

SAILOR® 500 FLEETBROADBAND

Second Generation Maritime Broadband Communications



SAILOR®
Thrane & Thrane

The fast, cost-effective broadband that SAILOR 500 FleetBroadband enables for thousands of users has positively changed ship operation and crew welfare. After becoming the de-facto industry standard Inmarsat FleetBroadband solution, the best has just gotten better, as the second generation SAILOR 500 FleetBroadband is here.

With Thrane & Thrane's unrivalled experience in maritime satcoms you can be confident of both quality equipment and support. With this as a basis, extensive hardware and software enhancements including sophisticated new antenna technology combine to provide second generation SAILOR 500 FleetBroadband users with high-reliability and extensive functionality.

- Internet – connect ship and office, access to all internet sites and applications
- Telephony – call anywhere with unprecedented quality

Technology Evolution

The second generation SAILOR 500 FleetBroadband is an evolution in technology. It offers the same data speeds of up to 432 kbps and performance that has positioned SAILOR as the leading FleetBroadband solution but with extensive enhancements to improve operation. As the leading FleetBroadband solution, it offers:

- Background IP connection for e-mail and internet/intranet access including secure VPN capabilities
- Streaming IP (Quality of Service for data sessions or applications requiring a dedicated bandwidth of 8, 16, 32, 64, 128 or 256 kbps)
- ISDN 64kbps
- Telephony and data simultaneously
- Remote Access to the terminal and on board systems from shore
- Local Exchange – up to 16 IP Handsets manageable directly by user terminal, each with its own extension number

The all new SAILOR 500 FleetBroadband antenna, a fully stabilized 3-axis antenna with rate sensors for improved performance and fast, intelligent satellite tracking is the foundation of the second generation SAILOR 500 FleetBroadband solution.

The Thrane IP Handset and Local Exchange

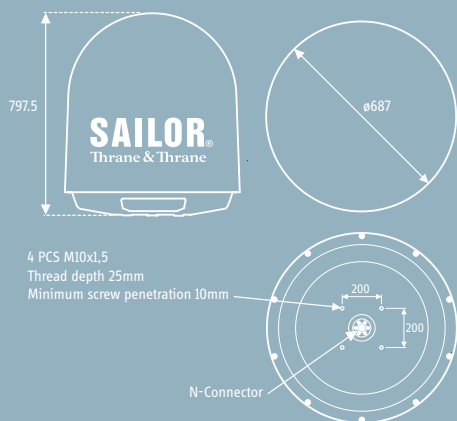
The second generation SAILOR 500 FleetBroadband can be transformed into a highly flexible multi-station voice solution by adding additional Thrane IP Handsets. These rugged plug-and-play handsets feature a highly intuitive user interface on a 2.2" TFT color screen and cutting-edge technology, including a state-of-the-art echo canceller and noise suppression software.

The SAILOR 500 FleetBroadband Below Deck Unit (BDU) can manage up to 16 IP Handsets. Each IP Handset can be called individually from shore, as well as locally from the vessel. This unique feature eliminates the requirement for an extra PABX phone system on most vessels.

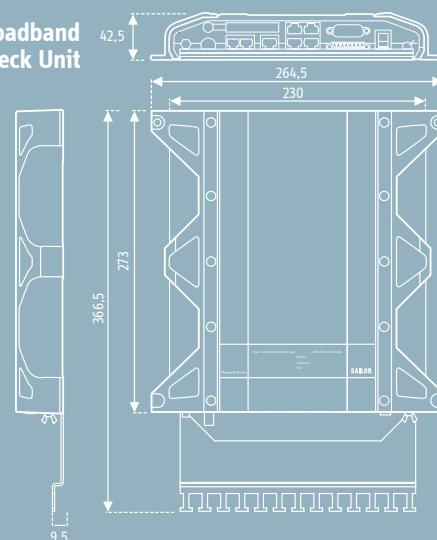
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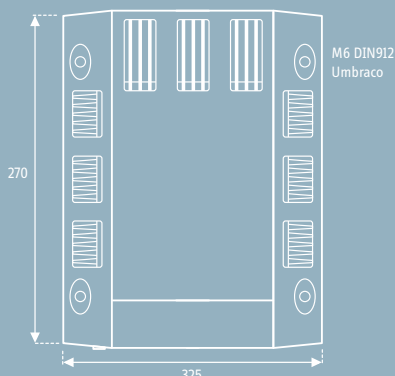
SAILOR 500 FleetBroadband Above Deck Unit



SAILOR 500 FleetBroadband Below Deck Unit



SAILOR 6080 AC/DC Power Supply



Specifications

Inmarsat FleetBroadband approved
Compliant to RTTE, CE Marked

Frequency Band

| | |
|-------------|----------------------------------------|
| Rx | 1525.0 - 1559.0 MHz |
| Tx | 1626.5 - 1660.5 MHz |
| Ch. spacing | 10.5 - 189 kHz, Rx 21 - 189 kHz, Tx |

Recommended Antenna Cable

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

Global Services

| | |
|----------------|------------------------------|
| Standard Voice | 4kbps AMBE+2 |
| ISDN Voice | 3.1 kHz Audio |
| Data | 64 kbps UDI/56 kbps RDI |
| Background IP | 432/432 kbps |
| Streaming IP | 8, 16, 32, 64, 128, 256 kbps |
| SMS | Up to 160 characters |

Antenna Connector

| | |
|-----|--------------------|
| ADU | 50 Ω N, female |
| BDU | TNC-socket, female |

BDU Interfaces

| | |
|------------------------------------------------------------------------------|--|
| Power On/Off button | |
| DC heavy duty power input connector with Remote on/off and locking mechanism | |
| 4 10/100Mbit Ethernet LAN user ports with Power over Ethernet (PoE) | |
| 1 Euro ISDN | |
| Sim card | |
| Factory default reset button | |
| 2 Independent RJ-11 phone 2-wire connectors | |
| 5 pin I/O connector for L-band broadcast services for external ringer, etc | |
| L-band output | |
| Status LEDs | |

Power Supply and Consumption

| | |
|-----------------------------------------|------------------|
| DC input range (isolated) | 10 to 32V DC |
| Power (max), incl. antenna & PoE output | 150 W @ 10 - 32V |

Environmental Conditions

| | |
|---------------------------------------------------------------------------------------|--------------|
| Ambient Temperature | -25 to +55°C |
| ADU Storage | -40 to +85°C |
| Survival (power on, non functional) | -40 to +80°C |
| Automatic thermal surveillance shuts down terminal gradually at +85°C PCB temperature | |
| ADU enclosure | IPX6 |

| | |
|------------------------|---------------------------------|
| ADU operating humidity | "Exposed" according to EN60 945 |
| BDU enclosure | IP31 |
| BDU operating humidity | 95% non-condensing at +40°C |
| Icing (survival) | Max 25 mm |

Vibration (ADU)

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

Mechanical Shock

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

Telephone Functionality

| | |
|---------------------|--|
| Phone book | |
| Message indication | |
| Restricted dialling | |
| Traffic logging | |
| Local exchange | |
| 16 handsets | |

Set-up and Router Functionality

| | |
|-------------------------------------|--|
| Web server - also via remote access | |
| Built-in NAT router | |
| Network management | |
| SIP server | |
| 11 PDP contexts | |

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 ² |
| Headway speed | 22 m/s (42 knots) |
| Wind | 100 knots |

Dimensions and Weight

| | |
|-----|--------------------------------|
| ADU | 797.5 x Ø687 mm, 23 kg |
| BDU | 42.5 mm/264.5 mm/273mm, 2.5 kg |

Subject to change without further notice.