

ISAT-200A

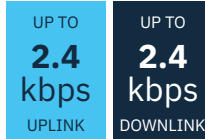
TRULY GLOBAL FLIGHT FOLLOWING, COMMUNICATIONS, & DATA ACQUISITION with the ISAT-200A

Get equipped with Multiple Capabilities
on a Powerful, Cost-Effective Satcom
and Onboard Server Solution

SKYTRAC's ISAT-200A is a lightweight, all-in-one platform designed for fixed-wing and rotor-wing aircraft. Operating on the Iridium satellite network, it enables flight data acquisition capabilities that allow operators to cost-effectively satisfy flight following and Flight Operational Quality Assurance (FOQA)/Maintenance Operational Quality Assurance (MOQA) requirements.

The ISAT-200A enables operators to access flight data and aircraft status in real time and maintain sustained communication with the Operational Control Centre (OCC) via satcom. It includes flight data and cockpit audio recording, along with integrated voice and text communications via the SkyWeb platform.

The ITRAY mounting system with ARINC 404 connectors allows fast, seamless swaps for simplified repairs and upgrades.



DISCOVER SKYTRAC

With 40 years of experience, SKYTRAC has become the partner of choice for data-guided business insights. As an Iridium Aviation Partner, SKYTRAC is well-positioned to leverage the Iridium network to provide operators with leading capabilities.

SATCOM EXPERTISE	40 Years
SKYTRAC CUSTOMERS	800+ Customers
SYSTEMS CERTIFIED	900+ Airframes
GLOBAL PRESENCE	7 Continents / 100 Countries

CAPABILITIES

- Truly Global Connectivity
- Voice, Text, and Satellite PTT
- Automated Flight Following
- Onboard Data Logging
- Cockpit and Cabin Connectivity
- Medical Data Transfer
- Aircraft Data Acquisition
- Real-Time Analytics

ISAT-200A DATA SHEET

Global Iridium Transceiver Kit



Intuitive 8-character programming display

USB port for quick-access data downloads and firmware upgrades

Internal battery for continual operation in emergency power out conditions

Multiple flexible analog/digital/ discrete inputs - supports ARINC-429, ARINC-717, RS-232/485/422

ITRAY "smart" mount retains configuration information for easy hardware maintenance & replacement

PRODUCT SPECIFICATIONS

IRIDIUM SERVICES

SMS, SBD, PTT, RUDICS

OPERATING FREQUENCY

1616 MHz to 1626.5 MHz

POWER REQUIREMENTS

10 VDC TO 32 VDC

POWER CONSUMPTION

28V power L 0.5 A typical, 1.5 A in transmission

COOLING

Normal Air Circulation

OPERATING TEMPERATURE

-20°C to +55°C (-4°F to 131°F)

SHORT TERM OPERATING TEMPERATURE

-40°C to +70°C (-40°F to 158°F)

DIMENSIONS

13.3 cm x 9.9 cm x 33.7 cm (H x W x L)
(5.2" x 3.9" x 13.3")

WEIGHT

2.5 kg (5.5 lbs)

ENVIRONMENTAL QUALIFICATIONS

DO-160 Revision G

AUDIO INPUT

MIC Audio Input

0.007 to 0.7Vrms @ 500 Ohms impedance

Panel Audio Input

0.1 to 5Vrms @ 500 Ohms impedance

Cockpit Audio Recorder Input

3.5 or 14Vrms max

AUDIO OUTPUT

150 mW min. into 600 or 300 Ohms

TECHNICAL INTERFACES (by ISAT variant)

Interface	05	06	07
RS-232	2	2	2
RS-485	1	1	1
RS-422	2	2	2
Ethernet	1	1	1
ARINC 429 Rx	Rx	7	7
	Tx	1	1
ARINC 717 (Rx/Tx)	0	0	1
Discrete Inputs	Configurable	8	12
	Standby	2	2
Discrete Outputs	5	5	5
Analog Inputs	Single End	1	1
	Differential	4	8
Frequency Inputs	0	4*	0

*The ISAT-200A-06 without Mod G has 3 frequency inputs. With Mod G it has 4.

ACCESSORIES



CDP/DVI

Cockpit Display Panel and Dispatch Voice Interface

DIMENSIONS

7.5 cm x 14.6 cm x 8.6 cm
(3.0" x 5.8" x 3.4")

WEIGHT

0.6 kg (1.4 lbs)



DLS-140

SWaP Optimized Iridium Certus 100 Terminal

DIMENSIONS

12.7 cm x 20.3 cm x 3.2 cm
(5.0" x 8.0" x 1.2")

WEIGHT

730 g (1.6 lbs)



DAL-200

Dynamic Access Link for Onboard Wi-Fi Connectivity

DIMENSIONS

10.4 cm x 11.4 cm x 4.6 cm
(4.1" x 4.5" x 1.8")

WEIGHT

0.5 kg (1.1 lbs)

ANTENNA



Iridium/GPS Antenna

Aviation Combo Iridium Omni and GPS Antenna

DIMENSIONS

12.7 cm x 5.6 cm x 1.4 cm
(5.0" x 2.2" x 0.6")

WEIGHT

240 g (8.5 oz)