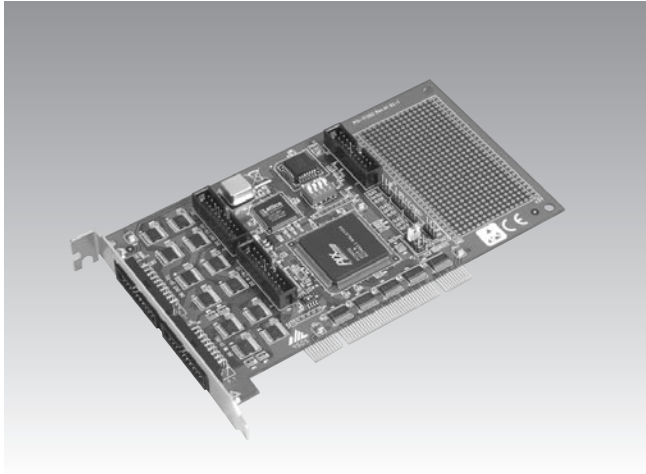# PCI-1735U

64-ch Digital I/O and Counter Universal PCI Card

Features

- ISA-Compatible with PCL-720+
- 32 TTL-level digital input channels
- 32 TTL-level digital output channels
- High-output driving capacity
- Low-input loading
- 3 programmable counter/timer channels
- User configurable clock source
- Breadboard area for custom circuits

Introduction

The PCI-1735U digital I/O and counter card is PC-compatible add-on card with 32 digital input channels, 32 digital output channels and three programmable counter/timer channels. Their digital I/O channels are TTL-compatible and use 74LS244 driver/buffer circuits to provide high output driving capacity. These buffered circuits also require lower input loading current than regular TTL circuits. The cards' 8254 programmable counter/timer provides three flexible 16-bit counter/timer channels. You can generate waves and pulses by programming the 8254. Jumper settings determine the clock crystal frequency. The card also includes a breadboard area perfect for customized circuits.

Specifications

Digital Input

- **Channels**   32
- **Compatibility**   5 V/TTL
- **Input Voltage**   Logic 0: 0.8 V max.
  Logic 1: 2.0 V min.

Digital Output

- **Channels**   32
- **Compatibility**   5 V/TTL
- **Output Voltage**   Logic 0: 0.5 V max.
  Logic 1: 2.0 V min.
- **Output Capability**   Sink: 0.5 V max @ 24 mA
  Source: 2.0 V min. @ 15 mA

Counter/Timer

- **Channels**   3
- **Resolution**   16 bits
- **Compatibility**   5 V/TTL
- **Max. Input Frequency**   1 MHz
- **Reference Clock**
  Internal: Selectable 1 MHz, 100 kHz, or 10 kHz base clock
  External Clock Frequency: Jumper selectable divider: x2, x1, x0.5, and x0.25
- **Programmable Counter Modes**   6

General

- **Breadboard Area**   540 (30 x 18) plated-through "donuts", each with a .036" hole on 0.10" centers. Further, provide +5 V on the left side, and provide GND on the right side
- **Bus Type**   PCI-1735U: Universal PCI V2.2
- **I/O Connectors**   5 x 20-pin male ribbon-cable connectors
- **Dimensions (L x H)**   175 x 100 mm (6.9" x 3.9")
- **Power Consumption**   Max: +5 V @ 98.8 mA
- **Operating Temperature**   0 ~ 65° C (32 ~ 149° F)
- **Storing Temperature**   -25 ~ 80° C (-13 ~ 176° F)
- **Storing Humidity**   5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **PCI-1735U**   64-ch Digital I/O and Counter Card
- **PCL-10120-1**   IDC-20 Flat Cable, 1 m
- **PCL-10120-2**   IDC-20 Flat Cable, 2 m
- **PCLD-780**   2 x IDC-20 Wiring Terminal
- **PCLD-782**   Opto-Isolated D/I Board
- **PCLD-785**   16-ch Relay Output Terminal
- **PCLD-786**   SSR and Relay Driver Board
- **PCLD-885**   16-ch Power Relay Output Terminal
- **ADAM-3920**   20-Pin Flat Cable Terminal, DIN-rail Mount