



COMPANY PROFILE



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ABOUT ALTSONS

Global Leading Location Service & IoT Device
CCTV & Network Solution Provider

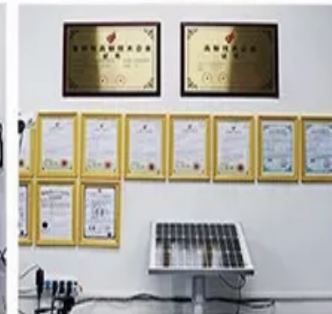
INTRODUCTION

企业背景

TRQ INTERNATIONAL CO LTD

TRQ CO., LIMITED is an R&D oriented manufacturer and mainstream provider of advanced security and surveillance system products in China. Our company has developed rapidly under the ALTSONS Brand by our excellent performance in Gps trackers, CCTV field and Network Solutions.

We have a professional R&D team, a set of advanced equipment and a group of professional technicians, who are all well experienced in the Expertise in Global Location Services IoT Software & Hardware Integrated Solution Provider, CCTV field and Network Solutions. We also provide OEM.

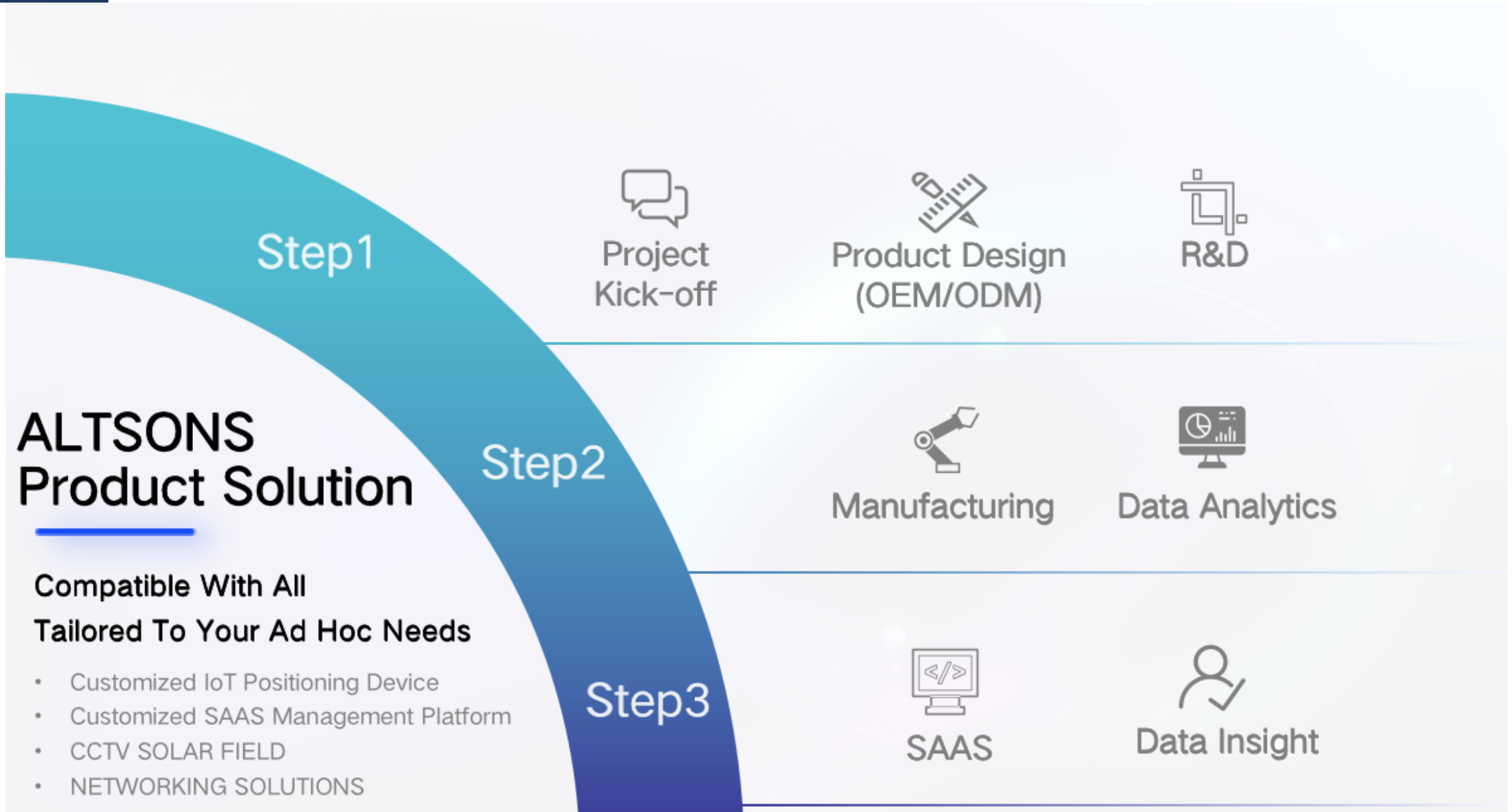




Our products with high credit are selling well in Europe, America, Japan and other countries and regions. Our products have been widely applied in various fields, enjoying a good reputation both at home and abroad.

We make better products:

High quality is the essential foundation of a company. Our products have been CE and FCC certified, and we have attained ISO9001:2000 certification. Our high-performance products win our clients through high quality and high cost performance.



QUALITY-FIRST PRODUCTION

From design to development and to final products, quality checks are built into every phase of the product creation. We are proud of developing GPS devices, Solar CCTV to the highest global standards and delivering reliable IoT solutions.

Besides, our advanced manufacturing center has a high capacity of 1million/units GPS devices & CCTV units produced yearly. We independently complete SMT patch, assembly, functional testing, reliability testing(incl. high temperature/aging testing/vibration testing/high pressure testing etc.)

