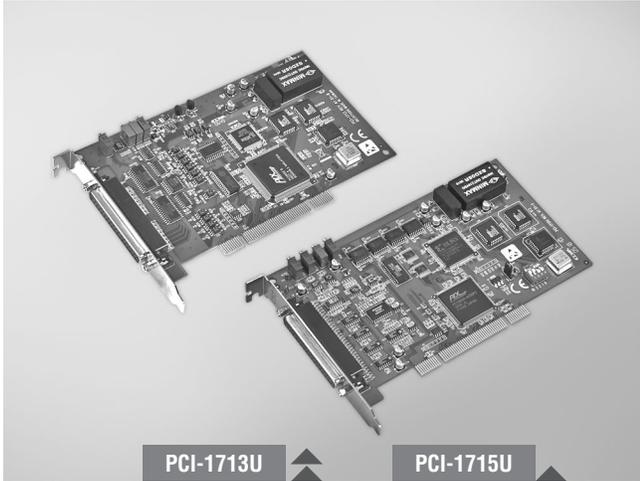# PCI-1713U

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

PCI-1715U

500 kS/s, 12-bit, 32-ch Isolated Analog Input Universal PCI Card

PCI-1713U   PCI-1715U

FCC CE RoHS COMPLIANT 2002/95/EC

Features

- 2,500 V_{DC} isolation protection
- 32-ch single-ended or 16-ch differential or a combination of analog input
- 12-bit resolution for A/D conversion
- Programmable gain for each input channel
- Onboard FIFO memory (PCI-1713U: 4,096 samples; PCI-1715U: 1,024 samples)
- Software, internal or external pacer sampling modes supported
- Universal PCI bus
- BoardID™ switch

Specifications

Analog Input

- **Channels**   32 single-ended/16 differential (software programmable)
- **Resolution**   12 bits
- **Max. Sampling Rate** PCI-1713U: 100 kS/s
                          PCI-1715U: 500 kS/s

Note: The sampling rate for each channels will be affected by used channel number. For example, if 4 channels of PCI-1713U are used, the sampling rate is 100k/4 = 25 kS/s per channel.

- **FIFO Size**   PCI-1713U: 4,096 samples
                          PCI-1715U: 1,024 samples
- **Overvoltage Protection** 30 Vp-p
- **Isolation Protection**   2,500 V_{DC}
- **Input Impedance**   1 GΩ
- **Sampling Modes**   Software, onboard programmable pacer and external clock (TTL level)
- **Input Range (V, software programmable) & Absolute Accuracy**

Unipolar	N/A	0 ~10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Bipolar	±10	±5	±2.5	±1.25	±0.625
Absolute Accuracy (% of FSR)*	0.1	0.1	0.2	0.2	0.4

* ±1 LSB is added as the derivative for absolute accuracy

General

- **Bus Type**   Universal PCI V2.2
- **I/O Connector**   1 x DB37 female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: 5 V @ 850 mA
                         Max.: 5 V @ 1.0 A
- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Storage Humidity**   5 ~ 95% RH non-condensing

Ordering Information

- **PCI-1713U**   100 kS/s, 12-bit, 32-ch Isolated AI PCI Card
- **PCI-1715U**   500 kS/s, 12-bit, 32-ch Isolated AI PCI Card

Accessories

- **ADAM-3937**   DB37 DIN-rail Wiring Board
- **PCL-10137-1E**   DB37 Cable, 1 m
- **PCL-10137-2E**   DB37 Cable, 2 m
- **PCL-10137-3E**   DB37 Cable, 3 m

Pin Assignments