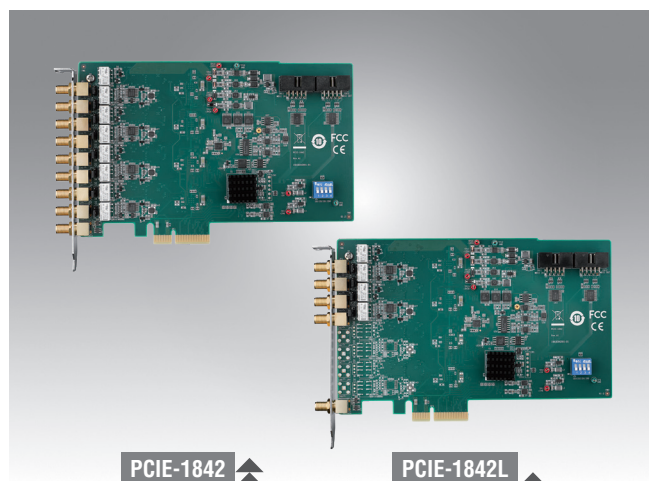


PCIE-1842 PCIE-1842L

8/4-ch, 14-bit, 10MS/s/ch Simultaneous
Analog Input PCI Express DAQ Card



Features

- 8 or 4 x Simultaneously Analog Inputs, up to 10 MS/s
- 14-bit resolution
- Supports digital and analog triggers
- Wide input range up to 20 Vpp (± 10 V range)
- Onboard FIFO memory (65,536 samples)

Ihr
Ansprechpartner: 

AMC – Analytik & Messtechnik GmbH Chemnitz

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Specifications

Analog Input

- **Channels** 8/4 single-ended
- **Analog-to-digital converter (ADC) resolution** 14 bits
- **Input range** ± 10 V, ± 5 V, ± 2.5 V, or ± 1 V, software configurable per channel
- **Maximum input voltage** 10.1 V
- **Over-voltage protection** ± 15 V
- **Input coupling** DC
- **Input impedance** 50 Ω or 1 M Ω , configured by on-board jumper per channel
- **Analog low-pass filter** -3 dB bandwidth 5 MHz
- **Acquisition type** Instant or buffered, software configurable

Buffered Acquisition

- **Enabled channel combination** Each channel can be enabled/disabled independently by software
- **Sample rate** 10 MHz max. per channel
- **On-board FIFO Size** 65,536 Samples

Absolute accuracy

- Operating temperature within $\pm 5^\circ\text{C}$ of last Auto-calibration temperature $\pm 0.2\%$ of full-scale range max.
- Over full operating temperature range $\pm 1\%$ of full-scale range max.

Trigger

- **Number of triggers** 1
- **Trigger action** Start, delay to start, stop, or delay to stop
- **Trigger delay range** 0 ~ 16,777,215 samples
- **Sample number** 0 ~ 16,777,215 samples

Analog Trigger

- **Source** One of the analog input channels, software configurable
- **Threshold level** Full scale of analog input range, software configurable
- **Hysteresis** 1/256 of analog input range, software configurable
- **Polarity** Rising edge or falling edge, software configurable

Digital Trigger

- **Source** 1 external pins
- **Input logic level** Logic high 2.0 V min.
Logic low 0.8 V max.
- **Working voltage** -0.25 V ~ 5.25 V
- **Polarity** Rising edge or falling edge, software configurable
- **Input protection voltage** -0.5 V ~ 6.5V

Mechanical

- **Connector Type** SMA
- **Dimension** 167 x 111 mm
- **Weight** PCIE-1842: 161g
PCIE-1842L: 130g

Environment

- **Operating temperature** 0 $^\circ\text{C}$ to 60 $^\circ\text{C}$ (32 $^\circ\text{F}$ to 140 $^\circ\text{F}$)
- **Storage temperature** -20 $^\circ\text{C}$ to 70 $^\circ\text{C}$ (-4 $^\circ\text{F}$ to 158 $^\circ\text{F}$)
- **Operating humidity** 10% to 90% RH, non-condensing
- **Storage humidity** 5% to 95% RH, non-condensing

Certification

- **EMC** CE, FCC

Ordering Information

- **PCIE-1842-A** 8-ch, 14-bit, 10MS/s/ch, simultaneous sampling card
- **PCIE-1842L-A** 4-ch, 14-bit, 10MS/s/ch, simultaneous sampling card

Accessories

- **1700030423-01** 10-pin flat cable for MDSI synchronization, 10 cm