MOKO LoRaWAN Tracker
LW008-MT Series

ACCELERATION MAGNETIC
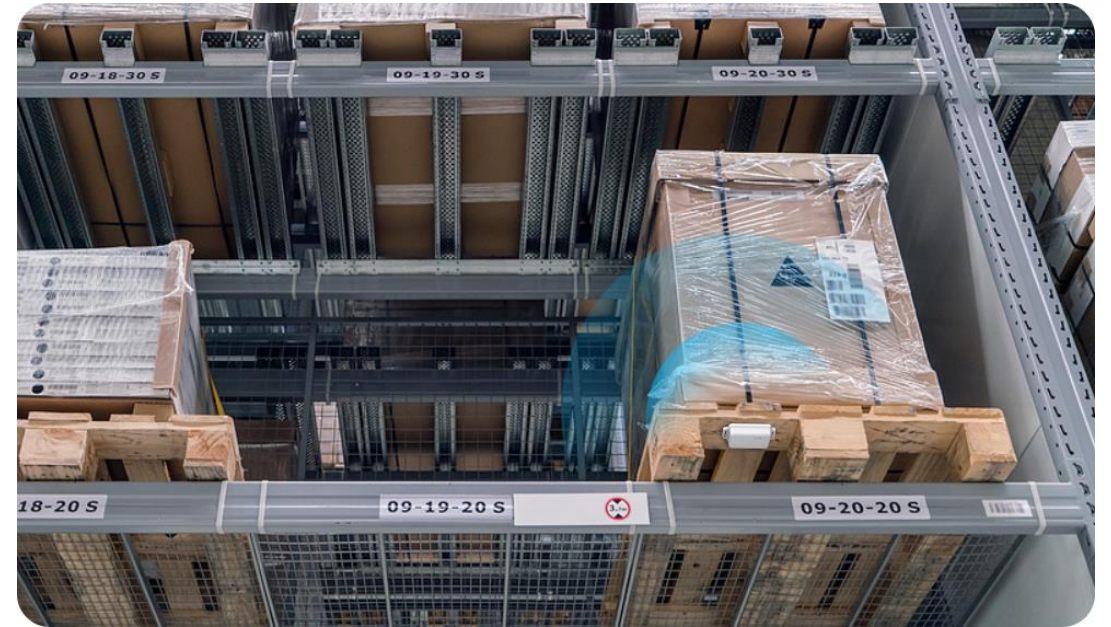
MOKO SMART

Product Introduction

LW008-MT series are small size LoRaWAN Trackers that can be used for indoor and outdoor positioning, for building construction, logistics tracking or other asset tracking. Due to the smaller size, LW008-MT can be used to track smaller size vehicles and assets than traditional trackers.

The products are drop-proof, abrasion-resistant, waterproof and resistant to other harsh usage environments.

It integrates GPS positioning, Bluetooth positioning and WiFi positioning, supports a variety of working modes, suitable for most tracking applications(Indoor & Outdoor).

Features

1. Support multiple working modes

LW008-MT supports standby mode, periodic mode, timing mode and motion mode. Users can choose the corresponding mode according to the actual application scenario, and the mode can be switched between.

2. Multiple positioning strategies available

LW008-MT supports GPS positioning, WIFI positioning and Bluetooth positioning.

There are seven positioning strategies for LW001-BG PRO:
➢ Only WIFI
➢ Only Bluetooth
➢ Only GPS
➢ WIFI+GPS
➢ BLE+GPS
➢ WIFI+BLE
➢ WIFI+BLE+GPS

Users can choose different combinations of positioning technologies for actual application scenarios.

3. Multiple versions support

LW008-MT series mainly has two models LW008-MT and LW008-MTP.

LW008-MT: Built-in LR1110 positioning chip to achieve GPS positioning function(With LoRa Cloud), lower power consumption, longer battery life.
LW008-MTP: Traditional GPS positioning(Built-in independent GPS positioning module), positioning data acquisition is simpler and does not require additional integration with LoRa Cloud services.

Features

4. Downlink request for location

User can send location request to the device actively through LoRaWAN server, the device will start to locate immediately after receiving the request and upload the location information to the server when the locating is finished. This allows us to get location information in time when there is an emergency.

5. Man Down detection

If the LW008-MT is not moved for a long time, and beyond the set idle timeout, the device will send idle payload to remind the user of the current idle status to prevent the tracked device or livestock from abnormal conditions.

6. Local data back up

The reported data will be stored in the Flash chip of the device, and when encountering problems such as network problems or packet loss, users can get the data through MKLoRa APP or LoRaWAN downlink command to ensure the integrity of the tracking data.

7. IP67 waterproof

The rugged housing design and IP67 protection class enable the device to maintain stable operation even in harsh working environments.
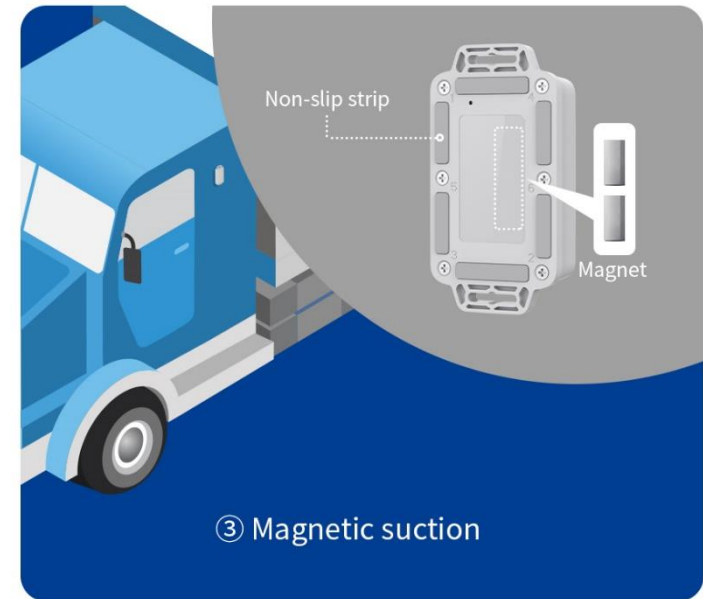
8. Magnetic mounting function (optional)

The product can be built-in magnet for magnetic suction installation, widely used in vehicle tracking, metal asset tracking, etc., easy and simple installation, does not leave any installation traces.

