



# Inmarsat Fleet F77



# Fleet F77 provides a multi-layered priority system allowing Distress, Urgency and Safety calls to take precedence over non-essential and low-priority regular communications



Inmarsat is the pre-eminent provider of global\* mobile communications, with over 25 years' experience in the maritime sector. The company is also renowned for its dependable network, consistently delivering reliability levels of 99.99 per cent as part of its maritime safety obligations.

The increasing sophistication of the shipping industry demands communications access at all times for business operations and crew welfare requirements. To meet ever growing needs for data connectivity at sea, Inmarsat's advanced Fleet family of services (Fleet F77, Fleet F55 and Fleet F33) offers comprehensive data and voice solutions for all vessel sizes.

## Single solution

Whatever your needs, the premier Inmarsat Fleet F77 service offers a single, integrated global\* communications solution that delivers versatility and choice to ensure that you and your vessel are no longer isolated while at sea.

Fleet F77 is suitable for use onboard a wide range of vessels, including deep-sea merchant ships, megayachts and superyachts, deep-sea fishing vessels, naval vessels, research/survey ships and offshore support craft.

Fleet F77 is designed to be simple to install for both new vessel or retrofit

applications. In addition, the terminals feature a range of industry standard connections and interfaces for maximum hardware compatibility.

## Distress and safety

Fleet F77 is the first, and currently the only, satellite communications system that is fully compliant for Global Maritime Distress and Safety System (GMDSS) operation in GMDSS area A3 under IMO Resolution A.888 (21).

The service provides a multi-layered priority system allowing Distress, Urgency and Safety calls to take precedence over non-essential and low-priority regular communications. This works in a hierarchical way – a Distress call will pre-empt all other communications; Urgency calls will pre-empt both safety and routine calls; a Safety call will pre-empt routine calls.

The Fleet F77 package includes a red Distress button, with features to prevent accidental activation.

## Voice

Fleet F77 provides digital voice communications on a global\* basis as standard with a 4.8kbps voice channel. A high quality 3.1 kHz audio

channel is also available. Call waiting is also available as an option to notify users of the presence of an incoming voice, fax or data calls while they are conducting an MPDS session. When the call-waiting alert is received, the user will have the choice of whether to accept the incoming call or not.

Additionally, SIM and pre-paid calling options are available to offer increased flexibility for social and crew calling and/or multiple users. This enables crew to take advantage of discounted calling rates. Other interfaces can provide crew with e-mail, SMS and voicemail facilities.

## Fax

A 9.6kbps Group 3 fax option is provided. Fleet F77's ISDN channel also enables 64kbps Group 4 fax for vessel-to-shore, shore-to-vessel and vessel-to-vessel applications.

## Data

### High-speed data

Fleet F77's key differentiator is its ability to deliver high-speed Internet Protocol (IP) data transmissions on a near global\* basis. The service's Mobile ISDN channel offers data transfer rates of 64kbps, or 128kbps depending on service provision and 128kbps enabled terminal. Mobile ISDN enables users to send and

# Inmarsat Fleet F77 is an ideal solution to increase vessel management and operational efficiency, as well as link those onboard with business colleagues, family and friends



receive e-mail, access virtual private networks (VPNs), transfer large data files and digital images, as well as run live videoconferencing.

## **Always on**

In addition, Fleet F77 gives users the choice of accessing Inmarsat's unique Mobile Packet Data Service (MPDS). By charging only for the amount of data sent and received, not the time spent online, this packet-based service provides global\* cost-efficient 'always on' Internet or corporate/private network access at speeds of up to 64kbps.

For enhanced data security, both the ISDN and MPDS channels support anti-virus software and firewalls, as well as the majority of Virtual Private Network (VPN) protocols.

## **Business or pleasure**

Inmarsat Fleet F77 is an ideal solution to increase vessel management and operational efficiency, as well as link those onboard with business colleagues, family and friends.

**E-mail:** The service provides reliable, quick, cost-effective and easy e-mailing, with the choice of virtual instant access with the always on capability of MPDS.

**Secure online access:** Internet and corporate/private network access is now perceived as an everyday requirement. Fleet F77's Mobile ISDN and MPDS channels extend this capability globally\* to vessels at sea for vessel operational needs as well as office management and e-commerce applications.

**Digital video and images:** Fleet F77 ensures that commercial and leisure vessels can meet increasing business requirements for the immediate transmission of still and moving images. This facility also provides enhanced telemedicine as well as greatly improved capability to respond to equipment breakdowns or vessel damage.

## **Key markets**

As organizations and individuals increasingly use data and web-based technology, high-speed, cost-effective and reliable communications are critical to operational success. Fleet F77 is an ideal solution to this for all maritime markets.

**Leisure:** With Fleet F77, owners and operators of large yachts, as well as passengers, guests and crew, can utilize the system's global\* voice, e-mail, Internet or fax connections, allowing them to keep in contact at all times. This could mean that the passenger or guest can remain onboard for longer. It also improves

safety and comfort, as the master can download the latest accurate weather forecasts and chart updates.

