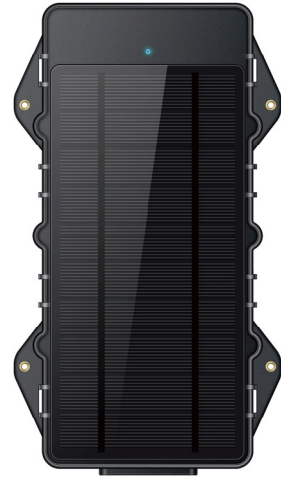




LL303

LTE Solar Powered GNSS Tracker

The LL303 is a 4G solar-powered tracker designed for the management of construction vehicles and vessels. Featuring the solar panel, magnetic charger, and IP67 waterproof rating, this device is ideal for a variety of deployments that require long standby time and continued optimal performance. LTE communication with GSM (2G) fallback ensures a solid connection in almost all cases. In addition to these features, multiple working modes, various peripheral accessories and the suite of event-triggered alerts will make the LL303 a valuable part of your fleet management strategy.



Construction Machinery



Asset & Logistics



Vessel Tracking



LTE & GSM Network

Communication via 4G LTE networks with 2G GSM fallback.



GPS & LBS Positioning

A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.



Solar & Magnetic Charging

Easy charging via the solar panel and magnetic charger.



IP67 Dust & Water Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.



Multiple Alerts

Instant alerts for atypical events such as device removal, abnormal vibration, abnormal temperature & humidity, etc.



Multiple Working Modes

Configurable working modes according to your actual demands.



Bluetooth Accessory Compatibility (Optional)

Various Bluetooth peripheral accessories allow for monitoring of fuel consumption, door status, etc.



RFID Broadcast (Optional)

Access the information of devices via the active RFID reader.

Standard Configuration

Positioning & Location

Technology	GPS, LBS
Accuracy	< 2.5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start < 1sec; Avg. cold start < 32sec

Cellular

Technology	LTE Cat 1, LTE Cat M1 & LTE Cat NB2, GSM LL303-LA: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD: B40 GSM: B2/B3/B5/B8 LL303-EU: LTE-FDD: B1/B3/B5//B7/B8/B20/B28 LTE-TDD: B38/B40/B41 GSM: B2/B3/B5/B8 LL303-NA: Cat M1: B2/B4/B5/B12/B13/B25/B26/B66 Cat NB2: B2/B4/B5/B12/B13/B25/B26/B66 GSM: B2/B3/B5/B8
Frequency	

Power

Battery	10,000mAh/3.7V industrial-grade Li-Polymer battery (rechargeable) 5V/400mA (Standard Operating Voltage/Current @STC)
Solar power	STC: Direct illumination with 38,000lux halogen lamp on the test bench.
Magnetic charger	5V/2A Mode 1: Timing mode
Working modes	Mode 2: Intelligent mode Mode 3: Power-saving mode
Battery life	10 days to 1 year

Interface

LED indication	Cellular (Green), Power (Red)
SIM	Nano-SIM
Memory capacity	1000 GPS data entries
Tamper proof	Hall effect sensor
USB	4-Pin magnetic wire
GNSS antenna	Internal
Bluetooth antenna	Internal

Feature

Voice monitoring range	N/A
Sensors	Accelerometer, Buzzer, Hall effect sensor, NTC Low battery alert, Tamper alert, Vibrating Alert,
Scenarios	SIM card change alert, Temperature & humidity exception alerts (optional)
Mount method	Self tapping screws
Bluetooth	BLE 5,0
RFID	2.4GHz
Configuration support	APP, Tracksolid Pro, PC Tools, SMS
Certification	CE, FCC, PTCRB

Operating environment

Operating temperature	-20 C to +70 C
Operating humidity	5% to 95%, non-condensing
IP rating	IP67

Physical specification

Dimensions	200,0 x 115,0 x 25,0mm (mount base excluded)
Weight	423g

Standard Packing

LL303 unit	1	Ejector pin	1
Charging cable	1	Self-tapping screw	4
Mount base	1	Flat head screw	4
Screwdriver	1	Anti-theft screw	4

Optional Configuration*

Bluetooth sensor	K7800 environmental sensor
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*Optional Configuration required to be customized or purchased separately.