



Leading Telematics Product and Solution Provider

TELEMATICS PRODUCT CATALOG 2023



GOSUNCN RICHLINK

Company profile

Gosuncn RichLink Technology Co., Ltd. (referred to as Gosuncn RichLink) is an IoT company under the Gosuncn Group (300098), focusing on Cellular IoT area. The company is headquartered in Shenzhen and the R&D center is located in Xi'an.

Gosuncn RichLink was established in 2023, formerly known as ZTEWelink, and has been working in the IoT industry for more than ten years. Gosuncn RichLink's products are consist of aftermarket Telematics products, industrial wireless terminal products and solutions. The company continues to provide innovative products and services for MNOs, TSPs, and IoT solution integrators for the global markets.

Mission

To be the best globalized medium-sized IoT company

Core Values

Focused, ultimate, customer-oriented, and striving for excellence

Company Milestone



GOSUNCN RICHLINK TELEMATICS PRODUCT SERIES



- The first camp of 5G (V2X) in-vehicle communication
- Global 4G OBD NO.1 supplier in 2017
- Telematics terminals are shipped over one million per year

OBD Tracker

- LTE Cat.6 Smart OBD Dongle
- LTE Cat.4 OBD Hotspot
- LTE Cat.1 OBD Dongle
- LTE Cat.M1/NB-IoT OBD Dongle



Advanced Tracker

- LTE Cat.4 in-Vehicle Router
- LTE Cat.1 Tracker
- LTE Cat.M1/NB-IoT Tracker



Standalone Tracker

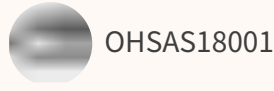
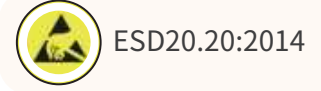
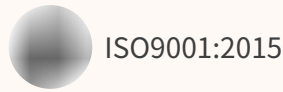
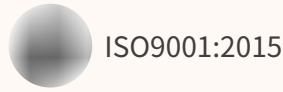
- LTE Cat.M1/NB-IoT Tracker



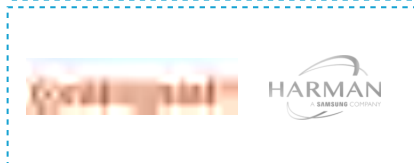
GOSUNCN RICHLINK ESTABLISHED THE COMPLETE QUALITY SYSTEM FOR TELEMATICS REGULATIONS



Quality System



Quality Certifications















CMMI Level 5

Approved by Continental&HARMAN VDA6.3

IATF16949



Telematics Products Portfolio

	In Production	2023 H2	2024 H1
OBD Tracker	 <p>G500/GD502/ GD502M (Cat.4&Wi-Fi)</p>  <p>GD201 (Cat.M1/NB-IoT /GPRS)</p>  <p>GD506 E/U (Cat.4&WiFi)</p>  <p>GD302 C/E/L (Cat.1)</p>  <p>GD508 (Cat.6&Wi-Fi)</p>		
Advanced Tracker	 <p>GT510 U/E/J (Cat.4)</p>  <p>GT115 E/L (Cat.1)</p>  <p>GTX70 C (NR-V2X)</p>	 <p>GT115 U (Cat.M1/NB-IoT)</p>	 <p>GT512 E/L (Cat.4)</p>  <p>GT117 U/E/L/J (Cat.M1/NB-IoT/Cat.1)</p>
Standalone Tracker			 <p>GL103 U/E/L/J (Cat.M1/NB-IoT/Cat.1)</p>

Features of OBD Tracker/Advanced Tracker/Standalone Tracker Products

OBD Tracker

- Support standard OBD interface J1962 and extension adapter cable, plug and play
- Support OBD protocol (SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939)
- European and American models over 9000+ achieve OBD protocol adaptive matching, and global 19,000+ real vehicle models are tested
- CAN bus data collection, support for passenger cars and commercial vehicles, vehicle status monitoring and reporting
- Data encryption transmission
- Support driving behaviour analysis algorithm
- Vehicle abnormal warning notification
- Vehicle Route summary and tracking
- Support Hybrid, Gasoline, EV
- Support FOTA

Standalone Tracker

- Flexible to Support Global network
- High GNSS sensitivity, support GNSS, LBS
- Built-in 3-axis motion sensor
- Support Multi-Sensors, such as temperature, light, barometer
- Support eSIM
- Easy to hide installation
- Easy to Check device Mode
- Support IP67
- Up to 5 years battery life time
- FOTA

Advanced Tracker

- Support CAN communication interface
- Built-in 3-axis sensor for driving behaviour detection
- Integrated Bluetooth 4.2
- Data encryption transmission
- Support RS232, RS485 Interface
- 1-wire interface
- More More DI/DOs for more configuration
- Support Versatile accessories
- eSIM and traditional SIM card compatible design
- FOTA

LTE Cat.4 OBDII Hotspot GD506

GD506 OBDII dongle, with built-in Cellular, GNSS, 3-axis G-sensor, 3-axis gyro and BT 4.2, supports Wi-Fi hotspot, tracking, driving behavior analysis and judgment, vehicle fault diagnosis, alarm and other functions. Various LTE bands make GD506 to have better coverage. GD506 is suitable for more vehicle with triple CANs.



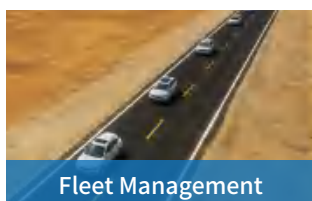
Highlights

- LTE Cat.4 Hotspot, high speed internet service
- More LTE bands, Better network coverage
- Standard OBD II interface, easy installation
- Triple CANs
- Vehicle status report and more vehicle compatibility
- Enhanced encryption algorithm(up to AES256)
- Trip tracking and Driver behavior analysis
- Theft and Towing detection
- eSIM Optional
- Built-in 3-axis G-sensor and 3-axis gyro
- Support Multi-Constellation GNSS
- Support BT 4.2

Application Scenarios



In-car Entertainment



Fleet Management



Usage-based Insurance

General Features

- Dimension: 72 × 50 × 27mm
- Weight: About 75g

Operating Environment

- Operating Temp: -20°C ~ 70°C
- Storage Temp: -40°C ~ 85°C
- Humidity: 5%~95% RH

Network & Connectivity

- NA SKU:
LTE: B2/B4/B5/B12(B17)/B13/B25/B26/B66
WCDMA: B2/B4/B5
- EMEA SKU:
LTE-FDD: B1/B3/B7/B8/B20/B28
WCDMA: B1/B8
GSM: B3/B8
- WLAN: 802.11 b/g/n/ac
- BT: 4.2

Functions

- OBD Analysis (SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939)
- Multi-Constellation GNSS
- Built-in 3-axis G-sensor and 3-axis gyro
- FOTA
- Triple CANs
- Enhance OEM Data Reading (Real Odometer, Fuel Level Input, Seat Belt) (Optional)
- Wi-Fi Hotspot

Physical Interface

- OBD II: Male 16pin(2*8) J1962
- Status LED: Network/ Power
- SIM: 4FF or eSIM

Data Rate

- LTE: DL 150Mbps / UL 50Mbps
- HSPA+: DL 42Mbps / UL 5.76Mbps
- GPRS: DL 85.6Kbps / UL 85.6 Kbps

Power Supply

- Voltage: 12/24V
- Battery Capacity: 180mAh(Li-ion)

Certification

- FCC/GCF/BQB/CEC/IP52/Wi-Fi/RoHS/Emark/Verizon/CE*

LTE Cat.4 OBDII Hotspot GD500

GD500 OBDII dongle, with built-in Cellular, GNSS, 3-axis G-sensor, 3-axis gyro and BT technologies, it can support on-board Wi-Fi, tracking, driving behavior analysis and judgment, vehicle fault diagnosis, alarm and other functions.



