

MEITRACK TA255L MULTI-SCENARIO APPLICATION SOLUTION

GPS asset locator that can be flexibly used in a variety of scenarios such as maritime and indoor / outdoor.



Asset locator

Logistics transportation

Indoor positioning

www.meitrack.com

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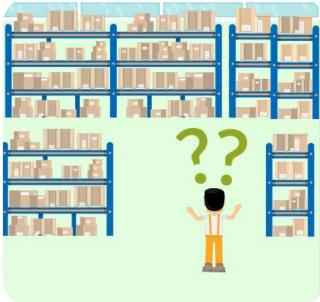


Project Background



The logistics and transportation process often involves different scenarios, such as near-sea / long-sea transportation, road transportation, warehouse management, etc. These scenarios may face some pain points.







Pain point: Difficulty in recording navigation tracks to optimize routes

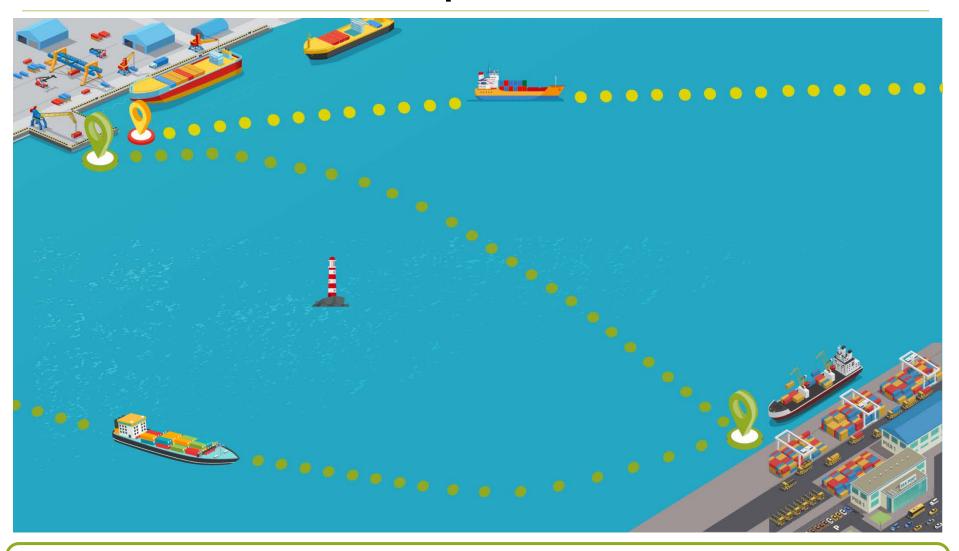
Pain point 1: Unable to query which warehouse the device is currently in Pain point 2: Unable to analyze the idle status of shelves, resulting in waste of resources

Pain point 1: Cannot checked the real-time position, the delivery may be delayed
Pain point 2: There is no continuous power supply in the rear compartment



Scenario 1 - Maritime Transport





In maritime transport, managers often cannot know the trajectory of the ship during transportation; when the ship arrives at the destination port, they cannot receive notification in time, which will reduce logistics efficiency and is not conducive to optimizing and improving the route.

