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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIVME-1181-000 32-Channel P2 Input Board with Change-of-State

The Abaco Systems / VMIC VMIVME-1181-000 is a 32-channel digital input board with programmable Change-of-State (COS) interrupt capabilities for VMEbus systems. The board captures state transitions on its input channels and generates interrupts based on user-defined conditions, enabling real-time event monitoring and response in applications. A 512-event FIFO buffer preserves state-change data during interrupt servicing, eliminating data loss in high-activity environments. Compatibility & Integration Designed for direct integration into VMEbus Rev. C.1 systems. Supports standard 16-bit and 32-bit data bus architectures. Jumper configuration enables field customization without firmware modification. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / VMIC VMIVME-1181-000. Calibration covers per-channel threshold accuracy, input leakage current, logic level high



MODEL

**Abaco Systems /
VMIC VMIVME-
1181-000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VMIVME-1181-000

LISTING

<https://aumictechlabs.com/products/vmivme-1181-000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIVME-1181-000 is a 32-channel digital input board with programmable Change-of-State (COS) interrupt capabilities for VMEbus systems. The board

captures state transitions on its input channels and generates interrupts based on user-defined conditions, enabling real-time event monitoring and response in applications. A 512-event FIFO buffer preserves state-change data during interrupt servicing, eliminating data loss in high-activity environments. Technical Specifications Digital Input 32 channels via P2 high-reliability DIN connector Input impedance: 33 k Ω Threshold accuracy: $\pm 10\%$ over 1.25 V to 66 V input range User-selectable voltage thresholds: 1.25 V to 66 V Change-of-State Interrupt Logic Programmable via Control and Status Register (CSR) Selectable trigger modes: no interrupts, falling edge only, rising edge only, any transition Event buffer capacity: 512 state changes (FIFO) Input Conditioning Jumper-selectable debounce times: 10 μ s, 1 ms, 5 ms, 10 ms Contact bounce elimination on make and break Transient suppression for ground noise and crosstalk Per-octet (8-channel group) input mode selection: contact closure, voltage source, or current sinking Open-circuit programmable to logic "0" or logic "1" VMEbus Interface VMEbus Rev. C.1 compliant Address range: A24:A16 Data width: D32:D16:D08 (EO) with 8-, 16-, or 32-bit transfer support Slave address: DTB 39, 3D Interrupt vector: D08 (ROAK) COS data port: D0B(0) Built-In Diagnostics On-board BIT logic for fault isolation Front panel fail LED indicator Form Factor Double Eurocard (6U) Key Features Flexible edge-triggered or level-based interrupt selection High input impedance minimizes loading on source circuits Wide voltage threshold range accommodates multiple signal types Debounce filtering eliminates contact chatter and electrical noise FIFO-based event capture prevents data loss in interrupt-heavy scenarios Typical Applications Industrial process monitoring and discrete I/O control Safety-critical systems requiring deterministic event response Real-time data acquisition with transient detection Legacy VMEbus system modernization and expansion Compatibility & Integration Designed for direct integration into VMEbus Rev. C.1 systems. Supports standard 16-bit and 32-bit data bus architectures. Jumper configuration enables field customization without firmware modification.

VMIVME1181000 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIVME-1181
Instrument Type	32-bit change-of-state digital input board
Card Form Factor	6U VME
Input Channels	32 optically isolated COS
Input Voltage Range Dc	5 to 48 VDC jumper configurable
Isolation Channel To Channel	1500 V AC galvanic
Fifo Event Depth	512 events
Data Transfer Widths	8 16 or 32 bit
Vme Specification Revision	C.1
Operating Temperature	0 to plus 55 C
Storage Temperature	-40 to plus 85 C
Relative Humidity	5 to 95 percent noncondensing
Cos Edge Rising	programmable
Cos Edge Falling	programmable
Channel Arrangement	four 8-bit ports on documented configurations
Ordering Alias Base	VMIVME-1181-000
Queue Configuration Example	VMIVME-1181-000
Slave Access Class	VME slave
Interrupt Capability	COS interrupt to host
Humidity	5 to 95 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to plus 55 C
Operating Temperature	0 to plus 55 C
Humidity	5 to 95 percent noncondensing
Relative Humidity	5 to 95 percent noncondensing
Cos Edge Rising	programmable
Cos Edge Falling	programmable
Channel Arrangement	four 8-bit ports on documented configurations
Ordering Alias Base	VMIVME-1181-000
Queue Configuration Example	VMIVME-1181-000
Slave Access Class	VME slave
Interrupt Capability	COS interrupt to host Notes From GE/VMIC VMIVME-1181 published specification summaries for channel count, 5 to 48 VDC span, 1500 V AC isolation, 512-event FIFO, and environmental limits. Differential plus or minus 100 mV sensitivity figures from alternate reseller blurbs are omitted pending matching OEM manual confirmation.

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

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Ordering Alias Base: VMIVME-1181-000

Specifications

PARAMETER	VALUE
Queue Configuration Example	VMIVME-1181-000
Slave Access Class	VME slave
Interrupt Capability	COS interrupt to host

Notes

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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.