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Find the *Kontron / Thales / Cetia DB-ETH* at our website: ***Click HERE***

DB-ETH

Ethernet Dbus-68 Module
On-Board DMA
64 KB SRAM

- Operates with any Processor with a Dbus-68 Interface
- 32-Bit Data Path to Host
- 64 KB Dual-Accessed SRAM
- Uses the National Semiconductor Network Interface Controller (DP8390 NIC)
  - Full IEEE 802.3 Standards
  - Versatile Buffer Management
  - On-Board DMA
  - Physical, Multicast, and Broadcast Address Modes
  - Network Statistics Counters
  - Three Levels of Loopback for Verification and Test
  - 16-Byte FIFO with Programmable Thresholds
- Local Bus Dedicated to NIC
- Interlaced Local Bus Arbitration
- Front Panel or Optional P2 I/O (6U Host Only)
- On-Board PROM with Ethernet Address Identification

The DB-ETH, a high-performance Ethernet module, adds local area networking to any Dbus-68 host.

Limited Processor Intrusion

The DB-ETH is an ideal Ethernet interface for networked real-time applications. The DB-ETH requires a minimal amount of CPU interaction and bus taxation. This feature allows sensitive real-time tasks to run uninterrupted during Ethernet data transfers. The DB-ETH's local bus supports a DMA channel and high-speed SRAM buffers, eliminating the typical processor interaction during data packet movements. In addition, the DP8390 provides several advanced performance features such as multiple Ethernet retransmissions before interrupting the CPU host.

Interlaced Local Bus Arbitration

An interlaced arbitration scheme for the DB-ETH's local bus optimizes the host processor access time during Ethernet inactivity while eliminating data overruns/underruns during Ethernet transfers. By eliminating data overruns/underruns, retrys are reduced, thus optimizing Ethernet performance locally and at each node on the network.

Ethernet Address Identification

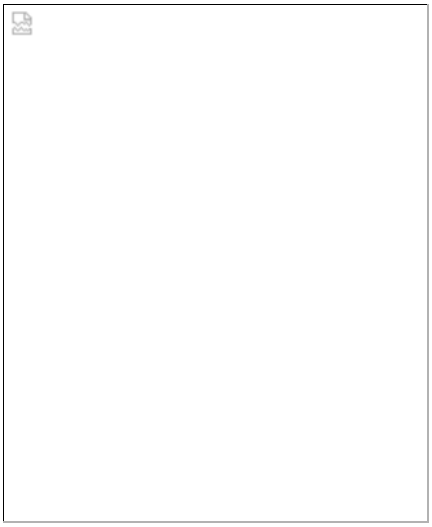
The DB-ETH also contains an on-board PROM for storing the specific Ethernet address assigned to each DB-ETH. Custom identification codes can also be programmed at MATRIX for customer specific applications.

Cost-Effective Solution

The DB-ETH module is one in a series of Dbus-68 expansion boards providing reliable, cost-effective alternatives to full-sized special function boards. While full-sized boards offer the functionality, they require additional VMEbus slots and VMEbus interactions. Dbus-68 modules typically fit into the same slot as the host CPU, provide faster local bus access, and provide the same functionality at less cost.

Software Support

Real-time operating systems are supported by MATRIX and third-party resources. Contact MATRIX for assistance with software selection.



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