

Technical Specifications

Inmarsat Fleet F33 is the third member of the Inmarsat Fleet family supporting voice, fax and data services.

The Inmarsat Fleet F33 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 F33 service is designed to meet these requirements.

A single, integrated terminal platform provides users at sea with voice, fax and data services. During 2004 it is planned to extend this with an option of the Mobile Packet Data service (MPDS) for immediate short burst data and 'always on' capability.

Uses

Inmarsat Fleet F33

- Ship to Shore to Ship voice and data communications
- On board ship solutions, for example:
 - E-mail and data communications
 - Vessel management applications
 - Online chart updates
 - Online weather information
 - Vessel telemetry
 - Fishing industry applications

Features and Benefits

- A powerful communications solution providing the flexibility to meet communications and data requirements for shipping

- Options for two distinct data channels provided (see below), which can be selected according to specific situational requirements
- Provides full global maritime coverage for voice and spot beam coverage for fax, data and Mobile Packet Data services (MPDS)*

Service Characteristics

- Global voice services
- Spot beam coverage for fax/data
- Option for Inmarsat Mobile Packet Data service,* and/or 9.6 kbit/s dial-up (circuit-switched) data**

Fleet F33 provides global voice and spot beam data. Three distinct service configurations are defined:

Service	Coverage	Service Configuration / Option		
		1	2	3
Voice (4.8 kbit/s)	Global	Yes	Yes	Yes
9.6 kbit/s fax/data	Spot	Yes	-	Yes
MPDS*	Spot	-	Yes	Yes

* Planned availability 2004

** Integrated V42 bis/V44 compression offers increased throughput. Effective increase of more than 4 times compression can be realised (dependent on file type)



Terminal/Service characteristics

Feature	Details
Terminal weight	The weight of the BDE (Below Deck Equipment) is typically 1.5 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.
Terminal size	The BDE measurements are approximately 310x180x80 mm.
Weight of antenna unit	The weight of the antenna unit is typically 8 kg. This includes the radome, the stabilised antenna dish with tracking electronics and RF (Radio Frequency) equipment.
Antenna radome size	Typically a semi-spherical 0.4 metre diameter dome.
SIM card (option)	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 BDE.
External power	The BDE input power is 19 to 32 VDC.
Power consumption	Power consumption is a maximum of 110 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 ADE is -25° C to +55° C.
Connectors	<ul style="list-style-type: none"> • Analogue telephone port (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 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).
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 for 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 F33, please contact:

Inmarsat's Fleet website: www.inmarsat.com/fleet

Customer Services & Operations

Telephone: **+44 (0)20 7728 1777**

Fax: **+44 (0)20 7728 1746**



Inmarsat Ltd, 99 City Road, London EC1Y 1AX Telephone: +44 (0)20 7728 1000 Fax: +44 (0)20 7728 1110 Website: www.inmarsat.com

DISCLAIMER: Whilst this document has been prepared in good faith, no representation or warranty, express or implied, is or will be made by Inmarsat and no responsibility is or will be accepted by Inmarsat as to the accuracy or completeness of the document. © 2003 Inmarsat Limited. INMARSAT is a trademark of the International Mobile Satellite Organisation. The Inmarsat LOGO and trademark Fleet are trademarks of Inmarsat (IP) Company Limited. All trademarks are licensed to Inmarsat Limited. All other trademarks are acknowledged.