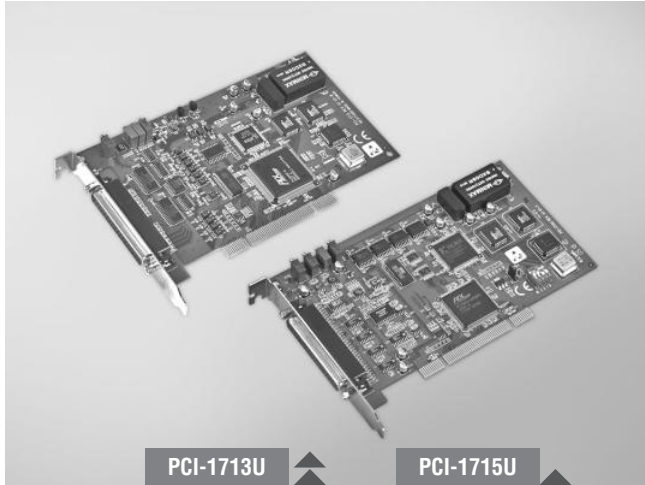


PCI-1713U PCI-1715U

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_{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

Vertrieb durch



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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_{p-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

| | | | |
|---------|----|----|------|
| 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 | | |



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