

# PCIE-1840 PCIE-1840L

4-Ch, 16-Bit, 125 MS/s Digitizer

4-Ch, 16-Bit, 80 MS/s Digitizer

NEW



## Features

### PCIE-1840

- 4 simultaneous analog inputs, up to 125 MHz, 16-bit resolution
- 500 MHz time-interleaved sampling

### PCIE-1840L

- 4 simultaneous analog inputs, up to 80 MHz, 16-bit resolution
- 320 MHz time-interleaved sampling

### PCIE-1840/PCIE-1840L

- Non-stop data streaming capabilities
- 2 GB of onboard memory
- 1M or 50 Ohm selectable input impedance
- Built-in tunable anti-aliasing filter
- AC/DC coupling support

## Introduction

PCIE-1840/1840L is a 16-bit resolution digitizer that provides up to 2 GB of onboard sample memory, true ENOBs of up to 11.4 bits, and sampling rates of up to 125 per second. PCIE-1840/1840L divides the input voltage range into 65,536 digitization levels and can support 1 or 2 digitizing channels (up to 250/500 MSPS).

## Specifications

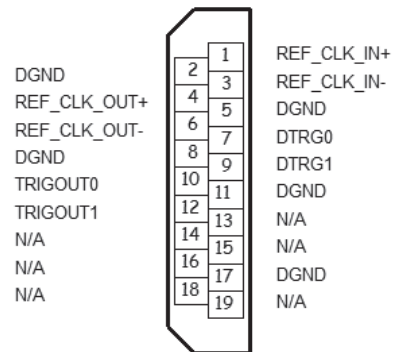
### Analog Input

- Channels** 4 x single ended, simultaneous
- Resolution** 16 bits
- Max. Sampling Rate** 125 MS/s (PCIE-1840)  
80 MS/s (PCIE-1840L)
- Memory Size** 2 GB
- Overvoltage Protection** 30 V<sub>p-p</sub>
- Input Impedance** 50 Ω / 1M Ω  
For 1 MΩ: AC/DC coupling
- Sampling Modes** Software and external clock
- Trigger Modes** Start, Delayed Start  
Stop, Delayed Stop
- Input Range** 0.2 / 0.4 / 1 / 2 / 4 / 10 /  
20 V<sub>pp</sub> (input Impedance must be 1 MΩ)
- Time Interleaved Sampling** - 4 channels combined,  
500 MPS max. (PCIE-1840)  
320 MPS max. (PCIE-1840L)  
- 2 channels combined,  
250 MPS max. (PCIE-1840)  
160 MPS max. (PCIE-1840L)  
- Configured automatically by setting sampling rate

### General

- Bus Type** PCI Express Gen2 x4
- I/O Connectors** 4 x BNC (for analog input)  
1 x HDMI (for external 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

## Pin Assignments



## Ordering Information

- PCIE-1840-AE** 4-ch, 16-bit, 125 MS/s digitizer
- PCIE-1840L-AE** 4-ch, 16-bit, 80 MS/s digitizer
- PCLD-8840-AE** 20-pin DIN rail HDMI cable wiring board for PCIE-1802 and PCIE-1840
- PCL-10119-1E** HDMI cable
- PCL-1010B-1E** BNC coaxial cable, 1 m

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Data Logging & Acquisition](#) category:*

*Click to view products by [Advantech](#) manufacturer:*

Other Similar products are found below :

[PCI-6208A](#) [DAQe-2502](#) [PXI-2208](#) [ACL-8112DG](#) [SpotBotBLE](#) [LPCI-7230](#) [USB-4761-BE](#) [SE028](#) [PCI-1761-BE](#) [AR207/8/S1/PPPP/IP65](#)  
[PCI-1711UL-CE](#) [USB-4702-AE](#) [USB-4704-AE](#) [USB-4716-AE](#) [USB-4750-BE](#) [USB-4751-AE](#) [PCIE-1810-AE](#) [PCI-1713U-BE](#) [PCI-1710U-](#)  
[DE](#) [PCI-1710HGU-DE](#) [AR207/8/S1/PPPP/IP30](#) [U2781A](#) [4610](#) [EL-USB-5](#) [AR407/S1/P/P/P/P](#) [AR207/8/S2/PPPP/IP30](#) [ACL-8112PG](#) [cPCI-](#)  
[7248](#) [cPCI-7433](#) [DAQ-2213](#) [ND-6053](#) [ND-6060](#) [PCI-7230](#) [PCI-7432](#) [PCI-9111DG](#) [PCI-9112](#) [PCI-9112A](#) [PCI-9113A](#) [PCI-9221](#) [PCM-](#)  
[7248+](#) [USB-1903](#) [USB-2401](#) [PCIE-1813-AE](#) [PCIE-1816-AE](#) [PCIE-1816H-AE](#) [PCIE-1884-AE](#) [USB-5856-AE](#) [USB-5862-AE](#)  
[AR654/S2/P/P/P/P/IP30](#) [DAS30](#)