DLS-100 Iridium Certus® Midband Datalink and GPS System for UAS Connectivity

iridium®
connected

| UP TO **22** Kbps UPLINK | UP TO **88** Kbps DOWNLINK |

Ruggedized and portable datalink for global Iridium Certus and GPS connectivity

SKYTRAC's DLS-100 is an Iridium Certus midband transceiver enabling real-time command and control, telemetry streaming, and photo transfer from unmanned aviation systems.

The ruggedized and IP67 compliant modem enables 22 Kbps uplink and 88 Kbps downlink speeds. Designed for use with unmanned aircraft systems (UAS), the cost-effective Iridium Certus modem allows for pole-to-pole connectivity around the globe with 99.9% reliability and stunningly low latency.

The modem is compatible with commercial and DoD SIM cards and also features remote management functionality through web or software API as needed.

Discover SKYTRAC
Over its 35 year history, SKYTRAC has become the partner of choice for data-guided business insights. As an Iridium Aviation Partner, SKYTRAC is well-positioned to leverage Iridium Certus broadband to provide operators with leading capabilities.

Key Capabilities Include:

- Beyond Visual Line of Sight (BVLOS) Comms.
- Real-Time UAS Command and Control (C2)
- UAS and Payload Health Monitoring
- Real-Time Flight Data Monitoring (FDM)
- Global Network-based Remote ID
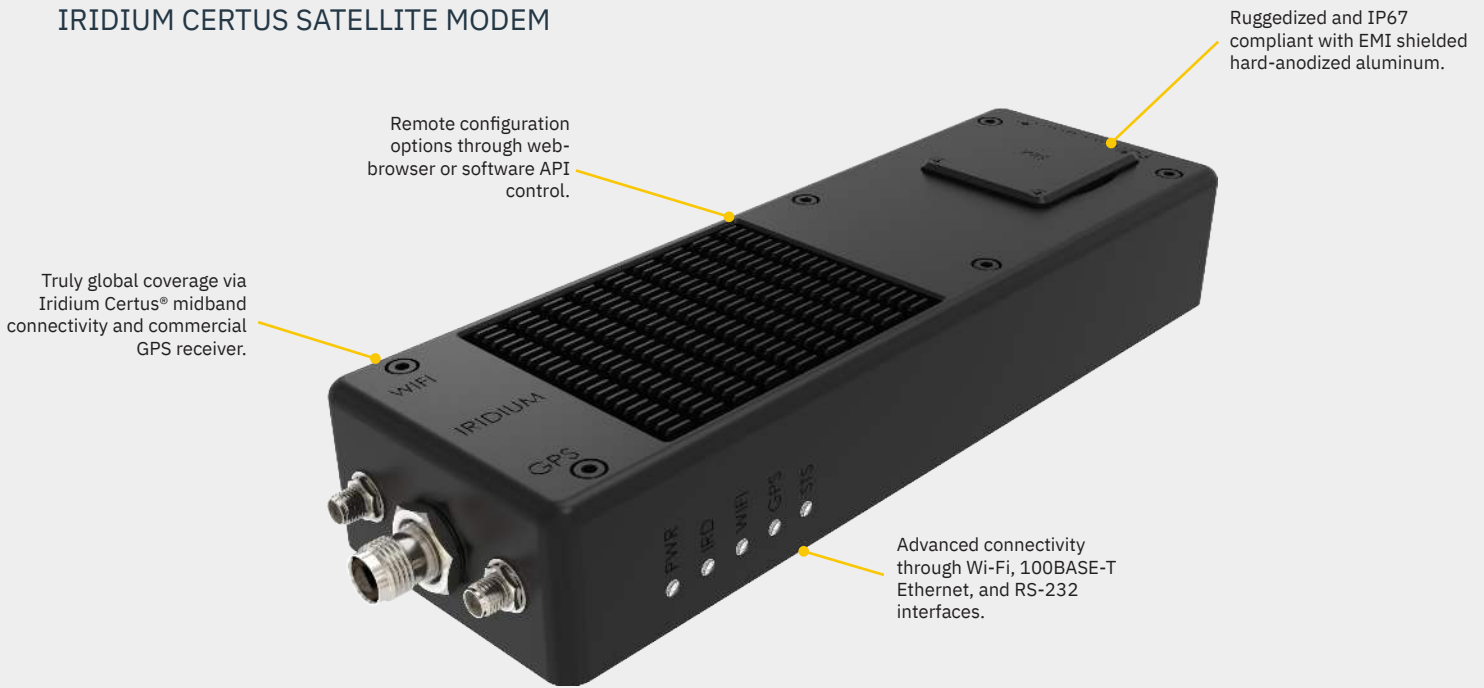- Flight Data Acquisition

SKYTRAC is part of the ACR Group of companies.