Certificates and Approvals



1,000,000

Production Output Yearly

25,000m²

Factory Space

28

Testing Lines

11

High-Speed SMT lines

13yr

Experience

ALTSONS Business Solution

Empower Your Mobile Workforce
Visualize Corporate Workflow

From Point
to Line

Digitization – Everyday Objects

Our IoT device makes traditional appliances connect to the internet, to send data and receive instructions, so that you can manage them effortlessly.

How it works? ● Location data collecting – Transmit – Store – Analyze

From Line
to Plane

Visualization – Smart Supply Chain

Combining IoT device and SAAS, we gather and analyze data about route and driver behaviors, to bring efficiency and help you to make optimal decisions, using *AI, cloud computing, blockchain and big data* technologies.

How it
works?

● Data analytics – Insight – Decision Making Optimization

► R&D Quality Control

Using our in-house set of lab standard certification testing equipment, we conduct comprehensive tests to ensure our products meet rigorous performance measures, even in the harshest environments.

Software Testing

- Unit test
- Integration test
- System test
- Automation test
- Document test
- Regression test
- Field test

Hardware Testing

- RF test
- Baseband test
- EMC test
- Data test

Reliability QC

- Environment test
- Mechanical test
- Special stress test

► Manufacturing Quality Control

From the selection of the component to packaging the end product, we implement the highest quality management standards in each phase, ensuring the consistent high-quality production of our products.

Material & Polarity Check

- Materials prepping
- IPQC check
- Solder paste screening
- SMT
- QC (8pcs/hour)
- AOI Check

SMT QC

- IPQC(8pcs/hour)
- PCB cutting
- FW version check
- IMEI check
- Print internal label
- Fix shielding case
- Paste label
- RF testing

IPQC Check

- Firmware download
- Wiring SN/IMEI
- CAL
- GPS testing
- PCBA FCT
- Assembling
- Couple FT
- Complete unit
- Print external label

Appearance QC

- QC (full check)
- EQC IMEI check & save
- Aging test 300pcs/day
- Packing
- OQC

► Our Lab and Factory

From the selection of the component to packaging the end product, we implement the highest quality management standards in each phase, ensuring the consistent high-quality production of our products.

Quality Certificates

We strictly comply with **ISO 9001**, **ISO 14001** and **IATF 16949** standards.

All of our official livestock products are **ICAR certified**.

Digitalized System

- Smart MES system, packaging data management system
- ERP cope with Big data
- Kingdee K3 system production control system
- CAD, CAE, CAPP, CAM smart system

Professional equipment

- Dust-free workshop
- Automatic screw machine, automatic dispensing machine
- 8960/GSM, CTP3110
- Handheld Comprehensive tester, GPS frequency signal generator

CUSTOMER-ORIENTED R&D

Precision and safety is what ALTSONS R&D team aims for. We want the freshest and pervasive creativity containing in-depth technical solutions to the real-world common business issues.

Transmission Security

Combining *coordinate encryption processing* (hexadecimal conversion) with *https encryption protocol*

Storage Security

Alibaba Cloud storage to ensure security, data access requires strict permission control.

**DATA
SAFETY**

**PRODUCT
STABILITY**

Client's
High Success
Satisfaction

Real-time precision

Unique trajectory algorithm enable milliseconds-respond& accuracy to < 1 meter

Multi-positioning mode

Integrated with GPS/Beidou/WIFI/base stations ensuring indoor & outdoor connection stability

Barely Crash

Integrated with reconnection process crash rate reduced to 0.01% compare to 1% by avg

99.9% System Stability
(*adapting Distributed Architecture*)

On-site storage +
Remote Disaster Recovery



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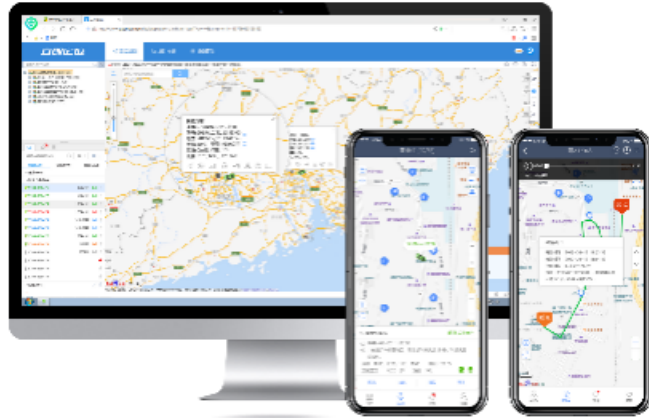
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Product Benefits & Applications