Highlights

- LTE Cat.4 hotspot ,high speed internet service
- Standard OBD II interface , easy installation
- Vehicle status report and more vehicle compatibility
- Enhanced encryption algorithm(up to AES256)
- Trip tracking and Driver behavior analysis
- Theft and Towing detection
- eSIM Optional
- Support 24V and J1939 protocol

Application Scenarios



In-car Entertainment



Fleet Management



Usage-based Insurance

General Features

- Dimension: 72 × 50 × 27mm
- Weight:About 75g

Operating Environment

- Operating Temp: -20°C ~ 70°C
- Storage Temp: -40°C ~ 85°C
- Humidity: 5%~95% RH

Network & Connectivity

- **GD500 (NA)**
WCDMA: Band 2/4/5
LTE: FDD Band 2/4/5/12(17)/66/71
- **GD502 (EMEA)**
GSM/GPRS/EDGE:850/900/1800/1900Mhz
WCDMA: Band 1/5/8
LTE: FDD Band 1/3/7/8/20/28
- **GD502M(Latin America)**
GSM/GPRS/EDGE:850/900/1800/1900Mhz
WCDMA: Band 1/5/8
LTE: FDD Band 2/4/7/8/20/28
- WLAN: 802.11 b/g/n Connect 5 Devices
- BT:BT4.1&BLE

Functions

- OBD Analysis (SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4 , J1939)
- GPS/AGPS
- Built-in 3-axis G-sensor and 3-axis gyro
- FOTA

Physical Interface

- OBD II: Male 16pin(2*8) J1962
- Status LED: Wi-Fi & Radio / Power
- SIM: 4FF or eSIM

Data Rate

- LTE: Max. DL 150Mbps / UL 50Mbps
- HSPA+: Max. DL 42Mbps / UL 5.76Mbps

Power Supply

- Voltage: 12/24V
- Battery Capacity: 180mAh(Li-ion)

Certification

- FCC/PTCRB/Wi-Fi/CE/GCF/RoHS/E-mark

LTE Cat.6 Smart Dongle GD508

GD508 is a Smart Dongle which is powered by Qualcomm Snapdragon 625 with its powerful processing capabilities, which has plenty of interface such as USB, mini-HDMI, external TF, OBD II (support CAN BUS reading), and built-in Wi-Fi, Bluetooth, motion sensor and standalone GNSS, enable the device extensibility to become more strength. The device can be integrated the customized application and used in many scenes such as fleet management, passenger coach, etc.



Highlights

- Powerful Processing Capabilities
- 2.4 GHz and 5GHz Wi-Fi Access
- Mini-HDMI Interface
- Standalone GNSS with Multi-Constellation Support
- Driver Behavior Detection
- Towing Detection
- eSIM Optional
- LTE Cat.6 Hotspot
- Built-in 3-axis G-sensor and 3-axis Gyro
- Rugged and Heat Dissipation Design

Application Scenarios



General Features

- Dimension: 127 × 69.5 × 29.5mm
- Color: Black

Operating Environment

- Working Temperature: -30°C ~ +75°C
- Storage Temperature: -40°C ~ +85°C

Network & Connectivity

- North America Version
- FDD LTE Band: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B66/B71
- LTE-TDD Band: B41
- EMEA Version
- FDD LTE Band: B1/B2/B3/B4/B5/B7/B8/B20/B28
- LTE-TDD Band: B38/B40/B41
- WCDMA: B1/B2/B4/B5/B8
- GSM: 850/900/1800/1900 MHz

Functions

- Memory: RAM: 4GB LPDDR3, ROM: 64GB EMMC or RAM: 2GB LPDDR3, ROM: 16GB EMMC
- SD Card: TF, up to 32 GB
- Sensor: 3-Axis Accelerometer, 3-axis Gyro
- Interface: USB type C, SIM, SD Card, Mini-HDMI, OBD II
- CAN BUS: Dual CANs
- SIM: 4FF or eSIM
- Button: Restart, Reset
- LED: Power, Network

Data Rate

- LTE-FDD: Cat.6 DL 300Mbps /UL 50Mbps
- WCDMA: DL 42Mbps/UL 5.76Mbps

Connectivity

- WLAN: 802.11 b/g/n/ac
- Bluetooth: BT 2.1 + EDR/3.0/4.1 LE/4.2 BLE
- GNSS: 2.5m CEP 50%

Power Supply

- Voltage: 12/24V
- Battery: 500mAh Ni-MH

Certification

- TBD

LTE Cat.1 OBDII Dongle GD302

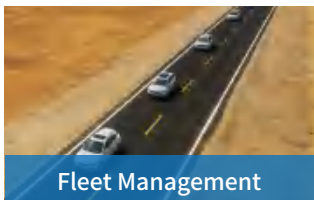
GD302 Series OBDII dongle, with built-in Cellular, GNSS, 3-axis G-sensor, 3-axis gyro. and BLE5.2 technologies etc., which can support tracking, driving behavior analysis and judgment, vehicle fault diagnosis, alarm and other functions.



Highlights

- LTE Cat.1 GPRS Cellular Network
- Standard OBD II interface , easy installation
- Dual CANs
- Vehicle status report and more vehicle compatibility
- Enhanced encryption algorithm(up to AES256)
- Trip tracking and Driver behavior analysis
- Theft and Towing detection
- eSIM Optional
- Built-in 3-axis G-sensor and 3-axis Gyro
- Support BLE 5.2

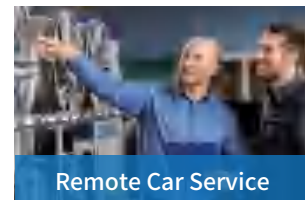
Application Scenarios



Fleet Management



Usage-based Insurance



Remote Car Service

General Features

- Dimension: 72 × 50 × 27mm
- Weight: about 75g

Operating Environment

- Operating Temp: -20°C ~ 70°C
- Storage Temp: -40°C ~ 85°C
- Humidity: 5%~95% RH

Network & Connectivity

- **EMEA SKU:**
LTE FDD: B1/B3/B7/B8/B20/28
GSM: B3/B8
- **Latin America SKU:**
LTE FDD: B1/B2/B3/B5/B7/B8/B28
LTE TDD: B40
WCDMA: B1/B2/B5/B8
GSM: B2/B3/B5/B8
- **China SKU:**
LTE FDD: B1/B3/B5/B8
LTE TDD: B34/B38/B39/B40/B41

Functions

- OBD Analysis (SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939)
- High Precision GNSS
- Built-in 3-axis G-sensor and 3-axis gyro.
- FOTA
- BLE Sensor Support
- Dual CANs

Physical Interface

- OBD II: Male 16pin(2*8) J1962
- Status LED: Network / Power
- SIM: 4FF or eSIM

Data Rate

- LTE Cat.1: DL 10Mbps / UL 5Mbps
- GPRS: DL 85.6Kbps/ UL 85.6Kbps

Power Supply

- Voltage: 12/24V
- Battery Capacity: 220mAh (Li-ion)

Certification

- CE*

LTE Cat.M OBDII Dongle GD201

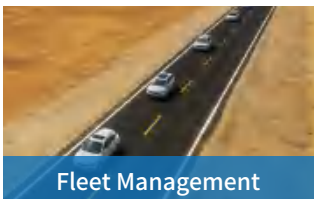
GD201 OBDII dongle, with built-in Cellular LPWA, GNSS, 3-axis G-sensor, 3-axis gyro. and BLE5.2 technologies etc., which can support tracking, driving behavior analysis and judgment, vehicle fault diagnosis, alarm and other functions.