SKYTRAC

DLS-100 DATA SHEET
IRIDIUM CERTUS SATELLITE MODEM

Ruggedized and IP67 compliant with EMI shielded hard-anodized aluminum.

Remote configuration options through web-browser or software API control.

Truly global coverage via Iridium Certus® midband connectivity and commercial GPS receiver.

Advanced connectivity through Wi-Fi, 100BASE-T Ethernet, and RS-232 interfaces.

PRODUCT SPECIFICATIONS

IRIDIUM SERVICES
Iridium Certus

OPERATING FREQUENCY
1616 MHz to 1626.5 MHz

POWER CONSUMPTION
Input Voltage: 10-32V DC
Current: <1.75A @ 12V input

STORAGE CAPACITY
N/A

OPERATING TEMPERATURE
-4°F to 122°F (-20°C to +50°C)

ENVIRONMENTAL
IP67 Compliant

DIMENSIONS
H x W x D = 1.5" x 8.7" x 2.7"
38.1 mm x 221.0 mm x 68.6 mm

WEIGHT
26.2 oz (742.8 g)

INTERFACES
- Wi-Fi Connectivity
- GPS/GNSS
- DB-25 (custom pin-out for RS-232, Ethernet, and Power)
- Multiple Discreet I/O

PRODUCT HIGHLIGHTS

- Beyond Visual Line of Sight (BVLOS) Communications
- Real-Time Aircraft Command and Control (C2)
- UAS and Payload Health Monitoring
- Real-Time Flight Data Monitoring (FDM)
- Easy integration with Onboard Sensors and Servers
- Flight Data Acquisition
- Global Network-Based Remote ID

Specifications subject to change. Contact sales@skytrac.ca for latest revision.

Applications: Beyond Visual Line of Sight Communications

Applications: Compressed Photo and Video Data Transfer

35 YEARS OF SATELLITE COMMUNICATIONS EXPERTISE

Satcom Expertise	35 Years
SKYTRAC Users	7,500+ Users
Systems Certified	900+ Airframes
Global Clientele	100+ Countries

SKYTRAC's UAS Satcom solutions utilize the world's only truly global satellite network, providing operators with low-latency broadband connectivity no matter the location. This reliability allows mission-critical operations for UAS through Iridium Certus, providing immense cost saving benefits over comparable GEO satellite networks. Gain leading-edge, high throughout Satcom.

SKYTRAC has over 7,500 users around the globe on all seven continents and ensures long-term support to all customers and partners. Our AS9100D designation ensures leading global brands can trust our systems to perform reliably. In addition, we have cultivated strong partnerships with major OEMs across the globe, proving advanced capabilities and integrability.

Don't see what you're looking for? To learn about custom application development, contact sales@skytrac.ca

INDUSTRY SEGMENTS

The #1 Option for Global L-Band SATCOM

SKYTRAC serves the largest organizations in multiple industry verticals. With 7,500+ global users on all seven continents, we ensure our products and services are highly reliable and are trusted by those that rely on us for mission-critical applications.

Endless UAS Applications:

- Aerial Firefighting
- Aerial Survey
- Cargo Delivery
- Disaster Relief

- Law Enforcement
- Government and Military
- Scientific Exploration & Research
- Search and Rescue

Need a custom UAS Satcom solution? To learn more about Satcom integration, contact sales@skytrac.ca

IRIDIUM CERTUS ANTENNAS

SKYTRAC-designed antennas offer a variety of data rates, interfaces, and dimensions, based on your UAS operations profile.

Antenna Class	Description	Data Rates	Interface	Dimensions	Weight
Passive LGA	Iridium Certus Stub Antenna	22/88 kbps (Uplink/Downlink)	Single Coax	0.73" x 1.76" (1.85 cm x 4.46 cm)	29 g (1.02 oz.)
Passive LGA	Iridium Certus Patch Antenna	22/88 kbps (Uplink/Downlink)	Single Coax	3.5" diameter (8.89 cm)	141 g (5 oz.)

For more information, contact a
connectivity expert at **sales@skytrac.ca**

SKYTRAC