SAAS + IoT Device

ALTSONS Product Range

Software



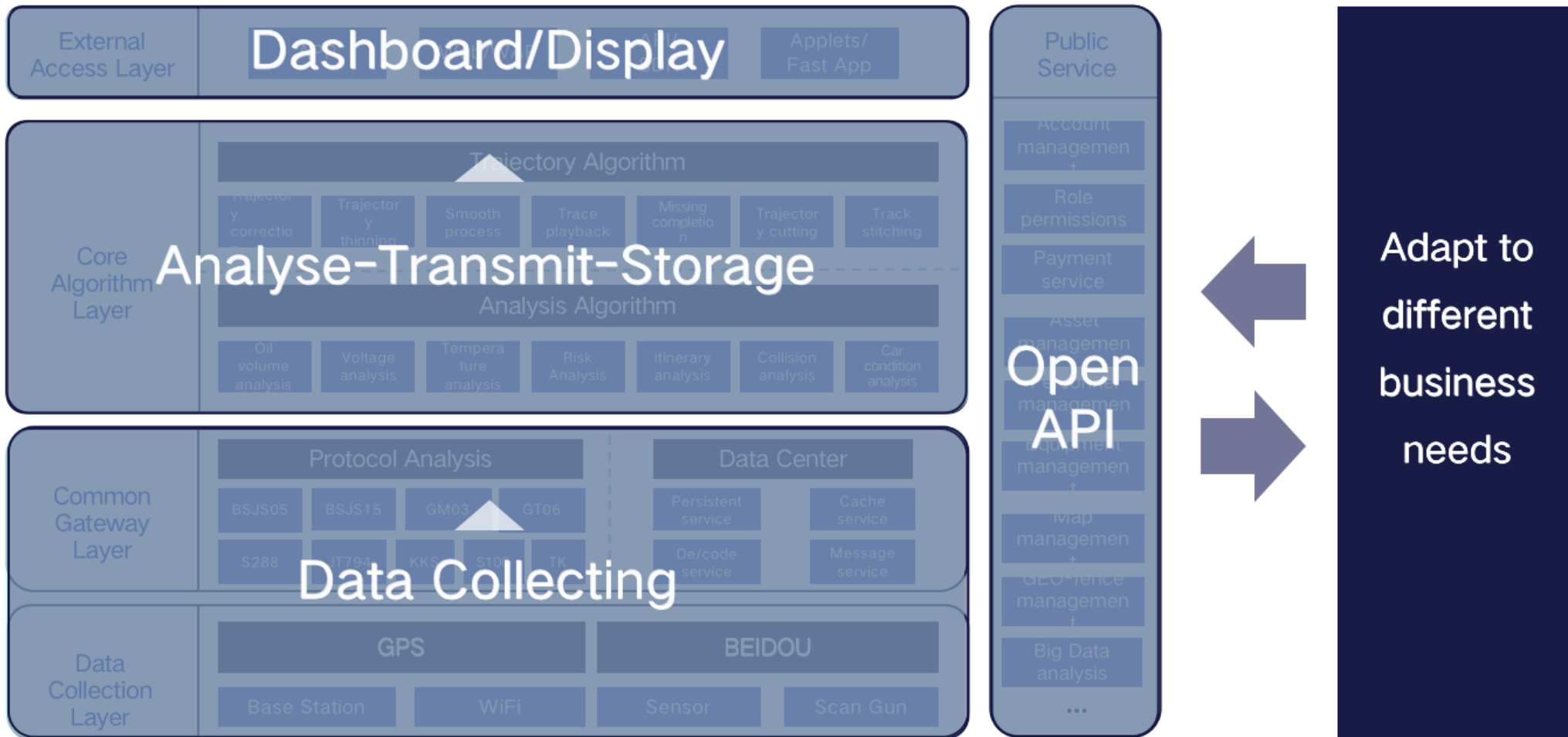
World' s Leading High-performance Gateway Based on AI Architecture

Hardware

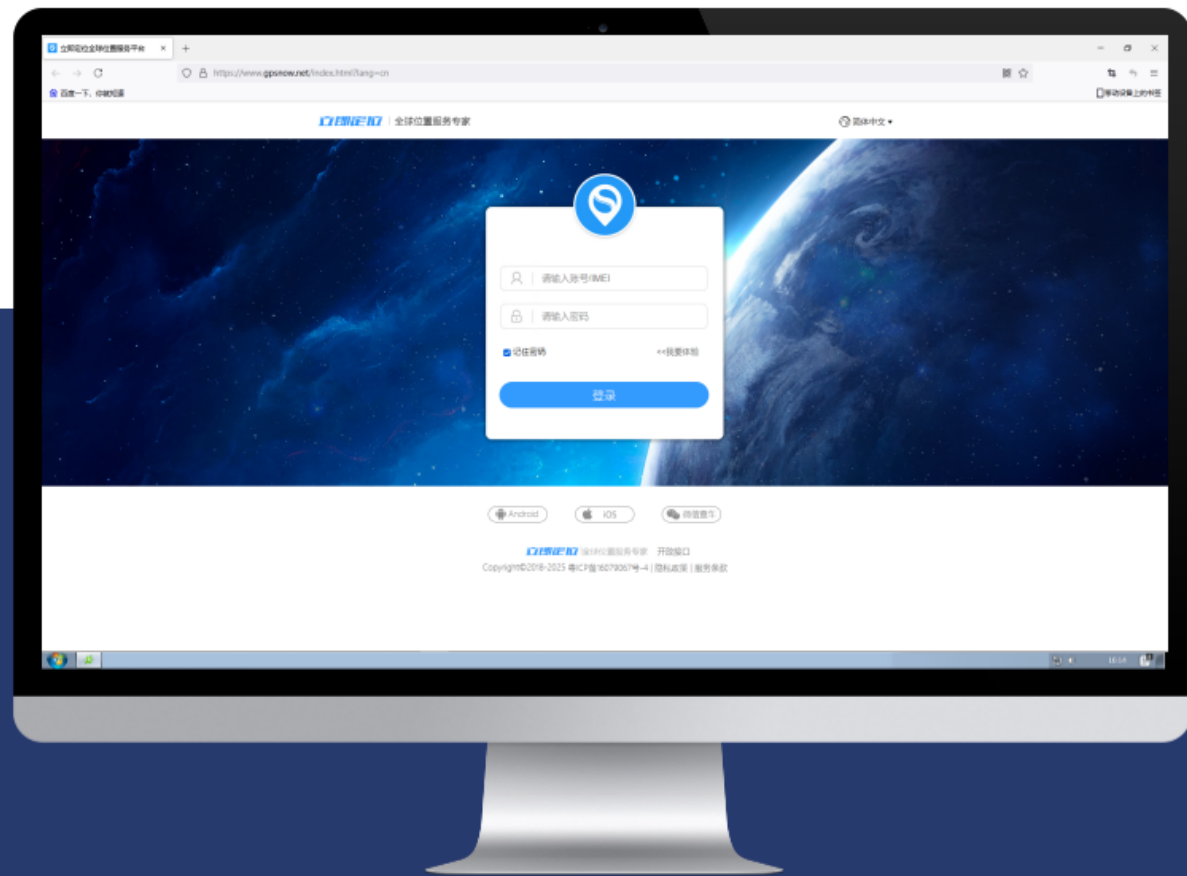


Self-Developed PCB With GPS, High Degree of Market Recognition

Software: SAAS Architecture Layers



ALTSONS's SAAS Platform: WhatsGPS



Base on Internet of Things

Built on AI/Cloud computing/Block chain/
Big Data etc.