Highlights

- LTE Cat.M&NB-IoT&GSM Tri-mode, Global Network
- Standard OBD II interface , easy installation
- Triple CANs
- Vehicle status report and more vehicle compatibility
- Enhanced encryption algorithm(up to AES256)
- Trip tracking and Driver behavior analysis
- Theft and Towing detection
- eSIM Optional
- Built-in 3-axis G-sensor and 3-axis Gyro
- Support BLE 5.2

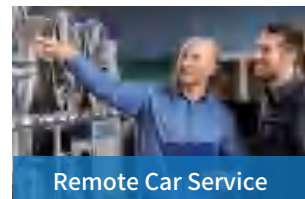
Application Scenarios



Fleet Management



Usage-based Insurance



Remote Car Service

General Features

- Dimension: 72 × 50 × 27mm
- Weight: about 75g

Operating Environment

- Operating Temp: -20°C ~ 70°C
- Storage Temp: -40°C ~ 85°C
- Humidity: 5%~95% RH

Network & Connectivity

- LTE Cat.M1/Cat.NB2:
B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/
B26/B28
- GSM:B2/B3/B5/B8
- Bluetooth: BLE 5.2

Functions

- OBD Analysis (SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4 , J1939)
- High Precision GNSS
- Built-in 3-axis G-sensor and 3-axis gyro.
- FOTA
- BLE Sensor Support
- Triple CANs
- Enhanced OEM Data Reading (Real Odometer, Fuel Level Input, Seat Belt) (Optional)

Physical Interface

- OBD II: Male 16pin(2*8) J1962
- Status LED: Network / Power
- SIM: 4FF or eSIM

Data Rate

- LTE Cat.M1: DL 0.5Mbps / UL 1Mbps
- Cat.NB2: DL 127Kbps / UL 158.5Kbps
- GPRS:DL 85.6Kbps / UL 85.6 Kbps

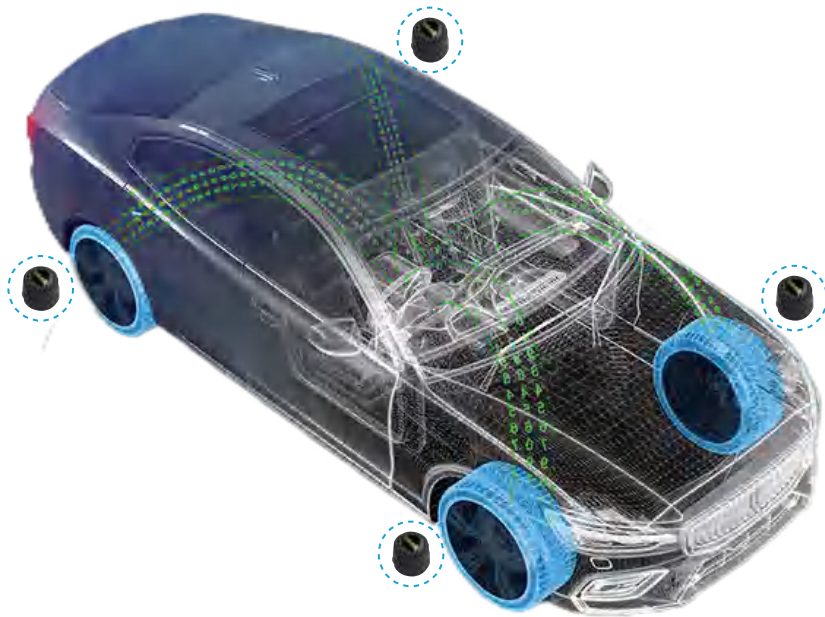
Power Supply

- Voltage: 12/24V
- Battery Capacity: 180mAh (Li-ion)

Certification

- FCC/PTCRB/BQB/CEC/IP51/RoHS/E-mark/AT&T/CE*

OBD II with Tire Sensor Solution



- » Vehicle Data Acquisition
- » Driver behavior Analysis
- » Vehicle Position Tracking
- » Tire Pressure Detection

Tire pressure sensor cap-based sensor which is installed easily.

5G+C-V2X OBU GTX70



GTX70 5G-V2X vehicle-mounted unit (V-BOX) developed based on the 3GPP R 15 standard which connects different roles in the transportation system via C-V2X. It aims to achieve low latency, high reliability and high-density data interaction with the surrounding traffic environment, realize the interconnection of V2V, V2P, V2I, and realize the comprehensive perception of road conditions.

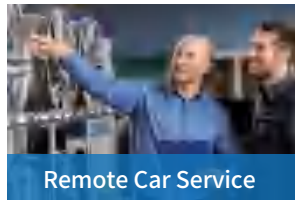
Highlights

- 5G NR high-speed network transmission
- C-V2X of the 3GPP Release 15 standard
- Supports the stack standard for TCSAE 53-2017
- Provides a networked data service interface based on the vehicle Ethernet and CAN interfaces
- RTK high-precision positioning
- Wi-Fi 6 high-speed wireless LAN
- Automotive-grade hardware encryption chip
- Supports USB 3.0
- Supports 12V and 24V

Application Scenarios



Autonomous driving



Remote Car Service



ADAS

General Features

- Size: 202 × 128 × 35mm
- Weight: <600g

Network & Connectivity

- V2X:B47
- 5G FDD:N1/N3/N5/N8/N28/N77
- 5G TDD:N41/N78/N79
- FDD-LTE:B1/B3/B8
- TDD-LTE:B38/B39/B40/B41
- WCDMA:B1/B5/B8
- TD-SCDMA:B34/B39
- GSM:B3/B8
- Wi-Fi:5GHz

Physical Interface

- 5G antenna interface
- V2X antenna interface
- GNSS antenna interface
- USB
- Ethernet (compatible 100BASE-T1/TSN)
- 40pin
- SIM slot

Power Supply

- 12/24V

Operating Environment

- Working temp: -40°C--+85°C
- Humidity: 5%~95% RH

Working Mode

- Intelligent power management system

Functions

- Protocol stack for TCSAE 53-2017
- RTK high-precision positioning
- Built-in 6-axis sensor
- Provides a networked data service interface for in-vehicle
- Ethernet and CAN to support external integration
- Two high-speed CAN buses
- FOTA

LTE Cat.4 In-vehicle Router GT510

GT510 Series is an In-vehicle Router, with plenty of network interface such as RJ45, Wi-Fi, and device support IPsec to set up secure VPN make the vehicle becomes a fully operational office and command center, with the rugged and heat dissipation design keep the device in good performance while working in industrial and vehicle application.



