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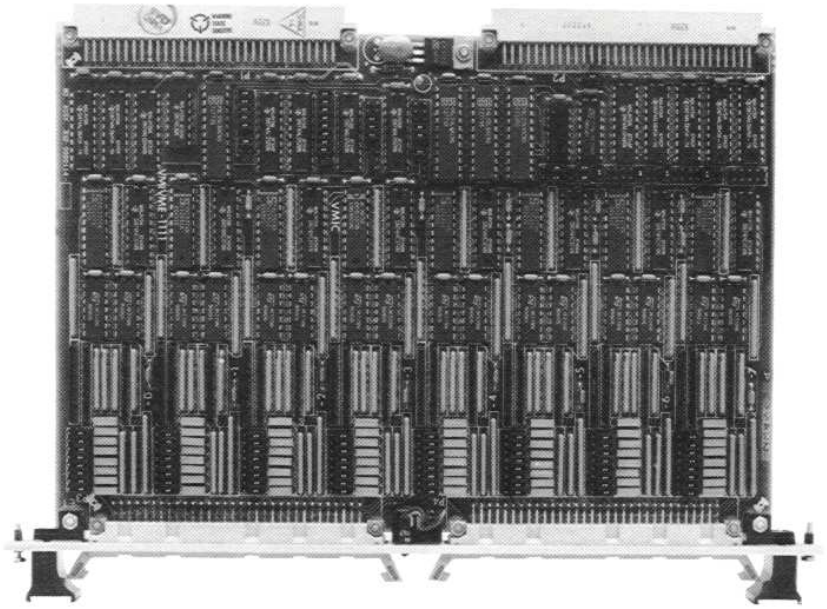
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Find the *Abaco Systems / VMIC VMIVME-1110-0-12-10-1-1* at our website: ***Click HERE***

VMIVME-1110

64-BIT HIGH VOLTAGE DIGITAL INPUT MEGAMODULE™



FEATURES

- CURRENT SINKING OR VOLTAGE SOURCING OPTIONS
- 5, 12, 24, 48 INPUT VOLTAGE RANGE OPTIONS
- 8-, 16-, OR 32-BIT TRANSFERS
- ON-BOARD BUILT-IN-TEST LOGIC FOR FAULT ISOLATION
- FRONT PANEL WITH FAIL LED
- 64 BITS OF HIGH VOLTAGE INPUTS
- HIGH RELIABILITY DIN TYPE I/O CONNECTORS
- DOUBLE EUROCARD FORM FACTOR
- VMEbus COMPATIBLE
- COMPATIBLE WITH VMIC's INTELLIGENT I/O CONTROLLER PRODUCT LINE

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Huntsville, Alabama 35803-3308
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1-800-322-3616

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VMIVME-1110
64-BIT HIGH VOLTAGE DIGITAL INPUT MEGAMODULE™

SPECIFICATIONS

FUNCTIONAL CHARACTERISTICS

COMPLIANCE:	This product is VMEbus specification compatible with the following mnemonics: A16: D32, D16, D08 (EO): 29, 2D: Slave
INPUT CONNECTOR TYPE:	Dual 64-pin connectors - DIN 41612
I/O ORGANIZATION:	Eight input ports, eight bits wide. Addressable to any address within short supervisory or short nonprivileged I/O map. Control and Status Register (CSR) address is independently selectable.
ADDRESSING SCHEME:	Eight ports individually addressable on 8-, 16-, or 32-bit boundaries. One CSR addressable on an 8-bit boundary. Thirteen DIP switches provide unlimited short data I/O address map selection.
SIGNAL CONDITIONING REFERENCE VOLTAGE:	Input signal conditioning circuitry is designed such that a reference voltage must be applied to each input comparator. This voltage may be derived from the +5 V power supply or an external voltage applied to the board via the P2 connector. This voltage may be 50 V maximum (depending on option ordered).
SIGNAL CONDITIONING FILTER OPTION:	The board may be ordered with one of three nominal time constant (2 µs, 10 µs, or 5 ms) filter capacitors for the input signal conditioning circuits.
BUILT-IN-TEST FEATURES:	This board is designed with internal self-test logic that exercises all active components. Special isolation registers are provided to generate comparator offsets such that worst-case bit patterns may be used as a "health test" during real-time or off-line operation. A special test mode bit is provided in the CSR that enables the output test registers. A front panel Fail LED is provided that is illuminated at power-up and extinguished under program control upon successful completion of user-defined diagnostics.
INPUT CIRCUIT CONFIGURATIONS:	Voltage sensing/voltage source Contact sensing/current sink or logic-level input

PHYSICAL/ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE:	0 to 55 °C, operating -20 to 85 °C, storage
HUMIDITY RANGE:	20 to 80 percent relative, noncondensing
ALTITUDE:	Operation to 10,000 feet
COOLING:	Forced air convection
DIMENSIONS:	Double height Eurocard (6U) 160 mm x 233.35 mm

POWER REQUIREMENTS

3 A @ +5 VDC

Vext: See Table 1

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POSITIVE/NEGATIVE TRUE ORDERING INFORMATION

This board may be ordered with positive or negative true data options. A positive true data option means that when the external user equipment presents the board with a high-level voltage, the board will present a logical "one" on the corresponding VMEbus data line.

