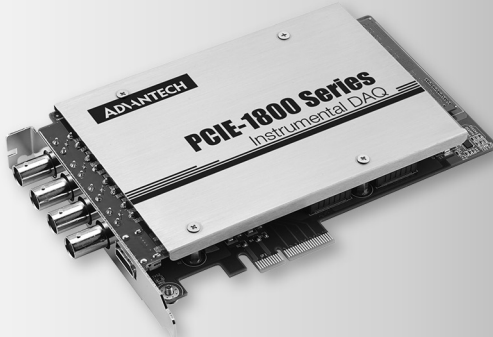


# PCIE-1840

4-ch 16Bit 125 MS/s Digitizer

**NEW**



## Features

- 4 simultaneous analog inputs, up to 125MHz, 16-bit resolution
- 500MHz Time Interleaved Sampling
- Non-stop data streaming capable
- 2 GB on-board memory
- 1M or 50 Ohm selectable input impedance
- On-Board tunable anti-aliasing filter
- AC/DC Coupling

## Introduction

The PCIE-1840 16-bit resolution digitizer divides the input voltage range into 65,536 different digitization levels, it also features sampling rates up to 125M Samples per second, and can be combined into 1 or 2 digitizing channels up to 250 MSPS or 500 MSPS , deep onboard sample memory up to 2 GB, and true ENOBs up to 11.4 bits

## Specifications

### Analog Input

- **Channels** 4 single-ended , simultaneously
- **Resolution** 16 bits
- **Max. Sampling Rate** 125 MS/s per channel
- **Memory Size** 2GB
- **Over Voltage Protection** 30 Vp-p
- **Input Impedance** 50  $\Omega$  / 1M  $\Omega$   
For 1 M $\Omega$ : AC Coupling /DC Coupling
- **Sampling Modes** Software and external clock
- **Trigger Modes** Start trigger, Delay to Start trigger  
Stop trigger, Delay to Stop trigger
- **Input Range** 0.2 / 0.4 / 1 / 2 / 4 / 10 /  
20 Vpp (input Impedance must be 1 M $\Omega$ )
- **Time Interleaved Sampling**
  - 4 channels combined, 500 MSPS max.
  - 2 channels combined, 250 MSPS max.
  - No time interleaved, 125 MSPS max.
  - Configured automatically by setting sampling rate

### General

- **Bus Type** PCI Express GEN2 x 4
- **I/O Connectors** 4 x BNC connector (for AI)  
1 x HDMI connector (for Ext. clock and trigger)
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Under test
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing

## Ordering Information

- **PCIE-1840** 4-ch 16Bit 125 MS/s Digitizer

## Pin Assignments

