

# LTE & GSM TLP 1-SF 4G

LTE Cat-M1(eMTC)/Cat-NB1(NB-IoT) and GSM assets tracking devices for wide ranging applications



⚖️ | 225g (7.94oz)

🌡️ | -20°C ~ +60°C  
(-4°F ~ 140°F)

📏 | 69.3mm\*143mm\*24.8mm  
(2.73" \*5.63" \*0.98")

🔋 | Rechargeable Li-Polymer  
4800 mAh/3.7V

- ✂️ Compact Size
- ✂️ Easy Installation
- 🛡️ Waterproof
- ☁️ Firmware Over the Air
- ☀️ Solar Panel
- 📶 Motion Detection
- 🚨 Low Battery Alarm
- 🔗 Removal Alert
- 🔒 Data Security (MD5/AES)
- 📡 MQTT Support

## Standby Time

(without solar recharging, 2 hours active tracking per day)



Trailer Tracking



Container Tracking



Freight Transport



Animal Tracking



# LTE TLP1-SF SPEC

Network/Operating Band	
Operating Band	FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28 TDD: B39 (Cat M1 only) EGPRS 850/900/1800/1900MHz
Data Transmission	eMTC: Max. 300Kbps (DL), Max. 375Kbps (UL) NB1: Max. 32Kbps (DL), Max. 70Kbps (UL) EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
GNSS Specifications	
GNSS Chipset	Qualcomm Gen 8C GNSS receiver
Parallel GNSS	GPS+Glonass+Galileo+Beidou
Receiver Type	33 tracking / 99 acquisitions- channel GNSS receiver
Sensitivity	Cold start: -149 dBm Tracking: -163 dBm
Position Accuracy (CEP)	Autonomous < 2m
Standalone TTFF	Cold start: < 29s Warm start: < 27s Hot start: < 1s
Interfaces	
Charging and Data Transmission	4 Pin port with magnet
Network, GNSS Antenna	Internal only
Indicator LED	Network, GNSS and Battery level
FOTA	Yes
Physical Power Switch	1
Light Sensor	2 light sensors (front and back)
Temperature Sensor	1 temperature sensor
General Specifications	
Waterproof	IP67
Dimensions	69.3mm*143mm*24.8mm (2.73" *5.63" *0.98")
Weight	225g (7.94oz)
Battery	Rechargeable Li-Polymer 4800 mAh/ 3.7V
Standby Time (without considering solar charging, 2 hours active tracking per day)	10 minutes reporting: 170 days 5 minutes reporting: 90 Days 1 minute reporting: 35 Days
Charging & Data Communication	Magnetic USB cable (recommend using 5V 1A adaptor, 10 hours charging)
Solar Panel	For charging the tracker battery
Operating Temperature	-20°C ~ +60°C (-4°F ~ 140°F)
Mounting	Magnet/Screw
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5/ AES256
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
Geo-fence	Support up to 64 internal geo-fence regions
Low Power Alarm	Sending alarm when battery is low
Motion Detection	Motion alarm based on internal 3-axis accelerometer
Removal Alarm	Sending alarm when the light sensor detecting the light changing