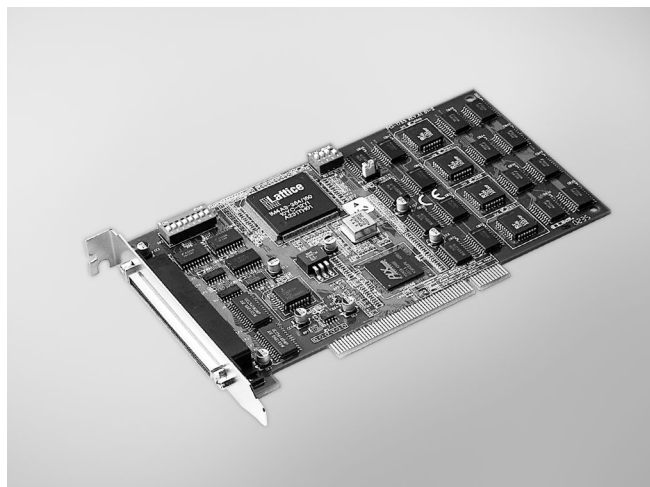# PCI-1755

80 MB/s, 32-ch Digital I/O PCI Card

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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 @ 48 mA
	Source: 2.4 V @ 15 mA

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

Ordering Information

PCI-1755	80 MB/s, 32-ch Digital I/O PCI Card

Accessories

ADAM-39100	100-pin DIN-rail SCSI Wiring Board
PCL-101100-1E	100-pin SCSI High-Speed Cable, 1 m

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