RIFA-B OBDII & J1939 Easy Plug GPS Tracker

Features

- Build-in OBDII connector, Easy Plug and Track
- Configurable Vehicle Protocols, Support OBDII and J1939
- Built-in G-Sensor for Harsh Condition Detection
- Modularized Design for Bluetooth, 3G, LTE Cat-1, Cat-NB1/Cat-M1, and LoRa Communication
- Optionally Support Untethered Dead Reckoning (UDR) and Automotive Dead Reckoning through CANbus (CAN-to-ADR)
- Geofence with Polygon, Rectangular and Circle Settings
- AGPS[1] for Faster Cold Start
- Sleep Mode for Power Saving and Auto Self-Diagnostic
- Support Firmware Over-the-Air (FOTA)[2] Upgrade and Configuration

1.RIFA(LoRa) doesn't support AGPS due to limited data rate
2.RIFA(LoRa) doesn't support FOTA due to limited data rate

Introduction

ANTZER TECH's Automotive-Grade RIFA OBDII/J1939 vehicle tracker provides a compact, economic, easy plug and track dongle for fleet management market. RIFA's self-designed firmware not only supports OBDII and J1939 protocols, but also integrates superior cellular modem (modularized), highly sensitive GPS and accelerometer in one end-to-end solution. With built-in antennas for both GPS and Cellular modules, RIFA engineers a truly robust connectivity. Tracking unit is a perfect solution for fleet management, usage-based insurance, driver behavior management, auto rental and automotive applications.

Specifications

General	Vehicle Interface	Built-in OBD-II(J1962) Compliant Connector
	Messages	12,000 buffered messages
	Geofencing	Geofences Zones (Polygon, Rectangular or Circle Setting)
	Configuration	Over-The-Air Firmware and Remote Maintenance API
	Connector Type	SAE J1962, Male
Vehicle Network	OBD-II(J1962) Connector	CANbus, Power and Ground
	Vehicle Protocols	ISO15765-4 On-Board Diagnostic and J1939
Cellular Network	Frequency Band (WWAN module selected)	GSM/GPRS: 850,900,1800,1900 Mhz HSPA/UMTS: 800,850,900,1700,1900,2100 Mhz LTE Cat-1: Band 4, 13 or Band 3,7,20 LTE Cat-M1/Cat-NB1: Band 2,3,4,5,8,12,13,20,28 LoRa1: US915, EU868, AS923
	Data Protocol	TCP, UDP, MQTT and LoRaWAN
Wireless Network	Bluetooth	2.4GHz Low Energy Bluetooth Class 2
GPS	Chipset	Ublox Neo M8 Engine, 72Channels support GPS, Galileo, GLONASS, BeiDou
	Dead Reckoning	Optionally Support UDR and CAN-to-ADR , Tracking with GPS Signal Loss
Sensor		3-Axis G-sensor with Auto-Calibrating Function
LED Indicator		x2 LEDS (2 Colors each for GPS, Cellular Network, and System Status)
Wake Up Solution		1. System wake up by CAN bus data input 2. System wake up by G-Sensor data input 3. System wake up by Ignition data input
SIM Card	Form Factor	Mini SIM 2FF (25 x 15mm)

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Configuration Port		MicroUSB Port for Configuration
Power	Power Input Range	9~32V DC Power Input from OBDII Connector
	Power Mode	Operating Mode, Sleep Mode, and Battery Mode
	Min. Power Consumption	<3mA @ 12V (Sleep mode), Support CAN Wakeup Function
Buzzer		Built-in Buzzer for System Status
Environment	Operating Temperature	-30 to 70 °C (Without Battery); -20 to 70 °C (With Battery)
	Storage Temperature	-40 to 85 °C
	Certificate and Vibration	CE, FCC, RoHS and MIL-STD-810G 514.6
	Humidity	10% to 90% R.H. (Non-Condensing) Compliant
Environment	Lithium Ion Polymer Battery	86 x 56 x 28 mm Optionally support Built-in 3.7V 130mAh Battery

1.External antenna is needed

Dimensions

Ordering Information

Networks	Model Name	Device Type
3G	RIFA-B73	With the options of Bluetooth and GPS
4G LTE Cat 1	RIFA-B7L	(Standard GPS, GPS+UDR or GPS+CAN-to-ADR).
4G LTE Cat-M1/ Cat-NB1	RIFA-B7M	Please contact us for special requirements.
LoRa	RIFA-B7R	

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