

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-4512-000 16-Channel Analog I/O Board

Abaco Systems / VMIC Data Acquisition Systems (DAQ). Voltage / Current Range: ± 10 V input; ± 10 mA @ ± 10 V output, ± 2.5 V, ± 5 V, 0 to $+10$ V, 0 to $+5$ V, Channels: single-ended or differential configuration, Current: ± 10 mA @ ± 10 V.



MODEL

**Abaco Systems /
VMIC VMIVME-
4512-000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**VMIVME-4512-
000**

LISTING

<https://aumictechlabs.com/products/vmivme-4512-000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The VMIVME-4512-000 is a VMEbus analog I/O board delivering 16 channels of simultaneous analog input and output for industrial measurement and control systems. Built on a standard VME double-height form factor, this module integrates dual 12-bit converters with programmable signal conditioning, onboard diagnostics, and fail-safe protection - making it suitable for sensor networks, data acquisition, and real-time process automation where compact integration and field-proven reliability are required. Technical Specifications Analog Input 16 channels: single-ended or differential configuration 12-bit A/D conversion Input ranges: 0 to $+10$ V, 0 to $+5$ V (unipolar); ± 2.5 V, ± 5 V, ± 10 V (bipolar) Throughput: 33 kHz maximum Analog Output 16 channels, 12-bit resolution Output current: ± 10 mA @ ± 10 V Programmable voltage ranges via on-board

jumpers Settling time: 1.7 ms maximum to 1 LSB Refresh rates: 550 Hz (standard), 1,600 Hz (FAST REFRESH mode) Total error: $\pm 0.05\%$ of full-scale range Short-circuit protection: indefinite to common, momentary to ± 25 V Overvoltage protection and fail-safe operation when powered down Offline testing capability with I/O connector isolation Built-In Test (BIT) On-board diagnostics using A/D multiplexers Dual-port memory test with diagnostic verification Software-controlled front panel fail LED for error indication

Key Features VMEbus Rev. C.1 compliant with A06:A15 address decoding Jumper-configurable board address and access modifier bits Dual-port on-board RAM for output staging Single-word analog input digitization A16:D16, D08 (EO) data transfer support 160 mm $\times$ 233.5 mm board footprint

Typical Applications Process control, industrial instrumentation, multi-channel sensor integration, distributed data acquisition systems, and legacy VMEbus backplane modernization.

Compatibility & Integration Physical address selection via jumpers. Standard P2 user I/O connector. Operating temperature 0 to 55 °C.

VMIVME4512000 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	
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
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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.