

ISAT-200A

The ISAT-200A is the newest complement to the ISAT family. This leading-edge product provides flight following, satellite communication, data recording and aircraft systems monitoring, all in a single system. The ISAT-200A offers increased connectivity to various on-board systems as well as a handset interface to enable satellite voice in the cabin.



SKYTRAC

YOUR SATCOM TECHNOLOGY PARTNER

NEW FEATURES

- Supports FOQA/FDM programs and Safety Management Systems
- Internal hardened memory module records flight data and cockpit voice
- Embedded accelerometer for altitude profiling and exceedance detection
- Supports POTS/DPL handsets for cabin voice connectivity
- Increased connectivity to various aircraft systems (ARINC-429, RS-232/485/422)
- SMS messaging
- "Wake-Up" battery operation allows users to make handset phone calls without aircraft power
- Expanded options for collecting data via flexible analog/digital/discrete inputs (i.e., load cell, fuel gauge, altimeter)
- Historical flight data and parameters automatically sent to SkyWeb when an event occurs

SYSTEM BENEFITS

- Global flight following, voice, messaging and data transfer
- Easily integrates with other on-board equipment
- Automatic operation – no pilot interaction required

HARDWARE FEATURES

- Single TSO GPS and Iridium dual antenna
- Smart tray installation with field replaceable transceiver
- Internal field replaceable battery to enable emergency mode in case of aircraft power loss, as well as the sending of a final "power off" event which provides more accurate flight times for billing and maintenance purposes
- STCs available for many airframes
- SD card interface for quick data download and firmware upgrades
- Two-way voice communication
- Supports Wi-Fi or Bluetooth interface for additional on-board connection options

COCKPIT INTERFACE (DIALER & DISPLAY)

- Send/receive pre-configured, editable field or free-form messages
- Send/receive satellite phone calls
- Emergency switch
- Tag flight number of pilot log to each position report

ISAT-200R TO ISAT200A UPGRADES

Are you a current client looking to upgrade? The ISAT-200A is backwards compatible with the ITRAY-200R.

Contact SkyTrac by email at info@skytrac.ca for details.

ISAT-200A SYSTEM SPECIFICATIONS



ISAT-200A – TRANSCEIVER

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" x 2.2" x 5" (18.3mm x 56mm x 127.7 mm)
Weight	0.5 lbs (0.226 kg)

Iridium Services	SBD, Dial-Up data, SMS, DAV and RUDICS
Operating Frequency	1616 MHz to 1626.5 MHz
Power Requirements	10 Vdc to 32 Vdc
Power Consumption	28V power: 0.5 A typical, 1.5 A in transmission
Audio Output	150 mW min. into 600 or 300 Ohms
Audio Inputs	MIC Audio Input – 0.007 to 0.7Vrms @ 500Ω impedance Panel Audio Input – 0.1 to 5Vrms @ 500Ω impedance Cockpit Audio Recorder Input – 3.5 or 14Vrms max
Operating Temperature	-40°C to +70°C
Dimensions	H x W x D = 5.24" x 3.90" x 13.30" (133.1mm x 99.1mm x 337.8mm) mounted in ITRAY-200A
Weight	4.9 lbs (2.21 kg) including tray
Mounting	Tray (with ARINC 404 Connectors)
Cooling	Normal air circulation
Environmental Tests	DO160 Revision G

CDP-300 SPECIFICATIONS

DVI-300 SPECIFICATIONS

Power Requirements	20.5-32.2Vdc 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" x 5.75" x 3.2" (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	DO160 Revision E

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" x 5.75" x 3.4" (28.4mm x 146mm x 86.4mm)
Weight	0.6 lbs (0.27 kg)
Mounting	DZUS rails using 4 1/2 Turn Studs
Cooling	Normal air circulation
Environmental Tests	DO160 Revision E