

DL150 Satellite Data Unit - Iridium NEXT Satellite Connectivity for FANS 1/A+ Compliance

Next Generation Satellite Service System Developed to Exceed Industry & Regulatory Standards for FANS 1/A+

Latitude Technologies' DL150 Satellite Data Unit (SDU) provides the satellite connectivity for a FANS 1/A+ CPDLC system, supporting retransmission of Satcom messages. The DL150 enables you to meet the requirements of AC20-140B.

The DL150 SDU acts as a communications link for a FANS compliant FMS via an ARINC 741 interface. The Iridium network is an ideal choice for global CPDLC, supporting the reliable delivery of data anywhere on the planet, including the poles.

The TSO-C159b approved DL150 is unique in that it can also be optionally configured as a fully independent flight tracking and event reporting device with the addition of a GPS antenna.

Key Figures

SATCOM Expertise	20+ Years
Industry Adoption	2,500+ Installation
Systems Certified	900+ Airframes
Global Presence	7 Continents / 100+ Countries



Discover Latitude

Latitude designs and manufactures leading Iridium Satcom terminals for flight data monitoring, flight following, satellite data link, and voice communications. Latitude has produced industry-leading avionics for over 20+ years.



Latitude Technologies is part of the ACR Group of companies.

DL150 DATA SHEET

Satellite Data Unit for FANS 1/A+ Compliance

As a TSO-159b approved unit, the DL150 meets AC20-140B guidance for FANS 1/A+ compliance

Small form factor, very lightweight, and configurable to multiple airframe types for easy maintenance

Multiple mounting configurations for ease of hardware maintenance & replacement



Supports ARINC 429, ARINC 741, ARINC 618/619, RS232, GPS with SBAS

PRODUCT SPECIFICATIONS

POWER REQUIREMENTS

350mA at 28 VDC (max)

DIMENSIONS

17.3 cm x 10.2 cm x 3.2 cm (H x W x D)
(6.8" x 4.0" x 1.2")

WEIGHT

0.454 kg (1.0 lbs)

OPERATING TEMPERATURE

-45°C to +70°C

ALTITUDE

55,000 ft.

ENVIRONMENTAL QUALIFICATIONS

- RTCA/DO-262B
- RTCA/DO-178C Level D
- RTCA/DO-160G nv. Cat. [F1]XBAB[SM]XXXXXXZBBB[BC]SMXXXAX

TECHNICAL INTERFACES

- ARINC 429: 2 x Tx, 4 x Rx channel pairs
- ARINC741
- ARINC 618/619
- RS232: 2x
- 2 discrete inputs, 3 outputs
- L 1 GPS with SBAS

STCS

- FAA, TCCA, AND EASA STCs available

ANTENNA

Single or Dual Element Iridium TSO-C159 Antenna

PRODUCT HIGHLIGHTS

- Take advantage of ATS services that support FANS 1/A+ equipped aircraft
- Small form factor, very lightweight
- Supports Universal Avionics UL8xx CMU, Rockwell Collins RIU/CMU, and Honeywell DMU
- Optional automated flight eventing and tracking (GPS antenna required)
- Built-in 3-axis accelerometer
- Built-in GPS receiver
- Additional serial ports and I/O for automated event reporting

Specifications subject to change. Contact sales@latitudetech.com for latest revision.