Information Closed-loop

Achieve a perfect closed-loop from information collection to data recognition/analysis/processing and presentation.

Multiple API Interfaces

Connect people, equipment, data, and information as one, and multiple API interfaces meet the access of various types of equipment.

Personalized customization

Support the customization of individual needs from vertical industry customers.

Easy to manage

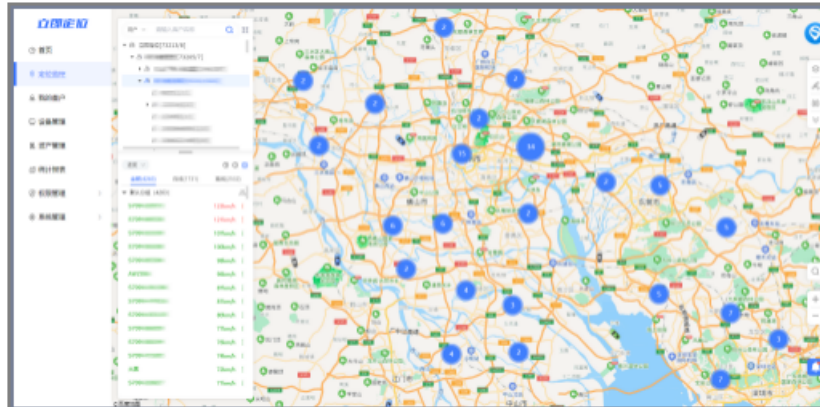
Provide excellent and convenient smart connection&managment service for domestic and foreign enterprises, governments and individuals.

Data linkage

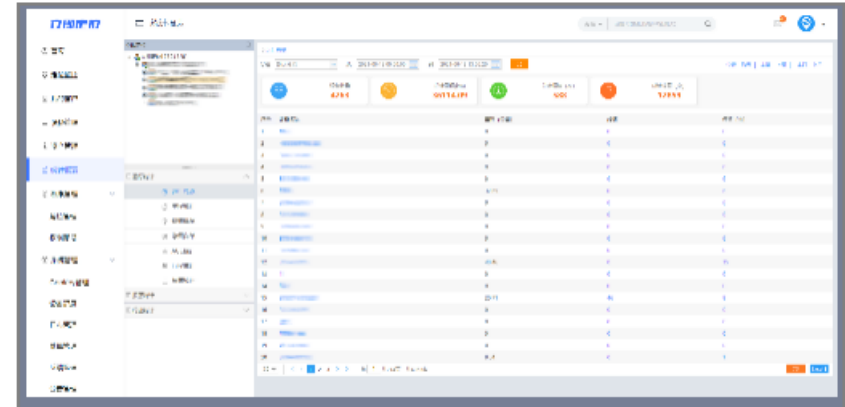
Provide a comprehensive and integrated IoT industry location service solution, and finally realize the data linkage between people and things, and promote the construction of IoT smart cities.

WhatsGPS: Empower IoT location services

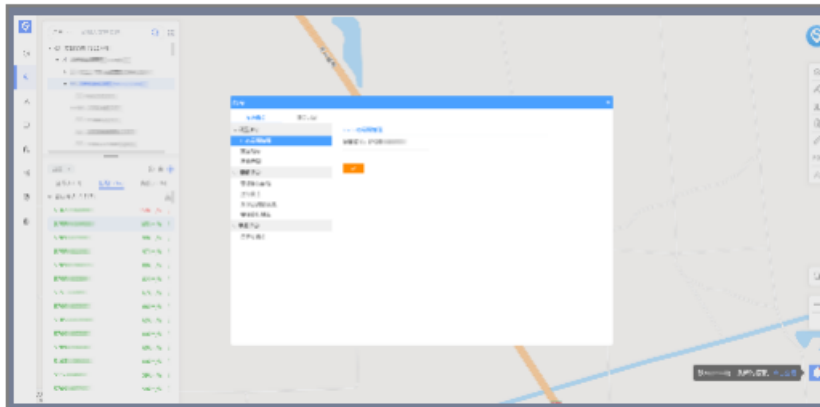
Vehicle management
Information query
Clear data



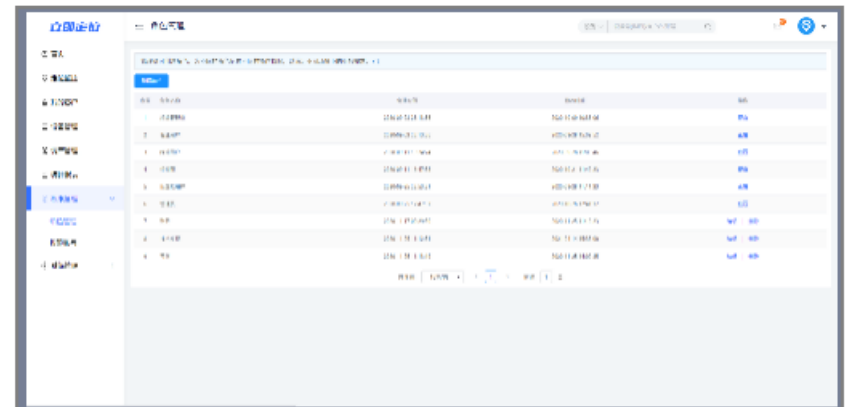
Tracking in seconds, find your car quickly.



