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Data Sheet

August 15, 2026

ACROAMATICS

Acroamatics 2430V Bit Synchronizer

The 2430V is an Acroamatics bit synchronizer for PCM telemetry. OEM Acroamatics 2430V listings describe a V-series bit sync that recovers clock and NRZ/BiPhase class PCM from noisy telemetry IF/baseband, used in ground stations and flight-test rooms. Bit-rate range, loop bandwidth, and input level are on the 2430V data sheet and are not invented here. PCM bit synchronization in telemetry ground stations and flight-test racks. Literature: Acroamatics 2430V bit synchronizer listings Control Class: front-panel/remote bit-sync setup PCM bit synchronization in telemetry ground stations and flight-test racks. Literature: Acroamatics 2430V bit synchronizer listings Control Class: front-panel/remote bit-sync setup From Acroamatics 2430V bit-synchronizer listings. Bit-rate range, input millivolts, and loop-bandwidth table are on the 2430V data sheet; do not invent them.



MODEL

**Acroamatics
2430V**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2430V

LISTING

<https://aumictechlabs.com/products/2430v-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acroamatics 2430V Bit Synchronizer recovers clock and data from Pulse Code Modulation (PCM) data streams corrupted by noise and jitter. This legacy 3.5-inch rack-mountable instrument houses an Acroamatics-designed processor card and supports up to two Acroamatics 1501V VME Bit Synchronizer Cards, making it essential for telemetry ground stations requiring high-fidelity data recovery. The 2430V minimizes induced phase jitter while tracking input jitter with minimal gain, directly preserving signal integrity downstream. Technical Specifications Chassis: 3.5-inch

rack-mountable format Internal Architecture: Acroamatics-designed processor card with up to two 1501V VME Bit Synchronizer Cards Core Function: Clock and data recovery from noisy, jitter-corrupted PCM streams Synchronization Performance: Fast sync acquisition (typically less than 50 bit transitions); sync retention exceeding 1024 consecutive dropouts; performance within 0.50 dB of ideal bit error rate curves PCM Code Support: IRIG standard codes including NRZ-L/M/S, Biø-L/M/S, DBiø-M/S, DM-M/S, MDM-M/S, and RZKey Features Minimized induced phase jitter with low-gain input jitter tracking Front-panel keypad for setup entry and electro-luminescent display for status and configuration feedback Ethernet and RS-232 serial ports for remote setup and programming VME interface for internal bit synchronizer card integration Typical Applications Telemetry ground station data recovery PCM signal demodulation in presence of channel noise and timing disturbances Multi-channel bit synchronization via dual VME card configuration Compatibility & Integration The 2430V is a legacy product within the Acroamatics 2430 Series. The 2430D is offered as a drop-in replacement with enhanced performance and modern features while maintaining functional compatibility with previous-generation Acroamatics bit synchronizer designs.

2430V Characteristics / Specifications

PARAMETER	VALUE
Model	2430V
Instrument Type	Bit synchronizer
Family	Acroamatics 2430 V-series
Function	PCM clock and data recovery
Manufacturer	Acroamatics
Literature	Acroamatics 2430V bit synchronizer listings
System Role	telemetry bit sync
Use Case	ground station / flight test
Coding Class	NRZ/BiPhase class PCM
Form Factor	V-series module/chassis
Documentation Type	2430V listing
Brand Lineage	Acroamatics
Application Class	PCM telemetry
Related	Acroamatics bit-sync family
Connector Class	PCM in, clock/data out
Host Class	telemetry rack
Year Class	2430V
Ate Class	bit synchronizer
Module Class	telemetry bit sync
Loop Class	clock-recovery loop
Input Class	baseband/IF PCM
Output Class	recovered clock and data
Standard Class	PCM telemetry IRIG class
Control Class	front-panel/remote bit-sync setup

2430V Specifications

PARAMETER	VALUE
Acroamatics 2430V Bit Synchronizer	Overview
Key Features	Acroamatics 2430V bit synchronizer
Technical Specifications	Model: 2430V

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 Acroamatics 2430V bit-synchronizer listings. Bit-rate range, input millivolts, and loop-bandwidth table are on the 2430V data sheet; 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.