



High end Class B SOTDMA and SAT-COM AIS Transceiver

**msSTRACK**



Most reliable and best performing Fleet Tracking and Monitoring Transceiver system

# Most reliable and best performing Fleet-Tracking-and-Monitoring Transceiver system based on AIS Class B SOTDMA and SAT-COM.

It provides internal GPS, so that no external antenna needs to be connected. It has got 4 slots for additional modules which can be clicked into the housing by a service partner. The housing is small and rugged.

## Function

Possible modules which can be clicked in are: Wifi/Bluetooth, Orbcomm Satellite, Iridium Satellite, GSM/3G/4G/LTE, LORA, Sensorboard and many others.

It has got external buttons for user mode settings and up to 8 LEDs for the indication of the functionality of the unit. In addition, it can work fully independently as rechargeable batteries are also integrated.

Standard Sat communication via sat message 27 to Earth Satellites (up to 60! Satellites) is base feature. All transmission parameters can be set by an admin, as reporting rate, frequency, encryption, tamper alerts, geofences, dynamic reporting as closer to coast, etc.

### Integrated GPS Source

The built-in GPS antenna increases the independency of mounting the mssTRACK device aboard. Only power supply and VHF connectivity is needed.

### SOTDMA – no position report gets lost

Based on AIS Class B SOTDMA technologies, the mssTRACK is transmitting with same high priority as a Class A unit does, and transmission slots for the next 8 transmissions will be reserved automatically. This works out the fact that even in areas with high traffic volume the mssTRACK is always able to transmit the position reports.

### VHF based Real-Time-Tracking

Due to the VHF based direct ship-to-shore transmission there will be no time gap in receiving the position reports from the vessels and their identification.

## Application

### MTM - Maritime Text Messenger

By means of a built-in „Text-Messages“ System the mssTRACK is able to communicate bi-directional with the Regional-Center. Short messages like storm warning etc. can be send-out to the vessel. Via Bluetooth the cellular phone of the fisherman will get the information and is able to return a text the same way back.

### ARDS - Advanced Route Data Storage

The mssTRACK will automatically store up to 8000 waypoints in a loop. Particular status and vessel activity can be read-out exactly by the Regional Center.



- ☑ **Long Range Tracking via Sat Communication**  
In addition to the regular VHF communication the mssTRACK contains a satellite communication module which enables to transmit current position data via the orbital satellite network to the onshore receiving stations. Depending on the pre-programmed coastline distance the unit switches automatically from coastal position reporting via VHF into satellite reporting. Therefore Telegram-Typ 27 is send out into the sky.

## Highlights

- ☑ VHF Real-Time-Tracking without any time gap
- ☑ Integrated GPS Source
- ☑ Maritime Text Messenger
- ☑ Remote-Read-Out-App
- ☑ Long Range Tracking
- ☑ AIS Class B SOTDMA
- ☑ Advanced Route Data Storage
- ☑ Geo Fence
- ☑ High Diversity Power Source
- ☑ Anti-Tamper Proof
- ☑ Waterproof and dust resistant
- ☑ Very easy to use

## Technical Data

- ☑ Dimensions (LxWxH): 180 x 120 x 50 mm
- ☑ Weight: 700 g
- ☑ Power Supply: 9.6 - 31.2VDC  
Consumption: 3-6W@12VDC  
Source: • solar panel  
• vessel engine  
• rechargeable batteries
- ☑ Transmission Power 5 Watt
- ☑ IP67 waterproof and dust resistant
- ☑ 72-channel GNSS receiver (GPS, BEIDOU, GLONASS)
- ☑ Operation temperature: -10°C to +55°C
- ☑ Functionality: 3 Buttons, 8 Status LEDs
- ☑ Compliance/Certifications  
AIS IEC 62287-2:2017  
Environm. IEC 60945:2002  
GPS IEC 61108-2003  
EN 301843-1:2004  
Prod. Safety EN 60950-1  
ITU-R M.1371-5
- ☑ Part #A20003



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EXCELLENCE IN RADIO TECHNOLOGIES  
Safety • Navigation • Tracking

