

# MIS-200

The MIS-200 (Maritime Iridium Communication system) incorporates dual Satcom channels over a single miniature antenna providing simultaneous data and voice communications. This is an ideal solution for vessels requiring over the horizon tactical voice and data communications. The system will support two-way data messaging in addition to a direct voice communications channel. The MIS-200 supports autonomous vessel tracking by an Operations Center (OPCEN).

The system allows for multiple assets to be operated and monitored. When targets of interest are identified, the operator can input into the vessel's Nav/Guidance system and support real-time reporting to/from OPCEN. The design allows vessel data/voice link origination and termination. Data messages are relatively small consisting of position (Lat/Long), heading, course, velocity, date, time and text messaging.

The voice channel can interface to the vessel's intercom system with the ability to dial a preprogrammed number when taken off hook. A total of 3 (three) telephone stations can be installed with standard DTMF handsets supporting inbound and outbound calling.



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## TELEPHONY CIRCUITS

- 2 Each - 2-wire POTS for telephone or PBX
  - 48VDC Loop Battery, 60 VRMS 20 Hz ring signal
- 1 Each - 4-wire Audio, discreet Hook & Ring Signals
  - Standard 600Ω Transmit /Receive Impedance

## DATA CIRCUITS

- 1 Each - Direct dial of 2400 BPS or TCP/IP
- Data speed can be increased to 10,000-12,000 BPS with a compression algorithm.

## DUAL IRIDIUM TRANSCEIVERS (LBTs)

- **Frequency:** 1616MHz—1626.5MHz
- **Transmit Power:** 7Watts Max.
- **Receiver Sens:** -118.5dBm
- **Impedence:** 50 ohm
- **Multiplexing:** TDMA / FDMA

# MIS-200 Specifications

(Preliminary, Specifications Subject to Minor Changes)

IRIDIUM

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## ENHANCED TELEPHONY FEATURES

**Call on-hold and call transfer** - simple hook flashes can place inbound, outbound or intercom calls on hold or transfer the call.

**Intercom Calling** - internal calling is provided to permit calling to other extensions onboard and to provide conferencing of extensions within the aircraft, vessel or vehicle.

**Audio Level Adjustments**- facilities to provide up to 12db of gain or attenuation per extension or through the Iridium channel, to optimize voice quality in noisy environments or to accommodate various types of handsets.

## SPECIFICATIONS

<b>ICG PN#:</b>	248000-100
<b>Prime Power:</b>	12-36 VDC
<b>Power Consumption:</b>	30 Watts (Surge -65 Watts)
<b>Temperature:</b>	-55°C to +70°C
<b>Vibration:</b>	DO160-Cat. U
<b>Chassis:</b>	Sealed-Extruded Aluminum L= 11.25 in. (28.57 cm) W= 7.75 in. (19.68 cm) H= 4.25 in. (10.79 cm) Weight=Approx. 9.55 lbs (4.33 Kg)
<b>Connectors:</b>	Program Control- Mil-Spec 6 Pin Telco I/O- Mil-Spec 19 Pin LBT Serial- Mil-Spec 10 Pin Power- Mil-Spec 3 Pin Iridium Antenna- TNC-Female

## OPTIONS

### Secure Voice

Requires External Sectera Device

### Antenna Options

Low Profile PN: 500644-1



PN: 500644-1

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