



**IMF 1000 IRIDIUM, TRULY GLOBAL COVERAGE**



**One System,  
Globally.**

[www.iridium.com](http://www.iridium.com)  
[www.eci.dk](http://www.eci.dk)



### **THE IRIIDIUM SYSTEM**

Iridium is the only one of its kind - a global satellite network for telecommunications. It is comprised of 66 cross-linked Low Earth Orbit satellites that cover the entire planet. At 780 km above Earth, they form a fine-meshed grid that provides true global spot beam coverage for the Iridium Satellite telephones.

### **IMF 1000 IRIIDIUM SYSTEM**

The versatile IMF 1000 Iridium satellite telephone is your key to around-the-clock connection to the Iridium network. Wherever you are in the world - on land or at sea - the network's 66 reliable satellites are at your disposal night and day.

### **COMPACT, ROBUST DESIGN**

The IMF 1000 Iridium System is specially designed for harsh environments. It is able to withstand the wear and tear of everyday life under the toughest conditions. Naturally, the design is approved by major classification societies in accordance with international maritime standards, including IEC 945 and the CE standard specifications.

The compact IMF 1000 Iridium satellite telephone system consists of 3 long-lasting, hard-wearing units:

- The Antenna (IAU 1000), which is in touch with 3 Iridium satellites at all times.
- The robust Transceiver (ITU 1000).
- The intelligent Handset (ICHU 1000).

  
**IRIDIUM**





### **THE INTELLIGENT HANDSET**

The intelligent handset offers loud and clear communications - even in noisy surroundings.

The handset's versatile keypad and its 4-line/12-character LCD-display form an intelligent man-machine-interface that provides user-friendly control and monitoring of the system's special features as well as its standard mobile functions. The sturdy display presents a logical menu structure and feedback on commands entered via the robust keypad.

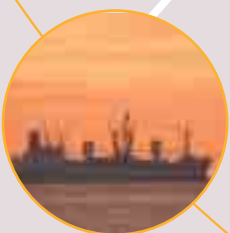
Up to 4 intelligent handsets can be connected, making the system very flexible.

### **THE TRANSCIEVER**

The smart, robust transceiver features an efficient L-band transceiver (LBT). The built-in SIM-card reader unit is designed for the small SIM cards similar to those used in most mobile phones.

### **THE ANTENNA**

The antenna has no moving parts and is very sturdy - in spite of its lightweight design. The helix construction is coated with glass-enforced epoxy, which makes the antenna water-resistant and able to withstand extreme conditions.





## LOW COST COMMUNICATION

The users can benefit from a traditional Iridium subscription service at low airtime rates. Making calls to an Iridium system is very simple - only one telephone number is needed no matter where the system is located. Administrations is also very simple - with only one bill.



## CREW CALLING

Crew Calling is ideal in any situation where the subscriber's equipment is shared by many users and cost controlling therefore is necessary. A prepaid Iridium service can be used from any Crew Calling enabled telephone in an Iridium system. This service provides a low cost and unique opportunity to keep in touch for persons staying in remote areas, cruise ship passengers, public-calling offices in rural towns and vessel crew.

## PABX/PSTN INTERFACE

The IMF 1000 Iridium System has a built-in RJ-11 port that works as an interface for a PABX or a standard analogue telephone. When connected to a PABX set-up, all the standard telephones in the network can use the Iridium system to make and receive calls.

## FEATURES

### Call Facilities

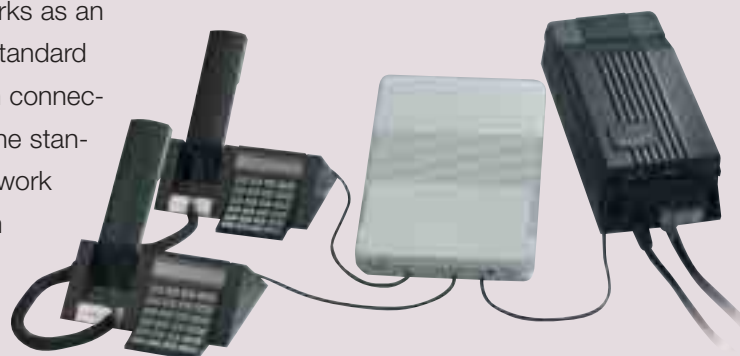
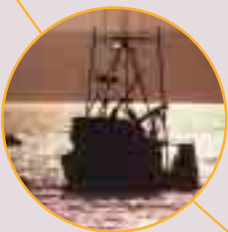
- Easy to use - works like a mobile phone
- Crew calling facilities
- Conference calls
- Repeat call function
- Phonebook with up to 100 entries
- Call log

