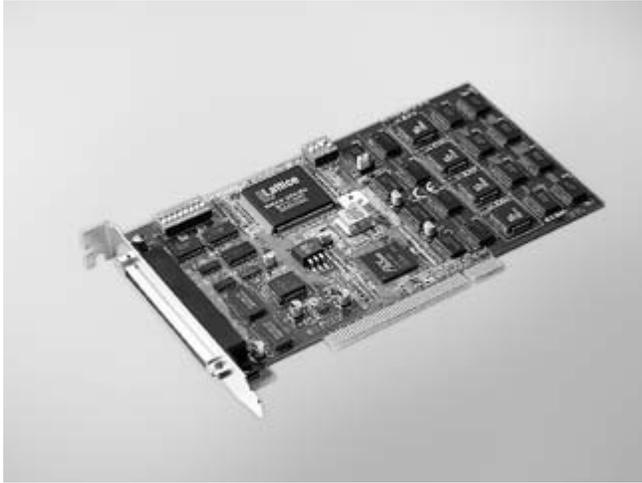# PCI-1755

Features

- Bus-mastering DMA data transfer with scatter gather technology
- 32/16/8-bit pattern I/O with start and stop trigger function, 2 modes handshaking I/O Interrupt handling capability
- Onboard active terminators for high speed and long distance transfer
- Pattern match and change state detection interrupt function
- General-purpose 8-ch digital I/O

Introduction

The PCI-1755 supports PCI-bus mastering DMA for high-speed data transfer. By setting aside a block of memory in the PC, the PCI-1755 performs bus-mastering data transfers without CPU intervention, setting the CPU free to perform other more urgent tasks such as data analysis and graphic manipulation. The function allows users to run all I/O functions simultaneously at full speed without losing data.

Specifications

Digital Input

- **Channels**   General: 8 (shared with output)
                        High speed: 32 (shared with output)
- **Compatibility**   5V/TTL
- **Input Voltage**   Logic 0: 0.8 V max.
                        Logic 1: 2.0 V min.
- **Interrupt Capable Ch.**   DIO0~DIO7

Digital Output

- **Channels**   General: 8 (shared with input)
                        High speed: 32 (shared with input)
- **Compatibility**   5V/TTL
- **Output Voltage**   Logic 0: 0.5 V max.
                        Logic 1: 2.7 V min.
- **Output Capacity**   Sink: 0.5 V max. @ 48 A
                        Source: 2.4 V min. @ 15 A

Transfer Characteristics

- **Onboard FIFO**   16 KB for DI & 16 KB DO channels
- **Data Transfer Mode** Bus Mastering DMA with Scatter-Gather
- **Data Transfer Bus Width** 8/16/32 bits (programmable)
- **Max. Transfer Rate** DI: 80 M bytes/sec, 32-bit @ 20 MHz
                        120 M bytes/sec, 32-bit @ 40 MHz
                        external pacer when data length is less than FIFO size
                        DO: 80 MBytes/sec, 32-bit @ 20 MHz
- **Operation Mode**   Handshaking

General

- **Bus Type**   PCI V2.2
- **I/O Connectors**   1 x 100-pin SCSI female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: 5 V @ 1 A
                        Max.: 5 V @ 1 A
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature** -20 ~ 85° C (-4 ~ 185° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **PCI-1755**   Ultra-speed 32-ch Digital I/O Card
- **ADAM-39100**   100-pin DIN-rail SCSI Wiring Board
- **PCL-101100-1**   SCSI Cable 100-pin Male 1m w/ Bolt Screw, 1m