PCI-9113A

32-CH 12-Bit 100 kS/s Isolated Analog Input Card

Features

- **Supports a 32-Bit 5 V PCI bus**
- **12-Bit A/D resolution**
- **Up to 100 kS/s sampling rate**
- **32-CH single-ended or 16-CH differential inputs**
- **Onboard 1 k-sample A/D FIFO**
- **Bipolar or unipolar analog input ranges**
- **Programmable gains of x1, x10, x100**
- **Automatic analog inputs scanning**
- **Onboard low-pass filtering capability for analog inputs**
- **2500 VRMS optical isolation**
- **Compact, half-size PCB**

Supported Operating System

- Windows 7/8 x64/x86, Linux

Driver and SDK

- LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Software Utility

- AD-Logger

Specifications

Analog Input

- Number of channels: 32 single-ended or 16 differential
- Resolution: 12 Bit
- Conversion time: 8 μs
- Maximum sampling rate: 100 kS/s
- Input signal ranges

Gain	Input Range		
	Bipolar		Unipolar
1	±10 V	±5 V	0 to 10 V
10	±1 V	±0.5 V	0 to 1 V
100	±0.1 V	±0.05 V	0 to 0.1 V

- Accuracy: 0.01% of FSR ± 1 LSB
- Input coupling: DC
- Overvoltage protection: continuous ±35 V
- Input impedance: 1 GΩ
- Trigger modes: software
- FIFO buffer size: 1 k samples
- Data transfers: polling, interrupt
- Isolation Voltage: 2500 VRMS

General Specifications

- I/O connector: 37-pin D-sub female
- Operating temperature: 0°C to 55°C (32°F to 131°F)
- Storage temperature: -20°C to 80°C (-4°F to 176°F)
- Relative humidity: 5% to 95%, non-condensing
- Power requirements

+5 V
960 mA typical

- Dimensions (not including connectors)
  173 mm x 107 mm (6.74" x 4.17")

Terminal Boards & Cables

- DIN-37D-01
  Terminal Board with One 37-pin D-sub Connector and DIN-Rail Mounting (Cables are not included.)
- ACLD-9137-01
  General-Purpose Terminal Board with One 37-pin D-sub Male Connector
- ACL-10137-1MM
  37-pin D-sub male/male cable, 1 M
- ACL-10137-1MF
  37-pin D-sub male/female cable, 1 M

* For more information on mating cables, please refer to P3-48/49.

Ordering Information

- **PCI-9113A**
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