

Sternula Above Deck Unit

Alternative Means of Communication to Sternula MMS Proxy Ship/Shore

The Sternula Above Deck Unit is a maritime connectivity device equipped with a 2/3/4G mobile network modem. It provides mobile network data connectivity for shore and ships in near-shore waters.

The Sternula Above Deck Unit can be integrated with the Sternula MMS Proxy Ship as one of several connectivity options for maritime digital services using the Maritime Messaging System.

In combination with the Sternula MMS Proxy Shore, the Sternula Above Deck Unit provides easy backbone connectivity between the Sternula MMS Edge Router Service and a supported coast station.

The compact unit provides a perfect balance between easy installation and high-quality performance.

The Sternula Above Deck Unit complements your AIS 2.0 connectivity with a fast alternative, so the Sternula MMS Proxy Ship/Shore can provide very fast access to secure mobile services where mobile data networks are available, and VDES may not yet be available.



What is it?

The Sternula Above Deck Unit is a maritime connectivity device in a protective casing, fit for the harsh maritime environment, that can be fit on the vessel's railing. The internal placement of the two diversity antennas ensures high environmental protection and robustness with good performance.

The unit has a lever in each corner of the box that fixes the lid to the casing, thereby sealing and protecting the unit. Recognizing that water will condense on the inside of the box, due to fluctuating temperatures, the box has a flexible tube attached at the bottom that allows any water to escape the enclosure.

The main task of the Sternula Above Deck Unit is to provide mobile network data connectivity for coast stations and ships in near-shore waters. The Sternula Above Deck Unit should be integrated with Sternula MMS Proxy Ship or Sternula MMS Proxy Shore.

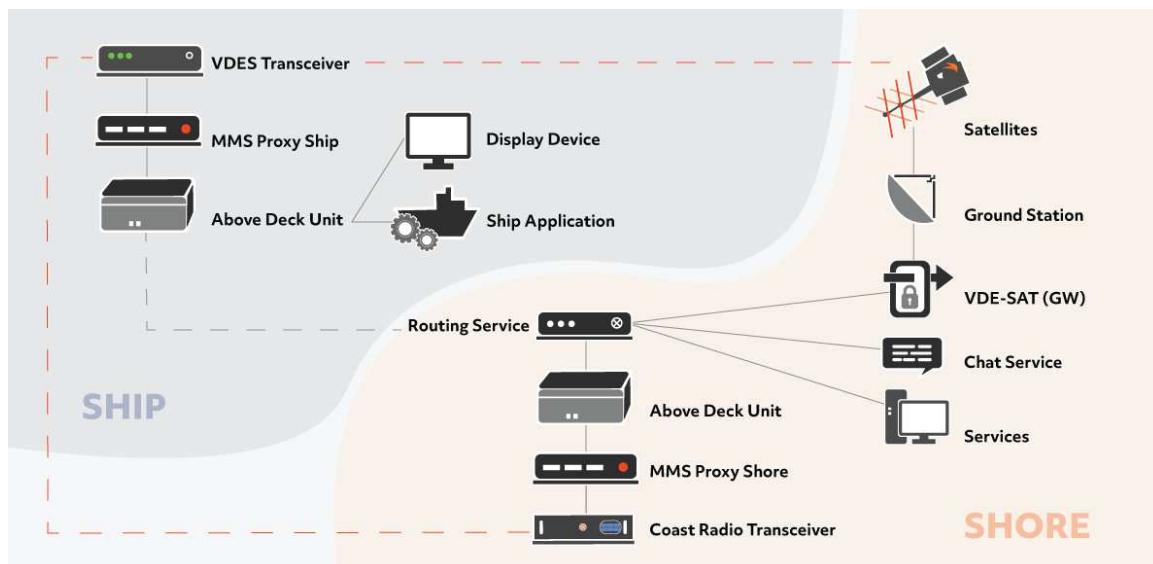
How does it work?

The Sternula Above Deck Unit is designed for easy installation and minimal setup. Only one cable connection to the MMS Proxy Ship/Shore is required, for both data and power in one cable. The cable itself is the installer's choice and is recommended to be a maritime-grade Ethernet CAT6 cable.

It is easy to install the Sternula Above Deck Unit: just insert the nano SIM Card into the SIM slot, then plug in the Ethernet cable connecting to the Sternula MMS Proxy Ship/Shore. All other configurations can be performed conveniently from the Sternula MMS Proxy Ship/Shore local configuration interface.

Features

- UV-resistant case
- Operates within the range of -25 to +55 degrees Celsius environmental temperature
- Single nano-SIM card slot
- Compatibility with Sternula's MMS Proxy Ship/Shore
- Integrated antennas for better environmental robustness



Technical Specifications

Dimensions/ Weight

| | |
|--------------------------|--------------------|
| Dimensions H x W x D | 125 x 300 x 230 mm |
| Weight (without cabling) | 1730 g |

Power Input

| | |
|----------------------------|----------------|
| Power Supply Voltage | from MMS Proxy |
| Power Consumption typ/max. | 3 / 6 Watt |

Other Functionality

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|---|
| Configuration via Wi-Fi and via the MMS Proxy Ship/Shore |
| Remote device management: firmware upgrade, APN configuration |
| Secure maritime application execution platform |

Environmental

| | |
|-------------------------|-----------|
| Designed to comply with | IEC 60945 |
|-------------------------|-----------|

Interfaces

| | |
|------------------------|------------------------------------|
| WAN (SIM 7600 G-H') | 2G, 3G, 4G (LTE Cat. 4) |
| Global frequency bands | Up to 150/50 Mbps (DL/UL) |
| Number of Nano SIM | 1 |
| Sternula MMS Proxy | 100 Mbit/s Ethernet with prop. PoE |
| Wi-Fi | for configuration and recovery |