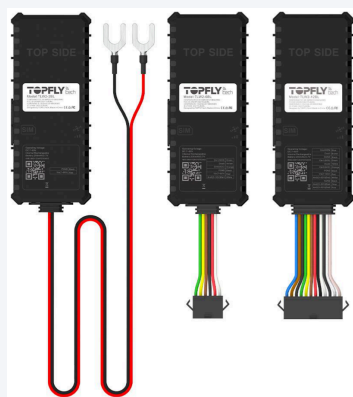


4G HARDWIRED GNSS TRACKER – TLW2 SERIES

TLW2-2BL / 6BL / 12BL

4G

LTE Cat-M1 / NB-IoT trackers for hidden installation in any powered asset – fleets, cold chain, transport. Three models for Europe, North America and Australia.



Key features

- Compact size
- Easy installation
- Crash detection
- Firmware over the air (FOTA)
- Geo-fences
- Motion detection
- Driving behavior monitoring
- BLE 5.0
- Fuel level sensor support (6BL and 12BL)
- Temperature sensor support



WEIGHT
55 g (1.94 oz)



DIMENSIONS
102.5 × 42.5 × 12 mm



POWER SUPPLY
8 – 60 V DC



OPERATING TEMP.
-30 °C ~ +80 °C

Applications



Fleet and transport



Passenger cars



Taxis

Technical specifications

Network			
Models	TLW2-2BL / 6BL / 12BL		
Operating bands	LTE Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM/EDGE: 850/900/1800/1900 MHz		
Data transmission	eMTC: max. 300 kbps (DL), max. 375 kbps (UL) NB1: max. 32 kbps (DL), max. 70 kbps (UL) EDGE: max. 296 kbps (DL), max. 236.8 kbps (UL) GPRS: max. 107 kbps (DL), max. 85.6 kbps (UL)		
GNSS			
GNSS chipset	MediaTek High Gain GNSS receiver		
Parallel GNSS	GPS + GLONASS + Galileo + BeiDou		
Receiver type	33 tracking / 99 acquisition-channel GNSS receiver		
Sensitivity	Cold start: -149 dBm Tracking: -163 dBm		
Position accuracy (CEP)	Autonomous: < 2 m		
TTFF	Cold start: < 29 s Warm start: < 27 s Hot start: < 1 s		
Interfaces – models			
	TLW2-2BL	TLW2-6BL	TLW2-12BL
Digital inputs	–	2	3
Digital outputs	–	1	2
Configurable inputs (digital/analog)	–	1	3
Interfaces – common			
LTE / GNSS / Bluetooth antenna	Internal only		
Indicator LED	Network and GNSS		
FOTA	Yes		
BLE	5.0		
General			
Waterproof	IP65		
Dimensions	102.5 × 42.5 × 12 mm (4.04" × 1.67" × 0.47")		
Weight	55 g (1.94 oz)		
Backup battery	Li-Polymer 200 mAh / 3.7 V		
Operating voltage	8 – 60 V DC		
Operating temperature	-30 °C ~ +80 °C (-22 °F ~ 176 °F)		

Technical specifications (cont.)

General (cont.)

Storage temperature	-40 °C ~ +85 °C (-40 °F ~ 185 °F)
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Air interface protocol

Transmit protocol	TCP, UDP, MQTT, SMS
Data security & encryption	MD5 / AES256
BLE accessory support	Yes
Scheduled timing / angle / distance report	Reports position and status at preset intervals
External power status alarm	Reports when external power is disconnected
Low power alarm	Reports when the backup battery is low
Speeding alarm	Reports when speed exceeds the preset value
Towing alarm	From the internal 6-axis accelerometer
Remote control	Remote output control
Network jamming detection	Reports network jamming
Data roaming control	Avoids additional data consumption
Driving behavior monitoring	Aggressive driving detection, e.g. harsh braking and acceleration
Crash detection	Accident data collection for reconstruction and analysis