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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-3128-000 Scanning 14-Bit A/D Converter Board

Abaco Systems / VMIC Data Acquisition Systems (DAQ). Voltage / Current Range: ± 10 V input; 4 A maximum at +5 VDC, ± 2.5 V, ± 5 V, 0 to +10 V, 0 to +5 V, Sample rate: 3.625 kSPS (when scanning 16 channels).



MODEL

**Abaco Systems /
VMIC VMIVME-
3128-000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**VMIVME-3128-
000**

LISTING

<https://aumictechlabs.com/products/vmivme-3128-000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIVME-3128-000 is a VMEbus scanning 14-bit analog-to-digital converter board engineered for high-speed multichannel data acquisition in industrial and scientific applications. It delivers up to 58 kHz overall scanning rate across 64 differential or single-ended input channels with 14-bit resolution and dual-port memory architecture enabling continuous operation without host processor intervention. Technical Specifications Analog Input Channels & Resolution 64 differential or single-ended inputs 14-bit resolution Input ranges (jumper-selectable): 0 to +5 V, 0 to +10 V, ± 2.5 V, ± 5 V, ± 10 V Software-programmable and jumper-selectable gain: 1 $\times$, 10 $\times$, or 100 $\times$ (individual channel or fixed across all channels, programmable in real-time) Overvoltage-protected inputs with optional low-pass filtering (10 Hz,

50 Hz, 100 Hz, 500 Hz selectable) Conversion Performance Overall scanning rate: 58 kHz (52 kHz also cited) Conversion cycle time: 17 μ s per channel (acquisition, A/D conversion, storage) Maximum per-channel sample rate: 3.625 kSPS (when scanning 16 channels) Scanning & Data Management Program-selectable scan modes: 16, 32, 48, or 64 channels with sequential block digitization Six operating modes: auto-scanning, single-channel random polling, timed burst, locally triggered burst, remotely triggered burst, gain loading 1,024-word dual-port data buffer (16-word deep $\times$ 64 channels) External trigger input for synchronizing up to sixteen boards simultaneously User-programmable interval timer VMEbus Interface & Form Factor VMEbus compatible with programmed interrupts 6U VMEbus Eurocard form factor, single slot, 4 HP width 96-pin DIN connector (center row grounded) for analog inputs Operating temperature: 0°C to 55°C Maximum power consumption: 4 A at +5 VDC Key Features Minimal host processor overhead through on-board timer control Real-time per-channel gain adjustment without system halt Simultaneous dual-port memory access from VMEbus and scanning circuits Five selectable input ranges with independent gain per channel Multiple synchronization options for multi-board systems Typical Applications Factory automation and instrumentation Industrial process control and monitoring Scientific research data acquisition Compatibility & Integration The VMIVME-3128-000 integrates directly into VMEbus backplanes and supports coordinated multi-board configurations via external trigger synchronization, making it suitable for distributed data acquisition architectures.

VMIVME3128000 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-3128
Instrument Type	Scanning 14-bit analog to digital converter board with programmable gain memory
Card Form Factor	6U VME double height
Adc Resolution	14 bits
Input Channel Count	64
Gain Setting X	supported
Gain Setting X1	supported
Scan Rate Maximum	58 kCPS programmable
Dual Port Register Depth Class	1024 data registers
Operating Modes Total	six modes
Mode Autoscanning	continuous scanning of all channels
Mode Single Channel Random Access	supported
Mode Gain Loading	supported
Mode Programmed Vme	supported
Mode Locally Triggered Burst	supported
Mode Externally Triggered Burst	supported
Burst Interval Control	programmable burst intervals for single data burst scan of buffer
I/O Connector Style	ribbon cable ERNI class and Harting 09 03 096 0501 housing options documented
Pc Board I/O Connector Example	Panduit 101-096-03
Low Pass Input Filters	available
Ordering Alias Base	VMIVME-3128-000
Product Family Codes	VMIVME-3128

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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Card Form Factor	6U VME double height
Adc Resolution	14 bits
Input Channel Count	64
Gain Setting X1	supported
Gain Setting X10	supported
Gain Setting X100	supported
Scan Rate Maximum	58 kCPS programmable
Dual Port Register Depth Class	1024 data registers
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Ordering Alias Base: VMIVME-3128-000	
Product Family Codes: VMIVME-3128	
Notes	
From VMIC VMIVME-3128 Scanning 14-bit Analog-to-Digital Converter Board with Programmable Gain Memory public	

specification summary. Queue SKU VMIVME-3128-000 is the base ordering configuration; -000M01 is marked variant. Absolute accuracy figures are certificate-specific when not listed on the brochure.

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.