



# A429PCBAN

## Portable ARINC 429 Bus Analyzer System



- State-of-the-art commercial notebook PC
- Intelligent ARINC 429 interface
- Up to 4 Tx and 8 Rx channels
- Powerful Windows ARINC 429 Bus Analyzer and Simulation tool
- Aircraft-specific avionics protocol simulations (optional)





mastering  
realtime  
complexity

# A429PCBAN

## Portable ARINC 429 Bus Analyzer System

### Application Scope

A429PCBAN is a fully integrated, pre-configured, turnkey portable ARINC 429 bus analyzer test system ideal for mobile test and maintenance duties.

### Feature Highlights

- > Compact, mobile, maximum performance
- > Windows notebook PC
- > A429USB intelligent ARINC 429 USB device
- > Up to 4 Tx and 8 Rx channels
- > **A429BAST/A429BASTplus** - ARINC 429 Bus Analyzer & Simulation Tool including Graphical Monitor and Data View utilities - providing the following features:
  - concurrent recording, monitoring and stimulation
  - quick look functionality
  - filters and triggers
  - raw data and engineering units display
  - graphical monitoring instruments: meters, bars, graphs, LEDs
  - dynamic transmit functions: sine, ramp, list
  - real-time data manipulation
  - re-transmission of recorded data - data replay
  - sophisticated post-analysis of recorded data: sort, search, select, export
  - free definition of ARINC 429 word formats

### Technical Data

#### PC Notebook

- Any commercial notebook furnished according to customer specifications

#### A429USB Interface

- 2 Tx, 4 Rx channels
- On-card buffer of 2,016 32-bit receive labels plus 32-bit 1ms/100µs/10µs time stamp per receiver channel
- 256 definable ARINC 429 transmit labels per transmitter each with independent update rate support
- Autonomous cyclic transmit scheduling, combinable with block transfer
- Label data update sustains transmit schedule
- On-board wrap-around relays
- USB (Universal Serial Bus) V1.1 – compatible to V2.x
- By default USB-powered - optional DC-power supply connector
- 24 MHz 16-bit fully static design Microcontroller Siemens C165UTAH
- 512 Kbyte SRAM
- 1 MByte Flash-EPROM
- up to 6 Discrete Inputs (28V/Open/Gnd)
- 4 Discrete Outputs (28V/Open/GND – A615-3/-4 Function Discretes)

#### Operating System

- Windows XP | 2000 | NT | 9x
- Linux (optional)

#### Application Options

- Multitude of aircraft-specific avionics protocol simulations including CIDS, MCDU, CMC, IFES, et al.
- ARINC 615 data loader utilities



A429USB – ARINC 429 USB device (left) • A429BAST - ARINC 429 Bus Analyzer and Simulation tool for Windows

