# **PCIE-1802 PCIE-1802L**

# 8-Ch, 24-Bit, 216 kS/s Dynamic Signal **Acquisition PCI Express Card**

4-Ch, 24-Bit, 216 kS/s Dynamic Signal Acquisition PCI Express Card



## Features

- 8/4 simultaneously sampled analog inputs, up to 216 kS/s
- . 24-bit resolution ADCs with 115 dB dynamic range
- Wide input range of ±0.2 ~ 10 V
- Built-in anti-aliasing filter
- Software-configurable 4/10 mA integrated electronic piezoelectric (IEPE) excitation currents
- Software-selectable AC/DC coupling
- . Full automatic calibration
- Multiple card synchronization

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# Introduction

PCIE-1802/1802L is a 24-bit, high-accuracy data acquisition PCI Express module specifically designed for sound and vibration-related applications. This module features built-in 4/10 mA excitation currents for IEPE sensors, such as accelerometers and microphones.

Mini SCSI

# **Specifications**

### **Analog Input**

<ul> <li>Resolution</li> </ul>	
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- Max. Sampling Rate
- Input Coupling AC Cut-Off Frequency
- **Trigger Modes**
- Input Range Offset Error
- Gain Error
- Total Harmonic Distortion (THD)
- **Total Harmonic Distortion Plus**
- Noise (THD+N)
- Dynamic Range IEPE Excitation
- Data Transfer
- Multi-Card Support

#### **Digital Input/Output**

- **DI Channels** .
- **DO Channels**

#### General

- Bus Type I/O Connectors
- Dimensions (L x H) **Operating Temperature**
- Storage Temperature
- **Storage Humidity**

- PCIE-1802-AE
- PCIE-1802L-AE
- PCLD-8840-AE
- PCL-108BNC-50E
- PCL-104BNC-50
- PCL-10119-1E

PCIE-1802: 8 PCIE-1802L: 4 (simultaneous sampling differential or 50  $\Omega$ pseudo-differential) 24 bits (delta sigma) 100 S/s to 216 kS/s (with resolution  $\leq$  363.80 µS/s) AC/DC, selectable per channel 0.727 Hz (-3 dB) Start, Delayed Start, Stop, Delayed Stop ±0.2, ±0.5, ±1, ±2, ±5, ±10 V <±1 mV < ±0.2 % -100 dB -98 dB 115 dB

0, 4, or 10 mA, selectable per channel Direct memory access (DMA) For synchronizing more than 8 analog input channels

1 (interrupt)

PCI Express x1 CN600 36-pin mini SCSI (for analog input) CN601 HDMI (for clock, trigger, and DI/Os) 168 x 100 mm (6.6" x 3.9") 0 ~ 60 °C (32 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) 5 ~ 95 % RH, non-condensing

### **Ordering Information** 8-ch 24-bit 216 kS/s dynamic signal acquisition PCI

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	Express card
	4-ch, 24-bit, 216 kS/s dynamic signal acquisition PCI
	Express card
	20-pin DIN rail HDMI cable wiring board for
	PCIE-1802 and PCIE-1840
E	Mini SCSI to 8-BNC cable
E	Mini SCSI to 4-BNC cable
-	HDMI cable

# **Pin Assignments**

		_	
AGND	18	36	AGND
AI0+	17	35	AI0-
AGND	16	34	AGND
AI1+	15	33	AI1-
AGND	14	32	AGND
AI2+	13	31	AI2-
AGND	12	30	AGND
AI3+	11	29	AI3-
AGND	10	28	AGND
AGND	9	27	AGND
Al4+	8	26	AI4-
AGND	7	25	AGND
AI5+	6	24	AI5-
AGND	5	23	AGND
AI6+	4	22	AI6-
AGND	3	21	AGND
AI7+	2	20	AI7-
AGND	1	19	AGND

#### \* AI4 to AI7 (PCIE-1802 only)

HDMI

REF\_CLK\_IN 1 DGND 2 3 DGND REF\_CLK\_OUT 4 5 DGND DGND 6 7 **DTRGO** DGND 8 9 DTRG1 TRIGOUTO 10 11 DGND TRIGOUT1 12 13 D00 DO1 14 15 SYNC IN SYNC\_OUT 16 DGND 17 RESERVED 18 DIO 19

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