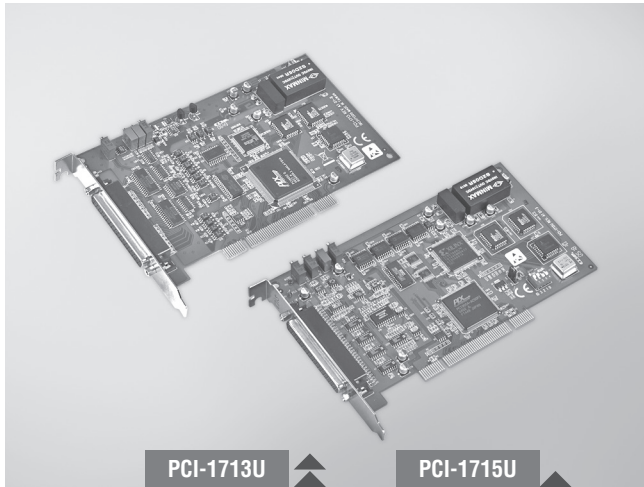


# PCI-1713U

# PCI-1715U

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

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



PCI-1713U

PCI-1715U



## Features

- 2,500 V<sub>DC</sub> 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 V<sub>p-p</sub>
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Input Impedance** 1 GΩ
- **Sampling Modes** Software, onboard programmable pacer and external clock (TTL level)

### Input Range (V, software programmable) & Absolute Accuracy

<b>Unipolar</b>	N/A	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
<b>Bipolar</b>	±10	±5	±2.5	±1.25	±0.625
<b>Absolute Accuracy (% of FSR)*</b>	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

AI0	1	20	AI1
AI2	2	21	AI3
AI4	3	22	AI5
AI6	4	23	AI7
AI8	5	24	AI9
AI10	6	25	AI11
AI12	7	26	AI13
AI14	8	27	AI15
GND	9	28	GND
GND	10	29	GND
AI16	11	30	AI17
AI18	12	31	AI19
AI20	13	32	AI21
AI22	14	33	AI23
AI24	15	34	AI25
AI26	16	35	AI27
AI28	17	36	AI29
AI30	18	37	AI31
EXT_TRG	19		