General Information

Model 4202 MIX Baseboard converts standard-size Pentek MIX modules to operate as slave VMEbus boards. MIX bus masters can initiate data transfers among MIX modules. Bidirectional 32-bit data transfers are supported, and VMEbus interrupt generation facilities are provided for each module.

Up to three MIX modules may be stacked on the 4202. The first module nests in the 4202 so that together they occupy only one 6U VME card cage slot. Each additional module occupies one more slot, with easy access to front panel I/O connectors.

VMEbus Interface

The VMEbus interface on the Model 4202 maps the address space of the MIX bus into the VMEbus, thereby enabling full memory-mapped access to all modules on the MIX bus from the VMEbus. MIX modules appear as slave devices.

MIX Bus Interface

The MIX bus appears as a VMEbus memory slave device, relocatable anywhere within A32 or A24 address space by using on-board jumpers. In order to simplify access of its control, memory and data functions, each MIX module occupies a specific region of this memory space.

MIX Bus Operation

The MIX bus can also be used for dedicated high-speed data transfers between MIX modules conducted by any MIX module having MIX bus master capability including all of Pentek's C40 MIX modules.

Powerful, autonomous MIX subsystems can be created in which the VMEbus interface may only be used for control and initialization.

For example, a C40 processor MIX module can collect data from an A/D converter module, perform complex DSP tasks, and then pass the results to a SCSI controller module for storage to a hard disk.

Specifications

MIX interface: 32 bit, data and address; master and slave operation, conforms to Intel MIX baseboard specifications.
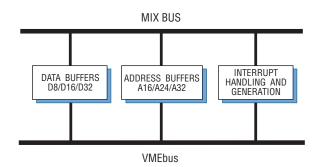**VME interface:** slave only within A32 or A24 address space
Power: 1.6 A at +5 V dc
Size: standard 6U VMEbus board, single slot; board 160 mm (6.3 in.) x 233.5 mm (9.2 in.)

Features

- Single-slot conversion of standard-size Pentek MIX modules to VME boards
- VMEbus slave interface
- Standalone VMEbus operation of MIX modules
- Most economical conversion

Block Diagram, Model 4202

Ordering Information

Model	Description
4202	MIX-VME Baseboard, Slave Interface

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