Thrane & Thrane

SAILOR® 250 FLEETBROADBAND

Technology without limits

SAILOR 250 FleetBroadband harnesses the flexibility of Inmarsat's next I-4 satellite service, FleetBroadband. It offers budget conscious fishing vessels, workboats and private yachts the opportunity to enter the broadband arena whilst providing the reliability and functionality expected of systems for large commercial vessels.

SAILOR 250 FleetBroadband is based on the same architecture as the flagship SAILOR 500 FleetBroadband, and with Thrane & Thrane's unrivalled experience in satcoms for sea, land and aerospace applications, you can be confident of both the quality of the equipment and the support behind it.

Speed and Budget

With data speeds up to 284 kbps from an antenna diameter less than 30 cm, which weighs just 5 kg, this compact system provides performance and power at the right price point. A wealth of applications are possible based on its core functionality:

- IP connection for e-mail and internet/intranet access including secure VPN
- Streaming IP (Guaranteed bandwidth for data sessions or applications requiring a specific bandwidth – 32, 64 or 128 kbps)
- Voice and data simultaneously

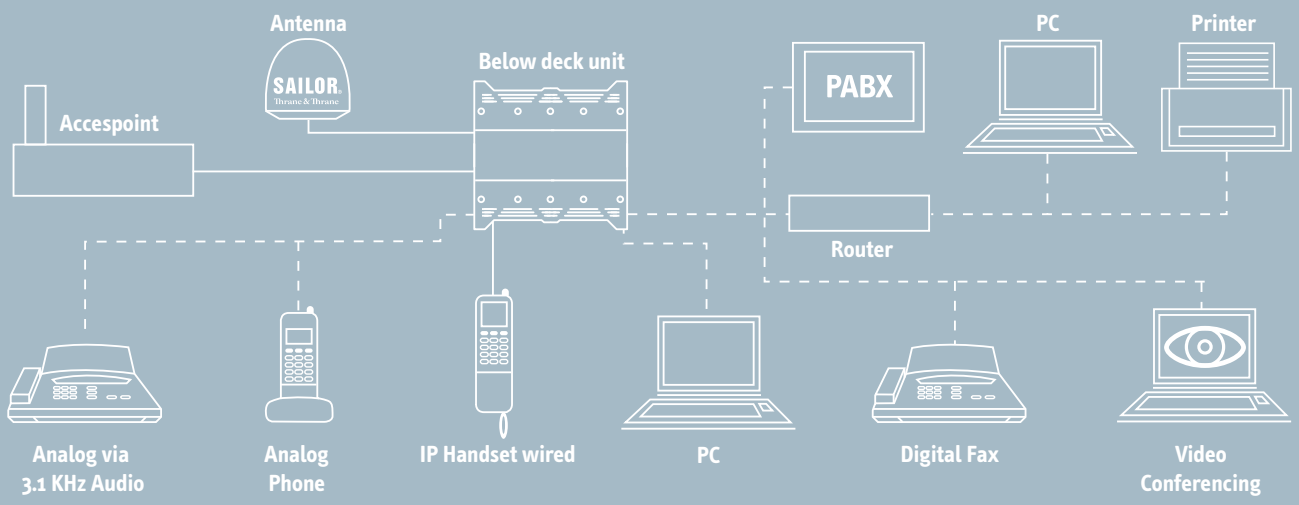
For fishing vessels and workboats, SAILOR 250 FleetBroadband enables economical tracking, internet and e-mail access for operational and crew use. A low initial investment and the per MB pricing of FleetBroadband traffic means communication spend is reduced despite an increase in functionality and frequency of use.

The same benefits are available for private yachts. Users can be confident that the rugged and reliable design engineered for professional use means it will take everything from a Mediterranean cruise to an Ocean crossing in stride.

The Thrane IP Handset

Make your cutting-edge SAILOR 250 FleetBroadband into a highly flexible, multi-station voice and data solution by adding additional Thrane IP Handset. These rugged new Plug-and-Play handsets let the user take full control of the flexibility of SAILOR 250 FleetBroadband through a highly intuitive user interface on the 2.2" TFT color screen and cutting-edge technology, including a state-of-the-art echo canceller and noise suppression software.

SAILOR®



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
	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 - 4 dB at 54 MHz

Global Services

Voice	4 kbps AMBE+2
	3,1 kHz Audio
Standard IP	284/284 kbps
Streaming IP	32, 64, 128 kbps
SMS	Up to 160 characters
Fax	Group 3 (via 3.1 kHz Audio)

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
4 10/100Mbit Ethernet LAN user ports with Power over Ethernet (PoE)
Sim card
Factory default reset button
2 Independent RJ-11 phone 2-wire connectors
5 I/O connector with General Purpose I/Os:
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 @ 10-32 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

Subject to change without further notice.

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:
	5 to 20 Hz: 0.02 g2/Hz
	20 to 150 Hz: -3 dB/octave
Vibration, non-operational	Random spectrum 1.7 g rms 2 h x 3 axes (6 h total): 5 to 20 Hz: 0.05 g2/Hz 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 Functionallity

Web server
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˚/s²
Headway speed	22 m/s (42 knots)
Wind	100 knots

Dimensions and Weight

ADU	329.2 x Ø275.6 mm, 4.2 kg
BDU	42.5 mm/264.5 mm/273 mm, 2.5 kg

71-127968 09.08 Brandhouse