

## Technical Specifications

Inmarsat Fleet F55 is the second member of the Inmarsat Fleet family supporting the Inmarsat Mobile Packet Data Service, Mobile ISDN, voice and fax services.

The Inmarsat Fleet F55 service provides enhanced strategic flexibility to meet the varied communications and data requirements of the maritime industry. The need for data and e-mail services has risen steadily in recent years, and the Fleet F55 service is designed to meet these requirements.

A single, integrated terminal platform provides users at sea with both the Mobile Packet Data service (MPDS) for immediate short burst data and 'always on' capability, mobile ISDN, voice and fax services.

### Uses

Inmarsat Fleet F55

- Ship to Shore to Ship voice and data communications
- Remote network and PC access
- On board ship solutions, for example:
  - E-mail and data communications
  - Ship management applications
  - Online chart updates
  - Online weather information
  - Vessel telemetry
  - Software downloads

### Features and Benefits

- A powerful communications solution providing the flexibility to meet communications and data requirements for shipping
- Two distinct data channels provided (see below), which can be selected according to specific situational requirements
- Provides full global maritime coverage for 4.8 kbit/s voice, the remaining services are covered in spot beams

### Service Characteristics

- Global voice
- Spot beam coverage for fax/data
- Inmarsat Mobile Packet Data service
- Mobile ISDN, for larger bandwidth (up to 64 kbit/s) and larger file-size requirements
- 9.6 kbit/s / G3 fax option



## Terminal/Service characteristics

Feature	Details
<b>Terminal weight</b>	The weight of the BDE (Below Deck Equipment) is typically 2.5 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 are available in addition to what is referred to as BDE.
<b>Terminal size</b>	The BDE measurements are approximately 220x270x75 mm or 380x164x55 mm
<b>Weight of antenna unit</b>	The weight of the antenna unit is typically 18 kg. This includes the radome, the stabilised antenna dish with tracking electronics and RF (Radio Frequency) equipment.
<b>Antenna radome size</b>	Typically a semi-spherical 0.6 metre diameter dome
<b>SIM card (option)</b>	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.
<b>Telephone handsets</b>	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 BDE.
<b>External power</b>	The BDE input power is 9 to 32 VDC.
<b>Power consumption</b>	Power consumption is a maximum of 200 W in transmit mode. This is for the BDE alone and excludes peripherals such as fax machines and PCs.
<b>Operating conditions</b>	The operating temperature for the ADE is -25° C to +55° C.
<b>Connectors</b>	<ul style="list-style-type: none"> <li>• x.21</li> <li>• Analogue telephone port (RJ11)</li> <li>• ISDN (RJ45)</li> <li>• RS449 serial port</li> <li>• USB serial port</li> <li>• RS232 serial data port</li> </ul>
<b>Configuration</b>	The operational characteristics and port settings of the MES can be configured using a PC connected to the RS232 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)
<b>User interface</b>	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.
<b>Coverage</b>	Global beam coverage for 4.8 kbit/s voice, all other services are covered in spot beams. Compatible with future I-4 satellites.

Check with manufacturers for detailed specifications. For details of manufacturers see the website below.

For further information about Inmarsat Fleet F55, please contact:

Inmarsat's Fleet website: [www.inmarsat.com/fleet](http://www.inmarsat.com/fleet)

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