Features

9. Multiple installation Ways

The product can be mounted by screws, double-sided tape, magnetic suction, etc., and is suitable for most applications.

① Double-sided tape	② Screws	③ Magnetic suction

10. Large Capacity Battery

LW008-MT is equipped with a 2100mAH capacity battery pack with a lifetime of approximately five~ten years under typical use scenarios. (Twice WIFI positioning one day, five seconds per positioning; twice Bluetooth positioning one day, five seconds per positioning; twice GPS positioning one day, 3 minutes each positioning)

*LW008-MTP is equipped with a 2100mAH capacity battery pack with a lifetime of approximately two years under typical use scenarios.

Applications

Scenario 1:Small Vehicle Tracking

The device can be used to track the location of small vehicle (pickup trucks, motorcycles, electric bicycles, etc.) in real time and on a regular basis, or it can be used for location tracking and equipment management based on the movement status of small vehicle.

Applicable function:

Periodic mode or motion mode;
GPS Positioning;
Rugged and IP67 waterproof;

Applications

Scenario 2: Warehouse Management
Due to its small size, the LW008-MT can be used by users for tracking and managing small shipments.

For example, in warehouse management, the LW008-MT is installed on the corresponding important goods, and the location of the goods and their entry and exit are intelligently managed by the reported location information.

Applicable function:
Motion mode/Timing mode;
Bluetooth positioning;

Applications

Scenario 3: Industrial asset tracking
LW008-MT can be used for industrial asset tracking.

In outdoor environment, GPS technology can be used for location tracking;
in indoor environment, WIFI or Bluetooth technology can be used for location tracking.

Using the timing mode, the location information can be obtained at a fixed point in time every day, thus forming an intelligent management of assets and devices.

Applicable function:
Timing mode;
Multiple positioning strategies;

Main Specification

LoRaWAN

LoRaWAN V1.03

7 km communication distance
(in urban open space)

Battery

1*AA ER14505M 2100mAh
Replaceable battery

Material

ASA + PC

Dimensions

94.6mm*51.7mm*22.8mm

IP Rating

IP67

Operating Environment
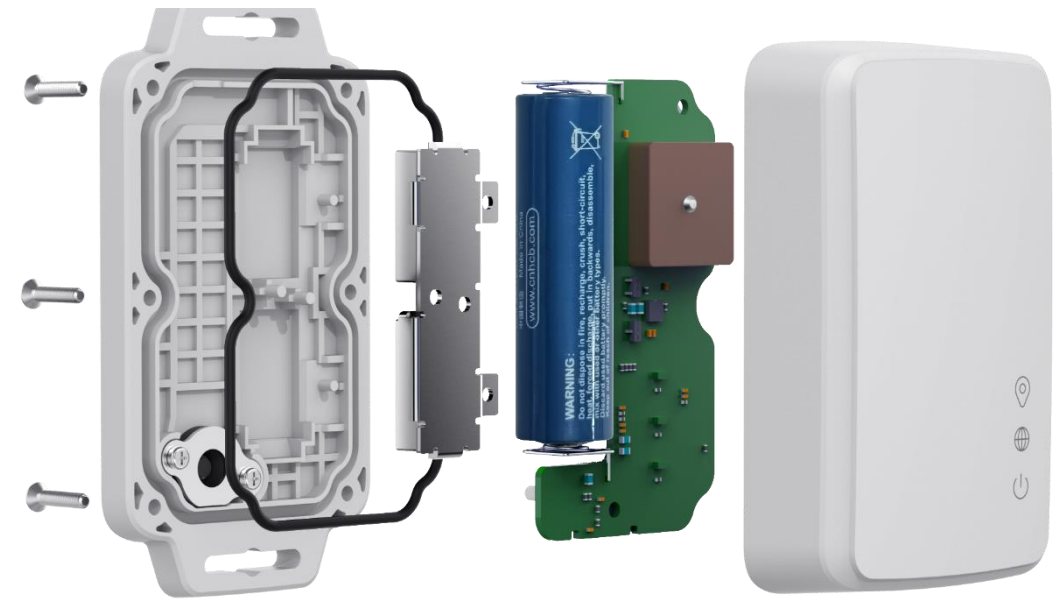
Temperature: -40℃~80℃

Humidity: 5%--95%

Color

Gray

Certification (pending)

USA: FCC
Europe: CE
The certifications are on the process,
other certifications can be customized

Customized Service

Based on MOKO standard product

➤ You can develop your own mobile APP, MOKO provides Android and iOS APP SDK for you to reduce your development time
➤ Provides white label service, support customized label and package, also can print your company logo on the products
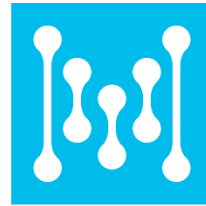
Based on MOKO standard hardware

➤ Support firmware and APP modification according to customer's requirements
➤ Support light customization on MOKO standard hardware

New product design

If MOKO standard products don't meet your requirements, MOKO supports the design of new products for you, including:
➤ Hardware design
➤ Software development
➤ Mechanical design

More details about the customized services, please contact our sales team: Sales@mokosmart.com

MOKO TECHNOLOGY LTD.