Report vehicle status, early warning of abnormal conditions.



Remotely control vehicle and data.



Manage vehicles as character, authority, levels.

Software: SAAS Platform Benefits



Real-time And Accurate

- Unique trajectory algorithm;
- Tracking position in **milliseconds**;
- Accuracy improved to **within 1 meter**.



Safe And Reliable

- Original trajectory de/coding algorithm, **ensure data security**;
- Unique device reconnection algorithm;
- Crash rate can be **reduced to 0.01%**.



Multiple Positioning modes

- Deeply integrate **multiple tracking modes** like GPS/BEIDOU/WiFi and so on, ensure signal stability.



Big Data Processing

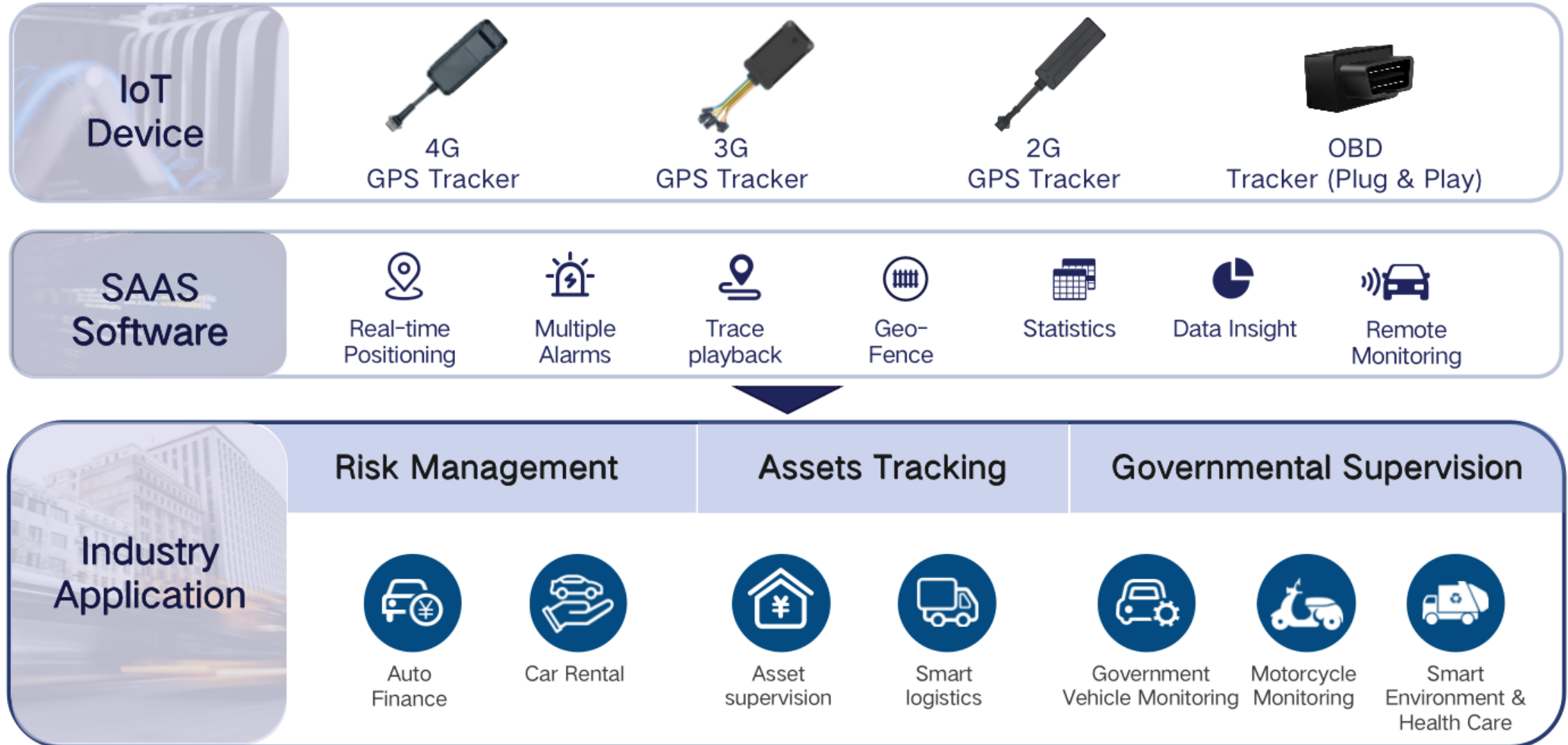
- Original gateway analysis algorithm, **data processing capacity is 10X** that of the industry;
- The equipment access volume **exceeds 100,000 for a single server**.



Data Transmission Safety

- Support **https encryption protocol**;
- Use **Ali Cloud** storage to ensure data security;
- Data accessing needs **authorization**.

