VMIC • 12090 South Memorial Parkway • Huntsville, Alabama 35803-3308

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

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<thead>
<tr>
<th>Ordering Options</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
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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

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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:

<table>
<thead>
<tr>
<th>Title</th>
<th>Document No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Input Board Application Guide</td>
<td>825-000000-000</td>
</tr>
<tr>
<td>Change-of-State Board Application Guide</td>
<td>825-000000-002</td>
</tr>
<tr>
<td>Digital I/O (with Built-in-Test) Product Line Description</td>
<td>825-000000-003</td>
</tr>
<tr>
<td>Synchro/Resolver (Built-in-Test) Subsystem Configuration Guide</td>
<td>825-000000-004</td>
</tr>
<tr>
<td>Analog I/O Products (with Built-in-Test) Configuration Guide</td>
<td>825-000000-005</td>
</tr>
<tr>
<td>Connector and I/O Cable Application Guide</td>
<td>825-000000-006</td>
</tr>
</tbody>
</table>