

# PRODUCT SPECIFICATION Motorcycle/Vehicle Tracker GTR-391 Series (4G LTE Cat.1)

**VER: 1.0** 



#### **GlobalSat WorldCom Corporation**

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### **General Description**

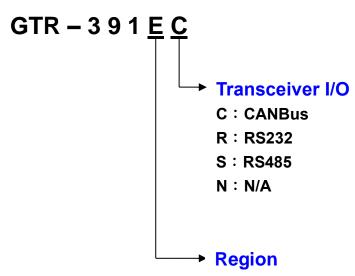
GTR-391 series is designed as durable and multi-functional highly efficient Cat 1 LTE connectivity GPS tracker enabling simple, flexible and scalable migration from 2G and 3G to 4G.

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**



A: North America and Canada

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

U: Europe, Brazil, Australia & New Zealand

# **Specification**

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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	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)
	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)
	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)
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

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