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Find the *Abaco Systems / VMIC VMIVME-1181-000* at our website: ***Click HERE***



Board Level Products – Data Acquisition and Motion Control
Digital Input Boards

VMIVME-1181
32-bit CHANGE-OF-STATE INPUT BOARD WITH CAPTURE REGISTERS AND BUILT-IN-TEST

For Cables, Connectors, Barrier Terminal Strips/Blocks, see Accessories.

View Specifications (in PDF file format)

The VMIVME-1181 is a 32-channel P2 input board with Change-of-State (COS) interrupt capabilities. The interrupt control logic can be programmed to issue an interrupt upon specific state changes. The user selects the state change to use by programming the Control and Status Register (CSR) for the desired activity. This board will store up to 512 state changes as long as the COS logic is enabled. This will prevent the board from losing a state change during interrupt servicing.

COS Selection: Two control bits per input port are provided in the CSR to control the type of Change-of-State interrupts desired. These types are (1) no interrupts (input data only), (2) falling edge only, (3) rising edge only, and (4) any transition.

COS Select State Table

SEL B	SEL A	COS Mode
0	0	No Interrupts
0	1	Rising Edge Only
1	0	Falling Edge Only
1	1	Any Transition

Input Signal Conditioning: The input buffers provide a high input impedance (33 k□) with a threshold accuracy of 10 percent over the entire 66 V input range (typically). This circuit provides for input debounce with a time constant that is user-selected through a jumper. The bounce eliminator circuit will remove bounce on both the make and the break of a contact closure. This debounce circuit can also be used to eliminate input transients caused by ground noise or crosstalk in cables. The debounce times are jumper-selectable for 10 µs, 1, 5, and 10 ms.

- 32 bits of high-voltage digital change-of-state inputs
- Each group of eight inputs are jumper-selectable to monitor: contact closure, voltage source, and current sinking
- Open circuit provides logic "zero" or (jumper-selectable) logic "one"
- Contact debounce is jumper-selectable
- Contact debounces both "make" and/or "break" action

- 512 event FIFO buffer to prevent COS data loss
- On-board Built-in-Test logic for fault detection and isolation
- Front panel with fail LED
- User-selectable input voltage thresholds (1.25 to 66 V)
- VMEbus Rev. C.1 compatible: A24:A16: D32:D16:D08 (EO) DTB Slave: 39, 3D:29, 2D: I(1) to I(7) ROAK: interrupt vector: D08 (O) COS data: D0B(0)
- 8-, 16-, or 32-bit data transfers
- Input data available for direct read
- Double Eurocard (6U) form factor
- High reliability DIN-type input connector (P2)
- COS port (four) identified by unique programmable interrupt vector
- COS is programmable to respond to rising edge only, falling edge only, any transition, or input data only (no interrupts)
- Applications: Automatic Test Equipment, Change-of-State Status Monitoring, Control-System Inputs, Data Acquisition Systems, Digital Input Status Monitoring, Dry-Switch Monitoring, General-Purpose Digital Inputs, Low-Maintenance Applications (BIT), Status Sensor Monitoring, Supervisory Control Systems, Trainers and Simulators

Ordering Options		**A**	**B**	**C**	**-**	**D**	**E**	**F**
VMIVME-1181	**-**	**0**	**0**		**-**			

AB = 00 (Options reserved for future use)
C = Debounce Options
0 = 10 µs, 1, 5, or 10 ms (jumper-selectable)
1 = No Debounce (625 ns sampling)

For Ordering Information, Call 1-800-322-3616

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