Light, Fast And Stable SAAS + IoT Device, To Fulfill Diverse Industries



Our IoT Applications

Real-time GPS Tracking and Routing Fleet
All-in-one system

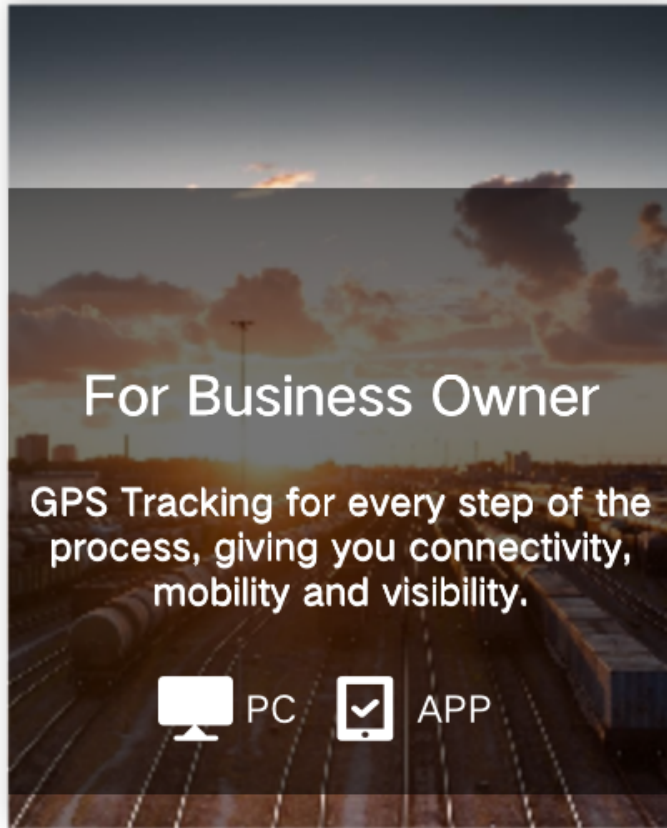
**Smart
Logistics**

**Smart
City**

**Smart
Auto-
Finance**

Smart Logistics:

Visualize every status of driver-cargo-vehicle & optimize your business decisions

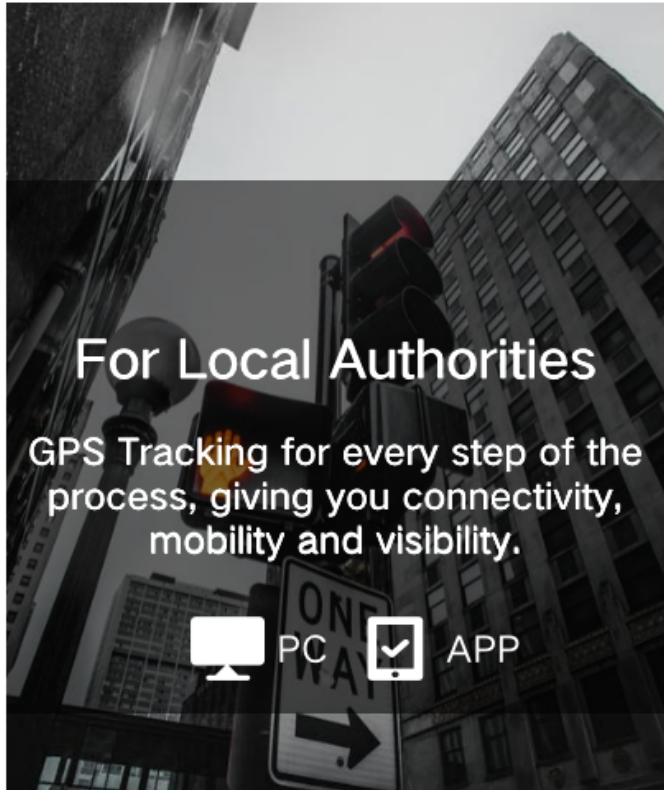


	Cargo Loading	Cargo In Transit	Delivery & Acceptance
Asset	<ul style="list-style-type: none"> Collision alarm Pallet Positioning Loading Status 	<ul style="list-style-type: none"> Cargo Status (collision alarm, light Sensor, opening alarm) Anti-theft 	<ul style="list-style-type: none"> Safety Delivery (Light sensor alarm)
Driver	<ul style="list-style-type: none"> Personnel Log 	<ul style="list-style-type: none"> Risk Prediction Alarm Driver Status (Tiredness Alarm) Emergency Call Vehicle Scheduling 	<ul style="list-style-type: none"> Behavior Analysis Behavior History
Vehicle	<ul style="list-style-type: none"> Vehicle Positioning 	<ul style="list-style-type: none"> Route deviation alarm Fuel Monitoring Real-time Position & Trace Anti-theft for Vehicle 	<ul style="list-style-type: none"> Trip Logging Time Record



Smart City:

Visualize Human-Vehicle management to prevent accidents & improve quality of public life



	Pre - Device Installation	While - Risk Management	Post-Data Analysis
Personnel	<ul style="list-style-type: none"> Personnel Management Visitor Log Smart Badge for driver 	<ul style="list-style-type: none"> Driving Safety Alarm Over-speed Alarm Emergency Call 	<ul style="list-style-type: none"> Driving Behavior Analysis Trace playback
(Electric) Vehicle	<ul style="list-style-type: none"> IoT Device Device Installation 	<ul style="list-style-type: none"> Collision alarm Vehicle Scheduling Real-time Position And Trace Operating Data Battery Temperature Monitoring Remotely Cut-off Petrol Geo-fence Route Deviation Alarm Anti-theft 	<ul style="list-style-type: none"> Trace playback Trip logging Time record



Industry Application



Electric Vehicle Management



Smart Campus



Smart Community



Car Hailing Management



Governmental Vehicle Management



Business Personnel Management

And More Industries...

Retail

Advertising PR | Production and Sales Tracking | Food Supply Chain | Virtual Shopping | Smart Store

Surveillance

AIoT intelligent management | remote monitoring | Outdoor image recognition technology | AI surveillance technology

Agriculture

Digital Agriculture | Agriculture IT Platform | cloud connection of agricultural machinery

Tourism

Tourist experience enhancement robot tracker | Automated Baggage Tracking

New Energy

New energy | VPP test | water resource utilization | Smart power management

Family

RFID Detection of Home Behavior | Body Management
Anti-theft system | Smart community | TV service | Elderly care



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Our Services & Case Studies

Our Services

Professional R&D

- Independently research and develop framework;
- Tens of millions of IoT data process capabilities;
- Mature project management experience;
- 12 years of professional R&D team.

