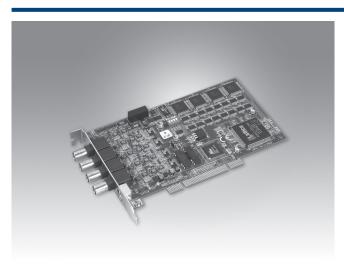
# PCI-1714U

## 30 MS/s, 12-bit, Simultaneous 4-ch **Analog Input Universal PCI Card**



### **Features**

- 4 single-ended analog input channels
- 12-bit A/D converter, with up to 30 MHz sampling rate
- Programmable gain
- Onboard FIFO memory (PCI-1714U: 32,768 samples each channel)
- 4 A/D converters simultaneously sampling
- Multiple A/D triggering modes
- Programmable pacer/counter
- BoardID™ switch
- Universal PCI Bus (supports 3.3 V or 5 V PCI bus signals)



## Introduction

PCI-1714U ais advanced high-performance data acquisition cards based on the PCI bus. With a large FIFO of 32,768 for each channel, the maximum sampling rate of PCI-1714U can get up to 30 MS/s, on each channel, with an emphasis on continuous, non-stop, high-speed, streaming data of samples to host memory.

## **Specifications**

#### **Analog Input**

Channels 4 single-ended Resolution 12 bits

 Max. Sampling Rate 30 MS/s per channel\* FIFO Size 32,768 samples each channel

• Overvoltage Protection 30 Vp-p

 Input Impedance  $50 \Omega/1 M\Omega/Hi Z$  jumper selectable/100 pF

 Sampling Modes Software polling, pacer

 Trigger Modes Post-trigger, pre-trigger, delay-trigger, about-trigger

Input Range (V, software programmable) & Absolute Accuracy

Bipolar	±5	±2.5	±1	±0.5
Absolute Accuracy (% of FSR)*	0.1	0.2	0.2	0.4

<sup>\* ±1</sup> LSB is added as the derivative for absolute accuracy

#### General

Universal PCI V2.2 Bus Type I/O Connectors 4 x BNC connector (for AI)

1 x PS/2 connector (for Ext. clock and trigger)

175 x 100 mm (6.9" x 3.9") Dimensions (L x H)

Typical: 5 V @ 850 mA: 12 V @ 600 mA Power Consumption Max.: 5 V @ 1 A; 12 V @ 700m A

• Operating Temperature  $0 \sim 60^{\circ}\text{C} (32 \sim 140^{\circ}\text{F})$  Storage Temperature -20 ~ 85°C (-4 ~ 185°F) Storage Humidity 5 ~ 95% RH, non-condensing

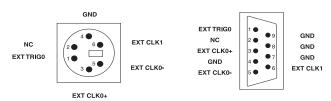
## **Ordering Information**

 PCI-1714U-BE 30 MS/s, 12-bit, Simultaneous 4-ch Al PCI Card

#### Accessories

 ADAM-3909-AE DB9 DIN-rail Wiring Board PCL-1010B-1E BNC to BNC Wiring Cable, 1 m PCL-10901-1E DB9 to PS/2 Cable, 1 m PCL-10901-3E DB9 to PS/2 Cable, 3 m

# **Pin Assignments**



Onboard PS/2 Connector

PS/2 To DB9 Cable Connector

<sup>\*</sup> PCI-1714U can only perform maximum 10MS/s under streaming acquisition scenario, due to the overall data rate limitation of PCI. For performing sampling rate higher than 10MS/s, only one-buffer application can the card be applied to.