Highlights

- Dual RJ45 Ethernet
- Dual USB
- Secure internet access
- eSIM Optional
- Support Multi-Constellation GNSS
- LTE Cat.4 hotspot, high speed internet service
- Built-in 3-axis G-sensor and 3-axis gyro
- 2.4 GHz and 5G Hz Wi-Fi Access
- Rugged and heat dissipation design

Application Scenarios



Public Security



Fleet Management



Internet Access

General Features

- Dimension: 128 × 94 × 28mm
- Weight: about 240g

Operating Environment

- Working Temperature: -20°C ~ +70°C
- Storage Temperature: -40°C ~ +85°C

Network & Connectivity

- **Japan SKU:**
LTE(Cat.4): Band 1/3/8/18/19
WCDMA: B1,B6,B8,B19
- **EMEA SKU:**
LTE FDD:B1,B3,B5,B7,B8,B20,B28
WCDMA:B1,B8
- **North America SKU:**
LTE FDD:B2,B4,B5,B12,B13,B25,B26

Functions

- GNSS
- WLAN 802.11b/g/n/ac
- WPS
- eSIM or 4FF
- 3-Axis Accelerometer and 3-Axis Gyroscope

Physical Interface

- LTE ANT,GNSS ANT,USB Port(Type A),
RJ45 Ethernet port,SIM Card Socket

Data Rate

- LTE-FDD: Cat.4 DL 150Mbps /UL 50Mbps
- WCDMA: DL 42Mbps/UL 5.76Mbps

Power Supply

- Voltage: 9-36V

Certification

- JATE, TELEC, CE*, FCC*, Wi-Fi logo

LTE Cat.1 Tracker GT115

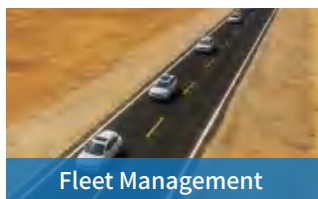


GT115 is a Tracker product based on LTE Cat.1 network, integrates 4G&2G cellular network, GNSS, 3-axis G-sensor, 3-axis Gyro. BLE 5.0, CAN bus and other rich interfaces, can support trip detection, driving behavior analysis and other extended function by connecting to another terminal.

Highlights

- Global LTE Cat.1 networks
- Multi-Constellation GNSS
- Wide operating voltage
- Trip tracking and driver behavior analysis
- Small size, easy installation
- Theft and Towing detection
- Multiple I/O Interface
- FOTA
- Compatible with multiple BLE Sensors
- Support J1939

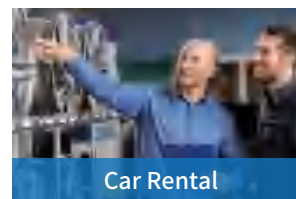
Application Scenarios



Fleet Management



Usage-based Insurance



Car Rental

General Features

- Dimension: 90 × 42.5 × 18mm
- Weight: about 70g
- IP Rating: IP54

Operating Environment

- Operating Temp: -20°C ~ +70°C
- Storage Temp: -40°C ~ +85°C
- Humidity: 5%~95% RH

Network & Connectivity

- **EMEA SKU:**
LTE-FDD: B1/B3/B7/B8/B20/B28
LTE-TDD: B38/B40/B41
GSM: B3/B8
- **Latin America SKU:**
LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66
LTE-TDD: B38/B40/B41
GSM: B2/B3/B5/B8
- **China SKU:**
LTE-FDD: B1/B3/B5/B8
LTE-TDD: B34/B38/B39/B40/B41
- **North America SKU:**
LTE-FDD: B2/B4/B5/B12/B13/B14/B66
BLE 5.0

Functions

- Multi-Constellation GNSS
- Built-in 3-axis G-sensor and 3-axis Gyro.
- FOTA
- CAN Bus

Physical Interface

- Connector: B+, GND, Relay, UART
CAN, Output, ACC,
- Status LED: Power(Red), Network(Green)
- SIM: 4FF or eSIM

Data Rate

- LTE Cat.1: DL 10 Mbps / UL 5 Mbps
- GPRS: DL 85.6Kbps / UL 85.6 Kbps

Power Supply

- Voltage: 12/24V
- Battery Capacity: 110mAh(Li-ion)

Certification

- CE*

Hardware Interfaces

10 Pins Definition	
1	B+
2	GND For VBAT
3	Relay Control
4	UART_Tx
5	UART_Rx
6	CAN_L1
7	CAN_H1
8	Analog Output
9	ACC
10	GND



Accessories for GT115



RichLink Cloud

The RichLinkCloud is independently developed by Gosuncn RichLink, can achieve device management, data management, system management, parameter management, and upgrade management, providing customers with highly reliable and high-performance cloud services.



RichLink Cloud Framework

The RichLinkCloud is mainly consists of 6 parts: data sources, data access, message queues, data persistence, services, and industry applications. The platform has high concurrency (10K/unit/second), high stability, and high scalability (10W access, scalable). Utilize distributed technology to improve the stability and throughput of data storage.

Gosuncn RichLink can provide and customize diverse data service interfaces for various industry applications, providing best solutions for various industry applications.

Applications	MNO	Asset Tracking	UBI	Fleet Management	Cold Chain Tracking
Service	Data Analysis	Data statistics	Data presentation	Data playback	Data alarm
Data Persistence	My Sql		Hbase HDFS		Redis
Message queue	Kafka	Kafka	Kafka	Kafka	Kafka
Data Access	HTTP Listener		NETTY		Ruoyi
Data Source	HTTP/HTTPS		TCP/UDP		WebService

RichLinkCloud System Architecture

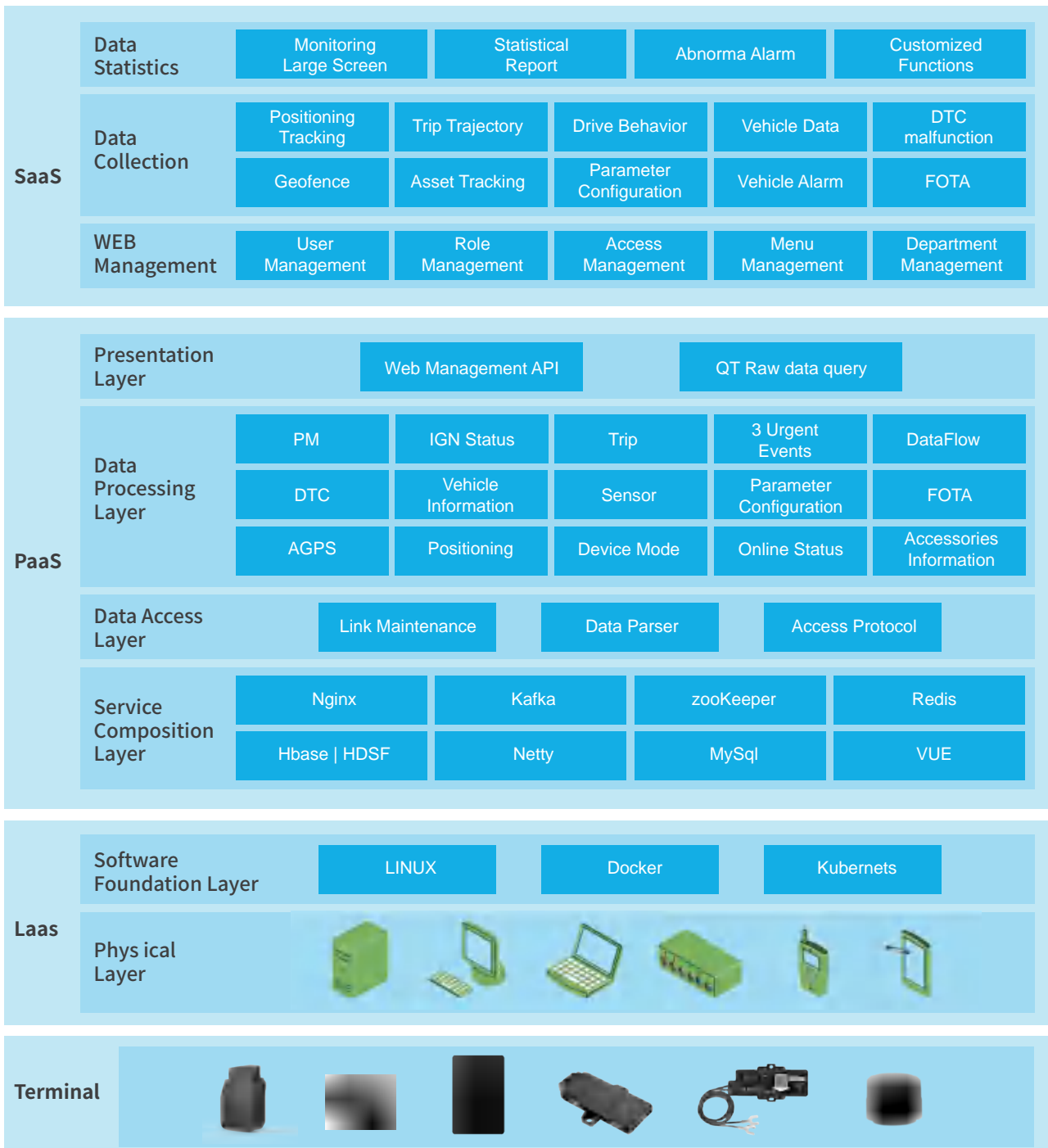
RichlinkCloud can provide SaaS and PaaS level software services to customers.