Scenario 1 - Maritime Transport

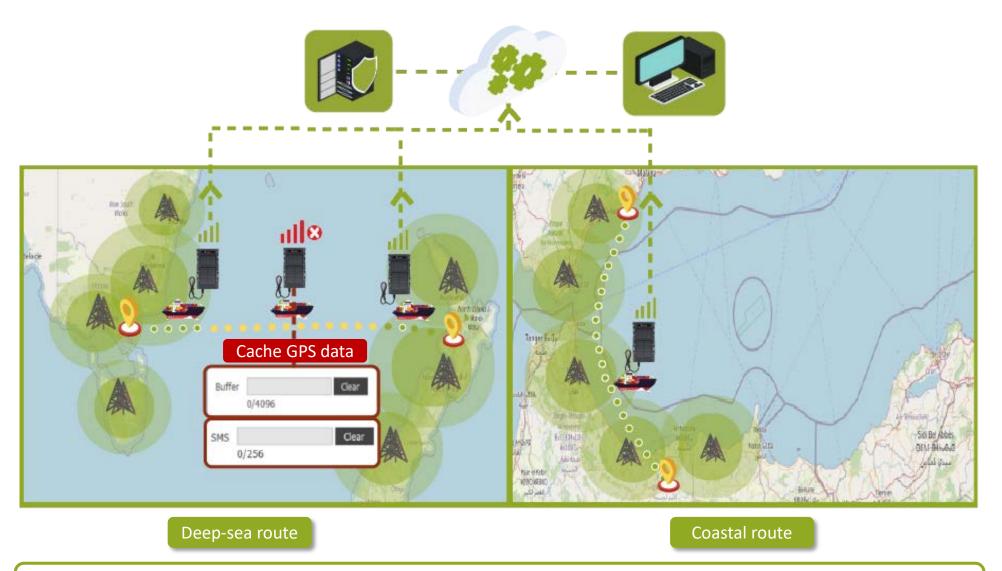




Installing the TA255L on the transport ship, the device's IP67 waterproof rating ensures stable operation in any weather conditions.

Scenario 1 - Maritime Transport





When on a coastal route, the device can locate in real time; when on a deep-sea route, the device can temporarily cache 4096 pieces of data and wait for the GSM signal to recover when entering the port before uploading.







Scenario 2 - Trailer Truck



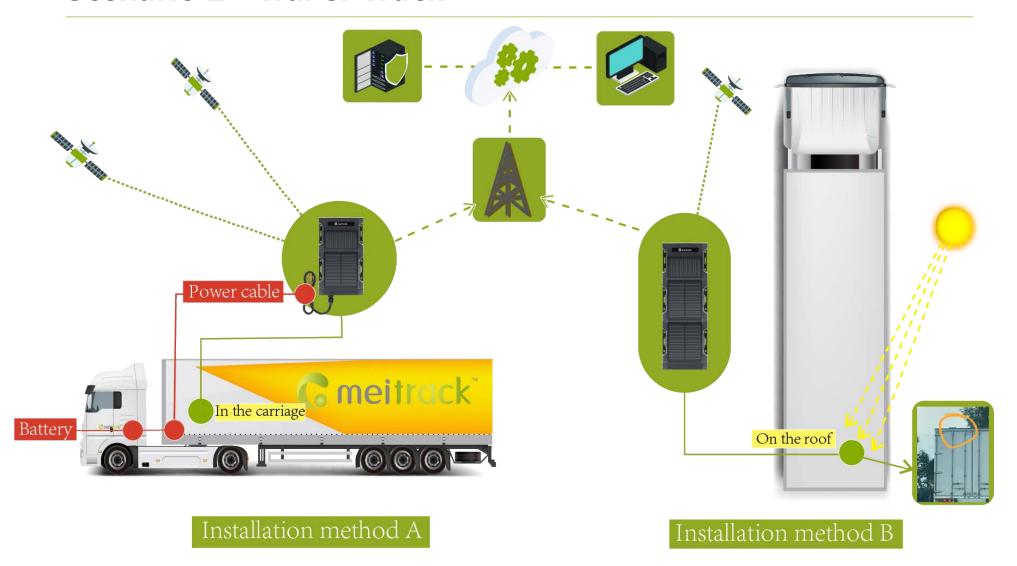


Trailer are common non-powered assets in the logistics industry. Users cannot view the location of trailer in real time, so delays in delivery of items often occur.



Scenario 2 - Trailer Truck





In a trailer truck, the TA255L IO cable version (left) or magnetic cable version (right) can be installed in different ways.

Users can choose to connect to the vehicle battery for continuous charging or use the device's internal battery and rely on solar power to charge.

