

## TT-3086A Capsat® Fleet55



### Features

- Online, all the time with Mobile Packet Data Service (MPDS). Spot beam only.
- 64 kbps ISDN. Spot beam only. Voice, fax, data..
- 3.1 KHz Audio. Spot beam only.
- Fax. Spot beam only.
- Mini-M voice. Global coverage, 78° north to 78° south.
- 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.

### Description

The TT-3086A Capsat® Fleet55 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 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 Capsat® Fleet55 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® Fleet55 transceiver and the 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® Fleet55 terminal can integrate the vessel 24 hours a day with onshore management systems via the Web, including e-mail and Internet services.

The TT-3086A operates through the established network of Inmarsat and GPS satellites with interconnection to the international fax and packet switched data network, offering fast and reliable transfer of information, 24 hours a day.

## Specifications

### Specifications:

Meets or exceeds the current and proposed INMARSAT F55 specifications.

### 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:

-7 dBK minimum - EIRP: HSD: 5-25 dBW in 1 dB steps. Mini-M: 5-25 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  $\Omega$ )

### Transceiver Connector:

TNC female (50  $\Omega$ ), 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 600 $\Omega$  CCITT rec. G.473, standard DTMF telephones, RJ-11 modular jack.

#### Fax Interface:

2-wire 600 $\Omega$  CCITT rec. G.473, T30 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:

24 Vdc floating

#### Power Consumption:

Max 200W

### Environmental Conditions:

#### Ambient Temperature:

-25 C - +55 C for EME. -15 C - +55 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-3008F):

18 kg, 570 mm, 680 mm

#### Cradle for the handset (TT-3622C):

H x W x D, 160 mm x 61mm x 27 mm, 0,15 kg.

#### Handset (TT-3620F):

200 mm x 52 mm x 33 mm, 0.25 kg.

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Distributor: