SECURITY AT SEA WITH
BlueTraker SSAS

SSAS - Ship Security Alert System

BlueTraker

by EMA
WIRELESS DATA SOLUTIONS

BlueTraker SSAS

Safeguard your Ship and Protect the Lives of the Crew

Fleet operators and seamen are increasingly worried about the threat of piracy and other incidents on the high seas. Not only is there a risk to the lives of the crew but it also carries huge financial risks for the fleet operators as well.

We at EMA understand what it means to face the high seas and acknowledge the concerns that the fleet manager has while their vessel is transporting valuable cargo or passengers. That is why we designed a BlueTraker® SSAS, which alleviates 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

An **"SSAS Alert" message is immediately sent to the predefined recipients** (such as flag operator) via SMS/email with all the necessary information (vessel name, IMO no., vessel position, etc.) to enable rescue efforts to be initiated.

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

Selected users can **monitor the current vessel position** (updated after each "SSAS Alert Navigation" message) in the SecondScreen application (which is also used for managing the alert message recipients).

Alert can be **confirmed & deactivated** using the link in the "SSAS Alert" message. Only a few selected recipients receive a link allowing to confirm & deactivate the alert.

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

BlueTraker SSAS Arctic

BlueTraker® Smart Engineering Ensures Reliability in Extreme Arctic Conditions

BlueTraker SSAS has a unique double-shell housing with a ventilated layer between the two shells, giving it added protection against low temperatures and winds.
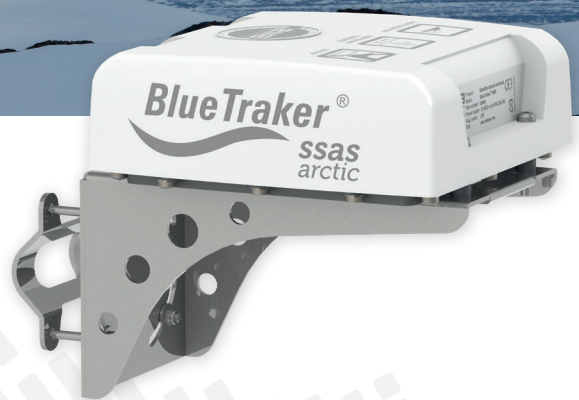
To survive severe Arctic conditions, a layer of heating elements throughout the electronic circuitry keeps the terminal operational down to - 50°C.

Smart Firmware provides safe thermostatic control enabling 'Cold start Power-up' at -50°C.

Mounting accessories made from stainless steel (EN1.4571) capable of withstanding of mechanical stress and vibrations down to -50°C.

All in One Solution - What do You Get?

· On board security alert system.

· Exact vessel location.

· SOLAS conformance.

· Durable device, tested in extreme weather conditions.

· And more.

Tracking and Alert Messaging

In addition to SOLAS security alert requirements, the BlueTraker SSAS device can send a position data report for day-to-day tracking purposes at predefined intervals. The positioning of the vessel can be monitored through the service provider's web tracking site or our SecondScreen application.

Pole to Pole coverage

Due to shorter routes opening up between the continent (North East / North West passages), the only appropriate solution is the BlueTraker SSAS Arctic, utilizing Iridium Satellite technology. Navigating through the Canadian or Russian Arctic (A4 Sea area) means having equipment specifically engineered to withstand the harsh conditions experienced only in this inhospitable environment.

Regulatory Authority Compliance

On-board security alert systems are governed by various internationally agreed rules and regulations (as promulgated by the IMO International Maritime Organization), recommended by its' associated sub-committees, mainly the Maritime Safety Committee (MSC).

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 mins.)
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	MainCableSet: 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 grade standards
- Quality management system certified: EN ISO 9001 & EN ISO 14001

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