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Data Sheet

August 15, 2026

DYNAMIC SIGNALS / KINETIC SYSTEMS

DynamicSignals / Kinetic Systems V635-AA21 8-Channel, 100 kHz Frequency Counter

DynamicSignals / Kinetic Systems Frequency Counters. Channels: ** 8, Frequency Range: ** 0.01 Hz to 100 kHz, Accuracy: ** $\pm 0.0001\%$.



MODEL

DynamicSignals /
Kinetic Systems
V635-AA21

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

V635-AA21

LISTING

<https://aumictechlabs.com/products/v635-aa21-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DynamicSignals/Kinetic Systems V635-AA21 is an 8-channel frequency counter that measures input signals from 0.01 Hz to 100 kHz with high precision and minimal configuration overhead. This single-width, C-size VXIbus module delivers consistent performance across its frequency range and operates in both single-scan and continuous modes. The counter employs differential input circuits with integrated filtering and hysteresis to reject noise, while programmable switching thresholds and per-channel AC/DC coupling options adapt to diverse signal sources. Technical Specifications Channels: 8 Frequency Range: 0.01 Hz to 100 kHz Input Voltage Range: 20 mV to 20 V peak-to-peak (differential inputs) Input Coupling: Programmable AC or DC per channel Observation Window: 1 ms to 1.024 s Clock Rate Options: 1 MHz or 10 MHz (programmable) Clock Accuracy: $\pm 0.0001\%$ Time Base Accuracy: ± 1 ppm (10°C to 50°C) Counting

Accuracy: $\pm 0.01\%$ (10 ms window, 1 MHz clock); $\pm 0.001\%$ (10 ms window, 10 MHz clock); improves with longer observation windows Power Supply: 103.5–126.5 VAC or 207–253 VAC, 50–60 Hz Key Features Differential input circuitry with programmable switching threshold Filtering and hysteresis for high noise immunity TTL inputs available on D connector options BNC input connectors supported Static and dynamic configuration modes Register-based VXIbus architecture Data access via A32/A16 and D32/D16 transfers through Offset Register Typical Applications Shaft encoder monitoring for engine RPM measurement (automotive and jet aircraft) Flow meter measurement General-purpose pulse monitoring Compatibility & Integration The V635-AA21 operates as a register-based VXIbus module compatible with standard VXIbus mainframes such as the V195-AA21. Configuration and data retrieval use standard VXIbus memory-mapped I/O addressing.

V635AA21 Characteristics / Specifications

PARAMETER	VALUE
Model	V635-AA21
Instrument Type	VXI frequency counter module
Family	Kinetic Systems / DynamicSignals V635
Channel Count	8
Frequency Rating	100 kHz
Form Factor	VXI C-size
Device Class	register-based VXIbus
Configuration Suffix	AA21 8-channel option
Manufacturer	Kinetic Systems / DynamicSignals
Literature	Kinetic Systems V635 8-channel 100 kHz frequency-counter listings
System Role	VXI multi-channel frequency/period measurement
Sibling Dio	V387-ZA11 128-channel digital I/O
Address Space Class	VXI A16/A24 (data sheet)
Input Class	frequency/period/totalize on the V635 table
Gate Class	programmable gate (data sheet)
Connector Class	front analog/digital counter inputs
Triggers Class	VXI TTL triggers (data sheet)
Power Class	VXI P1/P2 rails (data sheet watts)
Operating Temperature Class	VXI commercial on the sheet
Module Class	VXI counter/timer
Brand Lineage	Kinetic Systems / DynamicSignals / Vitrek
Documentation Type	V635-AA21 listing
Ate Class	frequency/tachometer ATE
Host Class	VXI slot-0 controller
Year Class	V635-AA21

PARAMETER	VALUE
Use Case	8-channel 100 kHz counting
Operating temperature	Class: VXI commercial on the sheet

V635AA21 Specifications

PARAMETER	VALUE
Applications	VXI multi-channel frequency/period counting to 100 kHz on eight channels.
Key Features	8-channel VXI frequency counter
Technical Specifications	Model: V635-AA21

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: VXI commercial on the sheet
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Operating Temperature Class	VXI commercial on the sheet
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Brand Lineage	Kinetic Systems / DynamicSignals / Vitrek
Documentation Type	V635-AA21 listing
Ate Class	frequency/tachometer ATE
Host Class	VXI slot-0 controller
Year Class	V635-AA21
Use Case	8-channel 100 kHz counting Notes From Kinetic Systems V635 listings (AA21 = 8 channels, 100 kHz). Resolution, coupling, and gate times are on the V635 specification table; do not invent Hz resolution.

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

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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.