Terminal: A rich collection of TElematics terminals from Gosuncn RichLink.

IaaS level: Infrastructure as a Service, cloud environment. For example, AWS and Alibaba Cloud. (We don't have it)

PaaS level: Platform as a Service, an application deployed on the platform. We can customize software services to meet customer needs. For example, in the data access layer, we can provide the access layer to users and adapt to their needs, thereby enabling our devices to quickly connect to the customer platform.

SaaS level: Software as a Service, providing customers with rich software data display and data interface services. Some interfaces can be customized.



LTE Cat.4 OBD Hotspot Application Case

—Cooperate with Leading Telco in USA to Provide uFi + OBD Diagnostic Products



4G OBD Dongle Provider



Product Features

Test Period >9 months
 14000+ Vehicle model compatibility
 OBD Protocol self-adaption



Termina Solution

Leading Telco in USA



1,000,000 devices activated
 85% brand new customers

- Connect Personal Car
 - LTE hotspot on-board
 - Hazard notification push
 - Positioning & track replays
 - Drive behavior analysis
- Fleet Management
 - Vehicle monitoring
 - Efficiency management
- Third Party Cooperation
 - UBI Service
 - Value-added Services

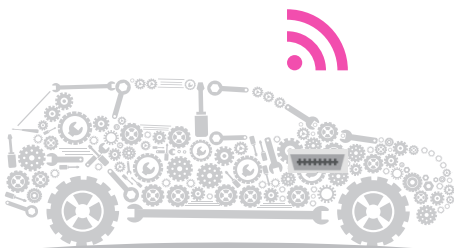


Enable Connectivity



FOTA

- Firmware Provider: Gosuncn
- Platform Service: TSP
- Data Transmission: Telco



Telematics Data

Platform Service

Leading TSP



Connected Car Platform

- APP & Services
- Big Data & Analytics

LTE Cat.4 OBD Hotspot Application Case

—Cooperated with Leading Telco in Europe to Launch uFi + OBD Dongle



4G OBD Dongle Provider



Highlight

- Test Period >9 months
- 16500 + Vehicle model compatibility
- OBD protocol adaptive
- FOTA



TSP



- APP & Services
- Big Data & analysis



TECH



DATA



AUTO



- Personal travel service
- Fleet Management
- Third party cooperation

OBU Product Application Case

—Cooperation with the World's Leading Car Insurance UBI TSP



Advanced Terminal Solution



Benefits Delivery

Total Shipment > 1.3 million

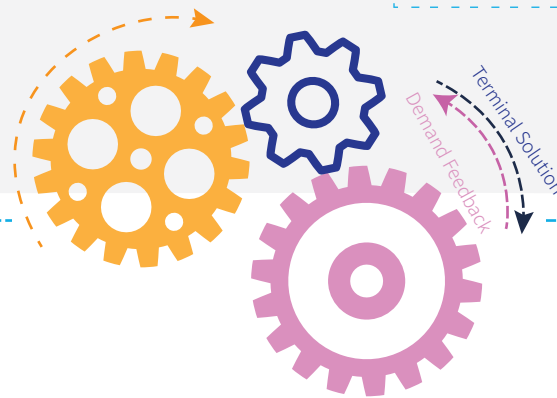
Gosuncn RichLink's strong delivery capability meets the demand of rapid growth of global business for the leading UBI TSP.

Return Rate < 150PPM

Superior performance of quality reduces the after-sales cost and helps the leading UBI TSP to win branch reputation.

Hardware solution

The cost-effective hardware solution gives more market pricing space.



