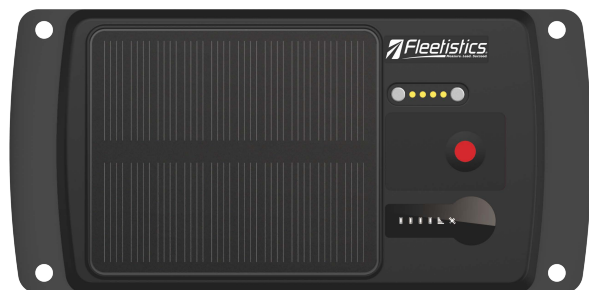


FLT-TLP1-LM(F)



Battery Powered



Solar Powered

- Compact Size
- Easy Installation
- Waterproof
- Firmware Over the Air
- Built in Light Sensor
- Motion Detection
- Low Battery Alarm
- SOS Emergency Button
- Removal Alert
- Super Long Battery Life
- Data Security (MD5/AES)
- MQTT Support

LTE & GSM TLP1-LM(F)

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

220g (TLP1-LM) 190g (TLP-LF)	69.3*120*24.8 mm (TLP1-LM) 69.3*143*22.8 mm (TLP1-LF)
-20°C~+80°C	Replaceable 8100 mAh/3.6V Li battery

Standby Time (One report per day)

GPS Off		3000 days (≈ 8 Years)
GPS On		1850 days (≈ 5 Years)

Container Tracking



Freight Transport



LTE TLW1 Series Spec

Network/Operating Band	
Operating Band	FDD: B1/B2/B4/B3/B5/B8/B12/B13/B18/B19/B20/B26/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	
Power Button	Power on and power off
Emergency Button	Emergency alert or battery level inquiring
Network/GNSS Antenna	Internal only
Indicator LED	GNSS, network and battery level
Data Transmission	4 Pin with magnet
FOTA	Yes
General Specifications	
Waterproof	IP67
Dimensions	69.3×120×24.8 mm (TLP1 LM) 69.3×143×22.8 mm (TLP1 LF)
Weight	220g (TLP1 LM) 190g (TLP1-LF)
Backup Battery	Replaceable 8100 mAh/36V Li battery
Standby Time (One Report per Day)	GPS Off: 3000 days (≈ 8 Years) GPS On: 1850 days (≈ 5 Years)
Operating Temperature	- 20 ~ + 80
Mounting	Magnet (TLP1- LM)/Screw (TLP1- LF)
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Protocol Check & Encryption Support	MD5/ AES256
Scheduled Timing 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
Power On/Off Report	Report when the device is powered on and off
SOS/Emergency Alarm	SOS alarm via pressing function button
Motion Detection	Motion alarm based on internal 3 axis accelerometer
Removal Alarm	Sending alarm when the light sensor detecting the light changing