Scenario 2 - Trailer Truck



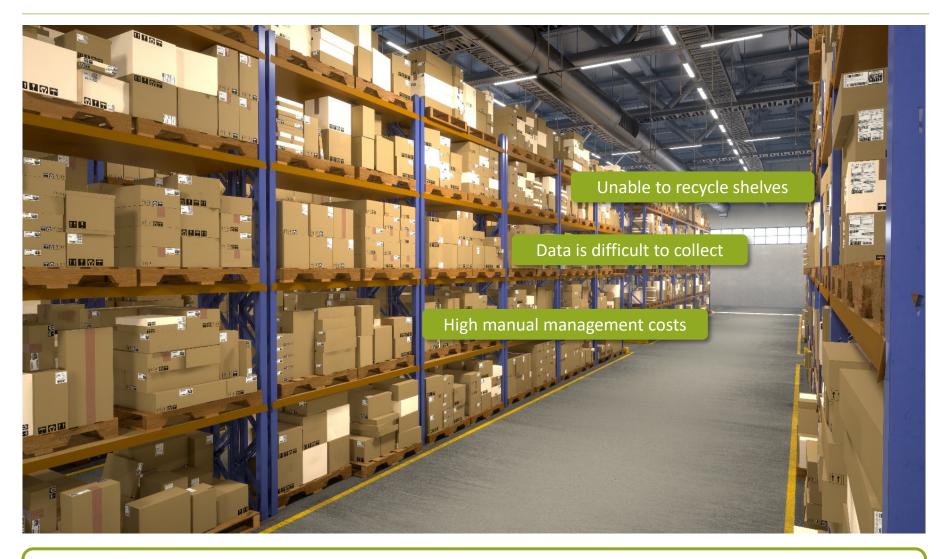


Users can view the real-time or historical track of the device on the Meitrack platform and use data reports to analyze the driver's driving behavior.



Scenario 3 - Warehouse





During logistics turnover, unable to know which warehouse the shelves are currently located in, so the idle shelves cannot be recycled. Combining indoor positioning with an IoT platform can effectively solve this problem.

Scenario 3 - Warehouse





Install TA255L on different shelves. Even in the warehouse, you can use BLE beacons or wifi signals to obtain an approximate location range.

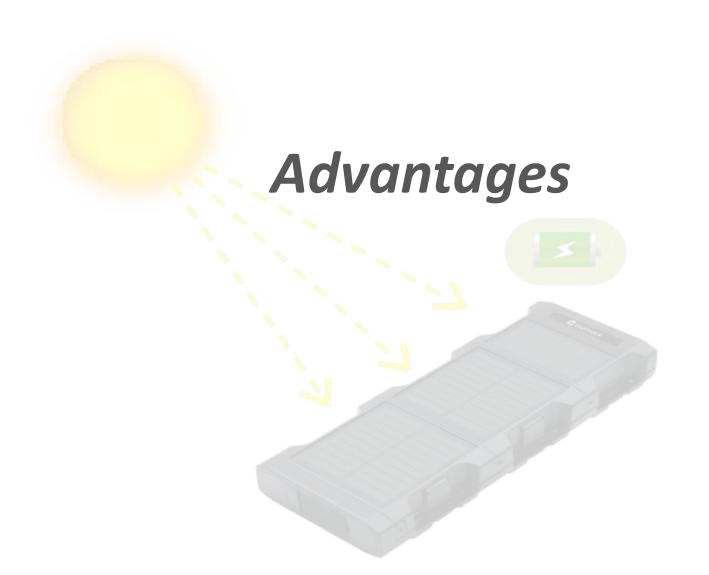
Scenario 3 - Warehouse





On the Meitrack platform, you can bind the wifi mac address in the warehouse to the map location, and then the map can show the location of the devices indoors. (Approximate location range)

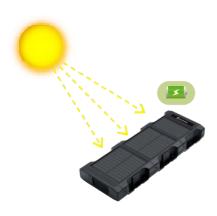




Advantages

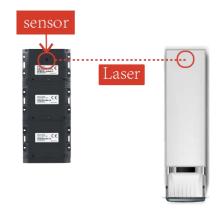






In sunny areas, if one data is uploaded every ten minutes, the device can last forever.