Full Coverage Warranty

- Nationwide coverage of outlets;
- Fast response mechanism;
- One-to-one service saves worry and time;
- Innovative operation and maintenance management mode.

Agile Customer Service

- Comprehensive real-time location service;
- Standardized workflow & professional teams;
- Customized service;
- Thoughtful 3rd party monitoring service.

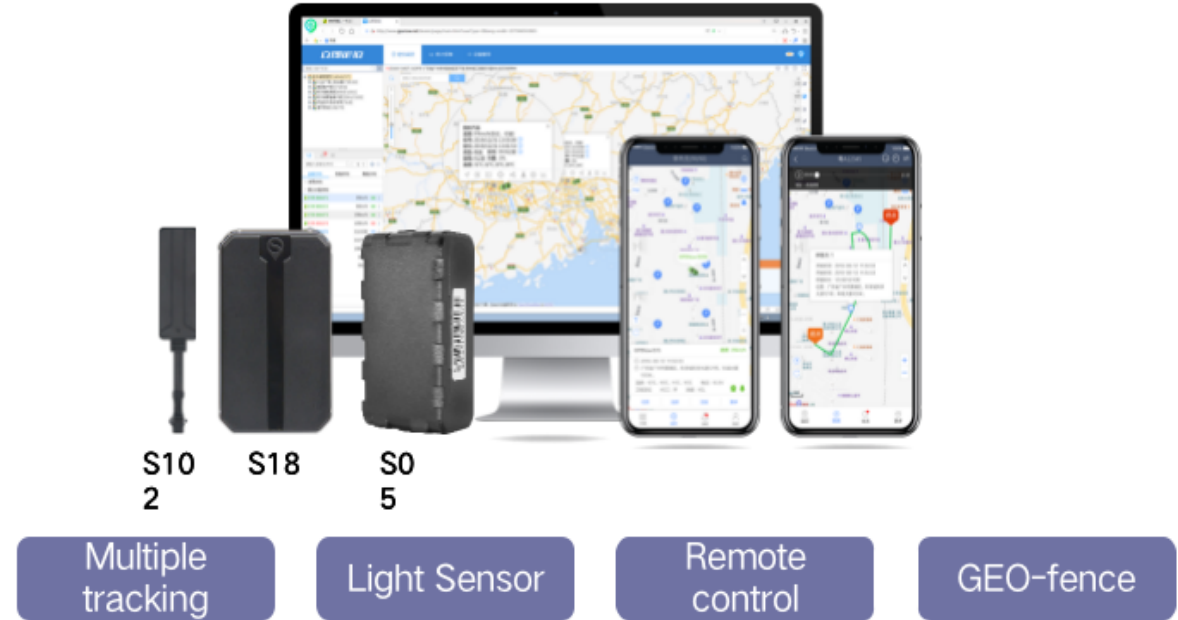
Case 1: Auto Finance Industry

● Industry Status

With the development of the economy and society, the auto finance has gradually increased, however, customer credit risks and asset safety issues have also increased.

● Industry Problem

- Second mortgage of loan vehicle
- Difficulties in vehicle traceability and accident imputation
- Complex loan vehicle data
- Incomplete customer access and credit system



Key Results

- ✓ Avoid the risks of sell-off
- ✓ Easily to trace the loaned car
- ✓ Do better at risk control
- ✓ Alarm the risk in advance
- ✓ Remotely control the vehicles
- ✓ Protect the cars in all aspects

Case 2 : Fleet Management Industry

● Industry Status

At present, with the expansion of fleet management needs, it also has problems such as private use of public vehicles, poor scheduling, and low efficiency need to be resolved urgently.

● Industry Problem

- Private use of public vehicles
- Poor fleet management scheduling confusion
- Employees use cars inefficiently
- Difficulties in reimbursement of employee petrol expenses



Real-time tracking

Petrol Monitor

Trace playback

Multiple alarms

Key Results

- ✓ Monitoring at your finger tips
- ✓ GEO-fence increase efficiency
- ✓ Driving logs/Trace playback to avoid unauthorized user
- ✓ Improve vehicle schedule
- ✓ Real-time petrol consumption monitoring
- ✓ Car data record, easy to manage

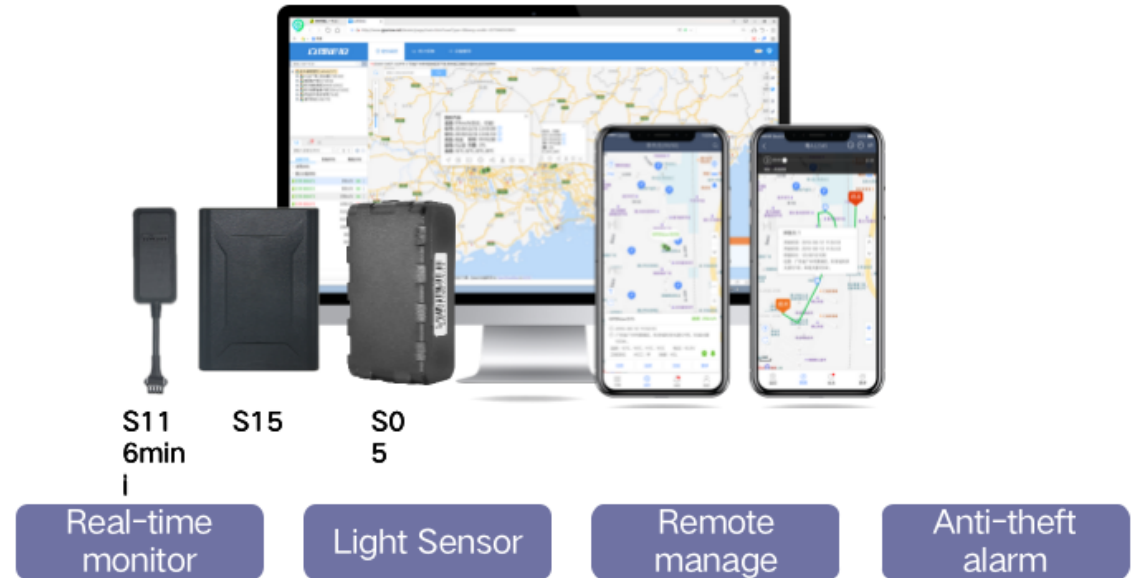
Case 3 : EAM Industry

● Industry Status

Enterprise asset management is an important part of enterprise development, however, some enterprises still have problems such as irregular management, unclear asset details, and threats of data leakage.

