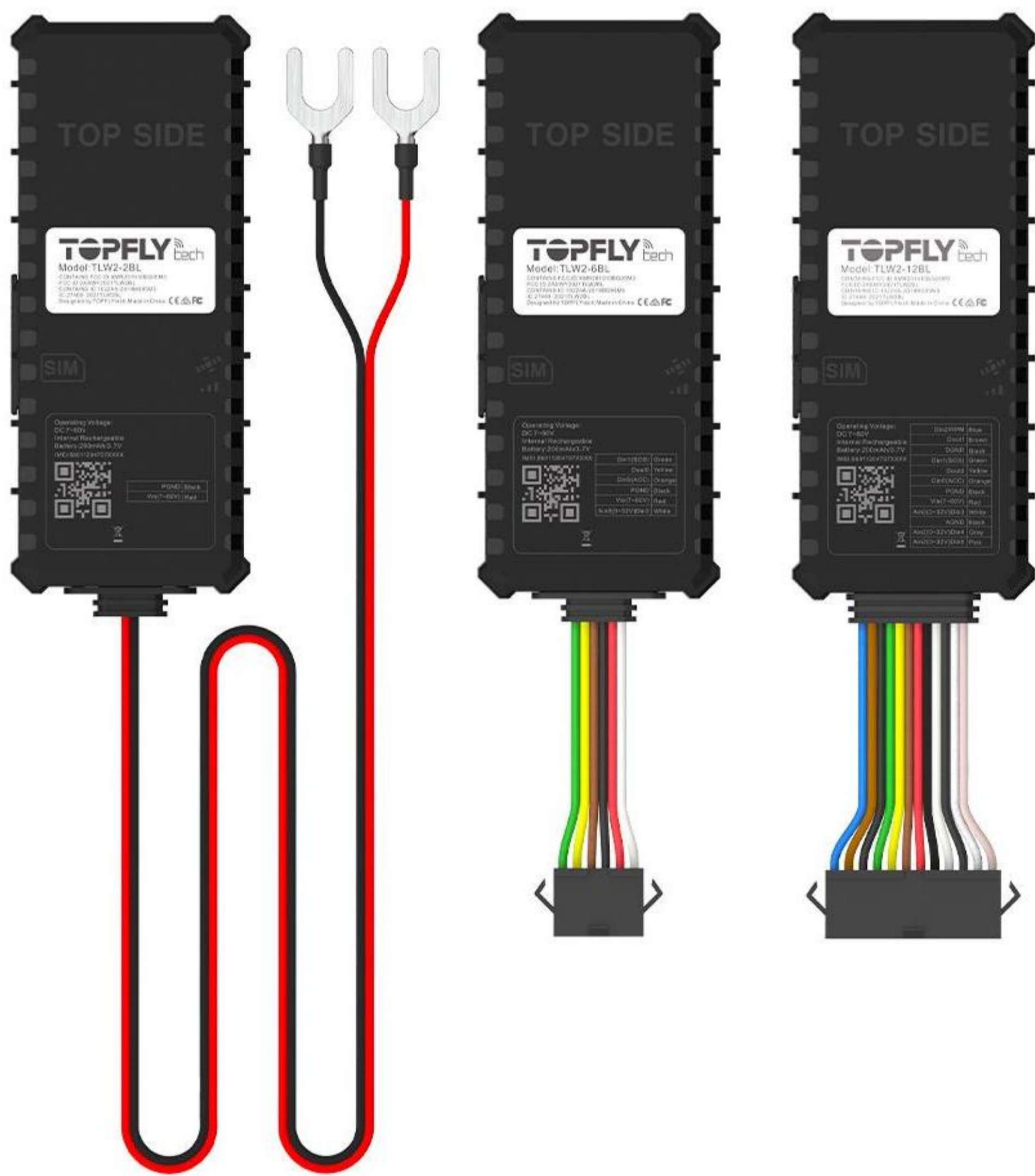


4G HARDWIRED GNSS TRACKER

Hidden installation for all objects with power

LTE TLW2 SERIES 4G

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



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

- ✖ 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

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.

LTE 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. 70Kbps (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: -149 dBm Tracking: -167 dBm Reacquisition: -161 dBm		
Horizontal Position Accuracy	Autonomous: < 2.5 m CEP		
TTF @ -130 dBm with(without)EASY™	Cold Start: < 15s(32s) Warm Start: < 8s(28s) Hot Start: < 1s(1s)		
Interfaces			
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			
CCE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile(on-going), Verizon(on-going)			