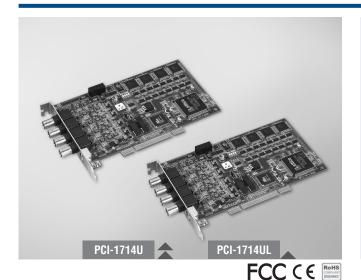
# PCI-1714U PCI-1714UL

30 MS/s, 12-bit, Simultaneous 4-ch Analog Input Universal PCI Card 10 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; PCI-1714UL: 8,192 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 and PCI-1714UL are 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. The low-cost PCI-1714UL offers 10 MS/s on each channel at a stable rate, and has also been equipped with a universal PCI interface.

# **Specifications**

### **Analog Input**

Channels 4 single-endedResolution 12 bits

Max. Sampling Rate PCI-1741U: 30 MS/s per channel PCI-1741UL: 10 MS/s per channel
 FIFO Size PCI-1714U: 32,768 samples each channel PCI-1714UL: 8,192 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

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

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

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

Power Consumption
 Typical: 5 V @ 850 mA; 12 V @ 600 mA

Max.: 5 V @ 1 A; 12 V @ 700m A

Operating Temperature 0 ~ 60°C (32 ~ 140°F)
 Storage Temperature -20 ~ 85°C (-4 ~ 185°F)
 Storage Humidity 5 ~ 95% RH, non-condensing

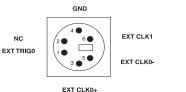
## **Ordering Information**

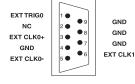
PCI-1714U
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 30 MS/s, 12-bit, Simultaneous 4-ch Al PCI Card
 10 MS/s, 12-bit, Simultaneous 4-ch Al PCI Card

#### **Accessories**

ADAM-3909 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