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MODELS 418 & 418-50

VMEbus Repeaters

Abaco's Model 418 and 418-50 are high-performance Repeaters for VMEbus systems. A Abaco Repeater extends a VMEbus backplane from one chassis to a second VMEbus chassis. Both chassis operate as one unit, controlled by the system controller in the primary chassis. The primary chassis can operate as a stand-alone system; it does not require the secondary chassis. The secondary chassis does not have a system controller; consequently, it cannot operate without the primary chassis.

Both Repeater models are functionally the same. Model 418 includes two size 6U Repeater cards; Model 418-50 has one size 6U Repeater card and one Repeater card installed in a 6U/9U metal holder.

The Repeaters include an optional software controlled enable/disable function. A write to the Repeater I/O register switches the Repeater on or off. The enable/disable feature can be disabled by a jumper so that the Repeater does not use any I/O addresses and its operation is transparent to the VMEbus systems.

Model 418 and Model 418-50 Repeaters support:

- VME-32 and VME-64 (VME64 Revision D1.4 enhancements).
- D8 (EO), D16, D32, and D64 VMEbus data sizes.
- A16, A24, A32, and A64 address sizes.
- BLT, RMW, and UAT transfer types.
- ROAK, ROR, RORA, and RWD release.
- SGL, PRI, and RRS arbiters.

Abaco Repeaters provide a glitch-free environment on the primary chassis during power on/off on the secondary chassis. The Repeaters also handle bus requests, bus grants, and interrupts that could cause VMEbus timing errors on the primary chassis during power down of the secondary chassis.

Model 418

Includes two 6U size VMEbus Repeatercards. Two cables are required but are ordered separately so that you can specify the appropriate length for your installation.

Model 418-50

Includes one 6U size VMEbus Repeater card and one Repeater card installed in a 6U-9U metal holder. Two cables are required but are ordered separately so that you can specify the appropriate length for your installation.

Signals

All signals driven from chassis to chassis are retimed on the Repeater card in the receiving chassis. This ensures that VMEbus timing specifications are not compromised by added delays inherent in the Repeater logic.

The maximum signal delay from chassis to chassis, in each direction is 90 nsec; the total round-trip delay is 180 nsec.

Models 418 and 418-50 use trapezoidal transceiver circuitry on the cable control signals to reduce crosstalk and to ensure signal integrity.

Configuration

The Repeater ca rds are supplied with user selectable jumpers for selecting:

- The primary/secondary chassis (P/S).
- Status/control enable (S/C).
- I/O address select (I/O).
- System failure enable (SYS).

The primary/secondary chassis setting configures a Repeater card for either primary or secondary mode.

When the status/control enable jumper position is OFF, the Repeater system is functional and transparent, and the software control register is inactivated.

When the status/control enable jumper is ON, the Repeater function can be enabled or disabled by writes to the selected Repeater I/O address. Repeater status information is also available.

When the system failure enable jumper is ON, the first SYSFAIL signal is not repeated to the primary chassis upon power up of the secondary chassis.

abaco SYSTEMS

MODELS 418 & 418-50 *VMEbus Repeaters*

Technical Highlights

Enable/disable function under program control.

- Supports VME-64 and VME-32.
- Bus masters and bus slaves can reside in either the primary chassis or the secondary chassis.
- Power requirements: 2.75A at 5V.
- Environment - Temperature: 0° to 60°C operating; -40° to 85°C storage. Humidity: 0% to 90% non-condensing.

Required Components

- Two identical 6U VMEbus Repeater cards (Model 418), or one 6U VMEbus Repeater card and one 6U Repeater card installed in a 6U/9U holder (Model 418-50).
- Two round EMI-shielded copper-conductor cables to interconnect the Repeater cards; 8-foot and 25-foot standard lengths are available from Abaco.

Each Repeater package includes two Repeater cards and a manual. Cables are purchased separately.

Cable

Standard Abaco round EMI-shielded copper-conductor cable features:

- Subminiature D connectors.
- 8-foot (Model 400-135) and 25-foot (Model 400-136).

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