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Data Sheet

August 15, 2026

ABACO SYSTEMS / CONDOR ENGINEERING

Abaco Systems / Condor Engineering PA-100-1 ARINC 429 to RS-232 Portable Adapter

ARINC 429 to RS-232 portable adapter for converting ARINC 429 data to RS-232 format.



MODEL

Abaco Systems /
Condor
Engineering PA-
100-1

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PA-100-1

LISTING

[https://aumictechlabs.c
om/products/pa-100-1-
2/](https://aumictechlabs.com/products/pa-100-1-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / Condor Engineering PA-100-1 is a portable ARINC 429 to RS-232 adapter that converts avionic databus signals into serial format for computer-based analysis and testing. The device bridges ARINC 429 networks with standard RS-232 interfaces, enabling real-time data acquisition, system integration, and field troubleshooting without dedicated avionics hardware.

Technical Specifications

ARINC 429 Channels: Two receive channels; one or two transmit channels

Bit Rate: Programmable; supports both high-speed and low-speed ARINC 429 operation

Programmable Parameters: Bit rate, parity, slew rate, data filtering

Interface: RS-232 serial port connection to host computer

Power: International power converter available

Key Features

Dual ARINC 429 receive capability for simultaneous multi-source data monitoring

Configurable transmit channels - single or dual configuration per application requirements

Field-

programmable operating parameters eliminate hardware reconfiguration Compact portable form factor suitable for laboratory and field deployment Multiple adapter support via available RS-232 ports on host system Typical Applications Avionic system testing and validation Real-time ARINC 429 databus monitoring Flight data analysis and troubleshooting Integration testing of avionics sub-systems Field-portable acquisition of aircraft system telemetry Compatibility & Integration The PA-100-1 interfaces with any PC or notebook computer equipped with an RS-232 serial port. Multiple units can be cascaded across available serial interfaces to expand channel capacity. This approach enables modular test solutions without specialized avionics interfaces or proprietary software environments.

PA100 Characteristics / Specifications

PARAMETER	VALUE
Model	PA-100-1
Instrument Type	ARINC 429 to RS-232 portable adapter
Receive Channels	2 ARINC 429 receive channels
Transmit Channels	1 ARINC 429 transmit channel
Related Two Tx	PA-100-2 two ARINC 429 transmit channels
Host Interface	RS-232 serial port
Bit Rate	programmable bit rate
Parity	programmable parity
Slew Rate	programmable slew rate
Data Filtering	programmable data filtering
Buffering	internal buffering and filtering
Power	battery or AC powered
Multi Adapter	multiple adapters up to available RS-232 ports
International Power	international power converter available
Manufacturer	Condor Engineering / Abaco Systems
Use Case	portable ARINC 429 test
Literature	Condor/Abaco PA-100 series product listings
Family	PA-100 ARINC 429 portable adapters
Documentation Type	OEM PA-100 series listing
Brand Lineage	Condor Engineering Abaco
System Role	ARINC 429 PC adapter
Form Factor	portable adapter
Protocol	ARINC 429
Channel Family	up to four ARINC 429 channels on PA-100 series
User Programmable	user programmable adapter

PARAMETER	VALUE
Pc Class	notebook or desktop RS-232 host

PA100 Specifications

PARAMETER	VALUE
Applications	Portable ARINC 429 monitor/simulate from a notebook RS-232 port.
Key Features	Two ARINC 429 receive channels
One ARINC 429 transmit channel	RS-232 PC interface
Technical Specifications	Model: PA-100-1

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Condor/Abaco PA-100 series listings (PA-100-1: 2 Rx + 1 Tx, RS-232, programmable bit rate/parity/slew/filter, battery or AC). Exact bit-rate table and connector pinout are on the PA-100 hardware reference.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.