● Industry Problem

- Difficult to manage and transport asset
- Difficult to secure enterprise asset's data
- Asset digitalization-storage--cloud management
- Data management and analysis



Key Results

- ✓ Multi-Safety-Alarm for assets safety
- ✓ Supervise the transportation of assets
- ✓ Cloud management of enterprise asset's details
- ✓ Digitalization Increase efficiency
- ✓ Encrypted transmission safety guaranteed
- ✓ Enterprise asset data analysis and report output

Case 4 : Smart Logistics Industry

● Industry Status

As the development of the smart logistics industry, pain points such as low efficiency and poor scheduling in the industry need to be improved.

● Industry Problem

- No guarantee of the safety of people, vehicles and cargo
- Poor logistics vehicle management and scheduling
- Cargos are not transported in time
- No analysis of logistics data



S20
8

S1
9

S15

Real-time
tracking

Route
planning

Multiple
alarms

Remotely
listening

Key Results

- ✓ Supervision of people, vehicles and cargo
- ✓ Early warning of accident danger and alarm notification
- ✓ Intelligent dispatch and management of trucks
- ✓ Estimated timeline of arrival of cargo transportation
- ✓ Remote monitor and supervise of drivers to regulate driving
- ✓ Smart logistics data analysis and report output

Case 5 : Smart Environment Industry

● Industry Status

As a necessary link in the construction of a smart city, smart environment care is undergoing rapid development. However, the current smart Environment Care industry still has the problem of low on ROI.

● Industry Problem

- Personnel are scattered and difficult to manage
- Low efficiency of dispatching vehicle
- Hard to access the quality of sanitation operations
- Lacking operational data analysis and information processing



Real-time monitor

Petrol Sensor

Temperature sensor

Remote listening

Key Results

- ✓ Significantly reduce the operational cost
- ✓ Improve the efficiency of personnel management
- ✓ Visual monitoring of Sanitation vehicles
- ✓ Tracking and handling incidents on time
- ✓ Building personnel assessment system
- ✓ Intelligent data management

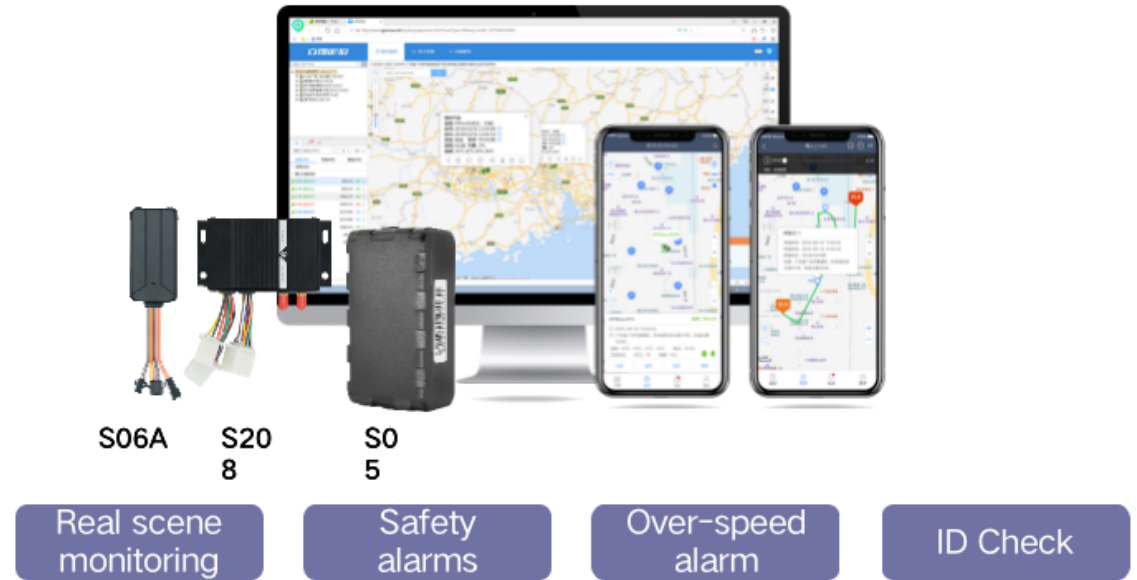
Case 6 : School Bus Management

● Industry Status

School bus is a great bridge between students to campus, but safety accidents are tough issues for many, including student safety protection and safe driving of vehicles have become new propositions.

● Industry Problem

- Problematic school bus scheduling
- Dangerous driving behavior causing accident
- Unclear school bus driving data
- Blind angle in the school bus



Key Results

- ✓ Real-time monitoring safety of student on school bus
- ✓ Visual monitoring enhances driver's professional ethics
- ✓ Multiple alarms standardize driver's behavior
- ✓ Smart route planning to cut cost
- ✓ Improve efficiency of school bus dispatch
- ✓ Data playback at anytime anywhere



Connectivity Builds A Better World

THANK YOU

For Any Business Queries

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