



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. CTU features include

intercom calling, call transfer, conferencing and follow-on dialing. The device is simple to operate, offering standard dialing conventions and PABX operations with familiar call progress tones. It is the ideal solution for aircraft requiring no more than three telephony connections and seamless global communications services without the inconvenience of hands-off or no service areas.

TELEPHONY CIRCUITS

Two each 2-Wire POTS for telephone or PBX
 Two each 48-volt DC loop battery, 60 VRMS 20 Hz ring signal
 One each 4-Wire audio, discreet hook & ring signals

One each standard 600 ohm transmit/receive impedance
 One each 2-Wire fax/data modem telco circuit (optional)

IRIDIUM TRANSCEIVERS (LBT)

- Frequency: 1616 MHz - 1626.5 MHz
- Transmit Power: 7 Watts max
- Receiver Sens: -118.5 dBm

- Impedance: 50 ohm
- Multiplexing: TDMA/FDMA

CIS-100 Specifications

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 +/- 20 db 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.

Digital Echo Suppression and full credit card calling services supported.

OPTIONS

S&F fax internal module: provides tip and modem data, ring for fax machine or data modem.
Secure voice: requires external sectera device.

Antenna Options

Dual element sensor systems	PN: 500644-3
Dual element NAL	PN: 500644-5
Low profile	PN: 500644

SPECIFICATIONS

ICG PN#:	247000-0 247000-1 w/data and fax option
Prime Power:	12- to 36-volt DC
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 (1.6kg)
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 Four each discreet input circuits

GPS RECEIVER

GPS Module: 157 MHz ± 10 MHz

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