

# CargoObserver-Track&Sense-Solar-XL



Monitor your assets with the power of the sun in real-time!



CargoObserver-Track-Solar is a tracking system specially optimized for rail cars, containers and trailers, as well as when high rate of data transmission is required. Easy mountable on roof-side locations for permanent installations it is maintenance free operation for up to 10 years. The advantage compared to a device with primary battery or even our smaller solar variant is a significantly higher message update rate.



The behavior of the CargoObserver-Track-Solar-XL unit can be fully parameterized remotely in order to meet the unique customer requirements even as they change over time. The optional connection of wireless sensors expands the application spectrum by monitoring the interior space without any installation. Developed for the harsh industrial and automotive environment, the very energy efficient solution is the result of research and development with University and Industrial partners. Well known international enterprises trust on the reliability and long life cycle of our solution.

## Key Product Features

- Precise localization with high sensitive GNSS receiver
- Configurable Move and Stop reports
- High update-rate, real-time mode
- Device based geofencing alarms
- Route Monitoring
- Unmount detection
- Additional optional wireless sensors

## Advantages

### Unsurpassed long battery life

- 10 years maintenance free, report frequency only limited by long term radiation.
- Very long life Military/Aerospace battery with wide temperature range

### 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

- Roof side mounting, invisible from below
- Installed in seconds with magnets or tape
- Alternative theft protective screw mounting

**CargoObserver-Track-Solar-XL** is the solution for energy self-sufficient monitoring of assets at high transmission rates

# CargoObserver -Track&Sense-Solar-XL



WIRELESS CARGO MONITORING SOLUTIONS

## Technical Specification

### Physical

Dimensions	318x82x32 mm
Weight	595g
Mounting Options	Screw- or Magnet mount

### Environmental Conditions

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

GSM	Quadband
Communication	GPRS with SMS Fallback
3G/4G upon request	for special regions with no GSM
Wireless Sensor Interface	Bluetooth Low Energy 5.0 & ITSS 2 Standard

### Sensors

GPS / GNSS	GPS, optional Glonass, Galileo
3-Axis Acceleration	+/- 16g
Tamper detection	detects unmount of device
Support for wireless sensor	Temperature, Humidity, Door

### Power Supply and Lifetime

Battery	Industrial Lithium-Ion Cells
Energy autonomy (no charging)	Typically 4 Month
Battery Lifetime	8 Years at 30% DoD daily

### Standards

EN61000-6-2, EN61000-6-4, ETSI EN301 489-1, EN301 489-7

## Customers Benefits

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

**Better control** of intermodal transports, allows more timely handover at rail to road connection points.

**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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