A negative true board means that when the user's equipment presents the board with a high-level voltage, the board will present a logical "zero" on the corresponding VMEbus data line. However, this also inverts the data going to the control and status register. Thus, the programs controlling the negative true boards must account for this when using the CSR.

APPLICATION AND CONFIGURATION GUIDES

The following Application and Configuration Guides are available from VMIC to assist the user in the selection, specification, and implementation of systems based on VMIC's products.

TITLE	DOCUMENT NO.
Digital Input Board Application Guide	825-000000-000
Change-of-State Application Guide	825-000000-002
Digital I/O (with Built-in-Test) Product Line Description	825-000000-003
Synchro/Resolver (Built-in-Test) Subsystem Configuration Guide	825-000000-004
Analog I/O Products (with Built-in-Test) Configuration Guide	825-000000-005
Connector and I/O Cable Application Guide	825-000000-006

INTELLIGENT I/O CONTROLLER

The VMIVME-1110 is compatible with VMIC's family of Intelligent I/O Controllers which provide the user with a turnkey I/O subsystem when used with a variety of VMIC's board level products.

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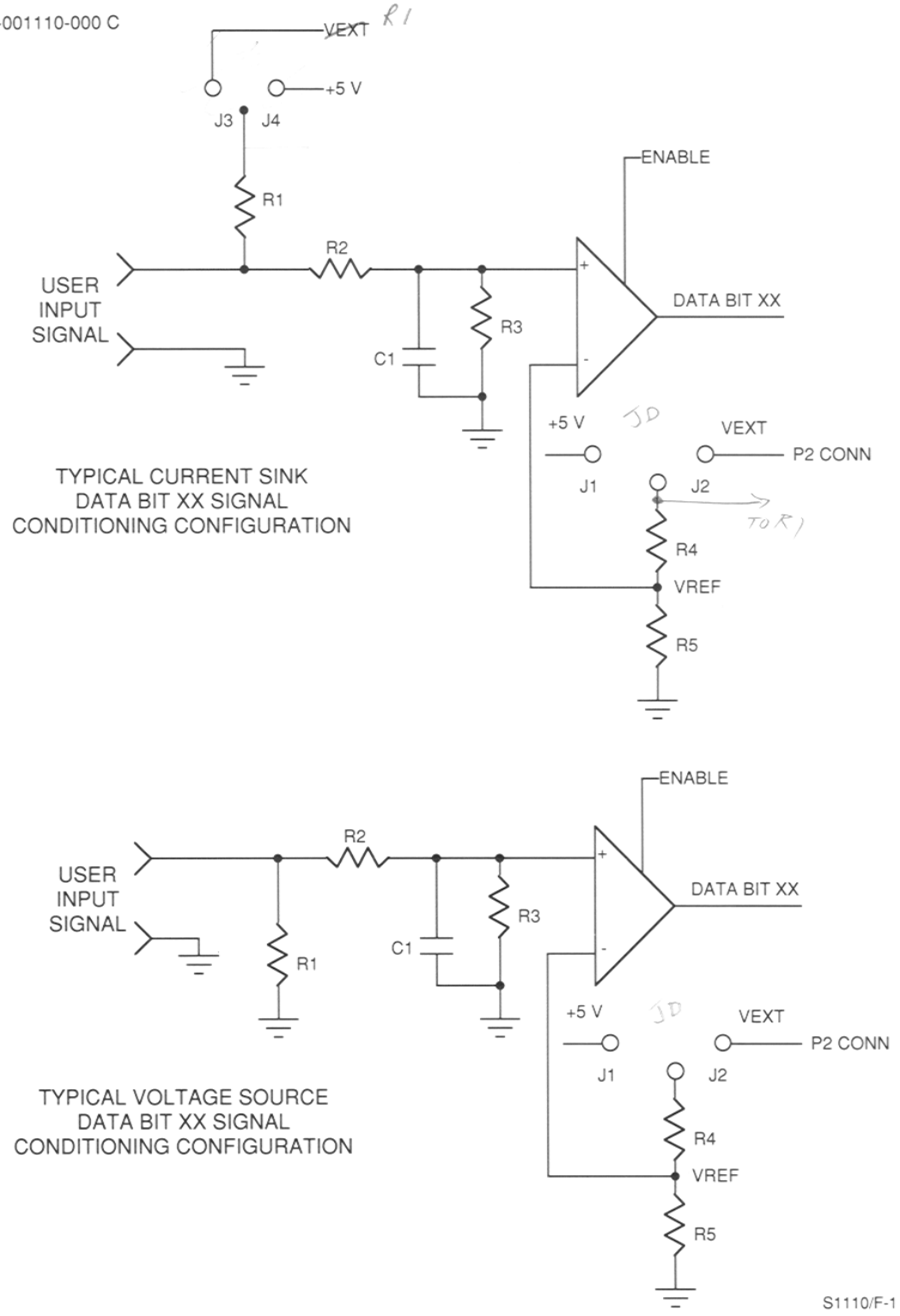


