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Loughborough Sound Images plc

Development Hardware/Plug-In VMEbus Board

Product Name: **DBV42 Modular TMS320C4x Board with Shared Memory and VMEbus Master/Slave Interface**
Platforms Supported: VMEbus
Devices Supported: TMS320C4x

Features and Benefits

- 6U VMEbus board with master/slave interface
- Shared SRAM and DRAM accessible by both modules and VMEbus
- Eight uncommitted buffered communication ports for system expansion
- Real-time I/O expansion via dBeX32 interface
- Modular VMEbus P2 interface for further system expansion

Product Description

Designed to serve as either a powerful standalone signal-processing system or as an I/O-intensive node within larger multi-processing configurations, DBV42 accommodates two TIM-40-compliant modules and provides large-capacity shared memory, accessible from either module and from the VMEbus.

Four of the six TMS320C4x communication ports from each module site are buffered and made available to the user at latching front-panel connectors. Optionally, four of the eight can be routed to the VMEbus P2 connector for inter-board communications via the backplane.

Multiprocessor systems can be formed by inter-connecting several DBV42s, along with the high-performance four-site DBV44 board which has been optimized to provide high-density processor nodes.

Each module site also has communication port access from the VMEbus via a link interface adapter. This enables each module to be directly accessed by any other VME board without relying on message passing or the potential bottleneck of shared memory. The DBV42's full master/slave interface often removes the need for a separate VMEbus controller.

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