

## SAILOR® 150 FLEETBROADBAND

Competitive, Compact, Global



**Offering service on Inmarsat's global broadband I4 satellite coverage, SAILOR 150 FleetBroadband is a competitive, high quality single-user solution for professional vessels, such as workboats or fishing vessels, and is also perfectly suited for use on recreational boats, both sail and power.**

SAILOR 150 FleetBroadband features a small and light antenna, which enables simple user-installation, so smaller vessels with a requirement for reliable, high quality global internet and voice can enter the broadband era with a true IP solution for the first time.

### **Business or Pleasure**

SAILOR 150 FleetBroadband is a competitive single-user solution designed to provide global, high quality data & voice for business, operational or recreational applications. Whether fulfilling reporting requirements, diagnosing faults or simply browsing the web whilst relaxing or passage making it offers several benefits that until now have not been available in a single solution designed for smaller vessels, including:

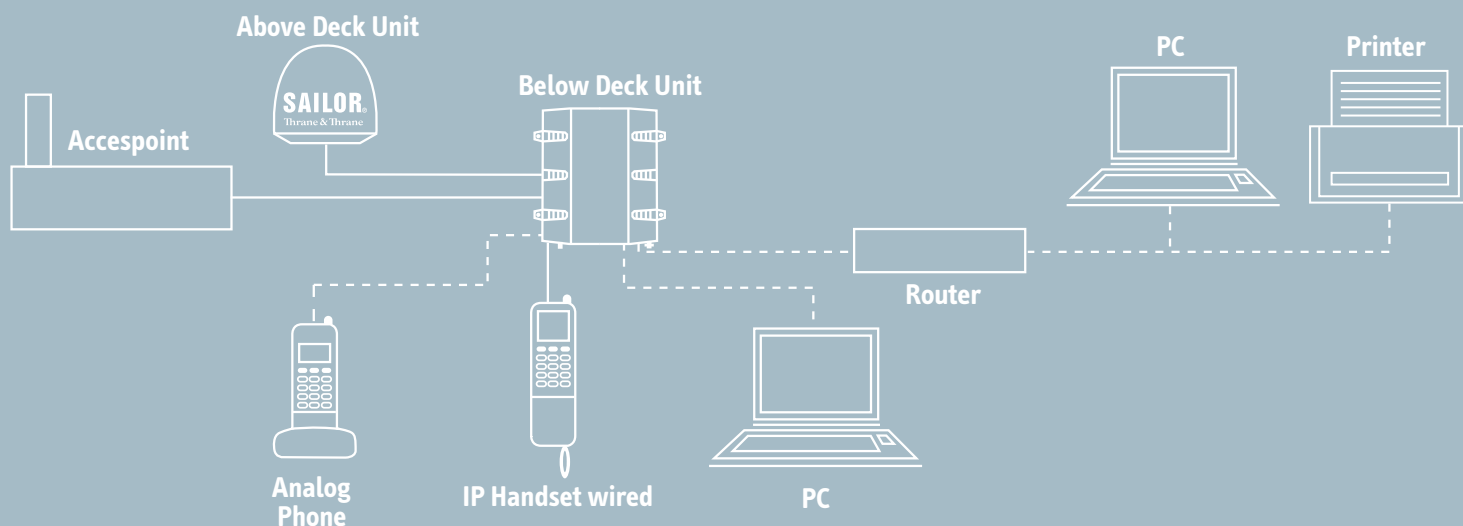
- Competitively priced hardware and airtime
- Voice and data simultaneously
- IP connection for e-mail and internet/intranet access
- LAN interface
- IP Handset interface

Based on the same design values and high quality build as the market leading premium SAILOR FleetBroadband solutions, SAILOR 150 FleetBroadband ensures that smaller vessels can experience the same reliability and ease of use that high-end SAILOR systems offer.

As a global solution, SAILOR 150 FleetBroadband benefits from Thrane & Thrane's highly regarded network of On Board Service Centers (OSC). With 40 OSC locations around the world, you can be confident that the same global service and support that larger vessels at sea with SAILOR on board expect is always available, whenever and wherever it is needed.

### **The Thrane IP Handset**

The rugged new plug-and-play Thrane IP Handset provides an intuitive user interface on a 2.2" TFT colour screen and cutting-edge technology, such as a state-of-the-art echo cancellation and noise suppression software ensuring excellent audio clarity.



