edt
Engineering Design Team

Interface Performance
that Knows no Limits

Home - Products | Sales | Support   **Company | Press | Partners | Contact**

Related Links

More General Products
More Telemetry/Telecom

Search EDT.com

Search

PCI GP-SSE

Software and Drivers
Documentation
Specifications
Cables

400 Megabit per Second Synchronous Serial Interface

Features

- 2 channels (one in/out, one in only)
- 1 data bit per channel
- ECL compatible driver/receivers
- Transfer rates up to 400 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-SSE board samples the data on the rising edge of the clock and stores it in host memory by the PCI GP-SSE DMA. It provides a simple, flexible low cost solution for Telemetry, Satellite and Monitoring applications.

Two 9 pin D connectors are provided, one for each channel. Each channel accepts a differential data signal (two wires) and a differential clock (two more wires) at standard ECL signal levels. All incoming signals are terminated through 50 ohms to -2 volts.

Applications

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

Software

Device drivers for Solaris™, Windows ᵗᵐ, and Linux are included with the PCI GP-SSE. VxWorks (selected platforms) and MacOS drivers available on request. The driver provides access to the PCI GP-SSE through standard and asynchronous read and write system calls. A DMA ring buffer management library is provided for high speed continuous transfers.

Cables

Custom cables suited to your application can be provided.

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

Connectors

Two 9-pin D connectors

Signals

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

Power

2 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).

Engineering Design Team
1100 NW Compton Dr, Suite 306
Beaverton, OR 97006

Sitemap | Home | Products | Sales | Support | Company | Press | Partners | Contact