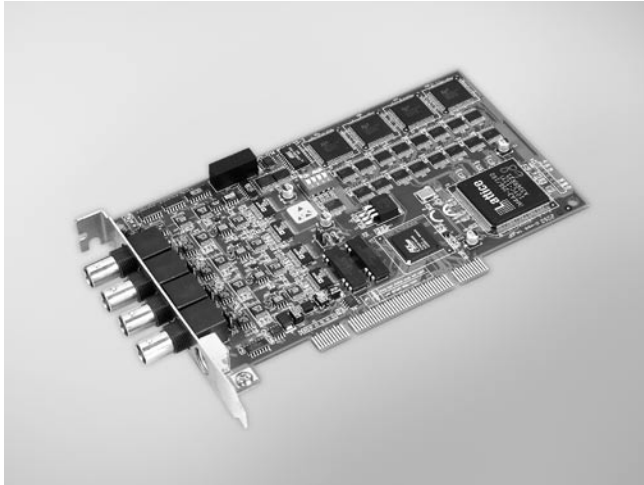


PCI-1714U PCI-1714UL

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 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 (support 3.3 V or 5 V PCI bus signal)

Introduction

PCI-1714U is an advanced high-performance data acquisition card 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 10MS/s on each channel at a stable rate, and has also been equipped with a universal PCI interface.

Specifications

Analog Input

- **Channels** 4 single-ended
- **Resolution** 12 bits
- **Max. Sampling Rate** PCI-1714U: 30 MS/s
PCI-1714UL: 10 MS/s
- **FIFO Size** PCI-1714U: 32,768 samples for each channel
PCI-1714UL: 8,192 samples for each channel
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** 50 Ω/1 MΩ/Hi Z jumper selectable/100 pF
- **Sampling Modes** Software polling, pacer
- **Trigger Modes** Post-trigger, pre-trigger, delay-trigger, about-trigger
- **Input Range (V)** ±5, ±2.5, ±1, ±0.5

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** 175 x 100mm (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 ~ 70° C (32 ~ 158° F)
- **Storage Temperature** -20 ~ 85° C (-4 ~ 185° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications** CE

Ordering Information

- **PCI-1714U** 30 MS/s, 12-bit, Simultaneous 4-ch AI PCI Card
- **PCI-1714UL** 10 MS/s, 12-bit, Simultaneous 4-ch AI PCI Card
- **ADAM-3909** DB9 DIN-rail Wiring Board
- **PCL-1010B-1** BNC to BNC Wiring Cable, 1 m
- **PCL-10901-1** PS/2 to DB9 Cable, 1 m
- **PCL-10901-3** PS/2 to DB9 Cable, 3 m

Pin Assignments

