



## MVME-2170 32/64-bit Optically Isolated Digital Output Module

### Specifications

**Number of Digital Output Channels** - 32 or 64

**I/O Configuration** – Up to Eight 8-bit ports

**Addressing Scheme** – 32-byte individually addressable on 8-, 16-, or 32-bit boundaries

**Output Voltage Range** - 5-60VDC

**Base Address and Control and Status Register** - Base address, Short/Standard I/O Access, all set by user-selectable jumpers (MERLIN Improvement – SW select and set available)

**Output Drivers** – Provides for 1 A surge current prior to inrush current shutdown

**Electronic Switch Access** – via P2 connector

**Data Polarity** – Positive True

**BIT Built-In-Test** – All circuit functions are tested via the BIT feature; excluding the output driver transistor

**Visual Indicator** – Front Panel LED to monitor write data functionality

### VME Specifications

Meets VMEbus Specifications Revision C.1 IEEE Std. 1014-1987, IEC 821, IEC 297

A16:D16/D08 (EO) :Slave:39/3D:29/2D 1K consecutive byte locations, base address configurable within 64K Short I/O space.

**Board Size** - 6U

### Power Requirements

+5 VDC @ 1.0 A, typical

### Environmental

Operating Temperature: -20 to 85 °C

Storage Temperature: -40 to 125 °C

Shock: 25g, 11ms on all axis

The MVME-2170 offers the following features:

The Merlin product is a drop-in replacement for the GE/Abaco VMIVME-2170. It works with the customer's existing software and cabling. No changes are required.

The MVME-2170 may be configured as a dual VMIVME-2170. A second I/O connector offers an additional 32 outputs. To the host processor, the Merlin MVME-2170 will appear as two separate VMIVME-2170's.

The MVME-2170 offers the following improvements over the original VMIVME-2170:

- Output Voltage up to 60V
- Output Current up to 1A.

As with all Merlin Embedded DIR products, the **MVME2170** has the same, or better, functional performance than the product it is replacing. All Merlin Embedded products are backed by a 2-year warranty and 15 years of life-cycle support. The user will not have to take on any obsolescence issues when utilizing Merlin Embedded products.

### Merlin Embedded

10415 Willow Ridge Loop  
Orlando, FL 32825

[www.merlinembedded.com](http://www.merlinembedded.com)

866-700-7704 Fax: 407-574-5694

sales@merlinembedded.com

All trademarks are the property of their respective owner. Please note that Merlin Embedded is not associated with any of the companies for whom our products are drop-in replacements