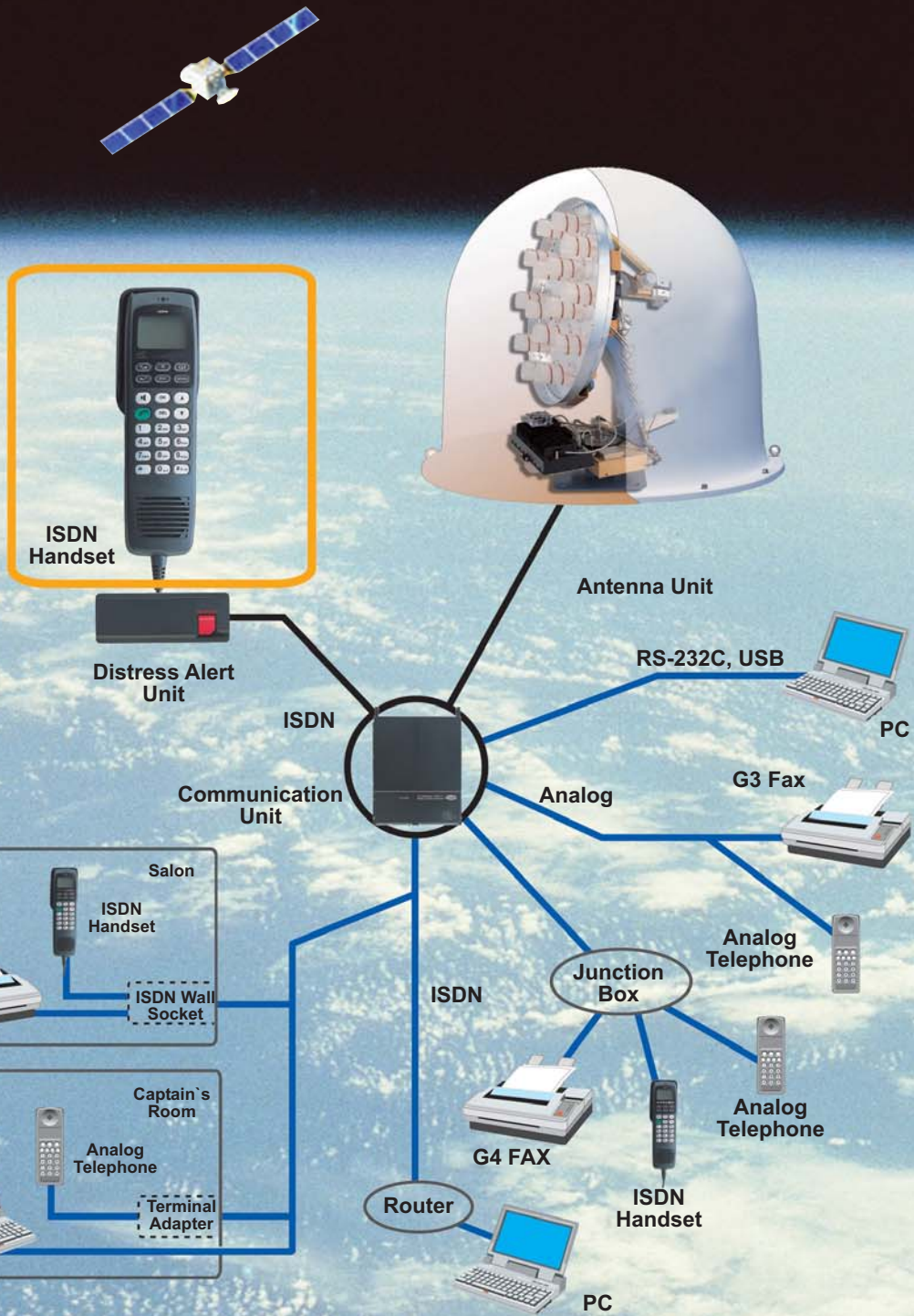


# Inmarsat Fleet F33 / F55 / F77



Marineelektronik  
Netzwerktechnik  
Computersysteme  
Weltweiter Service

Marine Electronics  
Network Technology  
Computer Systems  
Worldwide Service



# Technical Specification

## F33

### Services

#### Global service

Voice 4.8 speech (Mini-M)

#### Spot beam service

Voice 4.8 speech

Data 9.6 kbps data  
Built in compression  
V42 Bis/V44,  
up to 40 kbps

Telefax 9.6 kbps fax G3  
MPDS 64 kbps forward  
28.8 kbps return  
Shared channel

### Functions

- Supervision from handset
- Configuration from PC
- Traffic log on PC or printer
- Message indicator
- Access code
- Call restrictions
- Sim card operation
- Phone book (up to 100 numbers)

### Interfaces

#### Connectors

1 pcs DC power connector  
1 pcs N-contact coaxial connector (RF)  
2 pcs RJ-45 ISDN connectors for  
Telephone/Fax/  
PC/PABX/Handset/DECT

1 pcs USB port

2 pcs RS232

#### Terminals

4 pcs RS422  
4 pcs ISDN (1 port) for external cables to  
PABX/  
DECT/PC/Handset/Telephone.

