



AFIRS™ 228

IRIDIUM GLOBAL VOICE & DATA COMMUNICATIONS SYSTEM



TSO 159b Iridium SATCOM

Reliable ATS Voice and FANS 1/A+ ACARS over Iridium

Reliable voice and data services using Iridium's global satellite network including SATCOM voice

- Modernize your heavy, antiquated dual HF system and upgrade to Single HF and SATCOM.
 - Complies with Advisory Circular AC 20-150B as one of the two required long range communication systems
 - Complies with AC 20-140C in support of ATS data communications
- AFIRS 228 has extensive and expandable interface capabilities that allow it to connect to numerous aircraft systems
 - Built in QAR with wireless distribution options
 - Aircraft Data Interface Function (A834 ADIF) Options
- A true line replaceable unit with an Aircraft Configuration Module containing the SIM card, system configuration information and user-stored information

- Reliable voice and data services using Iridium's global satellite network including SATCOM voice, global flight tracking (GADSS compliance), and two-way text messaging

Future proof your systems by leveraging AFIRS Analytics with edge processing for aircraft health monitoring such as:

- Engine trending & engine/airframe exceedances
- Real-time engine data analytics
- Fuel management
- Real-time flight data management
- Live black box streaming
- Global flight tracking (GADSS compliance)
- Two-way text messaging
- Automated block and flight times

Related Products:

- AFIRS Controller
- JetBridge Applications
- AFIRS Edge
- GADSS Solutions

AFIRS™ 228B

Product Details

ARINC 717 Rx (HBP or BPRZ)	1
ARINC 429 Rx	16
ARINC 429 Tx	7
Discrete Inputs	16
Discrete Outputs	8
Ethernet	4 + 1 (Maintenance)
RS-232 Serial (or RS-422)	4
2-Wire "Tip and Ring"	
Telephony Ports	2
Aircraft Audio System Interface	1
Number of Antennas Required	1
533 MHz Processor	
1.5 million gate FPGA	
Dual Redundant 16 GB Flash Memory Cards	
Functions as Quick Access Recorder	
EFB in-flight connectivity (Including iPad)	

Designed to Meet the Following Specifications

ARINC 429 Mark 33 Digital Information Transfer System
ARINC 739A Multi-Purpose Control and Display Unit
ARINC 741 Aviation Satellite Communication System
ARINC 761 Second Generation Aviation Satellite Communication System
ARINC 717 Flight Data Acquisition and Recording System
RTCA/DO-160F

228S and 228S TSO

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ARINC 429 Mark 33 Digital Information Transfer System
ARINC 618 Air/Ground Character Oriented Protocol Specification
ARINC 739A Multi-Purpose Control and Display Unit
ARINC 741 Aviation Satellite Communication System
ARINC 761 Second Generation Aviation Satellite Communication System
ARINC 717 Flight Data Acquisition and Recording System
RTCA/DO-160G
RTCA/DO-178C
TSO C-159B
SITA VAQ
ARINC AQP

FLYHT Certifications

Transport Canada Civil Aviation Approved Manufacturer
Transport Canada Civil Aviation Approved Maintenance and Repair Organization
FAA, EASA, TCCA STC Approvals

LRU Specifications

Chassis L – 12.55", W – 2.27", H – 7.66"
Mounting ARINC 600 2 MCU
Rear Mating Connector Size 2 ARINC 600 Receptacle
Weight 7.0 lbs (3.2 kg)
SIM Card Housed in Aircraft Configuration Module (Avionics Tray)

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