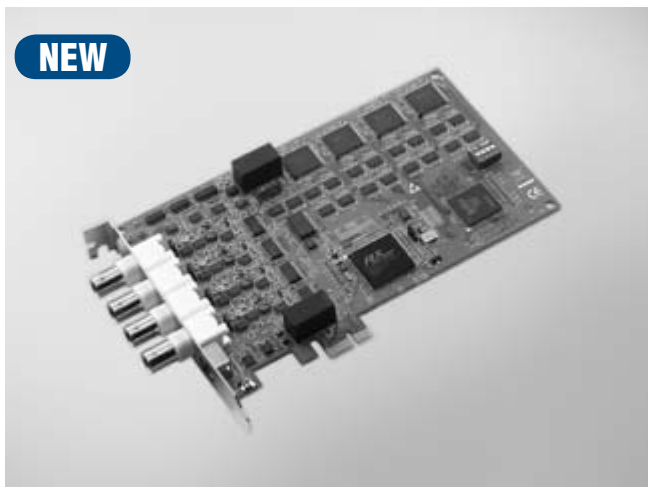


PCIE-1744

30 MS/s, 12-bit, Simultaneous 4-ch
Analog Input PCI Express Card

NEW



Features

- 4 single-ended analog input channels
- 12-bit A/D converter, with up to 30 MHz sampling rate
- Programmable gain
- Onboard FIFO memory (32,768 samples, each channel)
- 4 A/D converters simultaneously sampling
- Multiple A/D triggering modes
- Programmable pacer/counter
- BoardID™ switch
- PCI Express V1.0

Introduction

PCIE-1744 is an advanced high-performance data acquisition card based on the PCI Express bus. With a large FIFO of 32k for each channel, the maximum sampling rate can get up to 30 MS/s, on each channel, with an emphasis on continuous, non-stop, high-speed, streaming data of samples to host memory.

Specifications

Analog Input

- **Channels** 4 single-ended
- **Resolution** 12 bits
- **Max. Sampling Rate** 30 MS/s
- **FIFO Size** 32,768 samples for each channel
- **Overvoltage Protection** 14 Vp-p
- **Input Impedance** 50 Ω /1 M Ω /Hi Z jumper selectable/100 pF
- **Sampling Modes** Software polling, pacer
- **Trigger Modes** Post-trigger, pre-trigger, delay-trigger, about-trigger
- **Input Range (V)** ± 5 , ± 2.5 , ± 1 , ± 0.5

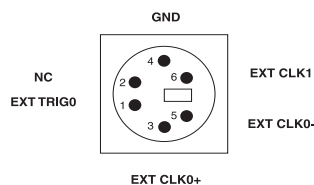
General

- **Bus Type** PCI Express V1.0
- **I/O Connectors** 4 x BNC connector (for AI)
1 x PS/2 connector (for Ext. clock and trigger)
- **Dimensions (L x H)** 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 @ 700mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature** -20 ~ 85° C (-4 ~ 185° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications** CE

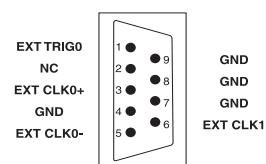
Ordering Information

- **PCIE-1744** 30 MS/s, 12-bit, Simultaneous 4-ch AI PCIe Card
- **ADAM-3909** DB9 DIN-rail Wiring Board
- **PCL-1010B-1** BNC to BNC Wiring Cable, 1 m
- **PCL-10901-1** PS/2 to DB9 Cable, 1 m
- **PCL-10901-3** PS/2 to DB9 Cable, 3 m

Pin Assignments



Onboard PS/2 Connector



PS/2 To DB9 Cable Connector