USB 429
2/2*

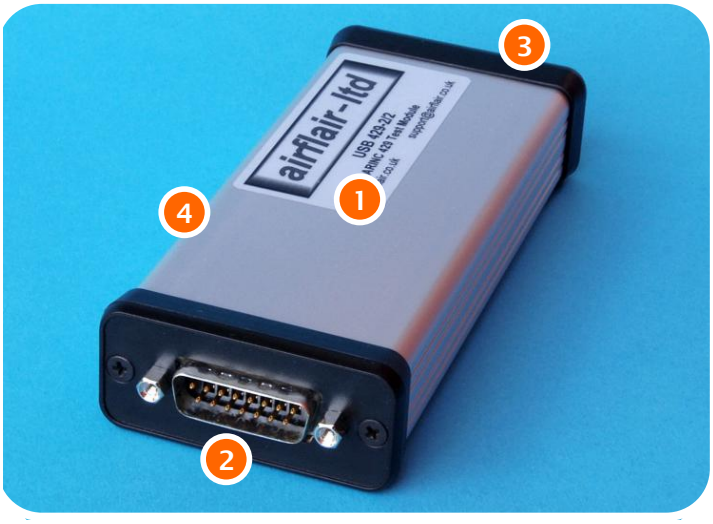
airflair-ltd
www.airflair.co.uk

USB Connected Multi Channel ARINC 429 Tester

*A member of Airflair's SOAR range of databus analysers

Key Features

- A powerful, turnkey, ARINC 429 Tester.
- 2 ARINC 429 receivers and 2 transmitters.
- USB Bus powered for Desktop or Portable use.
- ZEUS software included FREE of charge.



1 Resources

96 MHz 8 bit Microprocessor
512Kb SRAM, 128Kb EPROM
Flash upgradable

2 I/O Interface

15 way D-type connector allowing easy access to the 2 x Tx & 2 x optically coupled Rx ARINC signals

3 USB Bus Powered

USB (Universal Serial Bus) V1.1 – compatible to V2.x. Bus powered, no other supply needed

4 Enclosure

120 x 54 x 23mm, rugged, aluminium alloy enclosure

ZEUS

ZEUS for Windows

Free, unrestricted copy of our advanced databus analysis software, providing an 'out of the box' solution to monitoring, stimulating and logging the ARINC 429 databus protocol

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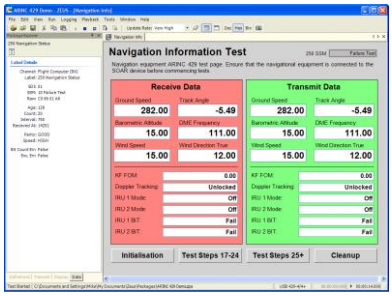
USB 429-2/2 Features

Turnkey Test Solution

If you're involved in the testing, integration or maintenance of avionics systems – in the lab or at flight line – Airflair's USB connected testers let you get your job done quickly and efficiently.

Use the powerful data import facilities to move data from your ICD to the bundled ZEUS PC software; your engineering units can now be used for both input and display. Quickly set up displays and controls using a familiar and intuitive drag and drop user interface. Run the tests, with powerful bus search facilities, multiple display pages and simultaneous full bandwidth recording. When you're done, review your tests using the on screen replay and/or export your data for off-line analysis.



"Our smallest ARINC tester, slips into any pocket and is ideal for field use."

The USB 429-2/2 member of the 'SOAR family' provides two ARINC 429 receiver channels and two transmitters – enough for all but the most demanding of ARINC 429 testing. This also includes a 50KHz mode on one of the existing receiver and transmitter channels.

Key Features

The USB 429-2/2 provides four channels of no compromise, optically coupled ARINC 429 interfacing, yet still fits in a shirt pocket. Power is taken from the USB connection to the PC; the only other connections are the ARINC 429 signals. On board processing and memory takes care of the hard real time requirements, while any USB equipped Windows PC provides the user input and output facilities and bulk storage.

Airflair

To complement all our products Airflair provides a comprehensive solution to all your testing needs, from requirements capture to on-site support and training. Please contact us to find out how we can help.

Technical Data

ARINC Interface

- 2 x ARINC Tx Channels
- 2 x ARINC Rx Channels
- 50KHz mode available
- Optically coupled receivers and industry standard line drivers
- Tx/Rx Data 1ms or 10µS timing resolution
- Autonomous cyclic transmit scheduling
- Automatic detection of High or Low speed data
- Variable output amplitude
- Dynamic update of Tx data
- 15 way D-type I/O Interface

Resources

- 96MHz 8-bit Microprocessor
- 512Kb SRAM
- 128Kb EPROM
- USB V1.1 (V2 compatible)
- Flash upgradable firmware

Software

- Easy to use software supporting multiple databus types
- User definable data definitions
- Engineering units conversions
- Recording and playback facilities
- Customised firmware or software on request
- C++ and .Net APIs
- Full Technical Support

Physical

- Rugged, Aluminium Casing
- Device Box: 120 x 54 x 23mm
- Weight: 140g
- Up to 5m USB Cable

Operating Environment

- Operating Temp: 0 to 70 degC
- Storage Temp: -40 to +85 degC
- Humidity: <90%

Power Consumption

- USB Bus powered
- +5V max. 500mA

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