

MTL-1301 ASSET TRACKERS

MTL-1301 R 1.0
Jan. 4, 2025

Key Features

Enclosure Rating	IP54
Interface	4G LTE, GPS/GNSS, USB 2.0
Battery	3500mAh Li-Ion
Type	Rechargeable via USB
Uptime	Up to 6 months
Sensors	Temperature Sensor Humidity Sensor G-Sensor ±16G Light Sensor
Antennas	Internal
Dimension	85 x 85 x 23 mm



1 DESCRIPTION

The MTL-1301 asset tracker is ideal for monitoring of individual packages/shipments such as pallets, packages, containers etc. The compact tracker is equipped with a lithium battery and can operate up to 6 months without the need of external power supply.

The data transmission frequency can be changed with the firmware setting. At a data transmission frequency of 1 x per day, the uptime of the battery is about 6 months.

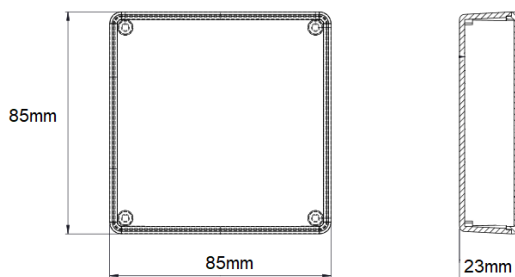
2 SPECIFICATIONS

SYMBOL	PARAMETER	MIN	TYP	MAX	UNIT
G-Sensor	Measurement range (accuracy ±0.4g)	±2	-	±16	g
RHACC	Relative humidity sensor accuracy	-	±2	±4	%RM
TEMPACC	Temperature sensor accuracy 5°C<TA<60°C	-	±0.2	±0.4	°C
TA	Ambient temperature range	-20	-	+60	°C
GPS/GNSS	Receiver sensitivity	-	-167	-	dBm
ALTITUDE	Maximum altitude	-	18000	-	m
VELOCITY	Maximum velocity	-	515	-	m/s
GPRS Performance					
UPLINK/DOWNLINK	85.6kbps				
QUAD-BAND	850/900/1800/1900 MHz				
TX-POWER	2W @850/900MHz 1W @1800/1900MHz				
USB	ESD Protection for 2 high-speed I/O channels and VDD IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns), IEC 61000-4-5 (Lightning) 12A (8/20µs)				
PROTOCOLS	JSON-MQTT-REST-API-ASCII				
MTBF	500.000h				

3 KEY BENEFITS

- Multi navigation GPS/GLONASS/QZSS
- Cold start <35s
- Powerful AGPS functions
- 4G-LTE or 2G-GSM Quad-Band

4 DIMENSIONS



5 ORDERING CODES

Article Nr.*	Connectivity	Light Sensor
MTL-1301	4G LTE Cat M1	X
* Temperature, Humidity and G-Sensors are included		