### Installation

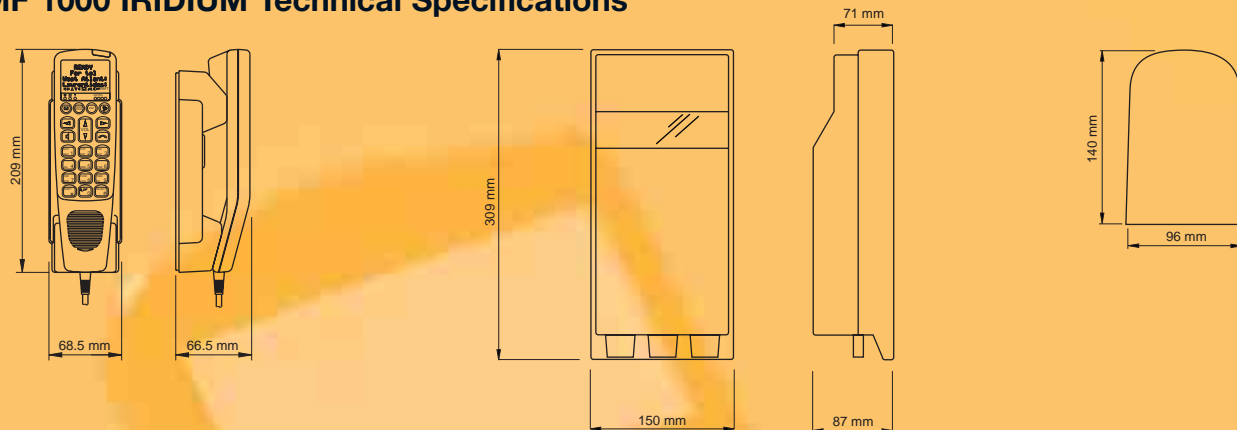
- Up to 4 intelligent handsets in any one system
- Direct connection for PABX or standard telephones
- Easily accessed SIM-card reader
- Easy to install in a minimum of space
- Data CD included - works with most mail applications

### Design

- Specially designed and developed for demanding environments
- Vibration resistant
- Built-in loudspeaker
- Intelligent Man Machine Interface (MMI)
- Low power consumption
- Small, light-weight antenna with no moving parts



## IMF 1000 IRIDIUM Technical Specifications



### Frequency range

Terminal - Satellite	1616 - 1626.5 MHz (L-Band)
Intersatellite	23.18 -23.38 GHz (Ka-Band)

### Modulation (Information range)

Voice/data	2.4 kbit/s O-QPSK
Compressed data	10 kbit/s O-QPSK

### Above deck equipment

Antenna	Helical, omnidirectional 210° (3 dB bandwidth) Fiberglass Ø 100 mm
Link margin	16 dB

### Interface

Handset	RS-485, 8-wire, 600 Ω
Telephone/PABX	RJ-11, 2-wire, 600 Ω
Data	RS232, standard serial
Position information	NMEA 0183

### Power supply

DC	10-32 V DC
AC - optional (ext. power supply)	100-230 V

### Power consumption

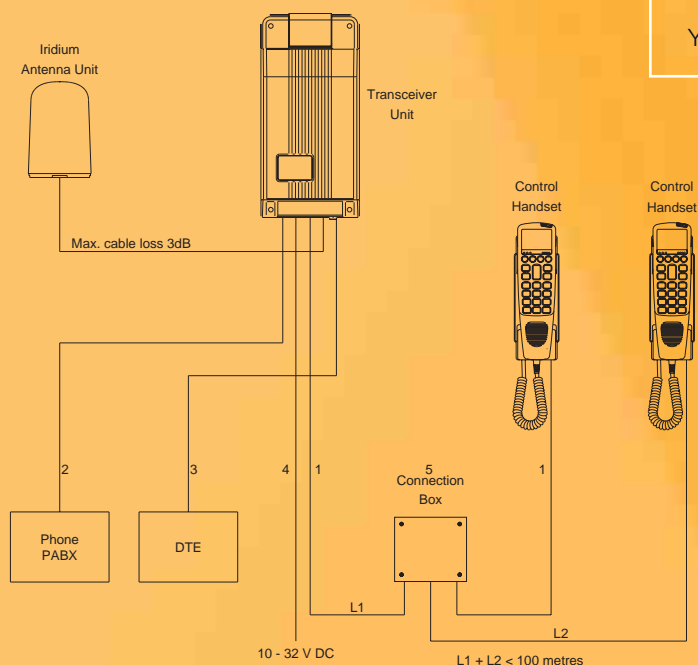
Transmission	25 Watt
Stand-by	8 Watt

### Environmental conditions

Temperature	ADE -35°C to +55°C
Relative humidity	Up to 95% at 40°C
Icing (survival only)	Up to 25 mm of ice
Precipitation	Up to 100 mm/hour
Wind (velocity)	Up to 100 knots
Vibration	IME: 2 - 50 Hz +/- 1 g EME: 4 -33 Hz +/- 1 g

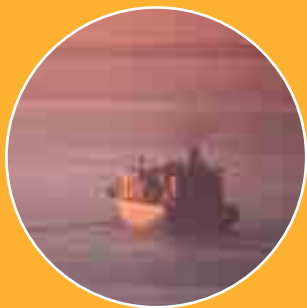
### Antenna tracking capability

Turn	Omnidirectional antenna
Roll/Pitch	Tilt to any direction unto 20° from horizontal.
Yaw	Satellite elevation > 8°



Specifications subject to change without notice.





**SEA**



**LAND**



**MOBILE**

From the Siberian forests to the Australian mine sites, from the middle of the Pacific Ocean to the air space over Antarctica, Iridium mobile satellite service keeps business, industry and government in touch. Wherever life takes you, Iridium telephone services keeps you connected. You get complete coverage of the Earth - land masses, oceans and Polar regions - that goes beyond radio, cellular and other satellite services.

Iridium Satellite LLC is the only provider of truly global mobile satellite service including voice and data service. Iridium provides affordable, dependable, global communications solutions with products to meet your specific needs.

Through a constellation of 66 low-earth orbiting (LEO) satellites, Iridium delivers essential communications services ideally suited for heavy construction, government, defense/military, emergency services, maritime, mining, forestry, oil and gas.

Iridium places reliable satellite communications in the palm of your hand. No matter where in the world you go, you can stay in contact by telephone, send and receive e-mail and transfer data files. The complete host of Iridium services are available directly from Iridium's Authorized Service Partners. Let us show you the communications package that best fits your needs.

**For more information  
about services:  
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**For more product  
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**One System,  
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