Figure 1. High Voltage Digital Input Configurations

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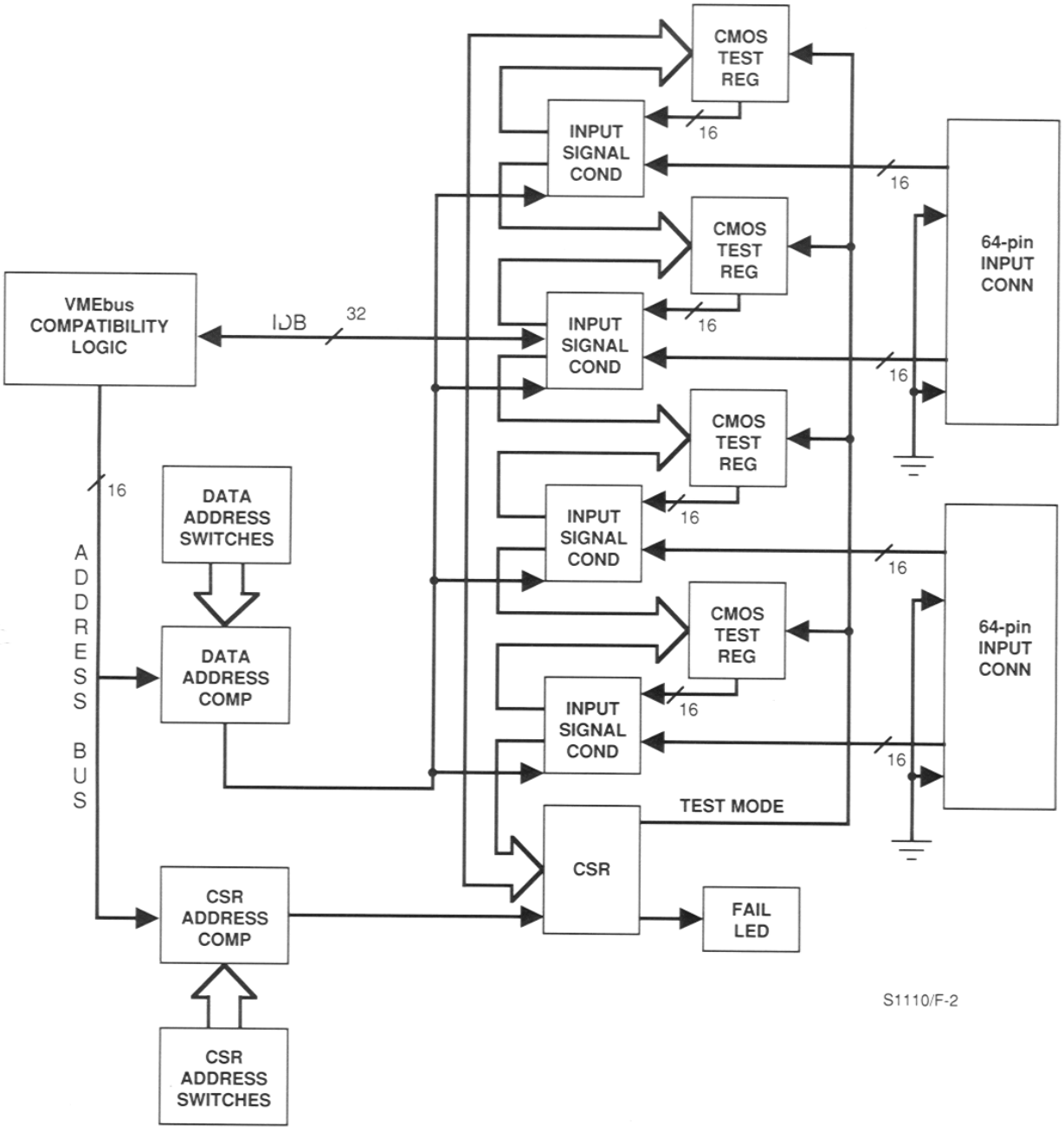