Professional UBI Proposal



45% Global market share in UBI

No.1 Market share in the UK, USA and Italy

140+ Insurers in the global

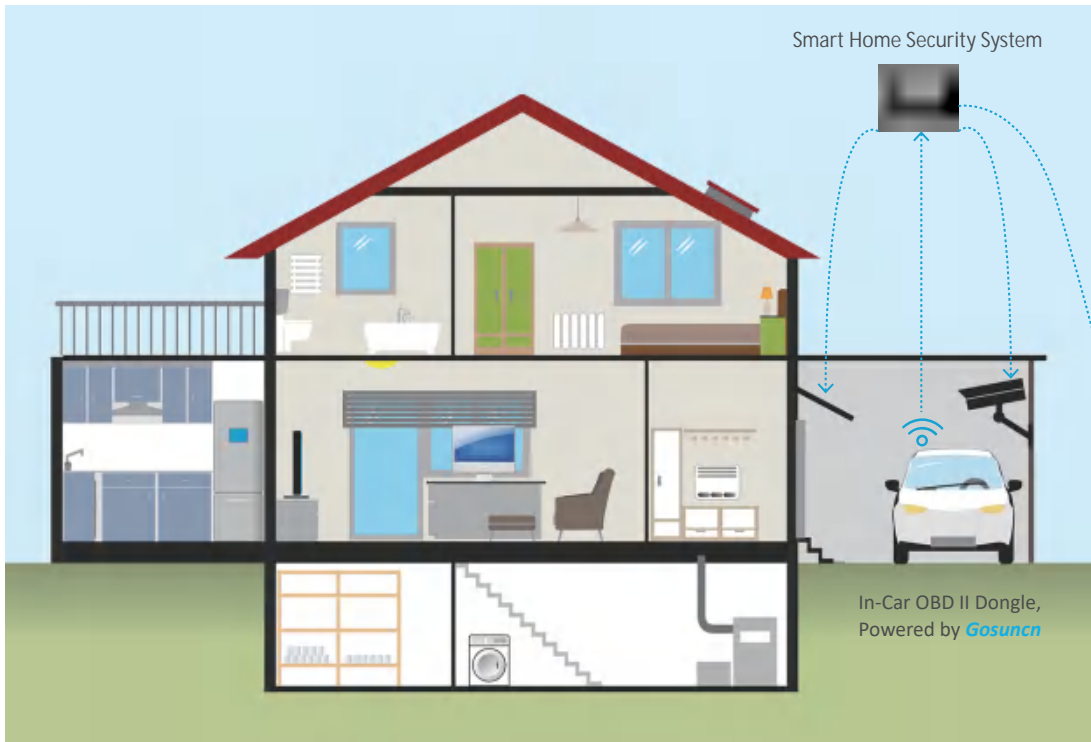
4,500,000+ Users online



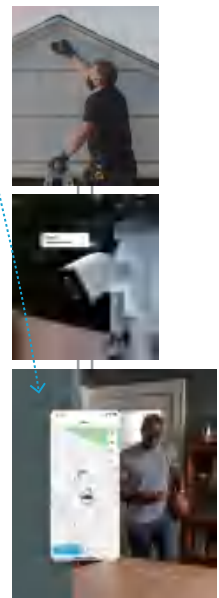
OBD Product Application Case

—Car Guard Solution powered by Gosuncn OBD II Dongle




Protect your vehicle, anywhere ▼





- Disturbance Alerts
- Location Tracking
- Car Dianostics
- Anti-Thief










Combine more Devices

-  Outdoor Camera
-  Smart Lighting
-  Garage Door Controller



 OBD II Dongle Highlights

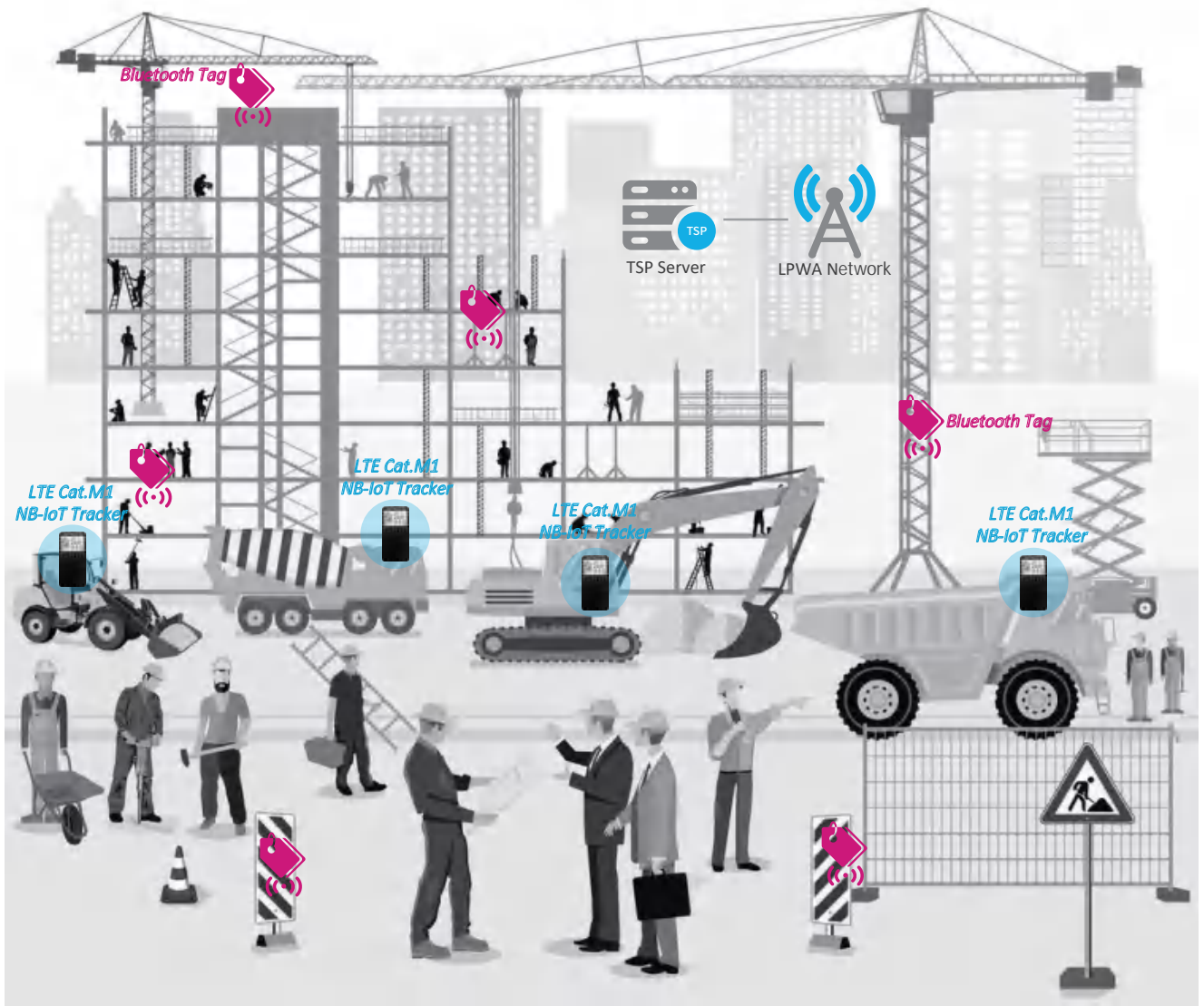
- Test Period >9 months
- 16500 + Vehicle model compatibility
- OBD protocol adaptive
- FOTA
- Built-in higher performance Bosch vibration algorithm

Tracker Product Application Case

—LTE Cat.M1/NB-IoT Tracker empowers Nordic construction site management

LTE Cat.M1/NB-IoT Tracker is deployed (excavators, earth-moving machines) and communicates with Bluetooth tags (pasting tools: impact drill, electric saw, bending machine, etc.). Report the location of tools by receiving the signals sent by Bluetooth tags at regular intervals to facilitate the management of various tools at the construction site.



Benefits for Customers

Easy to deploy

Contactless Management

Deep coverage, no signal blind spot

Low cost



LTE Cat.M/NB-IoT Tracker

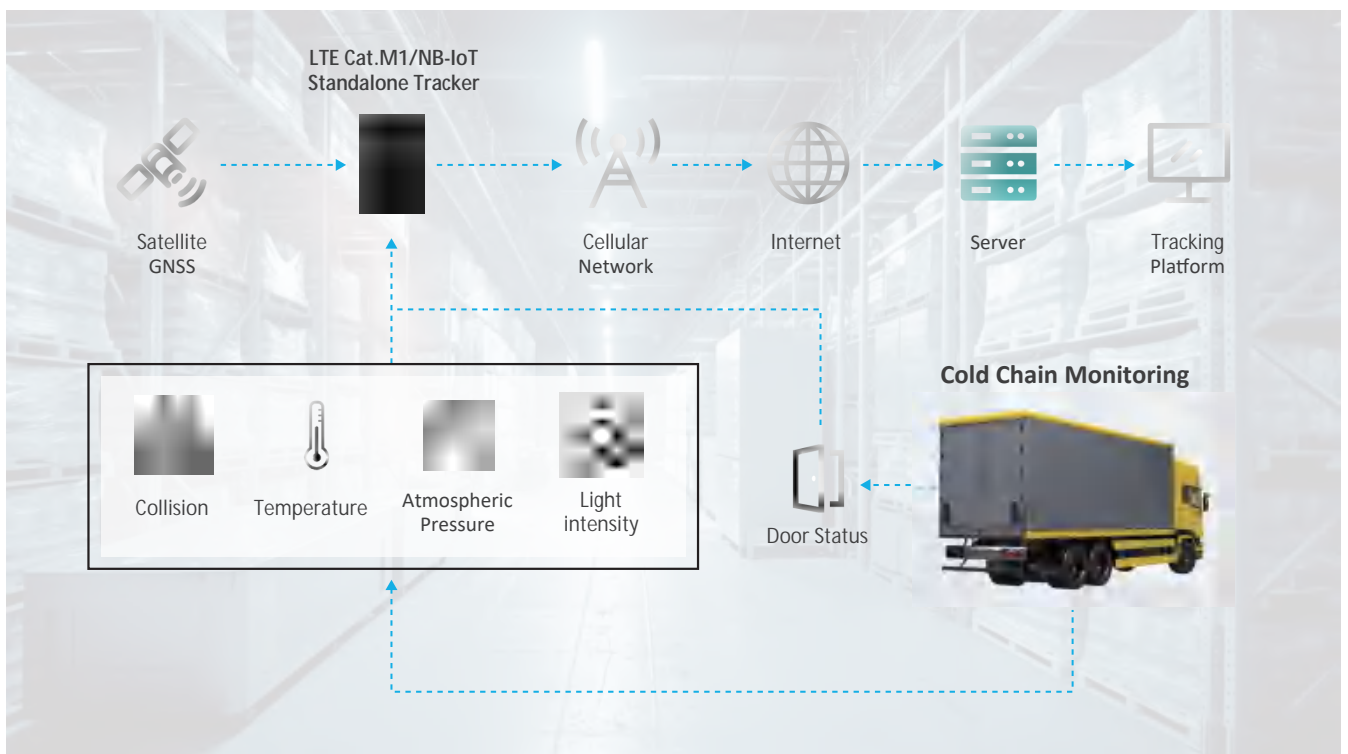
- Global LTE Cat.M/NB-IoT/GPRS networks
- High precision location
- Multiple I/O Interface
- FOTA
- Grants for various BLE sensors



Cold Chain Monitoring with Standalone Tracker

Cold chain supply is becoming more significant in the logistics field since a lot of our products come in frozen. When temperature changes and deviates from its pre-set environment as the machine breakdown, fresh goods are put at risk of going bad. Batches of high value products which are wasted every year causing not only losses on the owner, negative impact on end users, but damages on our international economy.

