# 深圳市龙桥科技发展有限公司
## SHENZHEN DRAGON BRIDGE TECHNOLOGYLIDE COMPANY

*Application :Rental cars, insurance cars, trucks, buses*

*Wireless Fleet management Solution Innovator*

*GSM/GPRS/GPS Tracker*

## User  Manuel

### LTS-J10Y

**ROADRAGON** ®
路特龙

# Contents

# 1  Introduction

## 1.1 product description

The container satellite positioning information collection terminal (model LTS-J10Y) is a GPS positioning terminal specially designed for container positioning monitoring. The LTS-J10Y uses a high-performance military battery that wakes up every 24 hours and sends positioning information, then returns to deep sleep mode for up to ten years. Through the GSM/GPRS communication technology, LBS base station positioning and GPS positioning technology, combined with the flexible configuration of the multi-mode of the location service monitoring and management system, the container can be monitored and tracked. Mobile assets can be queried and tracked through IE browser, Android mobile APP, Apple IOS mobile APP.

# 2  Product  Overview

## 2.1  Product  accessories

| Items description | Photo |
|---|---|
| Main device LTS-J10Y |  |

## 2.2  Interface  Definition

Host interface

## 3.Technical Parameters

| project | specification |
| --- | --- |
| Working voltage | DC3.6V |
| Working current | <100mA |
| Dormant current | <10uA |
| Weight | 234g |
| Size | L205mm*W68mm*H27mm |
| Positioning method | GPS+Beidou Dual-mode positioning |
| GNSS performance | GPS L1:1575.42MHz,C/A Code<br>BD B1: 1561.098MHz |
| Auxiliary positioning | With AGPS assisted positioning |
| Positioning error | GPS positioning error <10m (empty environment); base station positioning error <50~200m (urban area) |
| Communication network | GSM/GPRS |
| Working temperature | -20 ° C ~ +70° C |
| Storage temperature | -40 ° C ~ +85 ° C |
| Battery capacity | 8100mAH (Optional) |
| Waterproof rating | The terminal meets the requirements of IP67 in QC/T 413-2002 3.6, waterproof and dustproof. |

## 4. Product performance

1) Adopt 3 high-performance military batteries to prevent high temperature and passivation

2) Support global quad-band GSM/GPRS850/900/1800/1900MHz

3) Dual mode positioning: GPS positioning + base station positioning

4) With AGPS-assisted positioning, it can quickly locate

5) Working mode: interval mode, single/multi-group alarm mode, week alarm mode, etc.

6) platform remote configuration parameters, spike SMS configuration

7) Battery power inquiry, low battery alarm, reminder to replace the battery

8) Ultra low power consumption is less than 1 uA, very power saving, long standby time

9) According to the shape design of the container hood, it can be used as a concealed installation effect.

10) Waterproof, dustproof and shockproof design, measured in 1 meter deep water for 30 minutes without water, reaching IP67

## 5. Product Features

| No. | Function Details | | Function Description |
|---|---|---|---|
| 1 | Operating mode | Interval mode | Wake up and return location data according to the set time interval, such as every 30 minutes |
| 2 | | Alarm mode | You can set 1~5 groups of wake-up alarms every day, automatically wake up at the set time, and then sleep after returning the position data, such as 8:00, 12:00, 16:00, 17:00, 23:00 |
| 3 | | Weekday alarm mode | You can set the terminal to wake up the alarm from Monday to Sunday, and automatically wake up and return the location data at the set time. For example, you can set Monday, 2nd, 3rd, 4th, and 5th at 12:30. You do not need to work on Saturdays and Sundays. |
| 4 | | Emergency tracking mode | When an alarm is encountered or continuous monitoring is required, an emergency tracking command can be issued to continuously track the terminal. |
| 5 | Terminal parameter configuration | | Remotely set IP, port, APN, working mode, wake-up period, etc. by issuing commands from the platform. |
| 6 | Historical parameter query | | Query history configuration parameters through the platform |
| 7 | Battery power inquiry | | The terminal automatically returns the current battery power, and the user can query the remaining power through the platform. |
| 8 | Low battery alarm | | When the battery reaches the threshold, the terminal automatically sends a low battery alarm to the platform. |
| 9 | Wiring free installation | | No external wiring is required |

## 6. Application scenario