TOF laser sensor



Built-in TOF (Time-of-Flight) laser sensor to support device fall-off detection

Ultra-long battery life



Relying only on the built-in battery, it can last for 570 days (uploading one piece of data every day)

Bluetooth temperature sensor

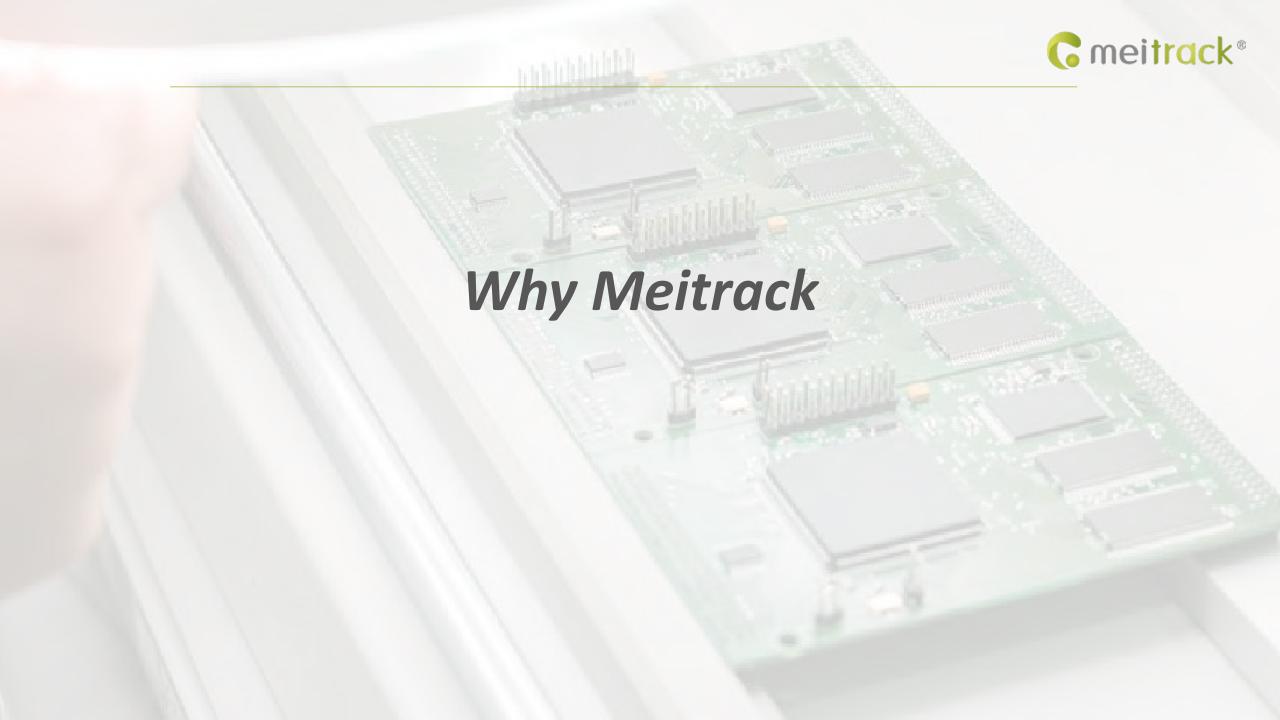


Support Meitrack AST101/AST102 temperature sensor /ELA temperature sensor

Advantages



Flexible combination of 3200/12800/22400mah battery box Removable battery Solar charging Built-in solar panel IO/ magnetic charging Support IO cable charging / magnetic cable charging OTA/FOTA Support OTA/FOTA upgrade Can work normally even in rainy days IP67 waterproof GEO-fence Support entering / leaving exit GEO-fence alarm Support Bluetooth module, can detect Bluetooth beacon / Bluetooth Bluetooth module temperature sensor Supports updating GPS location every second, real-time tracking Real-time positioning Wifi module Can detect nearby WiFi signals to achieve WiFi positioning TOF laser sensor Alert when device is removed and tracking continues MQTT protocol can be customized MQTT protocol Encryption protocols can be customized, such as "AES, HTTPS+TLS1.2" Encryption protocol



Why Meitrack



Professional

Meitrack has been continuously developing in the GPS field for 20 years, the stability and functionality of the products have been tested by the market for a long time

Good Service

Meitrack's aim has always been to focus on the customer and to provide the highest quality service

Customizability

To provide customers with the functional customization to meet the needs of the project, it is not only a sense, but also a capability

Innovation consciousness

We are not afraid to push our limitations and are willing to innovate to adapt to the changing markets



Gmeitrack[™] THANKS



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