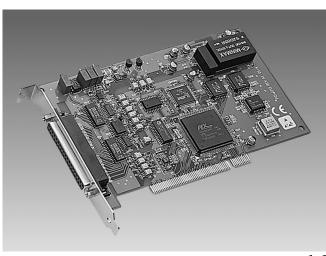
PCI-1713

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



Features

- 2500 V_{pc} 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
- Onboard 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_{nc} .

Specifications

Analog Input

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

Resolution 12-bit
Onboard FIFO 4K samples
Conversion Time 2.5 ms

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

0.02% of FSR±1LSB
0.02% of FSR±1LSB
0.04% of FSR±1LSB

Linearity Error ±1 LSB
Input Impedance 1 GΩ

• **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
Dimensions (L x H)
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 DB-37 cable assembly, 1 m
PCL-10137-2 DB-37 cable assembly, 2 m
PCL-10137-3 DB-37 cable assembly, 3 m

Applications

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