TAXI Adapter VME Board for C40 Communication Ports

Features

- Long distance optical link for C40 comm ports
- 1300 nm fiber optic transmitter and receiver
- ST fiber optic connectors
- Up to 12.5 MB/sec data transfer rate
- Two transmit/receive channels
- Simplex data/command mode
- Full duplex hardware handshake to prevent data overruns
- Standard 6U VMEbus board, single slot; board 160 mm (6.3 in.) x 233.5 mm (9.2 in.), panel 0.8 in. wide

Ordering Information

Model	Description
6110	TAXI Adapter for C40 Comm Ports

General Information

Model 6110 is a 6U VMEbus board which allows high-speed long distance connections between Pentek C40 DSP processor products and C40-compatible peripherals, such as Pentek data converters, telecom interfaces, SCSI controllers and other products.

Optically Isolated and Fast

Model 6110 uses high-performance 1300 nm fiber optic transmitters and receivers, which accommodate low-cost fiber optic cable with ST coaxial connectors.

The use of optical links eliminates ground loops and noise. Data rates up to 12.5 MB/sec are supported.

The receive channel features a 1 ksample FIFO to provide an elastic store for the receiving comm port.

The VMEbus interface is used to initialize the board, generate interrupts or error conditions, and to monitor the status of both transmit and receive sections.

Flexible Configuration

Featuring two complete transmit/receive channels, Model 6110 can support many different fiber optic configurations.

Typically, one Model 6110 is installed in each of two VME card cages which may be physically separated by as much as several kilometers. On the transmit side, output data from one C40 comm port is connected to the input comm port of the 6110.

In the receiving card cage, the comm port output of the 6110 is connected to an input comm port of a C40 device. Note that one of the VMEbus devices can be a comm port based peripheral without a C40 processor.

If a transmit and receive cable pair is installed between two Model 6110's, bidirectional hardware handshaking for flow control can be enabled. This avoids data overruns due to a busy comm port on the receiving C40 device.

Block Diagram, Model 6110