

SAILOR® 500

High Speed FleetBroadband Terminal



SAILOR® 500 FleetBroadband is a high quality solution designed for intensive use on board merchant and offshore vessels. SAILOR® 500 FleetBroadband is revolutionising ship operation and welfare with high-speed internet connectivity, and running efficiency enhancing custom IP solutions in parallel with email, VPN and voice calling.



Features and Benefits

- **Broadband Data**
Always-on IP data service up to 432kbps for applications such as email, internet/intranet access, real-time electronic charts and weather reporting. LAN interface and IP Handset interface hosted on below deck unit.
- **Streaming IP**
Guaranteed rates up to 256kbps are available on demand for live applications such as video conferencing and database synchronisation.
- **Voice Services**
Voicemail, caller identification, caller barring and call forwarding options as well as low-cost calls all day, every day, with pre-pay and post-paid options for crew calling.
- **SMS**
Send and receive SMS text messages with up to 160 characters to and from other FleetBroadband terminals and land-based cellular networks through your PC.
- **Multiple Voice Lines**
Up to nine simultaneous voice lines through Inmarsat FleetBroadband Multi-voice with only a firmware upgrade required such as the Thrane IP Handset for an even more flexible solution with access to a multitude of value added services.
- **Fax**
Circuit-switched data connection for legacy applications such as Group 3 and Group 4 fax.
- **Easy Installation**
The compact and lightweight communication system allows for simple, secure and cost-effective user installation.
- **GSM Calls**
GSM enables users to make and receive calls and send and receive SMS texts using the pre-paid SIM in their own mobile phone.
- **Emergency Services**
505 Emergency Calling facility puts vessels directly in contact with a maritime rescue co-ordination centre (MRCC) free of charge.

- **Global Service Network**

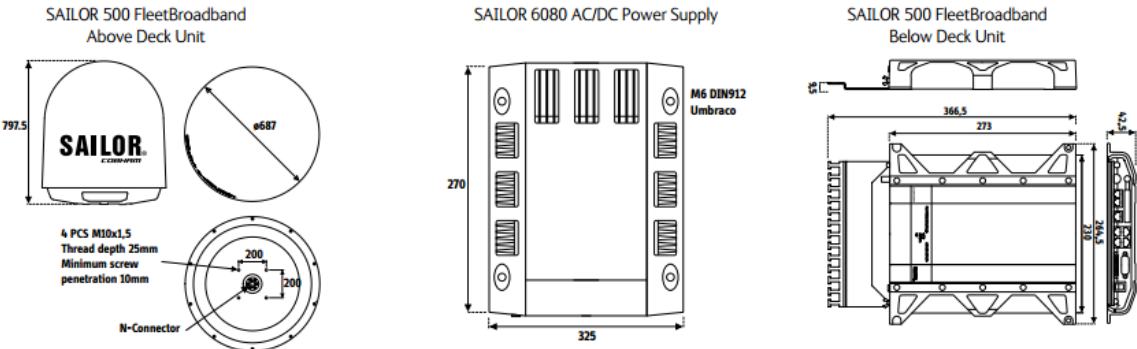
Benefits from fast and reliable global service and support through Cobham's established world-wide network of On Board Service Centers (OSC).

- **Global Coverage**

FleetBroadband is accessible globally via the Inmarsat I4 network, except in the extreme Polar Regions.



SAILOR 500 HARDWARE



PHYSICAL CHARACTERISTICS

Weight

ADU <23kgs
BDU < 2.5kgs

Dimensions

ABU

Height: 797.5mm
Diameter: 687mm

BDU

Height: 273mm
Width: 264mm
Depth: 42.5mm

Approvals

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

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

Interfaces

Ethernet (PoE)

Antenna Connector

ADY: TNC, Female
BDU: TNC, Female

DATA CAPABILITIES

Standard IP

Always on
< 432kbps

Streaming IP

Guaranteed
< 256kbps

SMS

160 characters

APPLICATIONS

- Phone and SMS
- Email and file transfer
- Internet and intranet access
- Multi-voice
- Safety 505
- Crew welfare
- Secure VPN access
- Vessel routing
- Weather forecasts
- Remote monitoring and maintenance
- E-logs
- Maritime / Port Regulations

RADIO SPECIFICATION

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

TOLERANCES

Ambient operating temp

-25°C to +55°C
(-13°F to +131°F)

Storage temperature

-40°C to +85°C
(-40°F to +185°F)

Survival Temperature

Power on non-functional
+40°C to +80°C
(+104°F to +176°F)

Operating humidity

BDU: 95% non-condensing at +40°C (+104°F)
ADU: "Exposed" according to EN60945

Icing (survival)

Max 25mm

Mechanical Shock

20g/11 half-sine

Vibration (ABU)

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
- 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

Ship Motion

Roll: +/- 30deg.per.4 s, max 0.7gtan.
Pitch: +/- 15deg.per.3 s, max 0.6gtan.
Yaw: +/- 10deg.per.5 s, max 0.3gtan.
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

Water and Dust

(Ingress protection)
ADU: IPX6
BDU: IP31

VOICE CAPABILITIES

Voice

4kbps, 3.1kHz audio

Supplementary services

- Voicemail
- Caller identification
- Caller barring
- Call forwarding
- Pre-pay and post-paid options for crew calling.

POWER

DC input range (isolated)

10 to 32V DC

Power (max), incl. antenna & PoE output

150 W @ 10-32 V