**Merchant:** Ship owners and managers can take advantage of Fleet F77's global\* data channels for enhanced control, efficiency and safety. The service facilitates technical ship management and crewing software applications, corporate network access, e-procurement, electronic chart updates and notices to mariners, online weather downloads, as well as vessel telemetry and monitoring applications. In addition, videoconferencing and digital images can be used to speed equipment/damage repairs and for telemedicine. Fleet F77 also enables social crew calling.

**Fishing:** Fleet F77 enables targeted fishing and safety through the delivery of accurate oceanographic and weather data. Online access to the latest fish market prices lets skippers or fishing managers choose where and when to land a catch for maximized profits.

**Government:** Fleet F77 offers secure voice and real-time data communications, which greatly assists increased coastal zone and offshore security and monitoring for patrol and customs vessels. Primary

contd/...

applications include digital image and video transfer, as well as secure online database access.

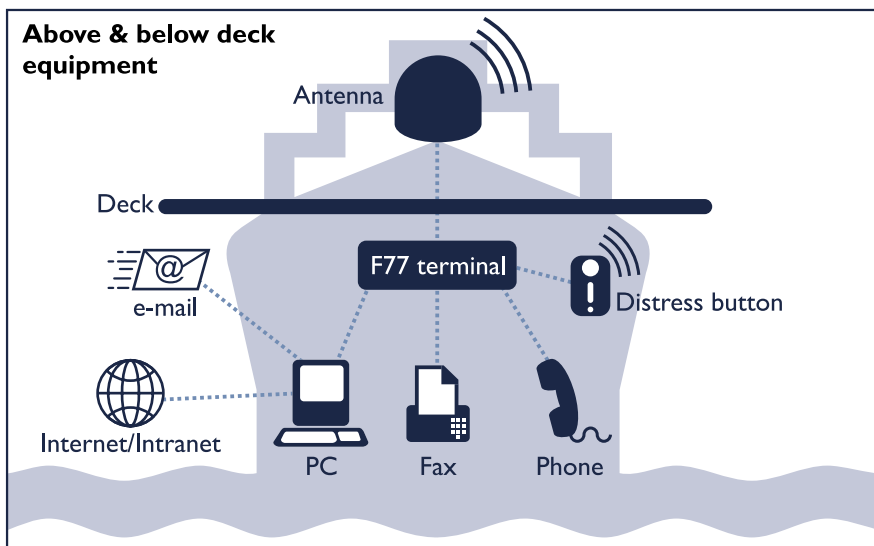
**Offshore/research:** The choice of high-speed Mobile ISDN and MPDS provides offshore and research vessels with a cost-effective method of sharing research and operational data for improved efficiencies. Fleet F77 also enables the craft to work longer and safer thanks to online weather access.

### Service flexibility

Because Fleet F77 is IP compatible, it supports an extensive range of commercially available off-the-shelf software, as well as specialized maritime and business applications. Fleet F77 also ensures cost-effective communications by offering the choice of Mobile ISDN or MPDS channels at speeds of up to 128kbps.

Mobile ISDN is best suited for applications where data throughput and speed are important, including:

- videoconferencing
- store-and-forward video
- video streaming



- large data file transfer, including FTP and digital images
  - high quality digital voice
  - secure voice and data communications
  - electronic chart downloads
  - anti-virus updates
  - instant messaging
  - universal messaging, including SMS
  - office/management software applications
  - 'thin client' applications
  - electronic chart downloads
  - real-time online weather/oceanographic information
  - vessel telemetry, SCADA and technical support applications
  - telemedicine
- MPDS is more suitable for interactive, short-burst data and web-based applications applications, such as:
- e-mail
  - Internet and private network access

### Summary

Inmarsat Fleet F77 is GMDSS compliant and provides a single integrated communications solution, delivering reliable high-speed data and fax links at up to 128kbps, as well as global\* voice. Fleet F77 adds value to all maritime markets and is fully evaluated and proven in service onboard merchant, government, leisure, fishing, research and offshore vessels. Fleet F77 is a long term solution as it is designed to operate with Inmarsat's latest generation Inmarsat-4 satellites.

\*Coverage is subject to limitations in polar restrictions and regulatory restrains in certain countries.



**Inmarsat Global Ltd**  
 99 City Road, London, EC1Y 1AX  
 Customer Services & Operations  
 Telephone: +44 (0)20 7728 1020  
 Fax: +44 (0)20 7728 1142  
 Website: [www.inmarsat.com/fleet](http://www.inmarsat.com/fleet)  
 e-mail: [askinmarsat@inmarsat.com](mailto:askinmarsat@inmarsat.com)

Whilst the above information has been prepared by Inmarsat in good faith, and all reasonable efforts have been made to ensure its accuracy, Inmarsat makes no warranty or representation as to the accuracy, completeness or fitness for purpose or use of the information. Inmarsat shall not be liable for any loss or damage (other than personal injury or death) of any kind, including indirect or consequential loss, arising from use of the information and all warranties and conditions, whether express or implied by statute, common law or otherwise, are hereby excluded to the extent permitted by English law. INMARSAT is a trademark of the International Mobile Satellite Organization, Inmarsat LOGO is a trademark of Inmarsat (IP) Company Limited. Both trademarks are licensed to Inmarsat Global Limited. © Inmarsat Global Limited 2005. All rights reserved.