# SAILOR® 150 FLEETBROADBAND



The flexible global connectivity and voice solution

2013 Product Sheet

The most important thing we build is trust

SAILOR 150 FleetBroadband is a compact, lightweight, easy to install and affordable communication system that provides reliable internet access, email and multiple voice lines. Using the same proven technology as SAILOR's heavy-use FleetBroadband solutions, SAILOR 150 FleetBroadband combines internet connectivity with simultaneous voice calling, ideal for single users and general IP applications.

## Stay connected

With SAILOR 150 FleetBroadband you always have a 150 kbps data connection available, so you can receive weather data and charts, or submit reports to shore at the same time as making calls or sending text messages. SAILOR 150 FleetBroadband helps you achieve increased efficiency; commercial owners can expand the opportunities for profit while reliable connectivity for cruisers provides safety and convenience anywhere in the world.

## Simple and secure installation

SAILOR 150 FleetBroadband is easy and cost-effective to install, so professional and recreational users can be up and running within just a few hours. You'll have everything you need to get started in the box and because the system is based on standard IP services and clear user interface, connecting your computer or phone system is simple and safe.

## A world of applications

In addition to single user connectivity, enabling you to stay in touch with friends, family and colleagues regardless of your location or the weather, SAILOR 150 FleetBroadband can be used for dedicated tracking and telemetry applications.

This advanced functionality helps to enhance efficiency by ensuring your support on shore has all the information they need, from real-time engine data for maintenance to position data for vessel tracking.

## Multiple voice lines

With up to four simultaneous voice lines possible using the Inmarsat FleetBroadband Multi-voice service, you can turn your SAILOR 150 FleetBroadband into a multi-user voice solution. Combined with the Thrane IP Handset you get an even more flexible solution with access to a multitude of value added services.

# Communicate with confidence

SAILOR products are highly regarded by maritime professionals for their design and build quality, which results in excellent reliability. To support this, we guarantee fast and dependable service through our established network of On Board Service Centers (OSC). With OSC locations all around the world, service and support is always available, whenever and wherever it is needed.

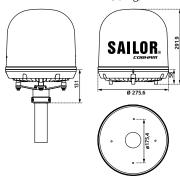


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#### **APPROVALS**

Inmarsat FleetBroadband approved. Compliant to RTTE, CE Marked. 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 $\Omega$ DC loop resistance
	3 dB at 36 - 4 dB at 54 MHz

### POWER SUPPLY AND CONSUMPTION

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

# ENVIRONMENTAL CONDITIONS

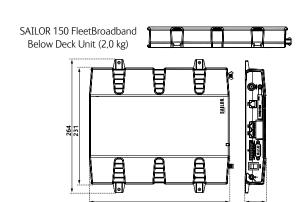
Ambient Temperature	-25 to +55°C		
Storage	-40 to +85°C		
Survival (power on, non functional)	-40 to +80°C		
Automatic thermal surveillance shuts down system gradually in ease of own temperature			
BDU operating humidity	95% non-condensing at +40°C		
ADU enclosure	IPX6		
ADU operating humidity	"Exposed"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

#### SHIP MOTION

SHIP MUTION	
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



### MECHANICAL SHOCK

0g/11 half-sine		
ug/ i i naii-sine		

#### ANTENNA CONNECTOR

ADU	TNC, female
BDU	TNC, female

#### COMPARISON CHART

	SAILOR 500	SAILOR 250	SAILOR 150
	FleetBroadband	FleetBroadband	FleetBroadband
Standard IP	Up to 432 kbps	Up to 284 kbps	Up to 150 kbps
Streaming IP	8, 16, 32, 64, 128,	8, 16, 32, 64,	
	256 kbps	128 kbps	-
ISDN Data	64 kbps	-	-
Fax	G4 via UDI,	G3 fax via 3.1 kHz	G3 fax via 3.1 kHz
	G3 fax via 3.1 kHz	Audio	Audio
	Audio	Addio	Audio
SMS (standard 3G)	160 characters	160 characters	160 characters
Standard Voice	4 kbps	4 kbps	4 kbps
Premium Voice	3.1 kHz Audio, 64 kbps	3.1 kHz Audio, 64 kbps	3.1 kHz Audio, 64 kbps
Multi-voice	9 voice lines	6 voice lines	4 voice lines
	simultaneously	simultaneously	simultaneously
Ethernet/PoE	4 ports	4 ports	2 ports
Phone/Fax (2-wire)	2 ports	2 ports	1 port
ISDN	1 port	1 port	
	(data/3.1 kHz Audio)	(3.1 kHz Audio)	-
I/O Connector	1 connector with	1 connector with	1 connector with
	5 configurable	5 configurable	5 configurable
	inputs/outputs	inputs/outputs	inputs/outputs
L-Band Output	1 port for L-Band	1 port for L-Band	1 port for L-Band
	Broadcast service	Broadcast service	Broadcast service
Status LED	Full status LED panel	Full status LED panel	Full status LED panel
SIM Card Slot	1 SIM Card slot for	1 SIM Card slot for	1 SIM Card slot for
	BGAN SIM card	BGAN SIM card	BGAN SIM card
Router	Integral DHCP/NAT	Integral DHCP/NAT	Integral DHCP/NAT
	router	router	router
PBX	Built-in PBX	Built-in PBX	Built-in PBX

For further information please contact:

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