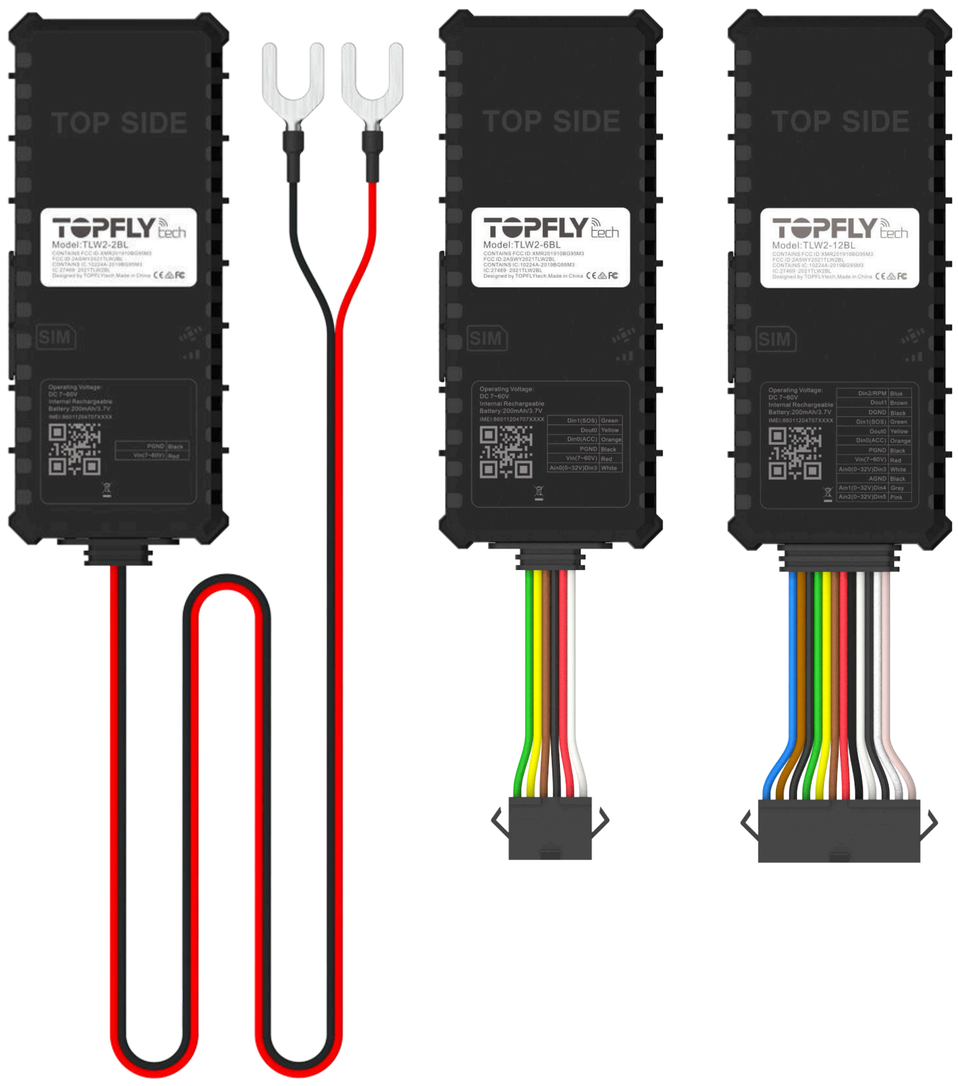


4G HARDWIRED GNSS TRACKER

Hidden installation for all objects with power

TLW2 Series 4G

LTE Cat-M1(eMTC)/Cat-NB1(NB-IoT) GNSS tracking devices for wide ranging applications.



- Compact Size
- Easy Installation
- Crash Detection
- Firmware Over the Air
- Geo-fences
- Motion Detection
- Driving Behavior Monitoring
- BLE 5.0
- Support Fuel Level Sensor (6BL and 12BL)
- Support Temperature Sensor

55g (1.94oz)

102.5mm x 42.5mm x 12mm
(4.04" *1.67" *0.47")

-30°C - +80°C
(-22°F -176°F)

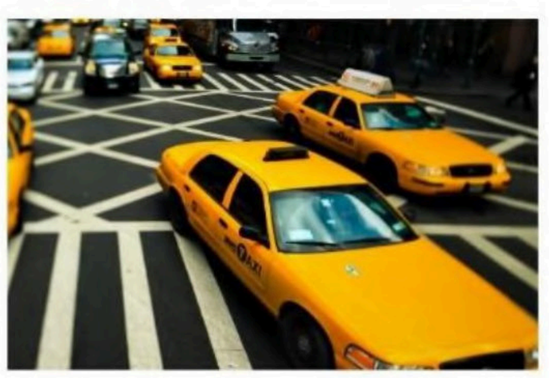
Operating Voltage:7V to 60V DC
with internal Li-Polymer battery

Certificates:

*Please reach out to us if you need any certificates in particular







The TLW2 series includes 3 models which cover the mainstream scenarios such as fleet management, cold chain, transportation monitoring, etc. TLW2 series supports LTE Cat-M1(eMTC) / LTE Cat-NB1 (NB-IoT) network on multiple band for operation in both North America, Australia and Europe.

TLW2 SERIES SPEC

Network/Operating Band	
Models	TLW2-2/6/12BL
Operating Band	Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM/EDGE 850/900/1800/1900MHz
Data Transmission	eMTC: Max. 588Kbps (DL), Max.1119Kbps (UL) NB1: Max. 32Kbps (DL), Max. 7OKbps (UL) NB2: Max.127(DL), Max.158.5(UL) EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max 107Kbps (DL), Max. 85.6Kbps (UL)

GNSS Specifications	
GNSS Chipset	MediaTek High Gain GNSS receiver
Parallel GNSS	GPS+Glonass or GPS+Beidou
Receiver Type	33 tracking / 99 acquisitions- channel GNSS receiver
Sensitivity	Acquisition: -149dBm Tracking: -167 dBm Reacquisition: -161 dBm
Horizontal Position Accuracy	Autonomous:< 2.5 m CEP
TTFF @ -130 dBm with(without)EASY™	Cold Start: < 15s(32s) Warm Start: < 8s(28s) Hot Start: < 1s(1s)

Interface			
Models	TLW2-2BL	TLW2-6BL	TLW2-12BL
Digital Input	-	2	3
Digital Output	-	1	2
Configurable Input (Digital/Analog)	-	1	3
LTE/GNSS/Bluetooth Antenna	Internal only		
Indicator LED	Network and GNSS		
FOTA	Yes		
BLE (Bluetooth Low Energy)	5.0		

General Specifications	
Waterproof	IP65
Dimensions	102.5mm x 42.5mm x 12mm (4.04" *1.67 *0.47') 55g
Weight	(1.94oz)
Backup Battery	Li-Polymer 200 mAh/ 3.7V
Operating Voltage	7V to 60V DC
Operating Temperature	-30°C — +80°C (-22°F — 176°F)
Storage Temperature	-40°C — +85°C (-40°F — 185°F)

Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5/ AES256
BLE Accessory Support	Yes
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
External Power Status Alarm	Report when external power is disconnected
Low Power Alarm	Report when backup battery is low
Speeding Alarm	Report when speed exceed the pre-set value
Towing Alarm	From internal 6-axis accelerometer
Remote Control	Remote output control
Network Signal Jamming Detection	Report network jamming
Data Roaming Control	Avoid additional data consumption
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis

Industry Certifications
CE, RCM, IC, FCC, E-mark, PTCRB, AT&T, T-Mobile