

# CargoObserver -Track&Sense -XL/-XXL



## The durable tracking solution for every freight car



CargoObserver-Track&Sense-XL and -XXL are specially optimized for use cases in the railway industry where the need for very long lasting battery packs with a maintenance free lifetime of at least 6 years is required. This reduces service costs and allows our customers focusing on optimizing their transportation processes and to more effectively manage their assets.



The behavior of the CargoObserver-Track&Sense-XL and -XXL units can be fully parameterized remotely in order to meet the unique customer requirements even as they change. Developed for the harsh railway environment, the very energy efficient solution is the result of several years of research and development with University and Industrial partners. Well known international enterprises trust on the reliability and the long life cycle of our overall system solution.

## Key Product Features

- Precise localization also when mounted in partly covered areas of the asset
- Configurable Move and Stop reports
- Periodic, time triggered reports
- Device based geofencing alarms
- Precise rail mileage
- 3-Axis Acceleration Meter
- Wireless MultiProtocol Sensor Interface, Bluetooth Low Energy 5.0 and ITSS 2 Ready

## Advantages

### Unsurpassed long battery life

- Maintenance free min. 6 years at one report every hour while moving (-XL)
- +50% Battery capacity at -XXL Variant
- Mounting at almost any location of the asset

### Full cost control

- Operating modes adjustable via web
- Lowest total cost of ownership
- All-Inclusive data service with fixed monthly rates and no hidden costs

### Flexible and quick to deploy mounting

- Installed in seconds with strong magnets
- Alternative theft protective screw mount option

**CargoObserver-Track&Sense-XL / -XXL** is the solution for energy self-sufficient tracking on freight cars

# CargoObserver -Track&Sense -XL/-XXL



WIRELESS CARGO MONITORING SOLUTIONS

## Technical Specification

<b>Physical</b>	
Dimensions	224x89x44mm (224x123x46-XXL)
Weight	755g ( 1130g -XXL)
Mounting Options	Screw, Magnets or adhesive

<b>Environmental Conditions</b>	
Operating Temperature	-40°C to +85°C

<b>Communication</b>	
GSM	Quadband
Frequency Range	850/900/1800/1900 MHz
Communication	GPRS with SMS Fallback
4G upon request	4G NB-IoT / Cat-M1

<b>Sensors &amp; Sensor Interface</b>	
GPS / GNSS	GPS, Glonass, Galileo
3-Axis Acceleration	+/- 16g
Wireless Extension	Bluetooth Low Energy 5.0 sowie ITSS 2 Ready Interface

<b>Power Supply and Lifetime</b>	
Battery	Industrial Lithium primary cells
Power Management	Proprietary PicoPower Techn.
Battery Lifetime -XL / (-XXL)	Ave. 6 - (9) years at 24 Pos./Day

<b>Standards</b>	
EN61000-6-2, EN61000-6-4, ETSI EN301 489-1, EN301 489-7 EN50121-3-2:2015, EN61373, EN50155	

## Customers Benefits

**Faster locating** of assets and real-time overview of assets location and distribution among sites.

Future prove **Wireless Sensor Interface** for upcoming ITSS 2 Standard or state of the art Bluetooth Low Energy sensor applications.

**Improved Mileage based Maintenance** of rail cars.

**Optimized Supply Chain Management** improves long term passage of goods.

**Higher utilisation of assets** and hence reduction of total assets and lower cycle time.

**Higher security** by monitoring geofencing areas and transport routes.

**Flexible Integration** into Existing IT:  
The All-In-One Data Service from CargoMon delivers customized asset data directly to your existing IT system without added cost.

**CargoMon Systems GmbH**

eMail: office@cargomon.com - Web: www.cargomon.com

Tel: +43 (1) 236 53 10 - Fax: +43 (1) 236 53 10 99