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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-3122-200 High-Performance 16-Bit Analog-to-Digital Converter (ADC)

Abaco Systems / VMIC Data Acquisition Systems (DAQ). Frequency Range: 40 kHz (high-performance), 5 kHz (standard performance), Voltage / Current Range: 20 Vp-p.

**MODEL****Abaco Systems /
VMIC VMIVME-
3122-200****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****VMIVME-3122-
200****LISTING**<https://aumictechlabs.com/products/vmivme-3122-200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIVME-3122-200 is a 16-bit analog-to-digital converter (ADC) VME card engineered for precision data acquisition in demanding signal digitization applications. This module delivers software-selectable conversion rates up to 100 kSPS with support for up to 64 differential or single-ended input channels, dual-port data buffering, and programmable gain control - making it suitable for systems requiring high-fidelity analog signal measurement within VME-based architectures. Technical Specifications Resolution: 16-bit Conversion Rate: Software-selectable, up to 100 kSPS maximum (100 kHz); standard performance option at 50 kSPS Input Channels: Up to 64 differential or single-ended inputs Input Bandwidth: option: 40 kHz typical (20 Vp-p, no filter); standard performance option: 5 kHz typical (20 Vp-p) Data Registers: 1024 dual-

port registers for continuous scanning and VMEbus read access Gain Control: Software-controlled, selectable x1 or x10 per channel Access Time: Non-scanning 600 ns maximum; scanning 600 ns typical, 1.2 μ s maximum Input Filters: Low-pass filters available with $\pm 25\%$ cutoff frequency tolerance Common-Mode Protection: 22 M Ω pull-down resistor to ground (option) Key Features Programmable channel scanning (1, 8, 16, 32, 48, or 64 channels selectable) Automatic continuous digitization of selected channels with dual-port buffering Three trigger modes: software trigger, external TTL trigger via P2 connector, and external synchronization Multi-board synchronization capability supporting up to 15 boards via P2 trigger output Full VMEbus read access to data registers during continuous operation Typical Applications High-speed test and measurement systems, avionics instrumentation, industrial process monitoring, and defense telemetry requiring synchronized multi-channel analog signal acquisition within VME environments. Compatibility & Integration Designed as a VME Analog I/O Input Board compatible with VMEbus system architecture and supporting concurrent board synchronization through external trigger signaling.

VMIVME3122200 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-3122
Instrument Type	High-performance 16-bit scanning analog to digital converter board
Card Form Factor	6U VME
Digitizing Resolution	16 bits
Input Channels	64 differential or single-ended
Program Controlled Gain	x1 or x10
Ad Range Plus Minus 2.5 V	jumper selectable
Ad Range Plus Minus 5 V	jumper selectable
Ad Range Plus Minus 10 V	jumper selectable
Ad Range 0 To 5 V	jumper selectable
Ad Range 0 To 10 V	jumper selectable
Conversion Rate Standard	381 Hz to 50 kHz
Conversion Rate High Performance Option	381 Hz to 100 kHz
Default After Reset Scan Rate	100 kHz 64-channel autoscanning gain x1
Data Buffer Size	16 to 1024 words binary increments
Channel Block Sizes	1, 8, 16, 32, or 64 channels
Burst Sample Count	8 to 1024 channel samples
Burst Interval Timer Maximum	687 s repetitive or single shot
Address Space A	supported
Operating Mode Autoscanning	supported
Operating Mode Data Bursts	supported
Operating Mode External Sync	supported
Standard Mode Reprogram Code	write 00F7 hex to relative address 0006 for 50 kHz
Bus Interface	VMEbus slave with programmable interrupter

PARAMETER	VALUE
Ordering Alias Base	VMIVME-3122-000

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.

Performance 16-Bit Analog Scanning ADC

Overview

The Abaco (VMIC/GE) VMIVME-3122 is a 16-bit 64-channel scanning analog digitizer for VMEbus. OEM VMIVME-3122 manuals rate dual-ported buffers from 16 to 1024 words, software gains x1 or x10, jumper ranges plus or minus 2.5 V through 0 to 10 V, and conversion rates from 381 Hz to 50 kHz standard or 100 kHz high-performance option.

Applications

High-channel-count analog acquisition for industrial automation, process control, and VME data systems needing minimal host overhead.

Key Features

Autoscanning timed burst and externally synchronized modes
Per-channel or global programmable gain
Dual-port data buffer with middle or end of scan interrupts
Optional low pass input filters
Interval timer for repetitive bursts to 687 s

Technical Specifications

Technical Specifications

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Default After Reset Scan Rate	100 kHz 64-channel autoscanning gain x1
Data Buffer Size	16 to 1024 words binary increments
Channel Block Sizes	1, 8, 16, 32, or 64 channels
Burst Sample Count	8 to 1024 channel samples

PARAMETER	VALUE
Burst Interval Timer Maximum	687 s repetitive or single shot
Address Space A16	supported
Address Space A24	supported
Address Space A32	supported
Operating Mode Autoscanning	supported
Operating Mode Data Bursts	supported
Operating Mode External Sync	supported
Standard Mode Reprogram Code	write 00F7 hex to relative address 0006 for 50 kHz
Bus Interface	VMEbus slave with programmable interrupter

Ordering Alias Base: VMIVME-3122-000

Notes
From GE/VMIC VMIVME-3122 hardware description and published electrical tables for gains, ranges, rates, and buffer sizes. Queue SKUs such as VMIVME-3122-000/-001/-010/-200/-420 are ordering suffixes of the same scanning ADC 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

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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.