2128 128-bit High-Voltage Digital Output Module

Specifications

Number of Digital Output Channels - 128

I/O Configuration – 16-Output ports, each port is 8-bits wide. Addressable through standard- or, short-supervisory I/O map

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

Output Voltage Range - 5-48VDC

Base Address and Control and Status Register - Base address, Short/Standard I/O Access, all set by user-selectable jumpers (MERLIN Improvement – S/W 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
A24:A16:D32/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 @ 3.0 A, typical

Environmental

Operating Temperature: -20 to 85 °C
Storage Temperature: -40 to 125 °C
Shock: 25g, 11ms on all axis

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The MVME-2128 offers the following features:

The unit may be configured as a drop-in replacement for the GE-IP VME-2128

Provides 128 channels of high-voltage and/or high-current sink outputs. Open collector output drivers can support output voltages from 5 to 48VDC.

BIT – Built-in-Test Logic. Software controlled to verify operation of each channel

Auto shutdown protection on surge current and thermal

Inductive flyback protection

- Conformal coating is standard on all units.
- Conduction-cooled version available.

As with all Merlin Embedded DIR products, the **MVME2128** 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.