

CIS-100



The CIS-100 Iridium Communications System incorporates a single channel Iridium transceiver and an internal GPS receiver with built in CTU features. The device provides a stand-alone comprehensive communications systems in a small, rugged metal enclosure. The CIS-100 permits connections of conventional telephony devices or legacy PABX systems via standard 2-wire "Tip and Ring" circuits or a 4-wire audio circuit. This CTU's features include extension to extension calling, call transfer, conferencing and follow-on dialing. The Iridium system provides inexpensive global voice and data communications of up to 2400BPS via a serial port connection compatible with the General Dynamics Sectera® SWT with BDI for Type 1 encryption for Top Secret operations. The device is simple to operate offering standard dialing conventions and PABX operations with familiar call progress tones. It is the ideal solution for helicopter, VLJs or other light aircraft applications requiring 2 or 3 telephony connections and seamless global communications services without the inconvenience of hands-off or no service areas.



International Communications Group

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
- 1 Each - 2-wire Fax/Data Modem telco circuit (optional)

IRIDIUM TRANSCEIVERS (LBT)

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



IRIDIUM

CIS-100 Specifications

(Preliminary, Specifications Subject to Minor Changes)



IRIDIUM

ENHANCED TELEPHONE FEATURES

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

Three-party conferencing - the CIS-100 system provides basic 3 party conferencing that permits a conference between two onboard callers and a ground party or two ground parties to a single onboard party.

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.

OPTIONS

S&F Fax Modem Data: Internal Module. Provides Tip and Ring for Fax machine or data modem

Secure Voice: Requires External Sectera Device

Antenna Options: Dual Element PN: 500644-3
Low Profile PN: 500644



PN: 500644

SPECIFICATIONS

- ICG PN#:** 247000-0
- Prime Power:** 12-36 VDC
- Power Consumption:** 15 Watts (Surge -65 Watts)
- Temperature:** -55°C to +70°C
- Vibration:** DO160-Cat. U

- Chassis:** Sheet Metal Aluminum
L= 9.0 in. (22.9 cm)
W= 5.0 in. (12.7 cm)
H= 3.0 in. (7.6 cm)
Weight= Approx. 3.5 lbs (1.6 Kg)

- Connectors:** Audio- Mil-Spec 32 Pin Circular
Power- Mil-Spec 3 Pin Circular
Data- 9 Pin sub D
Programming- 9 Pin Sub D
Iridium Antenna- TNC-Female
GPS Antenna- SMA-Female

- Additional Circuits:** RS-232 Data Circuit
RS-232 Configuration Port
4 Each Discreet Input Circuits
2 Each Relay Output Circuits

GPS RECEIVER

GPS Module: 1575MHZ ± 10MHZ



PN: 500644-3

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