SECURITY AT SEA WITH

BlueTraker SSAS



SSAS - Ship Security Alert System

BlueTraker

by ellla

WIRELESS DATA SOLUTIONS

BlueTraker SSAS



Safeguard Your Ship and Protect the Lives of the Crew

Fleet operators and seamen are increasingly concerned about the threat of piracy and other incidents on the high seas. These threats not only endanger the lives of the crew but also pose significant financial risks for fleet operators.

At EMA, we understand the challenges of navigating the high seas and the concerns fleet managers face while transporting valuable cargo or passengers. That's why we designed the BlueTraker® SSAS, a solution to alleviate these worries.

BlueTraker SSAS Features:

- Two security buttons to sound the alarm in case of an emergency.
- Pole to pole coverage through the use of the Iridium Satellite network.
- Ability to withstand harsh maritime conditions.
- Arctic version is operational at temperatures down to -50°C.



Alert Button Activation

When the alert button is activated, **an "SSAS Alert" message is immediately sent to predefined recipients** (such as flag operator) via SMS/email containing all necessary information (vessel name, IMO no., vessel position, etc.) to initiate rescue efforts.

An "SSAS Alert Navigation" report message will then be sent **every 15 minutes**, continuing until the "SSAS Alert" is confirmed and deactivated remotely, or it automatically stops after 24 hours.

Selected users can **monitor the current vessel position** (updated with each "SSAS Alert Navigation" message) via the SecondScreen application, which is also used to manage alert message recipients.

Alert can be **confirmed and deactivated** using the link provided in the "SSAS Alert" message. Only a select group of recipients receive this link, allowing them to confirm and deactivate the alert.

The system can be integrated with dedicated **professional SSAS management and monitoring services** to ensure responsive 'intelligent' monitoring takes place.

BlueTraker SSAS Technical Specifications

External power supply	24 V DC, 1 A / Arctic version 9 V DC to 36 V DC, 0.5 A max
Power supply protection	Power line disconnects above 36 V Withstands continuous connection up to 150 V DC source Internal self recovering poly fuse
Operating temperature - Standard version	-25 °C to +55 °C
Operating temperature - Arctic version	-50 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Waterproof and dust protection	IP68 protection class (depth 6 m, duration 30 min.)
Integrated antennas	GPS, Iridium
Iridium transceiver	Frequency range 1616 MHz to 1626.5 MHz; Maximum output power +32 dBm (1.6 W)
GPS receiver	33 channels, 1 sec. update rate, 1575.42 MHz (L1 band) Accuracy: Position 5 m CEP, Velocity 0.1 m/sec Sensitivity: - 167 dBm tracking
Installation	External, mast, vertical rail, horizontal rail, flat vertical surface
Mounting accessories	UniMount mounting bracket (included)
Cable	Main Cable Set: length up to 100 m (between ConBox SSAS and BlueTraker SSAS transponder) Alert Button cables: total length of up to 300 m (see application diagram for details)
Housing	Double-shell, white-coloured outer shell, resistant to UV sun radiation
Mechanical	Dimensions: 198 x 67 x 198 mm (width x height x length) Weight: 1.19 kg; 2 kg with UniMount
Shock resistance	Multiple drop from 1.2 m height to every side of the device

Standards, Certificates and Type Approvals

- Iridium Compliance Certificate
- US Coast Guard Certificate
- DNV GL Type Approval
- Russian Maritime Register of Shipping Type Approval
- IEC60945 - Marine environment standards compliance
- IP68 & IP69K - Water and dust grade protection standards
- Quality management system certified: EN ISO 9001 & EN ISO 14001

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