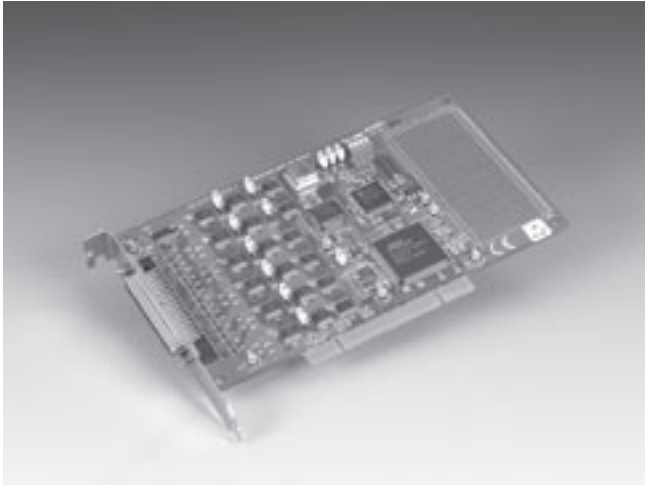# PCI-1751

48-bit Digital I/O and Counter Card

Features

- 48 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Interrupt handling
- Timer/Counter interrupt capability
- Supports both dry and wet contact
- Keeps the I/O port setting and DO state after system reset
- Universal PCI & BoardID switch

Introduction

PCI-1751U is a 48-bit digital I/O card for the PCI bus. Its 48 bits are divided into six 8-bit I/O ports and users can configure each port as input or output via software. PCI-1751 also provides one event counter and two 16-bit timers, which can be cascaded to become a 32-bit timer. PCI-1751 adds a universal PCI interface for 3.3 V compatibility.

Specifications

Digital Input

- **Channels**   48 (shared with output)
- **Compatibility**   5 V/TTL
- **Input Voltage**   Logic 0: 0.8 V max.
  Logic 1: 2 V min.
- **Interrupt Capable Ch.**   2

Digital Output

- **Channels**   48 (shared with input)
- **Compatibility**   5 V/TTL
- **Output Voltage**   Logic 0: 0.4 V max.
  Logic 1: 2.4 V min.
- **Output Capability**   Sink: 0.4 V @ 24 mA
  Source: 2.4 V @ 15 mA

Counter/Timer

- **Channels**   3
- **Resolution**   2 x 16-bit counters, or 1 x 32-bit counter
  (Jumper selectable)
  1 x 16-bit event counter
- **Compatibility**   5 V/TTL
- **Max. Input Frequency**   10 MHz
- **Reference Clock**   Internal: 10 MHz
  External Clock Frequency: 10 MHz
  External Voltage Range: 5 V/TTL

General

- **Bus Type**   Universal PCI V2.2
- **I/O Connectors**   68-pin SCSI-II female connector (Centronics type)
- **Dimensions (L x H)**   175 x 100 mm (6.9" x 3.9")
- **Power Consumption**   Typical: 5 V @ 850 mA
  Max: 5 V @ 1.0 A
- **Operating Temperature**   0 ~ 70° C (32 ~ 158° F)
- **Storing Temperature**   -20 ~ 80° C (-4 ~ 176° F)
- **Storing Humidity**   5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **PCI-1751**   48-bit universal digital I/O card and Counter Card,
- **PCL-10168**   68-pin SCSI cable, 1 and 2 m
- **ADAM-3968**   68-pin SCSI cable wiring terminal for DIN-rail mounting
- **ADAM-3968/20**   68-pin SCSI-II to three 20-pin Wiring Terminal Module for DIN-Rail Mounting
- **ADAM-3968/50**   68-pin SCSI to 2 x 50-pin box headers converter module
- **PCLD-8751**   48-ch Isolated DI Board
- **PCLD-8761**   24-ch Replay and 24-IDI Board