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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-3111-000 Analog-to-Digital Converter (ADC) Module

Abaco Systems / VMIC Data Acquisition Systems (DAQ). Voltage / Current Range: ± 10 V input/output; ± 10 mA output current; ± 40 V overvoltage protection, ± 2.5 V, ± 5 V, 0 to $+10$ V, 0 to $+5$ V, Accuracy: ± 0.03 percent, Current: ± 10 mA over full range.



MODEL

**Abaco Systems /
VMIC VMIVME-
3111-000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VMIVME-3111-000

LISTING

<https://aumictechlabs.com/products/vmivme-3111-000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems/VMIC VMIVME-3111-000 is a 12-bit analog-to-digital and digital-to-analog converter module purpose-built for VMEbus systems. It delivers integrated signal conversion in a single card, eliminating the need for separate input/output modules in process control, simulator, and supervisory control applications. With flexible channel configurations supporting up to 48 analog inputs and programmable gain stages, the module adapts to diverse signal conditioning requirements. Technical Specifications Analog Inputs: 12-bit resolution 32 single-ended or 16 differential inputs via P2 connector; optional 16 single-ended inputs via P3 front panel connector Jumper-selectable ranges: 0 to $+5$ V, 0 to $+10$ V, ± 2.5 V, ± 5 V, ± 10 V Program-selectable gains: x1, x10, x100, x500 Input impedance: 10 M Ω minimum Autocalibrable zero offset: ± 50 μ V at x500 gain

Common-mode rejection: 100 dB Overvoltage protection: ± 40 V A/D conversion time: 19 μ s
Acquisition time varies by gain: 8 μ s (x1), 20 μ s (x10), 50 μ s (x100), 120 μ s (x500) Maximum
throughput: 53 kHz in pipelined mode Analog Outputs: 12-bit resolution Jumper-selectable
ranges: 0 to +5 V, 0 to +10 V, ± 2.5 V, ± 5 V, ± 10 V Accuracy: ± 0.03 percent Settling time: 25 μ s to
0.01 percent Output current: ± 10 mA over full range Source impedance: 0.2 Ω maximum
Protection against sustained shorts and transients to ± 40 V Key Features Monotonic performance
across full temperature range Conversion initiation via software or external pulse End-of-
conversion detection by polling or interrupt Optional low-pass filters at 6 Hz, 9 Hz, or 36 Hz cutoff
Optional 250 Ω current loop termination resistors Jumper-selectable converter codes: straight
binary, offset binary, two's complement Three precision on-board reference voltages for self-
test Compatibility & Integration P3 connector integrates with VMIVME-3V and VMIVME-5V series
signal conditioning assemblies, enabling modular analog front-end configurations within VME
environments.

VMIVME3111000 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-3111
Instrument Type	12-bit analog input output VME board
Card Form Factor	6U double Eurocard
Adc Resolution	12 bits
Dac Resolution	12 bits
P2 Analog Inputs	32 single-ended or 16 differential
Front Panel Analog Inputs	16 single-ended via P3
Total Input Channels Maximum	48 single-ended configuration
Programmable Gains	x1, x10, x100, x500
Analog Ranges Jumper	0 to +5 V, 0 to +10 V, plus or minus 2.5 V, plus or minus 5 V, plus or minus 10 V
Ad Conversion Time	19 us sample plus conversion
Acquisition Time Gain X	20 us
Acquisition Time Gain X1	50 us
Acquisition Time Gain X5	120 us
Throughput Pipelined Maximum	53 kHz at gain x1
Accuracy Gain X	plus or minus 0.03 percent FSR
Accuracy Gain X1	plus or minus 0.13 percent FSR
Accuracy Gain X5	plus or minus 0.50 percent FSR
Common Mode Rejection	100 dB
Input Impedance Minimum	10 MOhm
Input Zero Offset Autocal	plus or minus 50 uV at x500 gain
Overvoltage Protection	plus or minus 40 V
Analog Output Accuracy	plus or minus 0.03 percent
Analog Output Settling	25 us to 0.01 percent
Analog Output Current	plus or minus 10 mA over full range

PARAMETER	VALUE
Source Impedance Maximum	0.2 Ohm
Off Line Leakage Maximum	200 nA
Power Plus 5 Vdc Maximum	2.5 A
Vme Compliance	A16 D16 D08 EO slave interrupter I1 to I7 ROAK
Board Dimensions	160 × 233.5 mm
Operating Temperature	0 to plus 55 C
Storage Temperature	-20 to plus 85 C
Relative Humidity	20 to 80 percent noncondensing
Ordering Alias Base	VMIVME-3111-000
Humidity	20 to 80 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to plus 85 C
Operating temperature	0 to plus 55 C
Operating Temperature	0 to plus 55 C
Humidity	20 to 80 percent noncondensing
Relative Humidity	20 to 80 percent noncondensing
Ordering Alias Base	VMIVME-3111-000 Notes From VMIC VMIVME-3111 brochure RevCelectrical characteristics at 25 C and ordering options A/B/C. Queue SKU VMIVME-3111-000 selects no filter no autocal no BIT no analog outputs per option codes.

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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PARAMETER	VALUE
Model	VMIVME-3111
Instrument Type	12-bit analog input output VME board
Card Form Factor	6U double Eurocard
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Total Input Channels Maximum	48 single-ended configuration
Programmable Gains	x1, x10, x100, x500
Analog Ranges Jumper	0 to +5 V, 0 to +10 V, plus or minus 2.5 V, plus or minus 5 V, plus or minus 10 V
Ad Conversion Time	19 us sample plus conversion
Acquisition Time Gain X1	8 us
Acquisition Time Gain X10	20 us
Acquisition Time Gain X100	50 us
Acquisition Time Gain X500	120 us
Throughput Pipelined Maximum	53 kHz at gain x1
Accuracy Gain X1	plus or minus 0.03 percent FSR
Accuracy Gain X10	plus or minus 0.08 percent FSR
Accuracy Gain X100	plus or minus 0.13 percent FSR
Accuracy Gain X500	plus or minus 0.50 percent FSR
Common Mode Rejection	100 dB
Input Impedance Minimum	10 MOhm
Input Zero Offset Autocal	plus or minus 50 uV at x500 gain
Overvoltage Protection	plus or minus 40 V
Optional Filter Cutoffs: -3 dB at 6 Hz, 9 Hz, 36 Hz	

Specifications

PARAMETER	VALUE
Analog Output Accuracy	plus or minus 0.03 percent
Analog Output Settling	25 us to 0.01 percent
Analog Output Current	plus or minus 10 mA over full range
Source Impedance Maximum	0.2 Ohm
Off Line Leakage Maximum	200 nA
Power Plus 5 Vdc Maximum	2.5 A
Vme Compliance	A16 D16 D08 E0 slave interrupter I1 to I7 ROAK
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Operating Temperature	0 to plus 55 C
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Ordering Alias Base: VMIVME-3111-000

Notes

From VMIC VMIVME-3111 brochure RevCelectrical characteristics at 25 C and ordering options A/B/C. Queue SKU VMIVME-3111-000 selects no filter no autocal no BIT no analog outputs per option codes.

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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NIST-traceable calibration · SAM registered ·
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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.