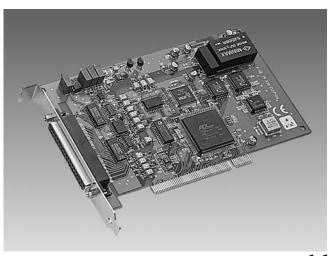
PCI-1713

100 kS/s, 12-bit, 32-ch, Isolated Analog Input Card



Features

- 2500 V_{nc} isolation protection
- 32 single-ended or 16 differential analog inputs, or a combination
- 12-bit resolution for A/D conversion
- Up to 100 kS/s sampling rate for A/D conversion
- Programmable gain for each input channel
- On-board 4 K samples FIFO buffer
- S/W, internal or external pacer triggering supported

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Introduction

The PCI-1713 is an isolated high-speed analog input card for the PCI bus. It provides 32 analog input channels with a sampling rate up to 100 kS/s, 12-bit resolution and isolation protection of 2500 V_{pc}.

Specifications

Analog Input

• Channels 32 single-ended or 16 differential (software programmable)

Resolution 12-bitOnboard FIFO 4K samples

Input Range Bipolar: ±10 V, ±5 V, ±2.5 V, ±1.25 V, ±0.625 V (software programmable)
 Unipolar: 0 ~10 V, 0 ~ 5 V, 0 ~ 2.5 V, 0 ~ 1.25 V

Maximum Input ±30 V

Overvoltage

Common Mode Gain CMRR Rejection Ratio(CMRR) 0.5, 1 75dB

2 80dB 4 84dB 8 84dB

■ Maximum Sampling 100 kS/s

Rate

Accuracy Gain Accuracy

(depends on gain) 0.5, 1 0.01% of FSR±1LSB

2 0.02% of FSR±1LSB 4 0.02% of FSR±1LSB 8 0.04% of FSR±1LSB

• Linearity Error $\pm 1 \text{ LSB}$ • Input Impedance $1 \text{ G}\Omega$

• **Trigger Mode** Software, on-board programmable pacer or external

(TTL level)

Programmable Pacer

• **Timer** 32-bit programmable timer

■ Time Base 10 MHz

General

■ I/O Connector 37-pin D-type female connector
■ Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")
■ Power Consumption 45 V @ 850 mA (Typical), +5 V @ 1.0 A (Max.)

• Operating Temperature $0 \sim 60^{\circ}$ C (32 $\sim 140^{\circ}$ F) (refer to IEC 68-2-1, 2)

• Storage Temperature $-20 \sim 70^{\circ} \text{ C } (-4 \sim 158^{\circ} \text{ F})$

• Operating Humidity 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

Ordering Information

PCI-1713 100 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, 1m
 PCL-10137-2 DB37 cable assembly, 2m
 PCL-10137-3 DB37 cable assembly, 3m

Applications

- Signal isolation
- Process monitoring and control
- Transducer/sensor interfacing
- Multi-channel DC voltage measurement