Air
- Support communication protocols- TCP/HTTP/HTTPS/SMS
- Installation by Double-side Tape & Velcro Tape
- Perfect power management control
- Thermal solution with IPX7 design and waterproof cable connector

Product Model

GTR – 3 9 1 E C

→ **Transceiver I/O**

C : CANBus

R : RS232

S : RS485

N : N/A

→ **Region**

A : North America and Canada

E : EMEA, Europe, Taiwan, Australia & New Zealand

U : Europe, Brazil, Australia & New Zealand

Specification

| | |
|-------------------------------|--|
| MCU | STMicroelectronics Solution |
| External Flash Memory | 32MB for Data buffer & debug log |
| GPS | QUECTEL GNSS Solution |
| GPS Frequency | L1 frequency (1575.42 MHz) |
| GPS Antenna | Built-in patch ceramics antenna |
| Cellular Antenna | Built-in Pi-Fa antenna |
| LTE Module | <p>GTR-391E : Europe LTE Band 1, 3, 7, 8, 20, 28 (700, 800, 900, 1800, 2100, 2600 MHz) WCDMA Band 1, 8 (900, 2100MHz) GSM/EDGE Band 3, 8 (900, 1800MHz)</p> <p>GTR-391A : US LTE Band 2, 4, 5, 12, 13, 25, 26 (700, 850, 1700, 1900MHz) WCDMA Band 2, 4, 5 (850, 1700, 1900 MHz)</p> <p>GTR-391U : AUS LTE Band 1, 2, 3, 4, 5, 7, 8, 28, 66 (700, 850, 900, 1700, 1800, 1900, 2100, 2600 MHz) WCDMA Band 1, 2, 5, 8 (850, 900, 1900, 2100MHz) GSM/EDGE Band 1, 3, 5, 8 (850, 900, 1800, 2100MHz)</p> |
| Indicator LED | Red/Green/Orange |
| Communication Protocol | TCP/HTTP/HTTPS/ SMS |
| Transceiver Interface | RS-232 / RS-485 / CANBus (Choose one of three) |
| Back-up Battery | 820mAh rechargeable |
| Sensor | G-sensor for Motion detect |
| SIM Type | Nano SIM or eSIM |
| Button | Reset (short press) |
| Unit Weight | 65g |
| Unit Size | L107.5mm x W38.7mm x H22.8mm |
| Operating Temperature | -30°C~85°C |
| Storage Temperature | -40°C~90°C |
| Humidity | 5% ~95% Non-condensing |
| Certification | TBD |
| External GPS ANT | MMCX or SMA Connector (HW reserve) |

8Pin I/O Support

| | |
|--|---|
| Power Input | DC +12V ~ +24V |
| | GND |
| Ignition (ACC) Input | Positive trigger |
| Digital Input | Negative trigger (Option: Emergency button) |
| RS-232/RS-485/CANBus (Option: Choose one of three) | Transmission Input |
| | Transmission Output |
| | GND |

WARNING:

In a confined space of the car, there is a big different temperature between inside and outside of the car. In addition, it is also considerable temperature difference between tracker's interior and exterior. Therefore, if you put a tracker in the car, please make sure to place it with good ventilation.

Accessories

- Main Cable
- 8-Pin Hard Wire Power & I/O Cable
- Velcro Tape *2pcs (Optional)
- External Emergency Button(Optional)
- OBDII Power Cable(Optional)
- Cigar Lighter Power Cable (Optional)
- Firmware Update & Debug Cable(Optional)
- Test Box (Optional)