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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-1111-040 64-Bit High-Voltage Digital Input Board

The Abaco Systems / VMIC VMIVME-1111-040 is a 64-bit high-voltage digital input board for VMEbus systems. It has 64 input channels with user-selectable voltage thresholds spanning 1.25 VDC to 66 VDC, supporting multiple signal types including contact closure, voltage source, current sinking, and differential signals. Each 32-input group is jumper-configurable for the desired signal type. The board transfers data in 8, 16, or 32-bit formats and features buffered inputs with debounce conditioning. Differential line receivers offer RS-422/RS-485 compatibility with $\pm 7V$ noise immunity. On-board Built-in-Test logic enables fault detection and isolation, while a front-panel Fail LED provides visual status indication. Open-circuit behavior defaults to logic zero with jumper-selectable logic one override. An input filter option is available for enhanced signal integrity. Compatibility & Integr



MODEL

**Abaco Systems /
VMIC VMIVME-
1111-040**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VMIVME-1111-040

LISTING

<https://aumictechlabs.com/products/vmivme-1111-040-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIVME-1111-040 is a 64-bit high-voltage digital input board for VMEbus systems. It has 64 input channels with user-selectable voltage thresholds spanning 1.25

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Technical Specifications

Form Factor: Double Eurocard, VMEbus

Input Channels: 64 total (two groups of 32)

Data Transfer Width: 8, 16, or 32 bits

Input Voltage Range: 1.25 VDC to 66 VDC

User-selectable Thresholds: 1.25 V to 66 V

Signal Types (per 32-input group): Contact closure, voltage source, current sinking, differential signals

Differential Line Receivers: RS-422/RS-485-compatible, $\pm 7V$ noise immunity

Input Conditioning: Buffered with debounce; input filter option available

Built-in-Test: On-board BIT logic for fault detection and isolation

Open-Circuit State: Logic zero (default) or jumper-selectable logic one

Status Indicator: Front-panel Fail LED

Key Features

- Flexible signal conditioning supports four input signal types with per-group jumper selection
- Wide voltage threshold range accommodates industrial and aerospace signal levels
- Differential line receiver architecture reduces susceptibility to EMI
- Integrated BIT capability streamlines fault isolation during system verification
- Configurable open-circuit behavior adapts to system fail-safe requirements

Typical Applications

- High-voltage industrial control and monitoring systems
- Aerospace and defense vehicle data acquisition
- Process automation with mixed signal inputs
- Real-time fault detection and system diagnostics

Compatibility & Integration

Complies with VMEbus specification ANSI/IEEE STD 1014-1987, IEC 821, and 297. Direct drop-in replacement for the legacy GE / Abaco VMIVME-1111.

VMIVME1111040 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-1111
Instrument Type	64-bit high-voltage digital input board with BIT
Card Form Factor	6U double Eurocard single slot VME slave
Input Channels	64 arranged as eight 8-bit ports
Data Transfer Widths	8, 16, or 32 bit VME D08/D16 cycles
Vme Addressing	short supervisory and or short nonprivileged I/O map
Csr Addressing	independently selectable on 8-bit boundary
Differential Common Mode Range	-30 to +66 V
Differential Sensitivity	plus or minus 100 mV over -7 to +12 V common mode
Input Impedance Typical	33 kOhm
Single Ended Threshold Range	1.25 to 66 V
Single Ended Threshold Accuracy Typical	1 percent over 66 V range
Io Voltage Range Family	1.25 to 66 Vdc
Input Connector Type	dual 64-pin DIN 41612
Power Plus 5 Vdc Typical	1 A
Operating Temperature	0 to 70 C
Storage Temperature	-40 to plus 85 C
Noise Immunity Differential Class	plus or minus 7 V RS-422/485 compatible receivers
Address Jumpers	thirteen jumpers for short I/O map selection
Port Organization	eight ports individually addressable on 8 16 or 32 bit boundaries
Built In Test	on-board self-test worst-case bit pattern generator
Front Panel Indicator	FAIL LED
Ordering Alias Base	VMIVME-1111-000

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to 70 C
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Noise Immunity Differential Class	plus or minus 7 V RS-422/485 compatible receivers
Address Jumpers	thirteen jumpers for short I/O map selection
Port Organization	eight ports individually addressable on 8 16 or 32 bit boundaries
Built In Test	on-board self-test worst-case bit pattern generator
Front Panel Indicator	FAIL LED
Ordering Alias Base	VMIVME-1111-000 Notes From GE/VMIC VMIVME-1111 64-bit High-Voltage Digital Input Board with Built-in-Test datasheet functional and electrical tables. Queue SKUs VMIVME-1111-000 and VMIVME-1111-040 are configuration suffixes of the same board family.

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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From GE/VMIC VMIVME-1111 64-bit High-Voltage Digital Input Board with Built-in-Test datasheet functional and electrical tables. Queue SKUs VMIVME-1111-000 and VMIVME-1111-040 are configuration suffixes of the same board 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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.