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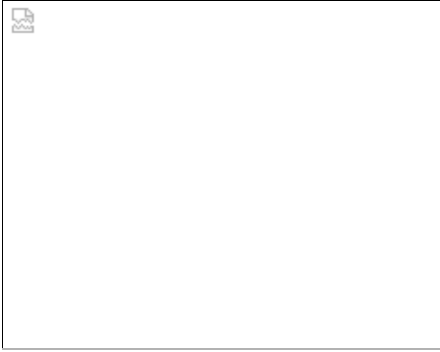
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VME64/RACEway Fibre Channel Interface FC-1930



The Myriad Logic FC-1930 is an intelligent 100 Mbyte/second ANSI-standard Fibre Channel (FC) controller for VME64 and RACEway systems. Designed to interconnect high-throughput, real-time systems, RAID's, and general purpose computers the FC-1930 is capable of sustaining data transfer rates up to 90 Mbytes/second. Compatibility with the widest range of other FC equipment is provided through use of the HP Tachyon FC controller and Gigabit Link Modules (GLMs). FC Class 1 and 2 operation is supported in arbitrated loop, point-to-point, or switched systems.

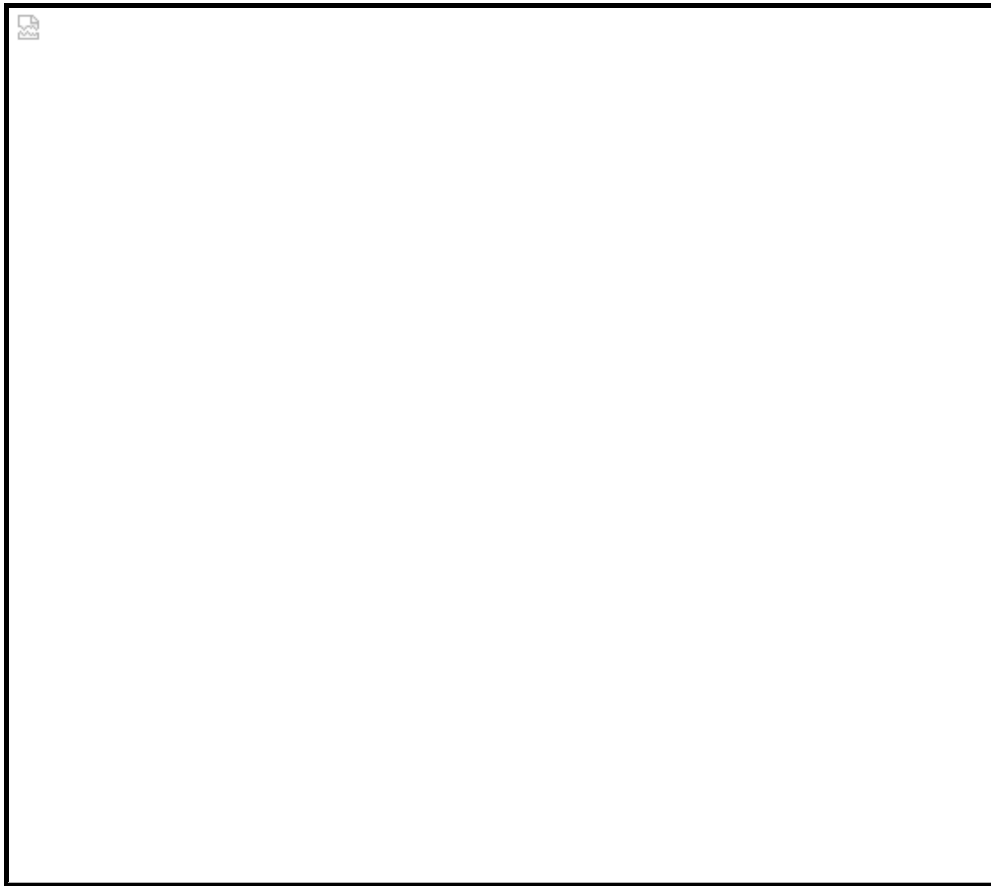
Features

- Sustained transfer rates:
 - 90 Mbytes/second - RACEway / FC
 - 45 Mbytes/second - VME64 / FC
- Software support for SCSI3 RAID and system-to-system operation
- Arbitrated loop and point-to-point connections
- Multi-mode or single-mode fiber options
- Burst transfer rates:
 - 160 Mbytes/second - RACEway
 - 1.0625 Gbit/second - Fibre Channel
- FC Class 1 and 2 compliant
- On-board 68040 control processor providing high-level applications program interface
- Single 6u x 160 mm form factor

Product Description

The Myriad Logic model FC-1930 is a high-performance single-board Fibre Channel (FC) adapter for VME and RACEway systems. Optimized for real-time applications requiring high bandwidth and low latency the FC-1930 provides a fully programmable, ANSI-compliant interface capable of supporting sustained 90 Mbyte/second transfers. The FC-1930 is compatible with FC Class 1 and 2 operation and is designed to connect high-performance real-time VME/RACEway systems to RAID's, general purpose computers, or other real-time systems in arbitrated loop, point-to-point, or switched topologies.

The FC-1930 incorporates a 1.063 Gbit/second Gigabit Link Module (GLM) to implement FC layer 0. The GLM is replaceable allowing the FC-1930 to be configured for operation with multi-mode fiber (for transmission up to 1 km) or single-mode fiber (for transmission up to 10 km). Electrical GLMs are also available and can be used with the FC-1930.



Hewlett Packard's Tachyon is used to implement FC layers 1 and 2 providing compatibility with the widest range of FC equipment. When receiving data the Tachyon accepts incoming FC frames (acknowledging as appropriate) storing data for multi-frame sequences in a 192 kbyte FIFO buffer and data from single frame sequences in a separate 64 kbyte FIFO buffer. Use of two high-speed receive FIFOs enables the FC-1930 to support high throughput (via the multi-frame sequence FIFO) while maintaining the ability to respond quickly to single frame control messages. When transmitting data the Tachyon reads data from the transmit FIFO buffer and handles all aspects of framing before output to the GLM. The Tachyon also implements all functions necessary to support arbitrated loop and broadcast operation.

The FC-1930's primary data path to other boards in the system is via a 160 Mbyte/second RACEway interface. In normal operation the FC-1930 controls RACEway routing and operates as a RACEway master transferring data between the on-board FIFO buffers and other RACEway nodes (either DSP or memory). The FC-1930's RACEway interface is also capable of slave mode operation. In both master and slave mode the FC-1930 is capable of sustaining data rates of 95 Mbytes/second.

A full-featured VME64 master/slave interface is incorporated into the FC-1930 providing VME accessible memory which other VME boards use to issue commands to the FC-1930. The VME interface can also be used as a primary data path for fibre channel data, however in this mode sustainable throughput is limited by VME64 operation to approximately 45 Mbytes/second.

An on-board Motorola 68040 processor controls all aspects of the FC-1930's operation. A comprehensive firmware package for the 68040 is stored on the FC-1930's EPROM, eliminating the need to program the 68040 in the vast majority of applications. The standard firmware package supports efficient bi-directional operation when the FC-1930 is connected to high-performance storage (such as RAID's) and when connected to other real-time or general purpose computers. Please refer to "Controlling the FC-1930 with a VME CPU or DSP" for a description of the FC-1930 applications programming interface.

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Last Updated 11/23/98



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