GPS devices can provide relevant information about the situation in the reefer trailer. The solution is designed in response to industry demands for Cold chain logistics or warehousing monitoring to resolve losses caused by unexpected temperature changes.



Highlights

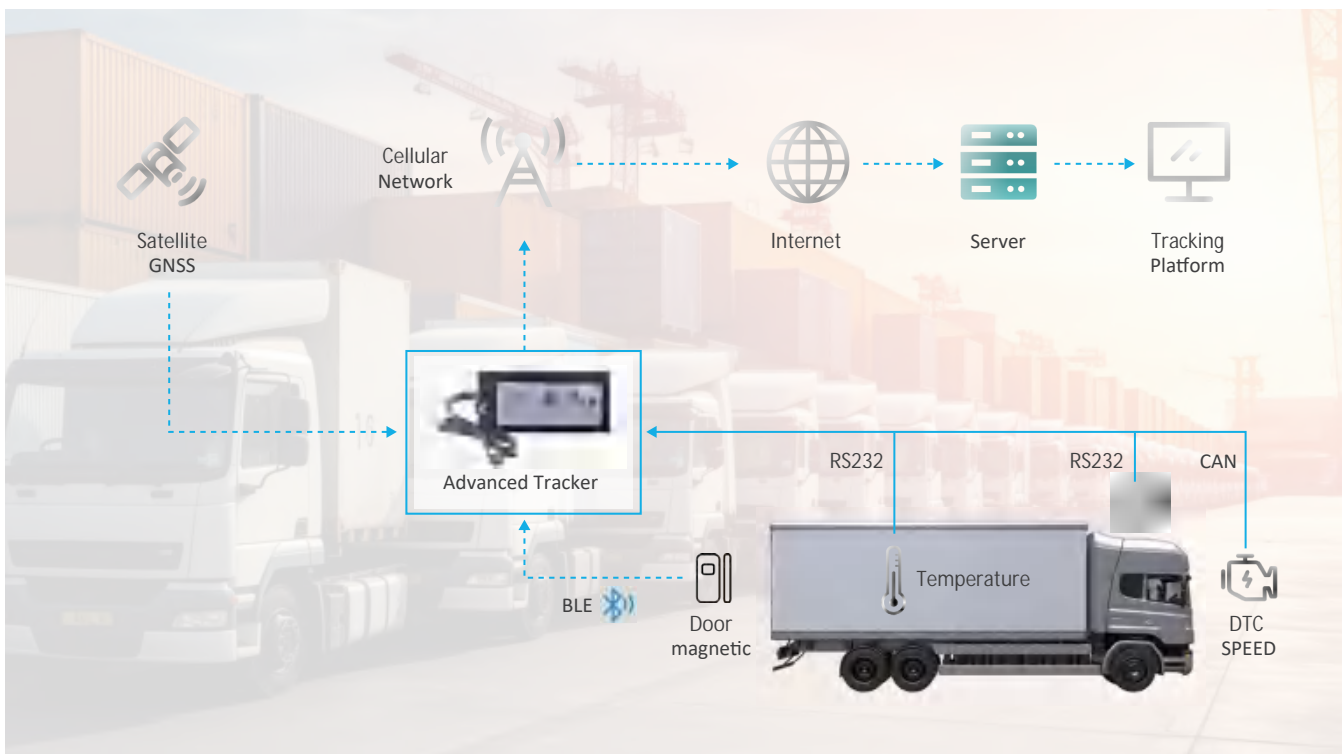
- Global network coverage in different regions
- Easy installation
- Support Driving behavior detection
- High precision position tracking
- High precision temperature and atmosphere pressure detection

User Benefits

- Monitor the temperature status of refrigerated cargo throughout the entire journey to reduce and avoid economic losses for shippers.
- Monitoring the transportation process of temperature, shock, vibration, and light sensitive products to avoid failure, such as chemicals, vaccines, and drugs.
- Accurate tracking the location of the truck no matter where the vehicle is driving.

Fleet Management with Advanced Tracker

Fleet managers and owners are ensuring their vehicles and assets are safe. Most fleet managers have gone through the stress, inconvenience and financial despair of losing a vehicle or asset due to theft or job site misplacement. The solution is designed to provide the real-time location and driver behavior, plus the solution has types of interface that could support connect with many of accessories, give manager or owner more guarantee.



Highlights

- Global network coverage in different regions
- Rich interfaces include RS232/485, 1-wire and configurable digital analog I/O
- Based on multiple interfaces, it supports the expansion of functional accessories in various industries.
- Supports Bluetooth BLE5.2
- Supports 3-axis sensor


User Benefits

- Track real-time location of Fleet to ensure vehicle safety, improve delivery efficiency
- Rich interfaces can provide just the right safety guarantee for car owners or cargo owners based on various accessories

Global partner of Telematics Products

 GpsGate™

 Traccar


 TRACKBIT

 winlon

 mapon

 Navixy

 3D
Tracking

 RedGps

 trokzee

PRODUCT COMPARISON

	OBD II Product						
	LTE Cat.4						
Model	GD506		GD500	GD502	GD502M	GD508	
Product Type	OBD II Hotspot		OBD II Hotspot	OBD II Hotspot	OBD II Hotspot	OBD II Hotspot	
SKU	North America	EMEA	North America	EMEA	Latin America	EMEA	North America
							
