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Computer Systems, Inc.
MERCURY

MYRIAD-4110 Fibre Channel Type B Daughtercard



- 2.125 Gbits/ sec or 1.0625 Gbits/ sec ANSI-Standard FC Port
- Arbitrated-Loop, Point-to-Point, and Switch Fabric FC Connections
- Supports SCSI-3 to RAID or JBOD
- Command Compatibility with Existing Myriad Logic Products
- Onboard PowerPC 405 Controller for Real-Time Operation
- 64 MB of SDRAM for Onboard Buffering
- Supported by the MYRIAD DX API

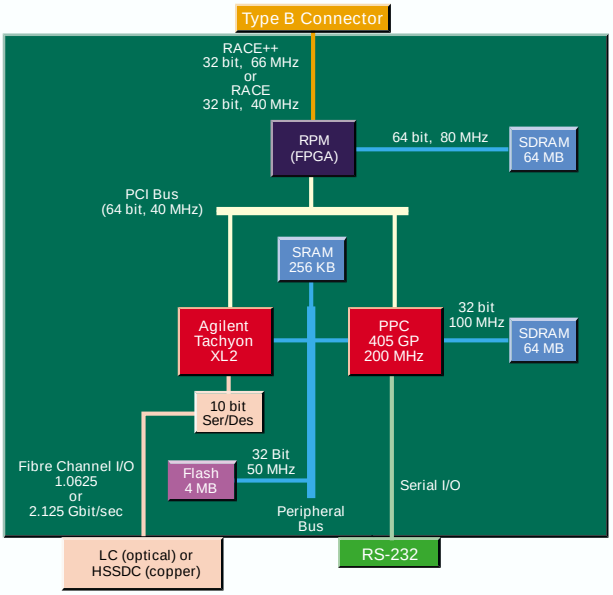
The RACE++™ Series MYRIAD™-4110 Fibre Channel daughtercard provides a 1.0625 Gigabit or 2.125 Gigabit Fibre Channel interface to RACE++ systems through a standard Type B daughtercard location. The RACE++, PCI, and memory (640 MB/ s) interfaces are integrated on a single Xilinx® FPGA called the RPM, enabling full-rate transfers between RACE++ and the SDRAM with simultaneous transfer of data between the PCI bus and the same SDRAM. With sustained data transfer rates of 200 MB/ s, the unit is designed to connect high-throughput, real-time data acquisition systems, RAIDs and general-purpose computers.

Optimized for real-time applications requiring high bandwidth and low latency, the RACE++ Series MYRIAD-4110 daughtercard can be configured with a short wavelength (850nm) dual LC optical connector or a copper HSSDC connector. It is software-configurable for either 1.0625 Gbit/ sec or 2.125 Gbit/ sec operation. An Agilent Tachyon® XL2 integrated controller manages the Fibre Channel interface. To maximize performance, the PowerPC® 405GP processor provides a flash-based, high-level application programming interface (API). Compliant with FC Classes 2 and 3, the RACE++ Series MYRIAD-4110 fully supports arbitrated loop, point-to-point, and switched systems. SCSI initiator and target are both fully supported.

Applications

Mercury offers fully integrated solutions which incorporate ANSI-standard technologies and onboard firmware. Numerous options are available to enhance performance, increase throughput, lower latency, and increase functionality.

RACE++ Series MYRIAD-4110 Board Architecture



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Ideally suited for data acquisition and playback, the RACE++ Series MYRIAD-4110 can sustain over 100 MB/s to and from today's Ciprico and Storage Concepts RAIDs. Next-generation Fibre Channel RAIDs will yield sustained rates to 200 MB/s. Using the MYRIAD-4110 now allows users to scale their systems over time without having to re-engineer. With a simple parameter change in an initialization command, the MYRIAD-4110 changes from 1.0625 Gbit/sec to 2.125 Gbit/sec Fibre Channel. This flexibility provides both cost and technical advantages.

Additionally, the RACE++ Series MYRIAD-4110 can support a wide variety of available JBODs. These low-cost alternatives to RAID are ideal for applications requiring high-performance storage with little concern about drive redundancy.

The RACE++ Series MYRIAD-4110 can also be used as a high-speed, low-latency chassis-to-chassis interconnect between sensors and digital signal processing equipment. Since it can sit directly on a RACE++ Series motherboard, it does not require an additional VME slot and can inject data directly into a compute node.

The RACE++ Series MYRIAD-4110 is designed for Mercury RACE++ Series MCJ6, MCJ9, and PowerStream™ products. Another option is the MYRIAD-4010 Fibre Channel Interface Carrier, which can host two MYRIAD-4110 daughtercards.

The RACE++ Series MYRIAD-4110 is packaged with a MYRIAD DX, an API that looks and functions very much like Mercury's standard DX API. MC/OS™ programmers will be comfortable with this interface software, simplifying the integration of I/O operations into Mercury-based systems. The MYRIAD-4010 and the MYRIAD-4030 also use the MYRIAD DX, providing a uniform interface across the RACE++ Series 4000 family of products.

Hardware Specifications

Processor
- IBM PowerPC 200 MHz 405GP

Memory
- 64 MB SDRAM for buffering
- 32 MB SDRAM for processor

Flash
- 4 MB

Serial connections
- One RS-232 port, 300-38.4k baud

Type B interface
- Compatible with RACE and RACE++

Power requirements
- +3.3 ± 0.165 VDC, 4 amps

Operational temperature
- 0° C to +55° C (commercial)

Ambient storage temperature
- -40° C to +85° C

Relative humidity
- 10% to 90% non-condensing

Altitude
- 0 ft to 10,000 ft

Airflow
- 200 LFM minimum at +55° C

Physical size
- 6u x 160 mm Eurocard

Weight
- 16 oz

Ordering Information

Contact Mercury for a free product demonstration or for ordering information.



Computer Systems, Inc.
MERCURY
The Ultimate Performance Machine

For more information, go to www.mc.com

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