Figure 2. VMIVME-1110 High Voltage Digital Input Megamodule™

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Table 1. Detailed Specifications

LOGIC INPUT SPECIFICATIONS (TTL COMP)

Voltage Range 0 to 5 VDC (Any Data Input)
Data Input

PARAMETER	CONDITION	MIN	TYP	MAX	UNIT
V_{IH}	———	2.4	1.7	—	V
V_{IL}	———	—	1.5	0.8	V
I_{IH}	VIN = 2.4 V	—	—	200	µA
I_{IL}	VIN = 0.0 V	—	—	40	µA

5 TO 12 VDC DIGITAL INPUTS VOLTAGE SOURCE OR CURRENT SINK

Maximum Data Input Range 0 to 17 VDC

VEXT = 5 VDC IEXT - 150 mA maximum
VEXT = 12 VDC IEXT - 350 mA maximum

PARAMETER	CONDITION	MIN	TYP	MAX	UNIT
V_{IH}	VEXT = 5 VDC VEXT = 12 VDC	4.0 8.8	2.9 6.9	— —	V V
V_{IL}	VEXT = 5 VDC VEXT = 12 VDC	— —	2.7 6.7	1.5 4.8	V V
I_{IH}	VEXT = 5 VDC, VIN = 5.0 V VEXT = 12 VDC, VIN = 12.0 V (VOLTAGE SOURCE OPTIONS)	— —	— —	2.8 6.5	mA mA
I_{IL}	VEXT = 5 VDC, VIN = 0.0 V VEXT = 12 VDC, VIN = 0.0 V (CURRENT SINK OPTIONS)	— —	— —	2.1 4.5	mA mA

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Table 1. Detailed Specifications (Concluded)

24 VDC DIGITAL INPUT VOLTAGE SOURCE OR CURRENT SINK

Maximum Data Input Range 0 to 35 VDC

VEXT = 24 VDC IEXT = 200 mA maximum

PARAMETER	CONDITION	MIN	TYP	MAX	UNIT
V_{IH}	VEXT = 24 VDC	14.0	9.9	—	V
V_{IL}	VEXT = 24 VDC	—	9.7	5.6	V
I_{IH}	VEXT = 24 VDC, VIN = 2.40 V (VOLTAGE SOURCE OPTION)	—	—	3.5	mA
I_{IL}	VEXT = 24 VDC, VIN = 0.0 V (CURRENT SINK OPTION)	—	—	2.1	mA

48 VDC DIGITAL INPUTS

Maximum Data Input Range 0 to 50 VDC

VEXT = 48 VDC IEXT = 200 mA

PARAMETER	CONDITION	MIN	TYP	MAX	UNIT
V_{IH}	VEXT = 48 VDC	25.5	19.0	—	V
V_{IL}	VEXT = 48 VDC	—	18.8	11.3	V
I_{IH}	VEXT = 48 VDC, VIN = 48 V (VOLTAGE SOURCE OPTION)	—	—	4.0	mA
I_{IL}	VEXT = 48 VDC, VIN = 0.0 V (VOLTAGE SOURCE OPTION)	—	—	2.5	mA

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64-bit HIGH-VOLTAGE DIGITAL INPUT MEGAMODULE™

ORDERING INFORMATION

VMIVME - 1110 - A B C

- **C** — FILTER/CONNECTOR TYPE
  - 0 = No Filter, Standard Connector
  - 1 = 2 µs, Standard Connector
  - 2 =10 µs, Standard Connector
  - 3 = 5 ms, Standard Connector
  - 4 = No Filter, Extended Ground Pin Connectors
  - 5 = 2 µs, Extended Ground Pin Connectors
  - 6 =10 µs, Extended Ground Pin Connectors
  - 7= 5 ms, Extended Ground Pin Connectors
- **B** — INPUT VOLTAGE
  - 0 = TTL
  - 1 = 5, 12 VDC
  - 2 = Not Used
  - 3 = 24 VDC
  - 4 = 48 VDC
- **A** — DATA POLARITY
  - 1 = Positive True
  - 2 = Negative True
- **1110** — MODEL NO.

CONNECTOR DATA

COMPATIBLE CABLE CONNECTOR	PANDUIT NO. 120-964-435E
STRAIN RELIEF	PANDUIT NO. 100-000-032
P.C. BOARD CONNECTOR	PANDUIT NO. 120-964-033A

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