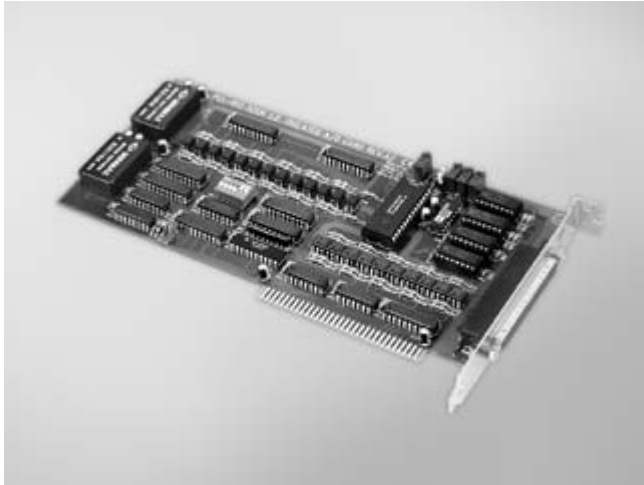


# PCL-813B

## 25 kS/s, 12-bit, 32-ch Isolated Analog Input ISA Card



### Features

- 32 single-ended analog input channels
- 12-bit A/D converter, with up to 25 kHz sampling rate
- Isolation protection (500 V<sub>DC</sub>)
- Program-controlled A/D trigger and data transfer

### Introduction

PCL-813B is a 12-bit 32-channel analog input card that offers high-voltage isolation on each analog input. It is an extremely cost effective solution for applications in industrial measurement and monitoring. The card offers 32 analog input channels with software programmable gain on each channel and two DC-to-DC converters on a 4-layer PCB with an integral ground plane. Optically-isolated inputs provide over 500 V<sub>DC</sub> of isolation between the analog inputs and the PC, protecting the PC and peripherals from damage due to high voltages on the input lines. PCL-813B is ideal for situations where the budget-conscious user requires flexibility, stability and a high level of isolation protection. PCL-813B comes with the PCLD-881B wiring terminal board and a DB37 cable assembly.

### Specifications

#### Analog Input

- **Channels** 32 single-ended
- **Resolution** 12 bits
- **Max. Sampling Rate** 25 kHz
- **Overvoltage Protection** 30 Vp-p
- **Isolation Protection** 500 V<sub>DC</sub> from analog input to PC
- **Input Impedance** > 10 MΩ
- **Sampling Modes** software trigger
- **Input Range** (V, software programmable)

<b>Unipolar (jumper selection)</b>	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
<b>Bipolar (software selection)</b>	±5	±2.5	±1.25	±0.625
<b>Accuracy (% of FSR ±1LSB)</b>	0.1	0.2	0.2	0.4

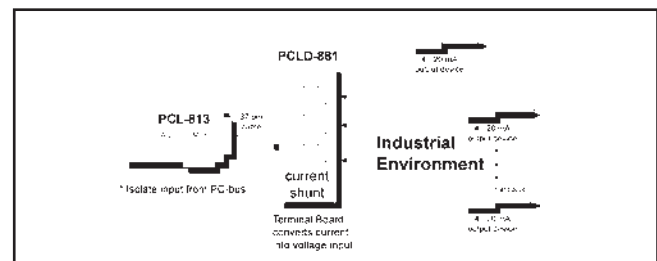
#### General

- **Bus Type** ISA
- **I/O Connectors** 1 x DB37 female connector
- **Dimensions (L x H)** 219 x 100 mm (8.6" x 3.9")
- **Power Consumption** 5 V @ 660 mA max.  
12 V @ 140 mA max.
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 65° C (-4 ~ 149° F)
- **Storage Humidity** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

### Ordering Information

- **PCL-813B** 25 kS/s, 12-bit, 32-ch Isolated AI ISA Card
- **PCLD-881B** Wiring Board for PCI-1713U, PCI-1715U & PCL-813B
- **PCL-10137-1** DB37 Cable, 1 m
- **PCL-10137-2** DB37 Cable, 2 m
- **PCL-10137-3** DB37 Cable, 3 m
- **ADAM-3937** DB37 DIN-rail Wiring Board

#### Typical application for PCL-813B:



Industrial 4 ~ 20 mA Output Device Monitoring