2 pcs NMEA input

2 pcs spare terminals

#### Other Interfaces

1 pcs SIM card reader

4 pcs LEDs

#### Optional equipment

ISDN – Fax adaptor

#### Cabling ADE – BDU

RG 223 25m

RG 214 50m

RG 1/2 170m

S10172B11 140m

### Power

18-32 V DC

External 12 V DC (optional)

### Dimensions and weight

Antenna 8kg  
40 x 40cm

MCU 3kg  
Dimensions 80mm x 180mm x 310mm  
(h x w x d)

## F55

### Services

#### Global service

Voice 4.8 speech (Mini-M9)

#### Spot beam service

Voice 4.8 speech/64 kbps  
high quality

Data 64 kbps data  
56 kbps data

Telefax 64 kbps fax G4  
9.6 kbps fax G3

MPDS 64 kbps

Shared channel

Audio 3.1 kHz audio

### Functions

- Supervision from handset
- Configuration from PC
- Traffic log on PC or printer
- Message indicator
- Access code
- Call restrictions
- Sim card operation
- Phone book (up to 100 numbers)

### Interfaces

#### Connectors

1 pcs DC power connector  
1 pcs N-contact coaxial connector (RF)  
2 pcs RJ-45 ISDN connectors for  
Telephone/Fax/  
PC/PABX/Handset/DECT

1 pcs USB port

2 pcs RS232

#### Terminals

4 pcs RS422  
4 pcs ISDN (1 port) for external cables to  
PABX/  
DECT/PC/Handset/Telephone.

2 pcs NMEA input

2 pcs spare terminals

#### Other Interfaces

1 pcs SIM card reader

4 pcs LEDs

#### Optional equipment

ISDN – Fax adaptor

#### Cabling ADE – BDU

RG 223 25m

RG 214 50m

RG 1/2 140m

S10172B11 170m

### Power

• 18-32 V DC

• Power consumption: 40W receive/idle,  
110W transmit

• External 12 V DC (optional)

### Dimensions and weight

Antenna 15kg  
60 x 63cm (h x d)

MCU 3kg  
Dimensions 80mm x 180mm x 310mm  
(h x w x d)

## F77

### Services

#### Global service

• **Voice** 4.8 kbps, 64 kbps

• **Data** 56/64 kbps ISDN

• **Fax** Group 3, Group 4

• **Distress Alarm**

• **L-band Output**

1.5 GHz signal output for Inmarsat  
Broadcast services

• **Number Storage** 10 latest numbers  
dialled (up to 20 digits)

• **Telephone Book** 99 short numbers  
with alphanumeric names

• **Restricted Dialling and Restricted  
LES**

• **Traffic Logging**

• **Charge Tone and Precharge Minutes**

• **Display Interface**

• **Loader Program**

• **“93Radio Silence”94 function**

• **ISDN Hands free operation**

### Optional functions and services

• **Secure Interface** STU-II B/STU III

• **Dual Antenna Operation**

• **Data Service** 128/256 kbps

• **Credit Card Phone**

• **Power Supply** 12/24 V DC operation

• **Remote configuration facility**

The MCU is provided with SIM Card  
reader enabling “93private”94 IMN  
number for each user.

### Interfaces

#### Terminals (for wire screw connections)

• 4 pcs each with 4-terminals for  
2 x 2 pair ISDN connection

• 4 pcs each with 2-terminals for  
connection to 2-wire analogue  
telephones

• (TEL 1 + TEL 2 + TEL 3 + TEL 4)

• 4 pcs terminals for RS-422

connection

• 4 pcs terminals for “93Radio  
Silence”94 connection

• 2 pcs terminals for NMEA connection

#### Connectors (contacts)

• 4 pcs RJ-45 (ISDN) connectors for  
Distress Alarm Box, ISDN Telephones,  
PC, G3/G4 Telefax etc.

• 2 pcs RJ-45 connectors (TEL 3 and  
TEL 4) for Analogue telephones

• 1 pcs USB connector for PC/data  
equipment

• 1 pcs 9-pin D-SUB connector for  
RS-232 interface

• 1 pcs 9-pin D-SUB connector for  
RS-232 or RS-422 interface

### Power

110-240 VAC +/- 10%, 47-400 Hz

Power consumption: 40W receive/idle,  
150W transmit

### Dimensions and weight

#### Main Control Unit, MCU

Dimension: 86mm x 372mm x 380mm  
(H x W x D)

Weight: 6.8kg

#### Above Deck Equipment, ADU (antenna) Mast mount

Dimension: 108cm H, 132cm Dia.

Weight: 65kg

#### Deck mount

Dimension: 108cm H, 91cm Dia.

Weight: 50kg