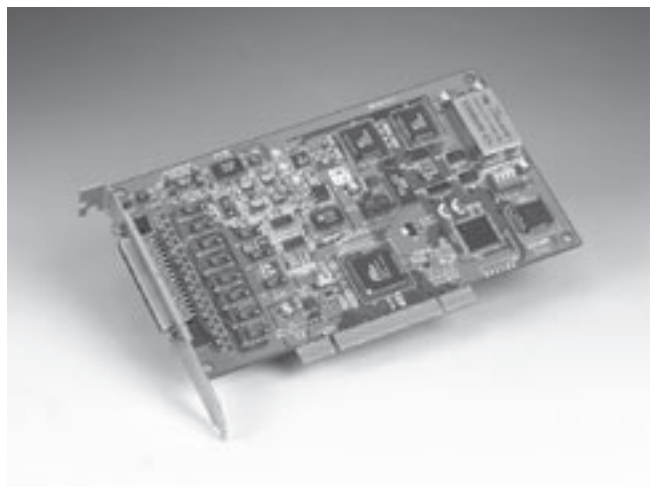


PCI-1747U

250 kS/s, 16-bit, 64-ch Analog Input Card



Features

- 64 single-ended, 32 differential or a combination of analog inputs
- 16-bit A/D converter, with up to 250 kHz sampling rate
- Auto calibration
- Onboard FIFO memory (1024 samples)
- PCI-Bus mastering data transfer
- Universal PCI Bus (support 3.3 V or 5 V PCI bus signal)
- BoardID™ switch

Introduction

PCI-1747U is a high-resolution, high-channel-count analog input card for the PCI bus. Its sampling rate is up to 250 kS/s and 16-bit resolution provides the resolution needed for most data acquisition applications. PCI-1747U provides 64 single-ended, 32 differential analog input channels or a combination of these. It also has built in a 1 K FIFO buffer for analog input data.

Specifications

Analog Input

- **Channels** 64 single-ended, 32 differential, or combination
- **Resolution** 16 bits
- **Max. Sampling Rate** 250 kS/s
- **FIFO Size** 1024 samples
- **Overvoltage Protection** 30 V_{p-p}
- **Input Impedance** 100 M Ω /10 pF(Off); 100 M Ω /100 pF(On)
- **Sampling Modes** Software, onboard programmable pacer or external
- **Input Range** (V, software programmable)

Unipolar	-	0~10	0~5	0~2.5	0~1.25
Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
Accuracy (% of FSR ± 1LSB)	0.03	0.02	0.02	0.03	0.04

General

- **Bus Type** Universal PCI V2.2
- **I/O Connector** 68-pin SCSI-II female
- **Dimensions** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: +5 V @ 850 mA, +12 V @ 600 mA
Max: +5 V @ 1 A, +12 V @ 700 mA
- **Operating Temperature** 0 ~ 60 °C (32 ~ 158 °F) (refer to IEC 68-2-1,2)
- **Storing Temperature** -20 ~ 70°C (-4 ~ 185°F)
- **Storing Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications** CE

Ordering Information

- **PCI-1747U** 250 kS/s, 16-bit, 64-ch, analog input universal PCI bus card
- **ADAM-3968** SCSI-68 wiring terminal, DIN-rail mount
- **PCL-10168-1** SCSI-68 shielded cable, 1 m
- **PCL-10168-2** SCSI-68 shielded cable, 2 m