

ADR-Track

The ADR-Track is an application-ready Sigfox enabled transceiver. A smart sensor perfectly suited for asset tracking applications. ADR-Track provides a connection to national and global network infrastructure for reliable and secure communications. This rugged small form factor sensor device delivers tracking functionality to powered or non-powered assets.

The configuration of the transceiver can be accomplished via the product or network allowing for real-time functional flexibility. Powered through a Li-SOCL2 battery. Battery life depends on the number of messages and message types: 15000 messages on GPS and 2000 messages on WiFi.



Highlights

- Location and sensor data through Sigfox compliant radio networks
- GPS and non-GPS hardware options
- Rugged IP67 enclosure
- Fully internal battery powered
- Long range connectivity
- Low Cost Low power design with up to 10-year autonomy
- Small, compact and easy to install and conceal
- Supports external sensor inputs

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- GPS Sensitivity Tracking: -158 dBm
- GPS Sensitivity Navigation: -157 dBm

Warnings

- Battery end of life
- Over Temperature
- Tamper Detection

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 frames per day

Data encryption: AES128 (Optional)

Software and Data Management

Device data transmitted via the Sigfox cloud infrastructure to the backend server platform for processing and reporting is provided as a standard. A custom platform with built-in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Temperature / Humidity sensor
- Ambient light sensor
- Quality of air sensor
- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- The ADR-Track is an application ready Sigfox enabled transceiver
- A smart sensor perfectly suited for asset tracking applications

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

GPS LNA: On-board

External Sensors: Various supported

Standards: EN 300-220, EN 301-489, EN 60950, ICASA; CE

Standard Operation (can be modified on request)

Default Mode:

- Send GPS Coordinates on configuration chosen
- Downlink is used to configure the device with one of the following options:
 - Interval Time
 - Motion
 - Tilt/Non-Flat
 - Distance

Device Lifespan:

Battery life depends on the number of messages and message types

- 15000 messages on GPS and
- 2000 messages on WiFi