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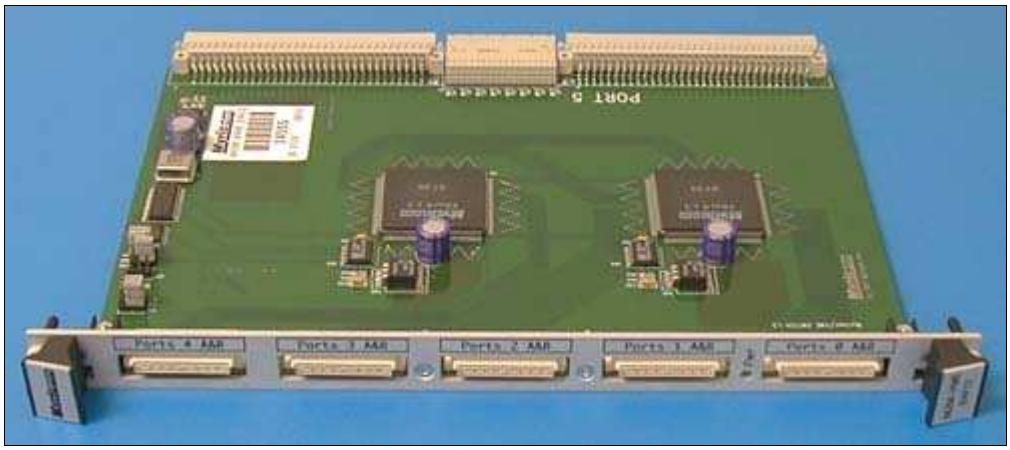
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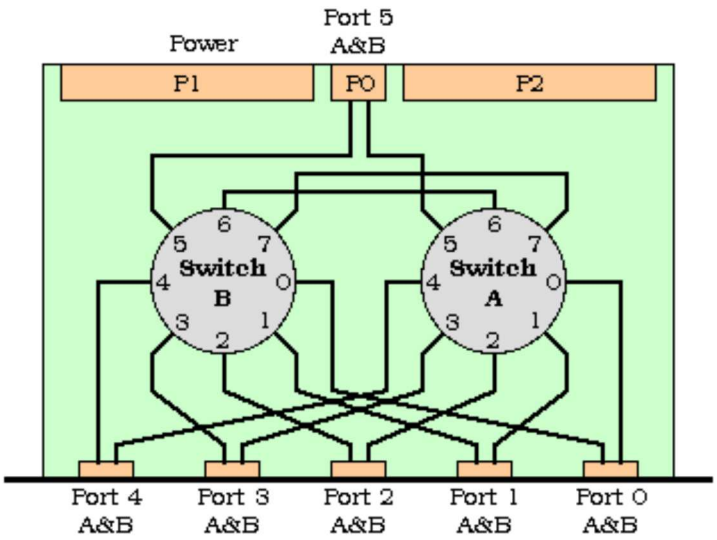
Find the *Myricom M2M-VME-SW10* at our website: *Click HERE*

M2M-VME-SW12

Dual-8-Port VME-form-factor Myrinet-SAN Switch

This 6U-VME-form-factor Myrinet-SAN switch was designed for clustering VME single-board computers with PCI-Mezzanine Card Myrinet-SAN/PCI interfaces (M2M-PMC32 or M2M-PMC64A) and Myrinet-SAN cables on the front-panel side of a VME subrack.The switch is powered from the VME-bus +5V pins, provides ten Myrinet-SAN ports on five Myrinet-SAN connectors through the VME front panel, and provides an additional two Myrinet-SAN ports through the VME P0 connector.





Specifications

Internal switches: Two 8-input, 8-output, full-crossbar, Myrinet-SAN switches with each channel operating at 1.28 Gb/s for a total bisection data rate of 10.24 Gb/s for each switch.

Myrinet-SAN ports (12): 1.28+1.28 Gb/s data rate on each of the A and B links of five Myrinet-SAN connectors and of the A & B links through the VME P0 connector. The pairs of links on the front-panel SAN connectors may be split onto separate cables using the M2M-Y splitter.

Cut-through latency: ~100ns for each 8-port switch traversed.

Physical characteristics: 6U VME board.

Power: 6 Watts typical from the VME 5V pins.

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Notes on the P0 ports: The ports on the P0 connector need not be used in systems employing Myrinet-SAN interconnect only on the VME front panel. In fact, the P0 connector on the M2M-VME-SW12 may interfere with stiffener bars in some VME backplanes. **Please order this product under the M2M-VME-SW10 part number if the P0 connector should not be installed.** Myricom will install the P0 connector at a later time upon request.

The pinout employed to carry two Myrinet-SAN links through P0 conforms to the ANSI Myrinet-on-VME standard. This scheme allows VME boards such as those supplied by CSPI to communicate through a Myrinet-SAN switching fabric either on the VME front panel or on the backplane side of a VME subrack.

When used with VME backplanes equipped with J0-RJ0 connectors, the two Myrinet-SAN links on P0 connect through the P0-J0-RJ0 connector stackup to the backplane. One may then insert an RP0-SAN adapter into RJ0 to allow the two links to be carried on a standard Myrinet-SAN cable. These links -- as usual, referred to as the A & B links -- can attach through the SAN cable to:

- the P0 ports of another VME board,
- external Myrinet-SAN switches,
- bulkhead Myrinet-SAN switches, or
- bulkhead SAN-LAN converters.

The P0 ports also allow backplane-overlay Myrinet switches, which may, in turn, be connected to each other or as above with Myrinet-SAN cables.

The M2M-VME-SW12 is supplied under a different part number by CSPI, which is also a source for bulkhead SAN-LAN converters and for backplane-overlay Myrinet-SAN switches.

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