SAILOR FLEET55
Compact maritime communications hub

The SAILOR Fleet55 communications terminal offers high-speed and cost effective voice and data communication in a compact package. With high quality audio, e-mail and Internet it provides ocean-going vessels with all modern communication options. In a made-for-the-sea construction.

Important features

- Maritime communications terminal offering voice, fax and data services
- Choose between Mobile Packet Data Service (MPDS) and ISDN
- mini-M voice. Global coverage, 78° north to 78° south
- 64 kbps data (Spot beam coverage)
- 9.6kbps fax capability
- 3.1 KHz Audio (Spot beam only)
- Light weight and compact transceiver and antenna design
- Rapid configuration via handset or PC
- Operates on the latest generation of Inmarsat Satellites, I4

The SAILOR Fleet55 terminal acts as a hub for all your communication needs. Connect desktop phones, payphones, DECT phones and fax machines or add an IP router to integrate the vessel with onshore management systems or provide e-mail and Internet. The system is simple to configure via user friendly software on a standard PC.

Cost-efficient data transfer

The SAILOR Fleet55 offers 64 kbps data transfer via either MPDS or ISDN. With MPDS (Mobile Packet Data Service) you are charged for the amount of data you send or receive. With ISDN charges are per minute.
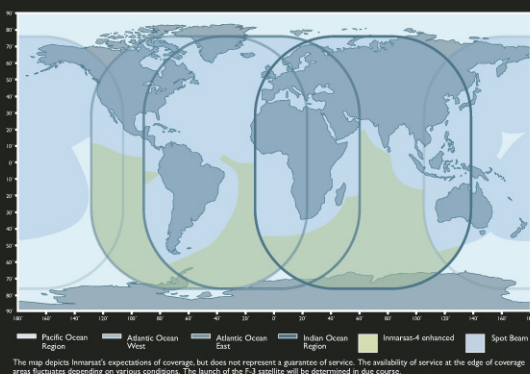
MPDS is the most economic and convenient solution for e-mail, small and medium size file transfer, LAN, VPN and Internet. ISDN provides a high capacity channel with a constant data stream and is usually preferable for up- or downloading large files.

Reliable and easy to maintain

The SAILOR Fleet55 operates through the established network of Inmarsat and GPS satellites, including the new I4 satellites. The Inmarsat Fleet services are known for fast and reliable transfer of information, 24 hours a day.

The compact antenna is 68 cm high, has a diameter of just 57 cm and weighs only 18 kg. It is line replaceable for easy service and maintenance. The transceiver unit is sturdy and constructed for maritime use.

SAILOR

Inmarsat coverage map for Maritime Digital Services
with planned Inmarsat-4 enhancements

The map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions. The launch of the F-3 satellite will be determined in due course.

Specifications

Inmarsat Fleet55 approved.

Compliant to FCC, title 47 part 25, section 25.216.

Compliant to RTTE, CE Marked.

Frequency Band

Rx:	1525.0 – 1559.0 MHz
Tx:	1626.5 – 1660.5 MHz
Ch. spacing:	1.25 kHz – Rx

Recommended Antenna Cable

N/N male, max. cable loss 10 dB at 1.6 GHz, 0.5 Ω at DC:

< 25 m:	RG214
< 50 m:	SA07272
< 60 m:	SA12272

Global Service

Voice:	4.8 kbps mini-M voice

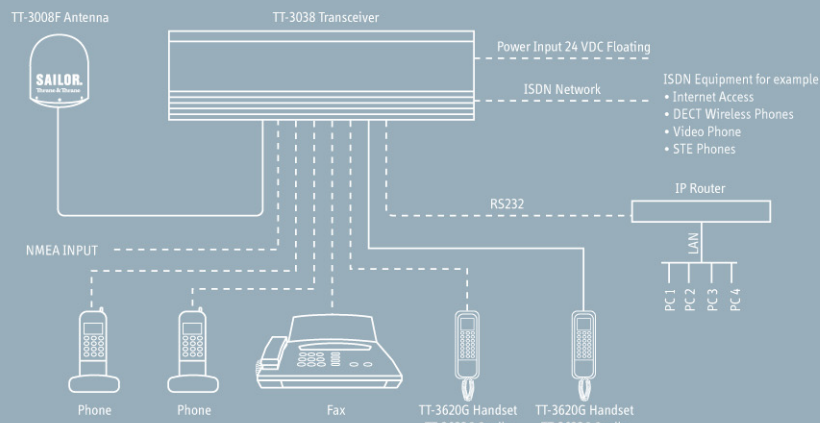## Spot Beam Services

Voice:	4.8 kbps mini-M voice – 3.1 Hz high quality voice
Group 3 fax capability:	9.6 kbps
MPDS:	64 kbps shared channel
ISDN:	64 kbps PPP channel

Antenna Connector

50 Ω N female

Interfaces

1 RJ-45 ISDN NT1 S/T Bus
3 RJ-11 for analog telephone/fax
2 DSUB-15 for 4-wire control handset
1 50 Ω TNC female for antenna
1 DSUB-9 NMEA 2000/183
1 DSUB-9 RS-232 Port, 115 kbps
4 Discrete I/O
1 Power Port, 24 VDC floating
1 On/Off button
1 RJ-45 LAN Port

Power Supply and Consumption

24 VDC -10% / +30%	
Input circuit:	Floating
Max 200W	
Peak current:	16A@24V 15 ms

Environmental Conditions

Ambient temperature:	-25 to 55°C
Relative Humidity:	95% non-condensing at +40°C

Vibration (antenna)

4-10 Hz:	2.54 mm
10-15 Hz:	0.76 mm
15-25 Hz:	0.40 mm
25-33 Hz:	0.23 mm

Mechanical Shock

20g/11ms half-sine

Ship Motions

Roll:	+/-30 deg
Pitch:	+/-10 deg
Yaw:	+/-8 deg
Surge:	+/-0.2g
Sway:	+/-0.2g
Heave:	+/-0.5g
Turning Rate:	+/-6 deg/s
Headway:	30 knots

Dimension and Weight

Antenna (TT-3008F):	680mm x ⌀570, 18 kg
Transceiver (TT-3038C):	53.75 x 377 x 163.7 mm, 2.6 kg
Cradle (TT-3622C):	160 x 61 x 27 mm, 0.15 kg
Handset (TT-3620G):	200 x 52 x 33 mm, 0.50 kg incl. cable

Specifications subject to change without prior notice.

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