

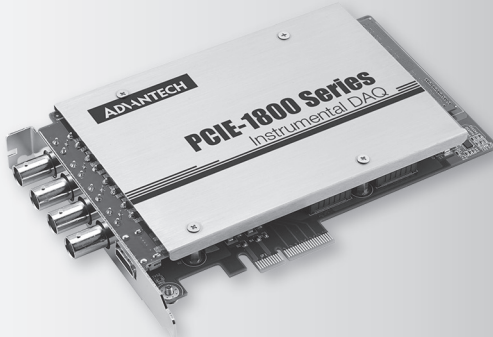
PCIE-1840

PCIE-1840L

4-ch 16Bit 125 MS/s Digitizer

4-ch 16Bit 80 MS/s Digitizer

NEW



Features

- PCIE-1840
 - 4 simultaneous analog inputs, up to 125MHz, 16-bit resolution
 - 500MHz Time Interleaved Sampling
- PCIE-1840L
 - 4 simultaneous analog inputs, up to 80MHz, 16-bit resolution
 - 320MHz 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 (PCIE-1840)
80 MS/s (PCIE-1840L)
- **Memory Size** 2GB
- **Over Voltage Protection** 30 V_{p-p}
- **Input Impedance** 50 Ω / 1M Ω
For 1 MΩ: 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 V_{pp} (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

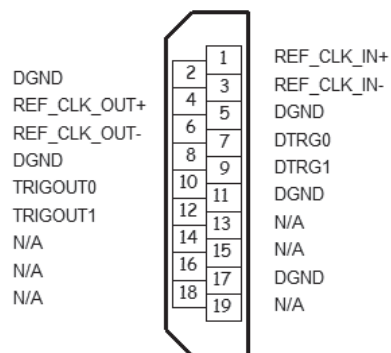
General

- **Bus Type** PCI Express GEN2 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-AE** 4-ch 16Bit 125 MS/s Digitizer
- **PCIE-1840L-AE** 4-ch 16Bit 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 Coax Cable, 1m

Pin Assignments



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