

# ISAT-100 System

## SYSTEM BENEFITS

- Global flight following, voice, text, and data transfer
- Contract/regulatory compliance
- Automatic – no pilot input required

## HARDWARE FEATURES

- Single TSO'd GPS and Iridium Combo Antenna
- Internal battery to facilitate emergency mode and capture actual aircraft engine off events

## COCKPIT INTERFACE (DIALER AND DISPLAY)

- Send/receive preconfigured, editable field or free form text messages
- Send/receive satellite phone calls
- Emergency mode/mayday switch

## VIEWING SOFTWARE

- Web based mapping and asset management
- Hardware management console to remotely activate and configure units
- Multiple 2D and 3D map options from Google and Microsoft
- Event notification



ISAT-100

## TRUSTED FLIGHT FOLLOWING AND SATCOM

The ISAT-100 system is SkyTrac's installed SatCom and flight following solution. It provides automatic, global, real time flight following, text messaging, data transfer and SatPhone capability using the Iridium satellite system.



Dual GPS/Iridium Antenna



CDP-250 + DVI-250



ISAT-100 System

## ISAT-100 – Transceiver

IRIDIUM Services	Short Burst Data (SBD) and Telephony
Operating Frequency	1616 MHz to 1626.5 MHz
Power Requirements	20.5 Vdc to 32.2 Vdc
Power Consumption	0.5 A typical, 1.5 A in transmission
Operating Temperature	-40°C to +55°C
Dimensions	HxWxD = 3.5"x4.2"x10.0" (88.9mm x106.7mmx254mm)
Weight	5.07 lbs (2.29 kg)
Mounting	6 x 3 AN bolts, flange mount with mounting brackets
Cooling	Normal air circulation
Environmental Tests	D0160 Category D

## ISAT-100 – GPS Receiver

Receiver	12 Channels, Parallel
Acquisition Time	48 sec (cold start) 0.1 sec re-acquisition
Position Accuracy	Better than 25 m

## Dual Antenna

GPS Antenna	Active L1
Iridium Antenna	Passive
Radome	Low profile molded
Power Handling	1 W (GPS) ; 30 W (Iridium)
Dimensions	H x W x D = 0.72"x2.2"x5" (18.3mm x 56mmx127.7 mm)
Weight	0.5 lbs (0.226 kg)

## CDP-250 Specifications

Power Requirements	10 - 32.2 Vdc Aircraft Power per Mil-Std-704 D
Power Consumption	80 mA @ 28 Vdc
Operating Temperature	-40°C to +70°C
Dimensions	H x W x D = 1.8"x5.75"x3.2" (46.7mm x 146mm x 80.5mm)
Weight	0.73 lbs (0.33 kg)
Mounting	DZUS rails using 4 1/4 Turn Studs
Cooling	Normal air circulation
Environmental Tests	D0160 Category E

## DVI-250 Specifications

Power Requirements	20.5 - 32.2 Vdc Aircraft Power per Mil-Std-704 D
Power Consumption	50 mA @ 28 Vdc
Operating Temperature	-40°C to +70°C
Dimensions	H x W x D = 1.12"x5.75"x3.4" (28.4mm x 146mm x 86.4mm)
Weight	0.6 lbs (0.27 kg)
Mounting	DZUS rails using 4 1/4 Turn Studs
Cooling	Normal air circulation
Environmental Tests	D0160 Category E