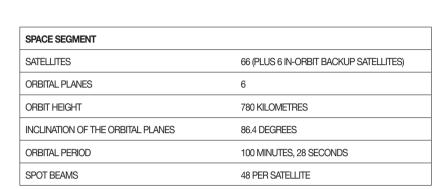


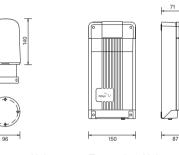


**Innovating Communication** The SKANTI Scansat-7701 Iridium terminal offers telephone and data service through the only worldwide satellite system, allowing the user to communicate all over the globe, even in remote areas, both on land and at sea e.g. from the shipping company to its vessels and vice versa.

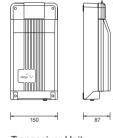
# **Technical Specifications**



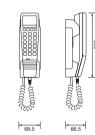
#### Dimensions in mm







Transceiver Unit ITU 7701



Control Unit ICUH 7701 0.5 kg

## General

Frequency Range 1616 – 1626.5 MHz (L-band)

Voice/Data Rate 2.4 kbit/s QPSK

## Antenna

Helical, omni-directional 210° Fibreglass radome Ø 96 mm

Link Margin

## Interface

Handset 600 Ω/4-wire RS485

Telephone/PABX 600 Ω/2-wire

**Position Information** 

# **Power Supply**

**DC** 10–32 V

#### AC (Optional) 110-230 V (external power supply)

Consumption
25 W during communication
8 W stand-by

### **Environmental Conditions**

EME –35° C to +55° C

Rel. Humidity Up to 95% at 40° C

Icing (Survival only)

Precipitation
Up to 100 mm/hour Wind (Velocity) Up to 100 knots

IME: 2 – 50 Hz @ 1 g EME: 4 – 33 Hz @ 1 g

# **Antenna Tracking Capability**

Omni-directional antenna

Roll/Pitch Up to +/- 20° from horizontal position

Satellite elevation > 8°

# **SKANTI**

Lautrupvang 4 A DK-2750 Ballerup, Denmark Phone: +45 44 74 84 00 Fax: +45 44 74 84 01 E-mail: skanti@skanti.dk http://www.skanti.dk





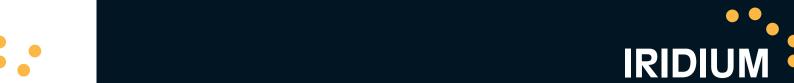




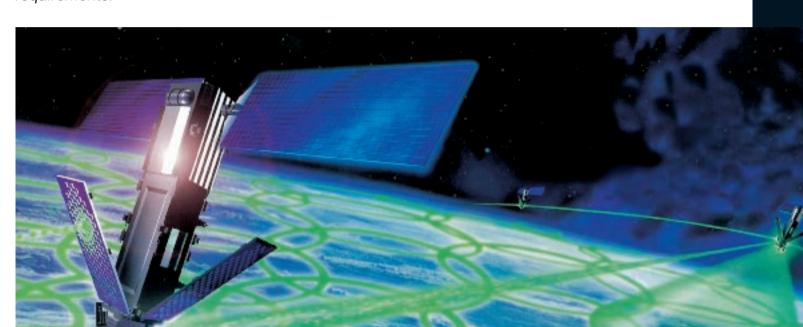
# The SKANTI® Scansat-7701 Iridium terminal offers worldwide satellite telephone and data services

The Iridium satellite telephone from SKANTI is designed for the harsh sea environment with professional mariners and serious yachtsmen in mind. The SKANTI Scansat-7701 Iridium terminal complies with all relevant international requirements.









## The Iridium System

With 66 satellites forming a cross-linked grid in space, Iridium is the first low Earth-orbiting system for wireless telephone and data services. Only 780 km above Earth, these satellites work differently from those at a much higher orbit (36,000 km) in two major ways. First of all, they are close enough to receive the signals of a Iridium phone and secondly, they act as cellular towers in the sky – where wireless signals can move overhead instead of through ground-based cells.

The Iridium telephone system provides true global spot beam coverage for satellite telephones and it also offers unique cross-protocol roaming facilities for all existing telephone systems. No matter

where on the globe, the telephone can always "see" three satellites, ensuring good contact at all times an guaranteeing a clear signal irrespective of the distance between the communicating parties. This is why the Iridium system offers higher quality worldwide voice and data services than seen before for such small-size equipment.

### The Scansat-7701 Iridium Terminal

The Scansat-7701 is a product in the range of high-quality, reliable and innovative communications products, which SKANTI is known

The compact three-unit Scansat-7701 is easy to install and requires very little space. Designed for the harsh environment at sea, it is easily fitted on all types of vessels,

from leisure craft and fishing boats to tankers, cargo ships and other large vessels. The small Antenna Unit is easily installed outdoor, the Transceiver Unit below deck and the up to four intelligent Control Units Handset provide the opportunity to use the system from several places on board the vessel.

The Scansat-7701 Control Unit Handset (ICUH 7701) is an intelligent handset allowing the user to easily operate the system via a menu structure, and the text is easy to read in the 4-line and 12-character LCD display. The MMI (Man Machine Interface) is similar to that of a mobile phone and allows the user to control the system.

Small SIM-cards can easily be inserted in the SIM-card reader in the Transceiver Unit, and easily changed if several subscribers need to use the telephone.



The Iridium system and the Scansat-7701 offer a wide range of services:

- 2.4 kbps data transmission and Iridium's 10 kbps compressed data service
- Direct connection for PABX or standard telephones
- Easy to install and requires a minimum of space
  Small and light-weight anten-
- na with no moving parts

   Easy to use; works like a

- Easily accessed SIM-card reader
- Low power consumption
- Specialy designed and developed for the demanding environment at sea
- Built-in loudspeaker
- Up to four handsetsIntelligent Man Machine
- Interface (MMI)
   Repeat call function
- Memory for up to 100 telephone numbers



### **Data Services**

In addition to exceptional highquality voice communications, the Scansat-7701 also offers 2.4 kbps data service as well as access to Iridium's 10 kbps compressed direct Internet service which allows the user to connect to the Internet from anywhere in the world. In fact the Scansat-7701 Iridium terminal provides the fastest satelite-based service for this type of equipment.

### **Maritime Iridium Terminal**

The Scansat-7701 is designed for the harsh environment at sea and is tested according to ETSI EN 300 733, IEC 945 / EN 60 945 incl. EMC (CE mark of conformity).

## Interface to PABX/PSTN

SKAN



