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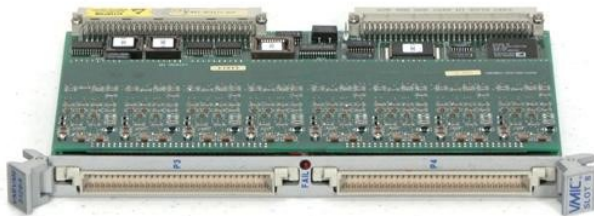
Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-3126A-100 High Resolution Isolated A/D Converter Board

The VMIVME-3126A-100 is a high-resolution isolated A/D converter board designed for VMEbus systems. It provides precise analog-to-digital conversion with isolation to protect the system from high voltages and noise. Ideal for industrial and laboratory applications requiring accurate data acquisition.

**MODEL****Abaco Systems /
VMIC VMIVME-
3126A-100****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****VMIVME-3126A-
100****LISTING**[https://aumictechlabs.c
om/products/vmivme-3
126a-100-2/](https://aumictechlabs.com/products/vmivme-3126a-100-2/)

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NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems VMIVME-3126A-100 is a high-resolution isolated analog-to-digital converter board for VMEbus systems. It delivers simultaneous sampling across 8 or 16 isolated input channels with 16-bit resolution and 1,500 VDC input-to-input isolation. The board supports software-configurable voltage (± 50 mV to ± 10 V, or optional ± 5 mV to ± 1 V) and current modes, with dedicated 24-bit ADCs per channel and real-time DSP-based calibration and filtering. Technical Specifications Analog Input Channels 8 or 16 isolated input channels with active guards Dedicated 24-bit ADC per channel Input-to-input and input-to-VMEbus isolation: 1,500 VDC (1,000 VAC) Input Ranges Voltage Mode: ± 50 mV to ± 10 V (standard) or ± 5 mV to ± 1 V

(optional), software-selectable per channel Current Mode: 400 Ω termination resistor RTD Excitation: 200 mA/400 mA per channel, software-controlled Open transducer detection supported Data Acquisition Resolution: 16 bits user-available data Simultaneous sampling across all inputs Channel sample rate: 100 SPS per channel Maximum aggregate sample rate: 1,600 SPS (16-channel) / 800 SPS (8-channel) Integral non-linearity: $\pm 0.005\%$ maximum Signal Processing On-board DSP performs 32-bit arithmetic calibration and filtering Real-time offset and gain correction E2PROM calibration coefficient storage Software-controlled bandwidth: 0.05 to 26 Hz (6-pole low-pass filters) VMEbus Interface A24 or A16 address space (jumper-selectable) Supervisory or user privilege modes DTB Slave: D16/D8 (EO) Data buffer: 16 contiguous 16-bit words Access time: 400 ns (DS to DTACK) Physical Double height Eurocard (6U): 160 $\times$ 233.35 mm Weight: 700 g maximum Input connectors: Two 64-pin DIN connectors

Key Features Per-channel dedicated ADCs eliminate cross-talk and enable true simultaneous sampling Galvanic isolation protects instrumentation from transients and high-voltage environments DSP-based calibration eliminates mechanical trimpots and drift over temperature Channel-by-channel input range selection enables measurement optimization for low-level and high-level signals Open transducer detection improves system diagnostics

Typical Applications Industrial process monitoring and control requiring noise immunity Laboratory data acquisition systems with multichannel requirements High-voltage transducer interface in power distribution systems RTD and resistance measurement in isolated environments

Compatibility & Integration The board integrates into standard 6U VMEbus crates and supports both A16 and A24 addressing modes, allowing flexible system architecture in legacy and modern VME deployments.

VMIVME3126A100 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-3126A
Instrument Type	High-resolution isolated intelligent analog-to-digital converter board
Card Form Factor	6U VME
Analog Input Channels Standard	16 isolated with active guards
Analog Input Channels Option	8-channel option
Digitizing Resolution	16 bits
Conversion Rate Per Channel	100 SPS
Isolation Rating Dc	1500 VDC input-to-input and input-to-VMEbus
Isolation Rating Ac	1000 VAC input-to-input and input-to-VMEbus
Input Range Family	plus or minus 50 mV to plus or minus 10 V software selectable per channel
Software Filter Bandwidth Minimum	0.05 Hz
Software Filter Bandwidth Maximum	26 Hz
Filter Implementation	6-pole low-pass in internal DSP
Rtd Excitation 200 Ua	software controlled per channel
Rtd Excitation 400 Ua	software controlled per channel
Adc Architecture	high-resolution sigma-delta per channel
Calibration Storage	DSP nonvolatile coefficients no trimpots
Open Transducer Detection	software controlled
Current Termination Resistors	optional
Self Test Initiation	VMEbus system reset or software command
Ordering Alias Base	VMIVME-3126A-000
Queue Configuration Example	VMIVME-3126A-100
Bandwidth	Minimum: 0.05 Hz

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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Isolation Rating Ac	1000 VAC input-to-input and input-to-VMEbus
Input Range Family	plus or minus 50 mV to plus or minus 10 V software selectable per channel
Optional Extended Input Range: up to plus or minus 200 VDC	
Specifications	
PARAMETER	VALUE
Software Filter Bandwidth Minimum	0.05 Hz
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Queue Configuration Example: VMIVME-3126A-100	

Notes

From VMIC VME-3126 and Artisan VMIVME-3126A datasheet feature tables for isolation, 100 SPS per channel, ranges, DSP filter bandwidth, and RTD excitation. Unipolar bipolar FSR options from 5 mV to 10 V appear on 3126A marketing summaries.

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.