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PCI GP-ECL

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60 Megabit Per Second Synchronous Serial Interface

Features

- 1-4 or 16 channels
- 1-4 data bits per channel (4 channel), 1 clock and 1 data bit per channel (16 channel)
- ECL compatible driver/receivers
- Transfer rates up to 60 Megabits per second per channel
- Implements a high-speed DMA channel between an external device and PCIBus computer
- Customized by a Ram based programmable gate array
- Single short PCIBus slot
- Low cost

Description

The PCI GP-ECL board samples the data on the rising edge of the clock and stores it in host memory by the PCI GP-ECL DMA. It provides a simple, flexible low cost solution for Telemetry, Satellite and Monitoring applications.

In [SSD4](#) mode, the PCI-GP-ECL provides a synchronous serial interface that can collect one to four channels and one to four data bits of synchronous serial data per channel. Transfer rates are up to 60 Megabits/sec.

Applications

- Telemetry Receiver
- Monitoring Serial Data Communications
- Satellite Ground Station Support

Software

Device drivers for Solaris™ (Sparc & Intel platform), Windows™, and Linux are included with the PCI GP-ECL. The driver provides access to the PCI GP-ECL through standard and asynchronous read and write system calls. A DMA ring buffer management library is provided for high speed continuous transfers.

Cables

Custom cable assemblies suited to your application can be provided. [click](#)

[here](#) for a list of standard EDT cable assemblies.

Support

EDT provides several levels of customer support, from phone consultation to custom design of hardware and software, at hourly rates.

Specifications

PCI Local Bus Compliance

PCI 2.1s
33Mhz
32 bits
Data Transfer Protocol: synchronous
Transfer 1, 2, or 4 separate

Signals

Standard ECL signal levels, terminated through 50 ohms to -2 volts.

Connector

AMP 68-pin high-density connector

Power

1 A @ 12 volts
1 A @ 5 volts

Environmental

Temperature

Operating: 10° to 40° C
Nonoperating: -20° to 60° C

Humidity

Operating: 20% to 80% noncondensing @ 40° C
Nonoperating: 95% noncondensing @ 40° C

Physical

Single standard PCI Local Bus slot
Dimensions: 3.9" x 5.6" x 0.7"
Weight: 7.0 oz.

Ordering

To order, [contact our sales department or your distributor](#). Be sure to specify which cable will be needed (if any).

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