General Features							
Dimensions(mm)	72×50×27		75×50.5×28	75×50.5×28	75×50.5×28	127×69.5×29.5	
Weight(g)	75		85	85	85		
Working Temperature	Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C		Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C	Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C	Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C	Operating Temp: -30°C ~ 75°C	
Humidity	5%~95% RH		5%~95% RH	5%~95% RH	5%~95% RH	5%~95% RH	
IP Rating	IP52					IP51	
Power Supply							
Voltage Range(V)	12/24V		12/24V	12/24V	12/24V	12/24V	
Battery	180mAh(Li-ion)		180mAh(Li-ion)	180mAh(Li-ion)	180mAh(Li-ion)	500mAh Ni-MH Battery	
Network & Connectivity							
GSM		B3, B8		B2, B3, B5, B8	B2, B3, B5, B8	B2, B3, B5, B8	
UMTS	B2, B4, B5	B1, B8	B2, B4, B5	B1, B5, B8	B1, B5, B8	B1, B2, B4, B5, B8	B41
TD-SCDMA						B1, B2, B3, B4, B5 B7, B8, B20, B28	B2, B4, B5, B7, B12, B13, B14 B17, B25, B26, B66, B7
LTE TDD							
LTE FDD	B2, B4, B5, B12(B17), B13, B25, B26, B66	B1, B3, B7, B8, B20, B28	B2, B4, B5, B12(B17), B66, B71	B1, B3, B7, B8, B20, B28	B2, B4, B7, B8, B20, B28		
5G NR							
PC5							
Wi-Fi	802.11 b/g/n/ac		802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n/ac	
BT	BT4.2		BT4.1 & BLE	BT4.1 & BLE	BT4.1 & BLE	BT 2.1 + EDR/3.0/4.1 LE/4.2 BLE	
Data Rate							
5G NR							
LTE	LTE Cat.4: Max. DL 150Mbps / UL 50Mbps		LTE Cat.4: Max. DL 150Mbps / UL 50Mbps	LTE Cat.4: Max. DL 150Mbps / UL 50Mbps	LTE Cat.4: Max. DL 150Mbps / UL 50Mbps	LTE Cat.6: Max. DL 300Mbps / UL 50Mbps	
HSPA+	Max. DL 42Mbps / UL 5.76Mbps		Max. DL 42Mbps / UL 5.76Mbps	Max. DL 42Mbps / UL 5.76Mbps	Max. DL 42Mbps / UL 5.76Mbps	Max. DL 42Mbps / UL 5.76Mbps	
GPRS	Max. DL 85.6Kbps / UL 85.6 Kbps					Max. DL 85.6Kbps / UL 85.6 Kbps	
Hardware Interface							
OBD II	Male 16pin(2*8) J1962		Male 16pin(2*8) J1962	Male 16pin(2*8) J1962	Male 16pin(2*8) J1962		
LED Indicator	Network/ Power		Wi-Fi & Radio / Power	Wi-Fi & Radio / Power	Wi-Fi & Radio / Power	Power, Network	
SIM	4FF or eSIM		4FF or eSIM	4FF or eSIM	4FF or eSIM	4FF or eSIM	
Antenna Interface							
USB						USB Type C	
Ethernet							
Connector							
Functions							
OBD Analysis	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939		SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939	
Positioning	Multi-Constellation GNSS		Multi-Constellation GNSS	Multi-Constellation GNSS	Multi-Constellation GNSS	Multi-Constellation GNSS	
SENSORS	Built-in 3-axis G-sensor and 3-axis gyro		Built-in 3-axis G-sensor and 3-axis gyro	Built-in 3-axis G-sensor and 3-axis gyro	Built-in 3-axis G-sensor and 3-axis gyro	Built-in 6-axis sensor	
FOTA	◆		◆	◆	◆	◆	
CAN	Triple CANS		◆	◆	◆	Dual CANS	
OEM Data Reading	Enhance OEM Data Reading (Real Odometer, Fuel Level Input, Seat Belt) (Optional)						
Wi-Fi Hotspot	Connect 5 Devices		Connect 5 Devices	Connect 5 Devices	Connect 5 Devices	support	
Certification & Approvals							
	RoHS/CE/FCC/GCF/BQB/CEC/IP52/Wi-Fi/Emark		RoHS/FCC/PTCRB/BQB/CEC/Wi-Fi/Emark	RoHS/CE/GCF/BQB/Wi-Fi/Emark	RoHS/CE/GCF/Emark	FCC*, CE*	
Operators' Approval	Verizon		TMO				
Note							

			OBU Product													
LTE Cat.1			LPWA		5G&C-V2X		LTE Cat.4			LTE Cat.1						
GD302			GD201		GTX70		GT510			GT115						
OBD II Dongle			OBD II Dongle		VBox		Vehicle Router			Tracker						
EMEA	Latin America	China	Global		China		Japan	EMEA	North America	EMEA	Latin America	China	North America			
																
72x50x27			72x50x27		202x128x35		128x94x28			90x42.5x18						
75			75		600		280			70						
Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C			Operating Temp: -20°C ~ 70°C Storage Temp: -40°C ~ 85°C		Operating temp: -40°C~+85°C		Operating temp:-20°C~70°C Storage Temp: -30°C ~ +85°C			Operating Temp: -20°C ~ +70°C Storage Temp: -40°C ~ +85°C						
5%~95% RH			5%~95% RH		5%~95% RH		20%-85%			5%~95% RH						
			IP51				IP4X			IP54						
12/24V			12/24V		12/24V		12/24V			12/24V						
220mAh(Li-ion)			180mAh(Li-ion)							110mAh(Li-ion)						
B3,B8			B2,B3,B5,B8		B2,B3,B5,B8					B3,B8						
			B1,B2,B5,B8				B1,B5,B8		B1, B5, B6 B8, B19		B1,B8					
					B34, B39											
					B38, B39, B40, B41					B38,B40,B41		B34, B38, B39, B40, B41				
B1,B3,B7,B8 B20,B28			B1,B2,B3,B5, B7,B8,B28		B1,B3,B5,B8		B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28		B1, B3, B8		B1,B3,B5,B7,B8 B18,B19,B21		B1,B3,B5,B7 B8,B20,B28		B2, B4,B5,B12 B13,B25,B26	
							5G FDD: N1, N3, N5, N8, N28, N77 5G TDD: N41, N78, N79									
							B47									
							Wi-Fi 6		Wi-Fi 802.11b/g/n/ac							
BLE 5.2			BLE 5.2									BLE 5.0				
							5G NR: Max. DL 2.12Gbps / UL 900Mbps									
LTE Cat.1: Max. DL 10Mbps / UL 5Mbps			LTE Cat.M1: Max. DL 0.5Mbps / UL 1Mbps Cat NB2: Max. DL 127Kbps / UL 158.5Kbps				Max. DL 1.6Gbps/UL 200Mbps		LTE Cat.4: Max. DL 150Mbps /UL 50Mbps			LTE Cat.1: Max. DL 10Mbps / UL 5Mbps				
Max. DL 85.6Kbps / UL 85.6 Kbps			Max. DL 85.6Kbps / UL 85.6 Kbps				Max. DL 42Mbps / UL 5.76Mbps		Max. DL 42Mbps / UL 5.76Mbps			Max. DL 85.6Kbps / UL 85.6 Kbps				
Male 16pin(2*8) J1962			Male 16pin(2*8) J1962						LAN,Power,Antenna			Power(Red), Network(Green)				
Network / Power			Network / Power						4FF or eSIM			4FF or eSIM				
4FF or eSIM			4FF or eSIM				3FF		4FF or eSIM			4FF or eSIM				
							5G/V2X/GNSS		LTE/GNSS							
							USB3.0		USB Type A							
							compatible 100BASE-T1/TSN									
							40pin					B+, GND, Relay, UART, CAN, Output, ACC				
SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939			SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939		SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939		SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939					SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, J1939				
High Precision GNSS			High Precision GNSS		High Precision GNSS		RTK high-precision positioning		Multi-Constellation GNSS			Multi-Constellation GNSS				
Built-in 3-axis G-sensor and 3-axis gyro			Built-in 3-axis G-sensor and 3-axis gyro		Built-in 3-axis G-sensor and 3-axis gyro		Built-in 6-axis sensor					Built-in 3-axis G-sensor and 3-axis Gyro				
◆			◆		◆		◆		◆			◆				
Dual CANs			Triple CANs		Two high-speed CAN buses							Support				
Enhanced OEM Data Reading (Real Odometer, Fuel Level Input, Seat Belt)(Optional)			Enhanced OEM Data Reading (Real Odometer, Fuel Level Input, Seat Belt)(Optional)													
							◆		◆							
CE*			FCC/PTCRB/BQB/CEC/IP51/ RoHS/E-mark/CE*						JATE, TELEC, CE*, FCC*, Wi-Fi logo			CE*				
			AT&T													



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