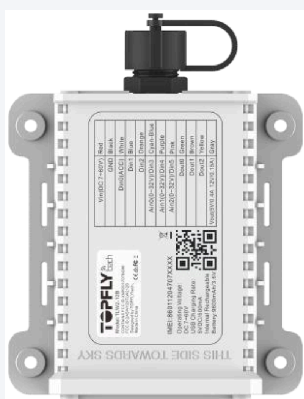


PROFESSIONAL HARDWIRED TRACKER

TLW2-12B 4G

LTE Cat-M1 / NB-IoT / GSM tracker with I/O ports and a 9600 mAh battery – for tailored fleet solutions, even without vehicle power.



WEIGHT
320 g (11.3 oz)



DIMENSIONS
132 × 100 × 34 mm



POWER SUPPLY
7 – 60 V DC



BATTERY
Li 9600 mAh / 3.6 V

Key features

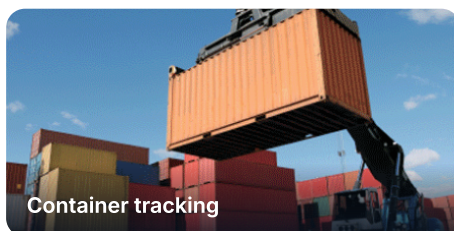
- Compact size
- Easy installation
- Waterproof IP67
- Firmware over the air (FOTA)
- Driving behavior monitoring
- Motion detection
- BLE 5.0 (full set wireless sensor solution)
- Removal alert
- Data security (MD5 / AES)
- MQTT support

Standby time on battery

10 min reporting		320 days
5 min reporting		170 days
1 min reporting		68 days

Based on 2 hours of active tracking per day, without accessories and charging.

Applications



CERTIFICATES



Technical specifications

Network	
Operating bands	FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28 TDD: B39 (Cat M1 only) EGPRS: 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	Qualcomm Gen 8C 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	
Digital inputs	3
Digital outputs	3
Configurable inputs (digital/analog)	3 (input range 0–32 V, > 6 V digital trigger)
Voltage output (5 V / 12 V DC)	1
Power and data transmission	7–60 V DC or USB cable
Network, GNSS antenna	Internal only
Indicator LED	Network, GNSS and battery
FOTA	Yes
Light sensor	1 back light sensor
Temperature sensor	1 temperature sensor
BLE 5.0	Yes
General	
Waterproof	IP67
Dimensions	132 × 100 × 34 mm (5.2" × 3.93" × 1.34")
Weight	320 g (11.3 oz)
Battery	Rechargeable Li 9600 mAh / 3.6 V
Standby time (2 h active tracking per day, without accessories and charging)	10 min reporting: 320 days 5 min reporting: 170 days 1 min reporting: 68 days

Technical specifications (cont.)

General (cont.)	
Charging & data communication	Magnetic USB cable (5 V 1 A adaptor recommended, approx. 20 h charging)
Operating temperature	-25 °C ~ +80 °C (-13 °F ~ 176 °F)
Mounting	Magnet or screws
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
Remote control	Remote output control
Removal alarm	When the light sensor detects a change of light
Industry certifications	CE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile (on-going), Verizon (on-going)