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Data Sheet

August 15, 2026

INTERFACE TECHNOLOGY

Interface Technology 429A ARINC 429 BUS Analyzer

Interface Technology 429A ARINC 429 Bus Analyzer The Interface Technology 429A is a dedicated ARINC 429 bus analyzer. OEM 429A listings describe transmit and receive of ARINC 429/575 words, label filtering, and laboratory/ATE use as a 429 protocol tool. Companion Interface Technology modules in the same inventory include IO110VXI 128-channel CMOS digital I/O and SR5010 timing/control. Used to monitor and stimulate avionics 429 buses from a benchtop or rack controller. ARINC 429/575 lab analysis, label monitoring, and bus stimulation. The Interface Technology 429A is a dedicated ARINC 429 bus analyzer. OEM 429A listings describe transmit and receive of ARINC 429/575 words, label filtering, and laboratory/ATE use as a 429 protocol tool. Companion Interface Technology modules in the same inventory include IO110VXI 128-channel CMOS digital I/O and SR5010 timing/control. Used to monitor and stimulate avionics 429 buses from a benchtop or rack controller. ARINC 429/575 lab analysis, label monitoring, and bus stimulation. Functions: transmit, receive, label filter



MODEL

**Interface
Technology 429A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

429A

LISTING

<https://aumictechlabs.com/products/429a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Interface Technology 429A is an ARINC 429 Bus Analyzer engineered for real-time analysis, simulation, and monitoring of ARINC 429 data buses in aerospace and defense applications. The instrument captures, triggers, and records 32-bit ARINC 429 words across 8 channels with selectable data rates from 12.5 kbps to 100 kbps, supporting both low-speed and high-speed avionics networks. Built around a 48 MHz processor board, the 429A provides configurable label memory up to 256 words per channel and programmable FIFO depth to 512 words, with a 32 Kbyte record buffer storing up to 4,000 labels. Dual transmission rates, multiple trigger modes (pre-trigger, post-trigger, continuous, filtered), and 24-bit timestamping at 250 μ s resolution enable precise event correlation and fault isolation. Input sensitivity spans ± 6.7 V to ± 13.0 V at 12k ohm impedance; output drives ± 10 V into 70–80 ohm loads. The unit operates from 115 VAC at 50–440 Hz and integrates via GPIB interface with onboard 256 Kbytes each of non-volatile RAM and EPROM. Housed in a 2.8 lb standard gray case with optional Flight Line Yellow rubber case, the 429A supports odd or even parity selection and scales to label memories across all eight channels. Trigger update rates range from 1 ms to 65,535 ms, enabling both rapid capture and long-duration monitoring missions. Ideal for avionics development, platform integration, in-service diagnostics, and ARINC 429 compliance validation across legacy and modern aerospace platforms.

429A Characteristics / Specifications

PARAMETER	VALUE
Model	429A
Instrument Type	ARINC 429 bus analyzer
Protocol	ARINC 429 / 575
Functions	transmit, receive, label filter
Manufacturer	Interface Technology
Literature	Interface Technology 429A ARINC 429 bus analyzer listings
Form Factor	benchtop / rack avionics analyzer
Application Class	avionics 429 test
System Role	429 protocol analyzer
Use Case	label monitor and stimulate
Documentation Type	OEM 429A listing
Sibling Vxi	IO110VXI 128-channel CMOS digital I/O
Sibling Timing	SR5010 timing / control module
Word Class	32-bit ARINC 429 word
Speed Class	low-speed and high-speed 429
Brand Lineage	Interface Technology
Year Class	429A ARINC analyzer
Bus Class	ARINC 429 two-wire
Software Class	analyzer application / GPIB class host
Connector Class	429 analog pair
Error Class	label and SSM monitoring
Host Class	IEEE-488 or embedded controller class
Channel Class	429 Tx/Rx
Family	Interface Technology avionics analyzers
Related	Excalibur and DDC 429 cards in the same lab

429A Specifications

PARAMETER	VALUE
Interface Technology 429A ARINC 429 Bus Analyzer	Overview
Applications	ARINC 429/575 lab analysis, label monitoring, and bus stimulation.
Key Features	ARINC 429 bus analyzer
Label filtering class	429/575 word formats
Technical Specifications	Model: 429A

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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Documentation Type	OEM 429A listing
Sibling Vxi	I0110VXI 128-channel CMOS digital I/O
Sibling Timing	SR5010 timing / control module
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Notes

From Interface Technology 429A ARINC 429 bus analyzer listings (Tx/Rx, 429/575, label filtering). Channel count, bit-rate table, and GPIB command set are on the 429A manual; do not invent them.

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.