

Alacron provides high speed LAN/SAN connections through a combination of PMC and VME interfaces. These boards can be used to build gigabit-per-second System Area Networks (SAN), allowing several computers to work as a system cluster. Individual computers containing the SAN/PMC interface can be linked using the PMC SAN Switch Module.

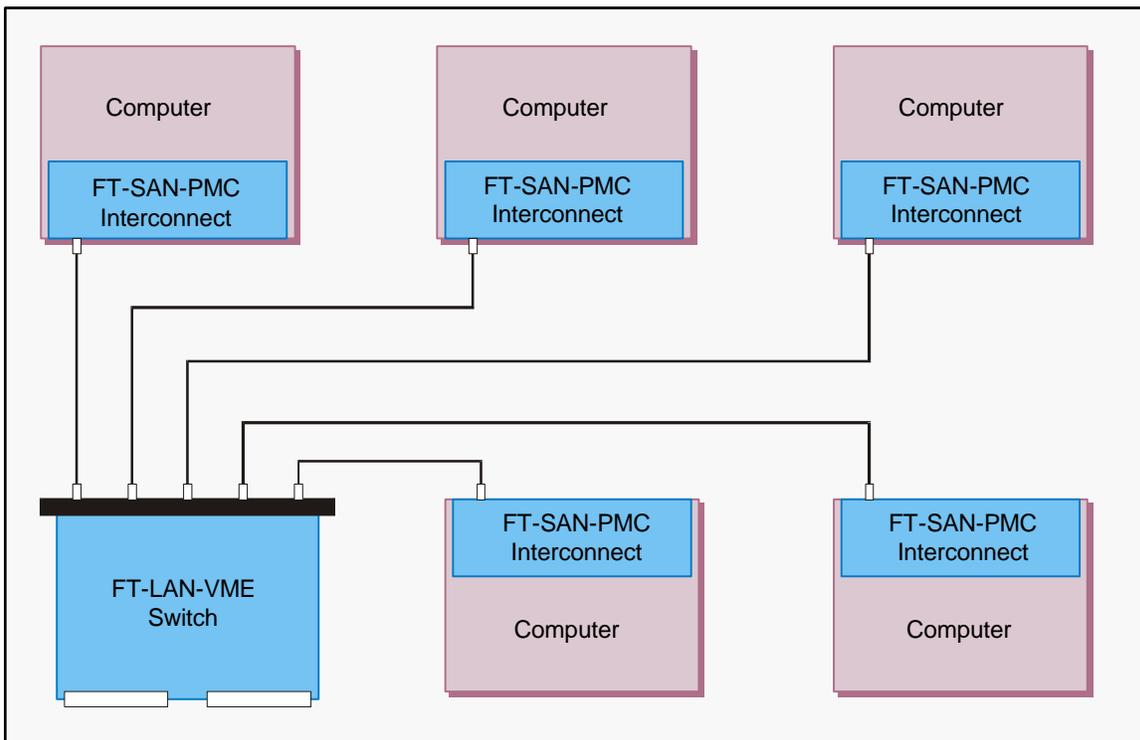
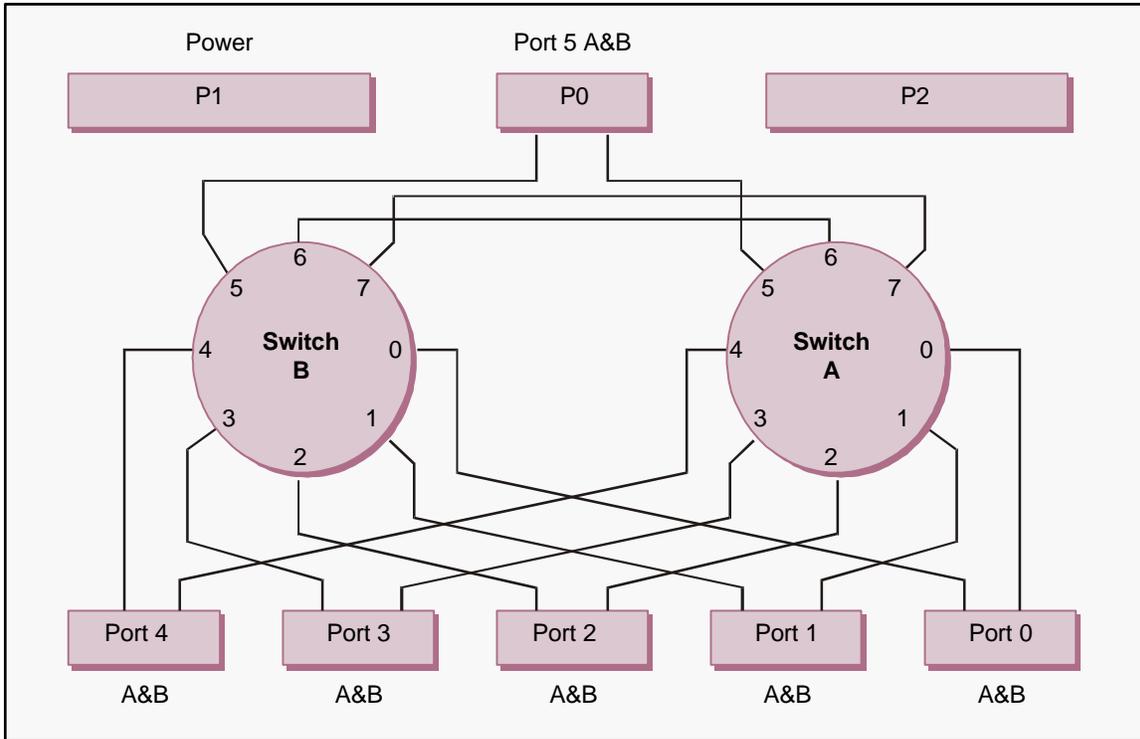
This 6U-VME-form-factor Myrinet-SAN switch is intended for clustering VME single-board computers that have PMC Myrinet-SAN/PCI interfaces. The two large chips (Myricom XBar8 1.1 chips) are 8-port Myrinet-SAN switches. The A links of each of the 5 front-panel SAN connectors are connected as shown below to ports 0-4 of the A switch, the B links to the corresponding ports of the B switch, and the two switches are bridged on ports 6 and 7.

Note: The remaining SAN ports 5 of switches A and B are brought to a pair of links through the provisional VME P0

connector. This Myrinet-SAN-through-P0 scheme allows connection to backplane-overlay Myrinet switches.

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 (10) ... 1.28+1.28 Gb/s data rate on each of the A and B links of five Myrinet-SAN connectors. These links may be split onto separate cables using the M2M-Y splitter.
- Physical characteristics... 6U VME board.
- Power 6 Watts typical from the VME 5V pins.



Typical SAN/LAN Configuration