## Specifications

|                                  |                       |
|----------------------------------|-----------------------|
| Inmarsat FleetBroadband approved |                       |
| Compliant to RTTE, CE Marked     |                       |
| FCC                              | Testet to FCC part 25 |

## Frequency Band

|           |  |
|-----------|--|
| Rx        | 1525.0 - 1559.0 MHz                    |
| Tx        | 1626.5 - 1660.5 MHz                    |
| Ch. width | 10.5 - 189 kHz, Rx<br>21 - 189 kHz, Tx |

## Recommended Antenna Cable

|                    |   |
|--------------------|---|
| Cable loss max/min | 20 dB at 1,62 GHz and 1.0 Ω DC loop resistance<br>3 dB at 36 - 4 dB at 54 MHz |
|--------------------|---|

## Global Services

|             |                      |
|-------------|----------------------|
| Voice       | 4 kbps AMBE+2        |
| Standard IP | 150/150 kbps         |
| SMS         | Up to 160 characters |

## Antenna Connector

|     |             |
|-----|-------------|
| ADU | TNC, female |
| BDU | TNC, female |

## BDU Interfaces

|  |
|--|
| Power On/Off button  |
| DC heavy duty power input connector with Remote on/off and locking mechanism |
| 2 10/100Mbit Ethernet LAN user ports with Power over Ethernet (PoE)          |
| Sim card   |
| Factory default reset button   |
| 1 Independent RJ-11 phone 2-wire connectors                                  |
| 5 I/O connector with General Purpose I/Os:                                   |
| Power LED  |

## Power Supply and Consumption

|  |                 |
|--|-----------------|
| DC input range (isolated)                  | 10 to 32V DC    |
| Power (max),<br>incl. antenna & PoE output | 120 W @ 10-32 V |

## Environmental Conditions

|   |                                 |
|---|---------------------------------|
| Ambient Temperature   | -25 to +55°C                    |
| Storage   | -40 to +85°C                    |
| Survival (power on, non functional)   | -40 to +80°C                    |
| Automatic thermal surveillance shuts down system gradually in ease of own temperature |                                 |
| BDU operating humidity  | 95% non-condensing at +40°C     |
| ADU enclosure   | IPX6                            |
| ADU operating humidity  | "Exposed" according to EN60 945 |
| BDU enclosure   | IP31                            |
| Icing (survival)  | Max 25 mm                       |

## Vibration (ADU)

|                            |   |
|----------------------------|---|
| Vibration, operational     | Random spectrum 1.05 g rms x 3 axes:<br>5 to 20 Hz: 0.02 g <sup>2</sup> /Hz<br>20 to 150 Hz: -3 dB/octave                   |
| Vibration, non-operational | Random spectrum 1.7 g rms 2 h x 3 axes<br>(6 h total):<br>5 to 20 Hz: 0.05 g <sup>2</sup> /Hz<br>20 to 150 Hz: -3 dB/octave |

## Mechanical Shock

|                  |
|------------------|
| 20g/11 half-sine |
|------------------|

## Telephone Functionality

|                     |
|---------------------|
| Phone book          |
| Message indication  |
| Restricted dialling |
| Traffic logging     |

## Set-up and Router Functionality

|                     |
|---------------------|
| Web server          |
| Built-in NAT router |
| Network management  |
| SIP server          |
| 11 PDP contexts     |
| PPPoE               |

## Ship Motion

|               |                                      |
|---------------|--------------------------------------|
| Roll          | +/- 30 deg. per. 4 s, max 0.7 g tan. |
| Pitch         | +/- 15 deg. per. 3 s, max 0.6 g tan. |
| Yaw           | +/- 10 deg. per. 5 s, max 0.3 g tan. |
| Surge         | +/- 0.5g                             |
| Sway          | +/- 0.5g                             |
| Heave         | +/- 0.7g                             |
| Turning rate  | +/- 36°/s; ACC 12°/s <sup>2</sup>    |
| Headway speed | 22 m/s (42 knots)                    |
| Wind          | 100 knots                            |

## Dimensions and Weight

|     |                              |
|-----|------------------------------|
| ADU | 291.9 mm x Ø275.6 mm, 3.9 kg |
| BDU | 278 mm/231 mm/41 mm, 2.0 kg  |

Subject to change without further notice.