

# AFIRS™ 228B

## Iridium Global Communication System



## Data and Voice + Future Ready

INTEGRATED COCKPIT AUDIO, INTELLIGENT DATA TRANSMISSION, REMOTELY PROGRAMMABLE, BUILT-IN QAR, EFB IN-FLIGHT CONNECTIVITY

FLYHT's AFIRS 228B Iridium Global Communications System provides aircraft crew with reliable voice and data services using Iridium's global satellite network. Data based services available through the AFIRS 228B include automated OOOIs, flight following, engine trending, live-FOQA exceedance reporting, and fuel management.

The AFIRS 228B has 2 Iridium channels. One transceiver provides global voice and data communications using standard Satcom cockpit controls from the Audio Control Panel and available MCDU dialing. The second modem provides redundant short burst data messaging should the voice channel be in use. The AFIRS 228B offers telecom flexibility via conventional 2-wire "Tip and Ring" telephony devices. Up to 2 wired or 8 cordless handsets can be added in the cabin providing intercom, call transfer, conference calling, camp-on calling and noise cancelling features. This provides the crew with worldwide access to MedLink or other emergency medical services.

A separate Aircraft Configuration Module contains the SIM card, system configuration information and user-stored information (E.G. phone lists) making the AFIRS 228B a true line replaceable unit. The AFIRS 228B system meets all the certifications and performance standards necessary to support installation on any aircraft model.

### THE DEVICE IS FUTURE READY™

The AFIRS 228B offers a modern 533 MHz processor, 1.5 million gate FPGA for data acquisition, and advanced digital signal processing capabilities combined with a certified, fully-partitioned LynxOS™ Real-Time Operating System. Dual redundant 16 GB flash memory cards provide robust data storage.

The AFIRS 228B has extensive and expandable interface capabilities that allow it to connect to numerous aircraft systems. It functions as a quick access recorder and can use wireless links to transfer its stored QAR data. It can also connect to EFBs and provide your applications with real-time data connectivity, both on the ground and in the air.

## 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

## Future Ready™

533 MHz Processor  
1.5 million gate FPGA  
Certified Fully-partitioned Lynx OS™ Real-time Operating System  
Dual Redundant 16 GB Flash Memory Cards  
Functions as Quick Access Recorder  
Wireless links transfer FDM data and other bulk files  
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

## 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)

