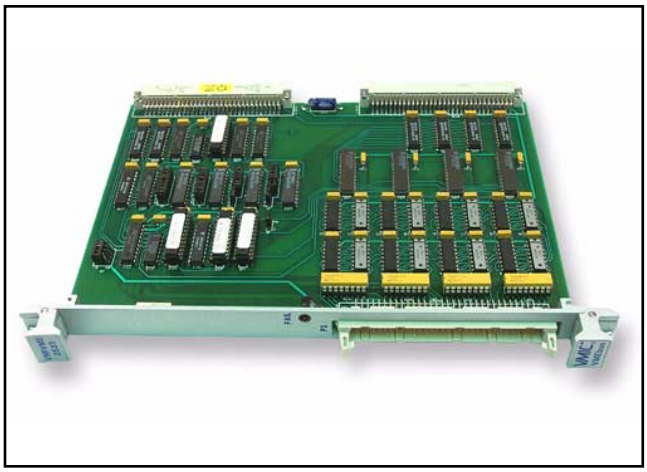
VMIVME-2533
32-bit Differential Digital Output Board

- 32 bits of differential voltage outputs
- RS-422/RS-485 compatible drivers and receivers
- 8-, 16-, or 32-bit transfers
- Each data bit in each 16-bit data word represents one discrete line pair
- Built-in-Test (all active components are tested)
- Front panel with fail LED
- Compatible with VMIC's family of Intelligent I/O Controllers
- Software compatible with VMIVME-2532
- Powerup replacement option



FUNCTIONAL CHARACTERISTICS

Compatibility: VMEbus specification compatible double height form factor

I/O Organization: Four ports eight bits wide. Addressable to any address within short supervisory or short nonprivileged I/O map. Ports are individually addressable as 8-, 16-, or 32-bit words.

Built-in-Test Features: This board is designed with internal self-test logic. The VMIVME-2533 supports real-time and off-line loopback testing to support fault detection and isolation to board/bit level.

Address Modifier Codes: Jumper-selectable for short supervisory and/or short nonprivileged I/O access. Factory configured for short supervisory I/O access.

Control and Status Register (CSR): A CSR is provided to control the front panel Fail LED and internal Built-in-Test features

Board Address: Address selection jumpers are provided to select board addresses within the short I/O memory map.

Fail LED: A front panel Fail LED is provided. The LED is illuminated at power up and extinguished under program control upon a successful diagnostic execution.

PHYSICAL/ENVIRONMENTAL

Temperature Range: 0 to 55 °C, operating -20 to 85 °C, storage

Relative Humidity Range: 20 to 80 percent, noncondensing

Cooling: Convection

Power Requirements: +5 V at 3.786 A maximum

MTBF: 224,000 hours (217F)

TRADEMARKS

Ordering Options								
June 7, 1999 800-002533-000 E		A	B	C	–	D	E	F
VMIVME-2533	–	0		0	–			

A = 0 (Option reserved for future use)
B = Termination Resistors
0 = Without Termination Resistors
1 = With 120 Ω Termination Resistors*
C = 0 (Option reserved for future use)

Note

* The termination resistors are socketed and can be removed if termination at the transmission side is not required.

Connector Data

Compatible Cable Connector	Panduit No. 120-964-435
Strain Relief	Panduit No. 100-000-072
PC Board Connector	Panduit No. 120-964-033A

Note

Panduit is also known as ITW/Pancon.

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
E-mail: info@vmic.com Web Address: www.vmic.com

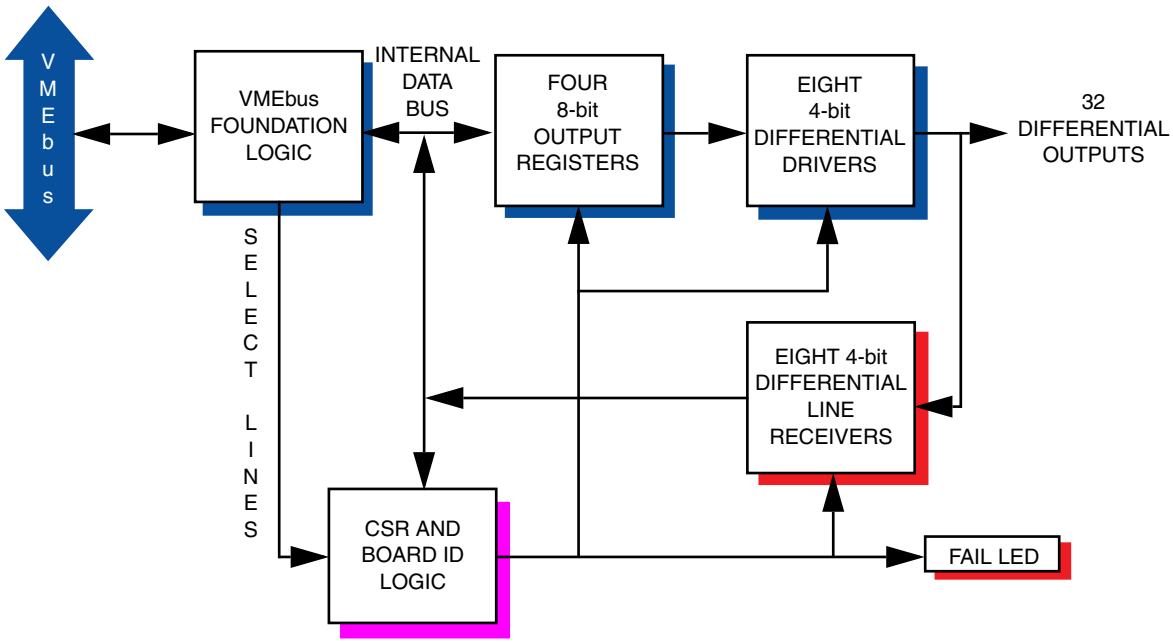


Figure 1. VMIVME-2533 Functional Block Diagram

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 Board 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