

Technical Specifications

Inmarsat Fleet F77 is the first member of the Inmarsat Fleet family of services, supporting the Inmarsat Mobile Packet Data service, Mobile ISDN service, voice and fax services.

The Inmarsat Fleet F77 service provides enhanced strategic flexibility to meet the varied communications and data requirements of the maritime industry. The requirements for data and e-mail services in the marine industry have risen steadily in recent years, and the Fleet F77 service is designed to meet these requirements on a global basis, whilst providing voice distress and safety services to meet the latest requirements of the Global Maritime Distress and Safety System (GMDSS).

A single, integrated terminal platform provides users at sea with both Mobile Packet Data Services (MPDS) and mobile ISDN data, together with voice and fax services. The latest requirements of the GMDSS entail pre-emption and prioritisation of voice calls over lower priority voice and data traffic.

Uses

Inmarsat Fleet F77

- Ship to Shore to Ship voice and data communications
- Remote Network Access
- I.P.-based solutions on board ship, such as:
 - E-mail and data communications
 - Ship Management Applications
 - On-line chart updates
 - On-line weather information
 - Vessel telemetry

Features and Benefits

- A powerful communications solution providing the flexibility to meet communications and data requirements for shipping
- Two distinct data channels provided, which can be selected according to specific situational requirements
- Provides full global maritime coverage, to meet demands of commercial shipping

Service Characteristics

- Inmarsat Mobile Packet Data service, for immediate short-burst data
- Global voice and fax services
- Mobile ISDN, for larger bandwidth and file-size requirements
- Designed to meet latest requirements of GMDSS voice distress and safety requirements, relating to distress handling and pre-emption



Terminal/Service characteristics

Feature	Details
Terminal weight	The weight of the BDE (Below Deck Unit) is typically 4-5 kg. This includes the power supply unit and the main communications unit. Peripheral equipment such as handsets, distribution unit, distress box, fax machines, PCs etc comes in addition to what is referred to as BDE.
Terminal size	The BDE measurements are approximately 380x380x70 mm.
Weight of antenna unit	The weight of the antenna unit is typically 40 kg. This includes the radome, the stabilised antenna dish with tracking electronics and RF (Radio Frequency) equipment.
Antenna radome size	Typically a semi-spherical 1.2 metre diameter dome.
SIM card	The SIM card identifies the user using the terminal. The card contains the numbers that are used to contact this user and defines the preferences, such as the network service provider, stored number list etc. A PIN number, preventing unauthorised use, protects use of the SIM card.
Telephone handsets	The BDE permits a number of handsets to be connected, either 2 wire analogue or ISDN. Handsets may be placed up to 100 metres away from the BDU.
External power	The BDE input power is 110V or 220V \pm 10% (90 VAC to 276 VAC).
Power consumption	Power consumption is typically 200 W in idle mode, 300 W in transmit mode. This is for the BDE alone and excludes peripherals such as fax machines and PCs.
Operating conditions	The ambient operating temperature for the BDE is 0-45° C. To secure adequate cooling there should be a minimum 10 cm unobstructed clearance all the way around the BDE.
Connectors	<ul style="list-style-type: none"> • 2 wire analogue telephone ports (RJ45) • ISDN (RJ45) • RS422 serial port • USB serial port • RS232 serial data port (accessed via an enhanced AT command set)
Configuration	The operational characteristics and port settings of the MES can be configured using a PC connected to the RS-232 or USB ports. The information on how to do this is provided in the user manual from each manufacturer. (Accessed via an enhanced AT command set).
User interface	The user interface may either be through the liquid crystal display on the ISDN handset together with the keys on the handset or through menu screens on the PC.
Coverage	Global beam coverage with future I4 compatibility.
GMDSS	The terminal supports the latest IMO requirements related to GMDSS (Global Maritime Distress and Safety Services). This relates to distress handling and pre-emption.

For further information about Fleet F77, please contact:

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