

TT-3084A Capsat® Fleet77



Features

- Online, all the time with Mobile Packet Data Service (MPDS).
- 64 kbps ISDN.
- 3.1 KHz Audio
- Speech
- Mini-M voice
- Fax
- Global Voice Distress
- Single-channel system.
- Simple installation because of its lightweight and compact transceiver and antenna.
- Rapid configuration via handset or PC
- Shipboard communication hub.
- Compact, convenient, cost-effective and reliable.
- Global coverage, 78° north to 78° south.

Description

The TT-3084A Capsat® Fleet 77 communications terminal offers high-speed and cost effective voice and data communication based on either the MPDS (Mobile Packet Data Service) protocol with constant online access or on the 64 kbps ISDN connection.

With MPDS you are only charged for the amount of data sent, not for the time the channel remains open, making it the most economic and convenient solution for e-mail, small and medium size transfer, LANs, VPNs and Internet.

ISDN services provide a high-capacity channel with a constant data stream and are usually preferable for up- or downloading large files.

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 antenna can be placed up to 70 meters from the transceiver.

The Capsat® Fleet77 transceiver provides a constant two-way link to Inmarsat satellites offering Inmarsat Fleet MPDS communications. The system is accompanied by user-friendly software, which enables simple configuration from a standard PC.

The Capsat® Fleet77 transceiver and antenna provide the hub for online communication all the time via desktop phones, payphones, DECT phones and fax machines.

Connected to an IP router, the Capsat® Fleet77 terminal can integrate the vessel 24 hours a day with onshore management systems via the Web, including e-mail and Internet services.

The TT-3084A operates through the established network of Inmarsat and GPS satellites with interconnection to the international fax and packet switched data networks, offering fast and reliable transfer of information, 24 hours a day.

Specifications

Specifications:

Meets or exceeds current and proposed INMARSAT specifications for Inmarsat-phone spot- and global-beam operation.

Antenna:

Sensor stabilised platform with directional RHCP Antenna. No cable unwrap. Maximum pointing error +/- 5 deg.

Ship Motions:

Roll +/-25 deg, Pitch +/-15 deg, Yaw +/-8 deg, Surge 0.2g, Sway +/-0.2g, Heave +/-0.5g, Turning Rate +/-12 deg/s, Headway 30 knots.

G/T:

-4 dBK minimum - EIRP: HSD: 8-32 dBW in 1 dB steps. Mini-M: 5-26 dBW in 1 dB steps.

Antenna Cable:

N/N male, max. cable loss 12 dB at 1.6 GHz, 0.5 ohm at DC.

Antenna Connector:

N female (50 Ω)

Transceiver Connector:

TNC female (50 Ω), short TNC/N pigtail cable supplied.

Rx Freq. Band:

1525.0 - 1559.0 MHz

Tx Freq. Band:

1626.5 - 1660.5 MHz

Channel Spacing:

1.25 kHz - Rx

Modulation:

5.6 kbps O-QPSK SCPC (voice, fax), 6 kbps BPSK TDM, 134.4 kbps 16QAM SCPC (data)

Tx Modulation:

5.6 kbps O-QPSK SCPC (voice, fax), 3 kbps BPSK TDM, 134.4 kbps 16QAM SCPC (data)

Interfaces:

Voice:

4.8 kbps AMBE, 64 kbps broadcast

Async. Data Rate:

Euro ISDN 64 kbps and US ISDN 56 kbps

Phone Interface:

2-wire 600Ω CCITT rec. G.473, standard DTMF telephones, RJ-11 modular jack.

Fax Interface:

2-wire 600Ω CCITT rec. G.473, T.30 Groups III Fax, RJ-11 modular jack.

Data Interface:

Serial EIA compatible standard RS-232E, built-in Hayes compatible modem, up to 115 kbps, DB-9 female connector.

Euro ISDN Interface:

ISDN NT1 S/T bus, ITU-T I.430, ISO 8877 compliant RJ 45 connector

USB Interface:

USB slave interface.

Power Supply and Consumption

Power Supply:

18 - 32 Vdc floating

Power Consumption:

70W TX-mode (typ.), 20W RX-mode (typ.), Max. 90W [TBD]

Environmental Conditions:

Ambient Temperature:

25 C - +50 C for EME, 0 - 45 C for IME

Relative Humidity:

BDU: 95% non-condensing at +40°C

ADU: 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

Dimension and Weight:

Transceiver (TT-3038C):

2.6 kg, 53.75mm x 377mm x 163.7mm

Maritime Stabilised Antenna (TT-3008C):

27 kg, Diameter: 840mm Height: 880mm

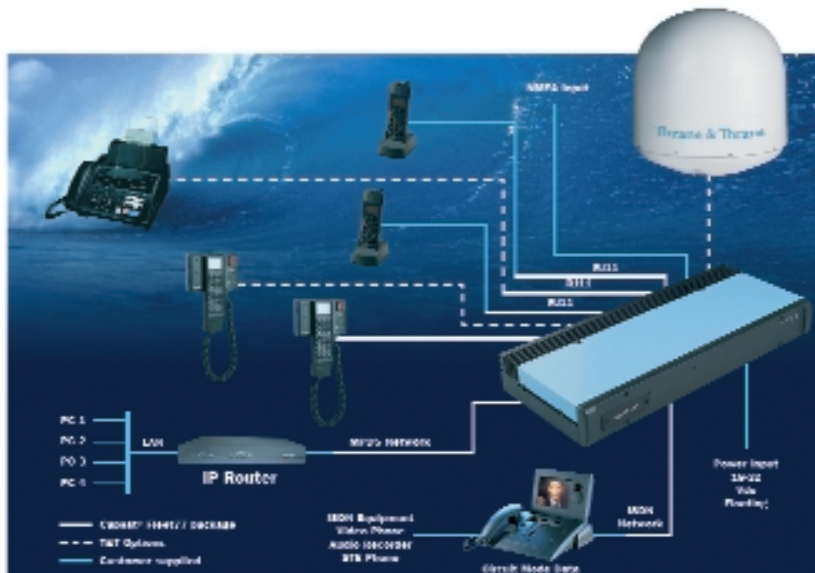
Cradle for the handset (TT-3622B):

0.25 kg, 100m x 145mm x 42mm

Handset (TT-3620F):

0.24 kg, 200m x 52mm x 33mm

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Distributor: