Thrane & Thrane

SAILOR FLEET77

Comprehensive maritime communications

The SAILOR Fleet77 communications terminal from Thrane & Thrane offers high-speed and cost effective voice and data communication. It is a veritable satellite communication powerhouse. It offers seamless coverage on most of the globe (with exception for the Poles), so you have access to all the Fleet77 services, including global voice distress no matter where your route may take you.

Important features

- Maritime communication terminal providing phone, fax, e-mail and Internet
- Global coverage, 78° north to 78° south
- ISDN DATA 64 kbps or 128 kbps (128 kbps in spot beam only)
- 3.1 KHz Audio
- mini-M voice
- 2.4 or 9.6 kbps Group 3 Fax capabilities
- Global Voice Distress
- Rapid configuration via handset or PC
- Operates on the latest generation of Inmarsat Satellites, I4

The SAILOR Fleet77 is the most powerful hub for maritime communication. Connect phones, payphones, DECT phones and fax machines and enjoy superior quality service. And via an IP router the SAILOR Fleet77 terminal can integrate the vessel with onshore management systems via the Web, aside from providing e-mail and Internet services to crew and management. The system is accompanied by user-friendly software, which enables simple configuration from a standard PC.

Fast and cost-efficient data

With the SAILOR Fleet77 terminal you get data transfer speeds up to 128 kbps via ISDN. You may choose either the MPDS (Mobile Packet Data Service) protocol where you are charged for the amount of data you send or receive or ISDN where charges are per minute.

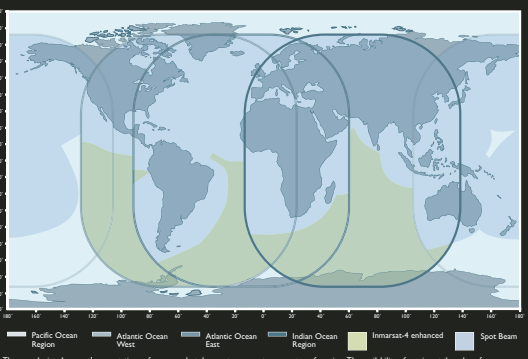
MPDS is the most economic and convenient solution for e-mail, small and medium size file transfer, LAN, VPN and Internet. ISDN provides a high capacity channel with a constant data stream and is usually preferable for up- or downloading large files, video-conferencing and high quality voice.

Compact and easy to maintain

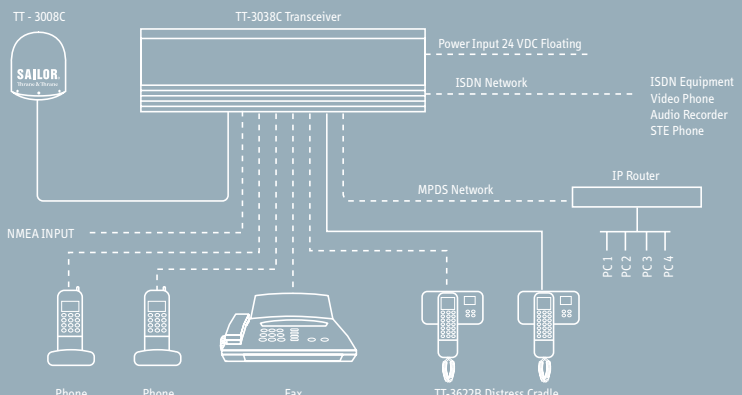
The tracking antenna is 88 cm high, has a diameter of just 84 cm and weighs only 27 kg. It is line replaceable and features a bottom hatch for easy service and maintenance access. The transceiver itself is a sturdy construction made for maritime use.

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.



The most advanced maritime Inmarsat service available

The SAILOR Fleet77 operates through the established network of Inmarsat and GPS satellites. With interconnections to the international fax and packet switched data networks it offers fast and reliable transfer of information 24 hours a day. The SAILOR Fleet77 transceiver provides a constant two-way link to Inmarsat satellites offering all Inmarsat Fleet global communications.

Specifications

Inmarsat Fleet77 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 Services

Voice:	4.8 kbps mini-M voice 3,1 khz audio
Group 3 fax capability	2.4 kbps or 9.6 kbps Fax capability
MPDS:	64 kbps shared channel
ISDN:	64 kbps PPP channel

Spot Beam Services

ISDN:	128 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/distress
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 240W	
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-3008C):	880 x ∅845 mm, 27 Kg.
Transceiver (TT-3038C):	53.75 x 377 x 163.7 mm, 2.6 kg
Cradle (TT-3622B):	100 x 145 x 42 mm, 0.25 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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