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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-4512-300 16-Channel Analog I/O Board

The VMIVME-4512-300 is a 16-channel analog I/O board designed for VMEbus systems. It provides high-performance analog input and output capabilities, suitable for a wide range of industrial and data acquisition applications. This board features 16 independent channels, offering flexibility in connecting to various sensors and actuators.

**MODEL****Abaco Systems /
VMIC VMIVME-
4512-300****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****VMIVME-4512-
300****LISTING**[https://aumictechlabs.c
om/products/vmivme-4
512-300-2/](https://aumictechlabs.com/products/vmivme-4512-300-2/)

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NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIVME-4512-300 is a VMEbus Rev. C.1 compatible analog I/O board delivering 16 input and 16 output channels in a standard VME double-height, double Eurocard form factor. Built for data acquisition and industrial control, it features 12-bit resolution on both ADC and DAC with programmable voltage ranges and integrated Built-in-Test capability. Technical Specifications Form Factor & Compatibility Standard VME double-height, double Eurocard board VMEbus Specification Rev. C.1 compliant On-board jumpers for address selection and address modifier bit decoding Analog Output Channels (16 Total) 12-bit DAC resolution Output voltage ranges (programmable): 0 to +5 V, 0 to +10 V (unipolar); ± 2.5 V, ± 5 V, ± 10 V (bipolar) Output

current capability: 10 mA sourcing or sinking at ± 10 V Output impedance: $0.1\ \Omega$ Total error: $\pm 0.05\%$ of full-scale range Maximum settling time to 1 LSB: 1.7 ms Refresh update rate: 550 Hz (default) or 1,600 Hz (FAST REFRESH mode) Short-circuit protection: indefinite short-to-common; momentary short to ± 25 V Monotonic over full temperature range Accepts straight binary and offset binary digital codes, right-justified in 16-bit words Offline testing capability with disconnectable I/O connector Analog Input Channels (16 Total) 12-bit ADC resolution with on-board multirange digitization Input configuration: differential or pseudo-differential/single-ended Input voltage ranges (programmable): 0 to +5 V, 0 to +10 V (unipolar); ± 2.5 V, ± 5 V, ± 10 V (bipolar) Optional 36 Hz single-pole input filter available Built-in-Test (BIT) Utilizes on-board A/D converter multiplexers for testing active components and output switches

Key Features Dual programmable voltage ranges support diverse sensor and actuator interfaces Low output impedance ($0.1\ \Omega$) enables direct drive of high-impedance loads Tight total error specification ($\pm 0.05\%$ FSR) ensures high measurement accuracy Flexible input coupling options support both differential and single-ended signal sources Integrated BIT streamlines field diagnostics and maintenance verification

VMIVME4512300 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-4512
Instrument Type	16-channel analog input and output board with BIT
Card Form Factor	6U VME
Analog Output Channels	16
Analog Input Channels	16 differential or 16 single-ended
Adc Resolution	12 bits
Dac Resolution	12 bits
Throughput Maximum	33 kHz
Output Drive At Plus Minus 10 V	source or sink 10 mA
Input Range 0 To 5 V	jumper selectable
Input Range 0 To 10 V	jumper selectable
Input Range Plus Minus 2.5 V	jumper selectable
Input Range Plus Minus 5 V	jumper selectable
Input Range Plus Minus 10 V	jumper selectable
Output Range 0 To 5 V	jumper selectable
Output Range 0 To 10 V	jumper selectable
Output Range Plus Minus 2.5 V	jumper selectable
Output Range Plus Minus 5 V	jumper selectable
Output Range Plus Minus 10 V	jumper selectable
Overvoltage Protection	supported
Fail Safe Power Off	supported
Io Connector Class	P2 I/O
Front Panel Indicator	Fail LED
Ordering Alias Base	VMIVME-4512-000

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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Input Range Plus Minus 10 V	jumper selectable
Output Range 0 To 5 V	jumper selectable
Output Range 0 To 10 V	jumper selectable
Output Range Plus Minus 2.5 V	jumper selectable
Output Range Plus Minus 5 V	jumper selectable
Output Range Plus Minus 10 V	jumper selectable
Optional Input Filter Cutoff: 36 Hz on filter order codes	
Specifications	
PARAMETER	VALUE
Overvoltage Protection	supported
Fail Safe Power Off	supported
Io Connector Class	P2 I/O

PARAMETER	VALUE
Front Panel Indicator	Fail LED

Ordering Alias Base: VMIVME-4512-000

Notes
From Abaco VME-4512 product specifications and Artisan/GE VMIVME-4512 feature tables for 16-channel 12-bit AIO, 33 kHz throughput, 10 mA drive, jumper ranges, and optional 36 Hz filters. Queue suffixes such as -000 and -300 are ordering configurations of the same family.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.