

# PCI-1715U

500 kS/s, 12-bit, 32-channel  
Isolated Analog Input Card

NEW



## Features

- 2500 V<sub>DC</sub> isolation protection
- 32 single-ended or 16 differential analog inputs, or a combination
- 12-bit resolution for A/D conversion
- Up to 500 kS/s sampling rate for A/D conversion
- Programmable gain for each input channel
- Onboard 1024 samples FIFO buffer
- S/W, internal or external pacer sampling modes supported
- Universal PCI Bus
- BoardID™ switch

## Introduction

The PCI-1715U is an isolated high-speed analog input card for the PCI bus. It provides 32 analog input channels with a sampling rate up to 500 kS/s, 12-bit resolution and isolation protection of 2500 V<sub>DC</sub>.

## Specifications

### Analog Input

- **Channels** 32 single-ended /16 differential (SW programmable)
- **Resolution** 12 bits
- **Max. Sampling Rate** 500 kS/s
- **FIFO Size** 1024 samples
- **Overvoltage Protection** +/- 30 V<sub>p-p</sub>
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Input Impedance** 1 GΩ
- **Sampling Modes** Software, onboard programmable pacer or external (TTL level)
- **Input Range** (V, software programmable)

<b>Unipolar</b>	-	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
<b>Bipolar</b>	±10	±5	±2.5	±1.25	±0.625
<b>Accuracy (% of FSR ±1LSB)</b>	0.01	0.01	0.02	0.02	0.04

### General

- **Bus Type** Universal PCI V2.2
- **I/O Connector** 37-pin D-type female
- **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 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

## Ordering Information

- **PCI-1715U** 500 kS/s 12-bit, 32-channel Isolated Analog Input Card, user's manual and driver CD-ROM. (cable not included)
- **PCLD-881B** Industrial Wiring Terminal Board (cable not included)
- **ADAM-3937** Wiring Terminal Board
- **PCL-10137-1** DB37 cable assembly, 1 m
- **PCL-10137-2** DB37 cable assembly, 2 m
- **PCL-10137-3** DB37 cable assembly, 3 m