

CargoObserver -Track-XL and -XXL



The durable tracking solution for every freight car



CargoObserver-Track-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-XL and -XXL units can be fully parameterized remotely in order to meet the unique customer requirements even as they change over time. 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
- For further sensors see product CargoObserver-Track&Sense-XL (-XXL)

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-XL / -XXL is the solution for energy self-sufficient tracking on freight cars

CargoObserver-Track-XL -Track-XXL



WIRELESS CARGO MONITORING SOLUTIONS

Technical Specification

Physical

Dimensions	224x89x44mm (224x123x46-XXL)
Weight	755g (1130g -XXL)
Mounting Options	Screw, Magnets or adhesive

Environmental Conditions

Operating Temperature	-40°C to +85°C
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Communication

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

Sensors

GPS / GNSS	GPS, Glonass, Galileo
3-Axis Acceleration	+/- 16g
Options upon request	Wireless Sensor Interface, see -Track&Sense-XL/-XXL product

Power Supply and Lifetime

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

Standards

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.

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.

Possibility to offer **location information** to your customers.

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.

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