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Features

- Four ARINC 429 channels
- Connects to RS-232 serial port on a notebook, desktop or other computer
- Battery or AC powered
- Can run stand-alone
- Advanced, high-level API software included
- Easy-to-use ***BusTools***/ARINC™ Windows-based GUI bus analyzer available
- Internal buffering and filtering
- User programable
- Easy-to-use
- Economical solution



The Condor Engineering PA-100 is an intelligent, portable adapter that provides a buffered interface between ARINC 429 databuses and a computer via a standard PC RS-232 serial port. It supports two ARINC receive channels and either one or two ARINC transmit channels. The PA-100 provides programmable bit rate, parity, slew rate and data filtering.

The adapter can be interfaced directly to a serial port on a notebook, desktop (or other) PC to create a powerful portable or laboratory based ARINC 429 test solution. It can be connected to any computer that provides at least one RS-232 standard serial interface. Multiple adapters can be connected to a given system, up to the number of available RS-232 ports. An international power converter is available.

Software

Accelerate ARINC development and testing activities with Condor's powerful software tools and solutions. Perform all basic databus testing functions with our no charge, easy-to-use, menu-driven software. Develop your own ARINC applications with our versatile high-level 16-bit API (Application Programming Interface) library or use our basic command set across the RS-232 interface.

Optional ***BusTools***/ARINC (for Windows NT, 98 and 95), and PA-BAS software (for DOS) provide high-level solutions for extensive bus analysis and data logging.

Architecture

The PA-100 utilizes Condor's unique ROM-less design, where the controlling firmware executes in Dual-Ported RAM. This greatly simplifies access to on-board firmware in custom applications, while supporting transparent upgrades of factory firmware. Expensive emulators and specialized development systems are not required, as users can easily modify the firmware with standard DOS based compilers and Condor's firmware development kit PA-CTL.

CONDOR ENGINEERING

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Specifications

ARINC 429 Receive Channels

- Number of channels: 2
- Data rates: 12.5 KHz or 100 KHz
- Filtering: label, SDI, channel
- Buffer size: 8 KB per channel
- Parity: odd

ARINC 429 Transmit Channels

- Number of channels: 1 or 2
- 2 Tx channel version is multiplexed
- Data rates: 12.5 KHz or 100 KHz
- Parity: odd or even
- Buffer size: 4 KB per channel
- Transmit labels: all

RS-232 Channels

- Baud rates: 115200,, 57600, 38400, 19200, 9600, 4800, 2400, 1200 bps
- Parity: none
- Bits: 8
- Stop bits: 1
- Communications: full duplex or half duplex

Software

- API - High-level API included
- GUI - ***BusTools***/ARINC GUI bus analyzer optional

Warranty: 3 year limited hardware warranty

Architecture

- Processor: Intel 80C188EB
- RAM: 32 KB SRAM
- 128 KB flash memory

Physical / Environmental

- Power: NiCard batteries or AC adapter 120V, 60Hz
- International power converter available
- Operating temperature: 0°C to +40°C
- RS-232 connector: nine pin female (standard D type)
- ARINC connector: nine pin female (standard D type)
- Weight: 14 oz
- Size: 6.1" x 3.6" x 1.4"

Throughput

- Transmit: up to 2777 ARINC words per second (theoretical max.)
- Receive: up to 3200 ARINC words per second (two channels)
- Aggregate: over 3500 ARINC words per second

See our on-line Configuration Guide for a complete list of available configurations

Available Configurations

PA-100-1	ARINC 429 Portable adapter with 2 Rx, 1 Tx channels
PA-100-2	ARINC 429 Portable adapter with 2 Rx, 2 Tx channels
PA-100-2C	International ARINC 429 portable adapter with 2 Rx, 2 Tx channels; 230 VAC power adapter

Optional Software

BusTools/ARINC	Bus analysis and simulation software for Windows NT, 98 and 95
PA-BAS	Menu-driven DOS software control and analysis program
PA-SRC	Source code for PA-100 DOS utility libraries

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