



SOF36/87 IoT GPS/LoRa tracker

Protection mode:

| | |
|----------------------------|-----------------|
| Type of protection: | II 2GD Ex d IIC |
| Class of temperature: | T6 |
| Ingress Protection rating: | IP66 |
| Ambient Temperature: | -20/+55°C |
| Zones: | 1-2-21-22 |

SOF36/87 GPS/LoRa tracker is a compact and stand-alone low power IoT GPS module with LoRa connectivity, designed to be installed on vehicles, flammable substance containers for cosmetics and pharma industries or other assets in order to track their location.

Main features:

- LoraWan Class A connectivity
- GPS and TDOA Geo-location
- Very long lasting battery design
- Accelerometer

Special embedded functions:

- Stop and go detection report
- Battery monitoring
- LED status indicator
- Web portal (separate subscription) to downlink configuration commands and manage geofencing alarms.

Includes:

- External LoRa ATEX antenna
- Internal high gain GPS antenna
- Programmable Tracker
- 17A/h Lithium Thionyl Chloride battery



| Tracker in motion 8 hours per day | Tracker in motion 1hour per day |
|--|--|
| GPS fix every 2 hrs not moving and every 10mn when moving -> 2.5yr s | GPS fix every 2 hrs not moving and every 10mn when moving -> 7.0yr s |
| GPS fix every 4 hrs not moving and every 20mn when moving -> 5.0yr s | GPS fix every 4 hrs not moving and every 20mn when moving -> 10.0yrs |

Functionality

Normal mode: transmit position coordinates (GPS or TDOA) at fixed periodic rate, even if the tracker is not moving.

Motion detection mode: transmit a GPS or TDOA position at a shorter periodic rate if the tracker is moving. Motion detection is performed using embedded accelerometer.

Upload rate configuration:

Periodic rates of the two previous modes can be changed by a downlink command, configured from your portal.

Stop and go detection:

Based on the embedded accelerometer data, the tracker sends its location.