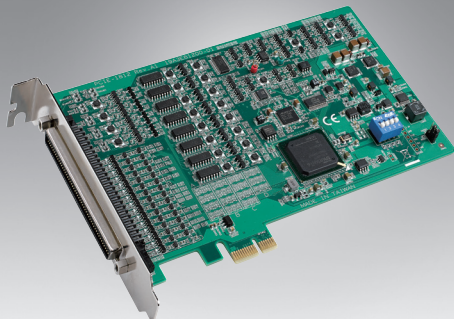


PCIE-1812

250 kS/s, 16-Bit, 8-Ch, Simultaneous Sampling Multifunction PCI Express DAQ Card

NEW



FCC CE RoHS COMPLIANT

Features

- 8 differential simultaneous sampling analog inputs, up to 250 kS/s, 16-bit resolution
- 2 analog outputs, up to 3 MS/s, 16-bit resolution
- Full automatic calibration
- 2 analog triggers and 2 digital triggers for analog I/O
- 32 programmable DI/Os with interrupt functions
- Four 32-bit programmable counters/ timers/ encoders
- Board ID switch

Introduction

PCIE-1812 is a simultaneous-sampling multifunction DAQ card designed to meet a wide range of application requirements. PCIE-1812 supports simultaneous sampling of 8 analog input channels with differential input configuration for maximum noise elimination. In addition to providing 2-ch, 16-bit analog outputs with waveform generation capabilities, PCIE-1812 supports simultaneous waveform generation and analog input functions.

Specifications

Analog Input

- **Channels** 8
- **Mode** Differential input
- **Resolution** 16 bits
- **Sample Rate** 250 kS/s max.
- **Input Impedance** 100G Ω /350pF
- **Sampling Mode** Software and external clock
- **Input Range** Software programmable

Gain	0.5	1	2	4	8
Bipolar	$\pm 10V$	± 5	± 2.5	± 1.25	± 0.625
Unipolar	N/A	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Absolute Accuracy (% of FSR)*	0.01	0.01	0.01	0.01	0.01

Analog Output

- **Channels** 2
- **Resolution** 16 bits
- **Output Rate** 3 M max.
- **Output Range** Software programmable

Internal Reference	Unipolar	0 ~ 5 V, 0 ~ 10 V
	Bipolar	-5 V ~ 5 V, -10 V ~ 10 V
External Reference		0 ~ +x V @ -x V (-10 \leq x \leq 10)

- **Slew Rate** 20 V/ μ s
- **Driving Capability** 5 mA
- **Operation Mode** Static update, waveform generation
- **Accuracy** 0.01%

Analog Trigger

- **Channels** 2
- **Resolution** 16 bits
- **Input Range** -10 ~ 10 V
- **Hysteresis** Yes. Hysteresis range is configurable
- **Trigger Edge** Rising edge or falling edge, selected by software

Digital Trigger

- **Channels** 2
- **Input Voltage** Logic 0: 1.5 V max.
Logic 1: 3.5 V min.
- **Trigger Edge** Rising edge or falling edge, selected by software

Digital I/O

- **Channels** 32 (shared)
- **Input Voltage** Logic 0: 1.5 V max.
Logic 1: 3.5 V min.
- **Output Voltage** Low 0.5 V max. @ +20 mA (sink)
High 4.5 V min. @ -20 mA (source)

Counter/ Timer/ Encoder

- **Channels** 4
- **Resolution** 32 bits
- **Compatibility** 5 V/TTL
- **Max. Input Frequency** 10 MHz
- **Counter/Timer Functions** Frequency measurement, pulse width measurement, pulse output, PWM output
- **Encoder Functions** Quadrature (X1, X2, X4), dual pulse (CW/CCW), signed pulse (OUT/DIR)

General

- **Form Factor** PCI Express x1
- **I/O Connector** 100-pin SCSI, female
- **Dimensions (L x W)** 167 x 100 mm (6.6" x 3.9")
- **Operating Temperature** 0 ~ 60 °C (32 ~ 140 °F) (refer to IEC 68-2-1, 2)
- **Storage Temperature** -40 ~ 70 °C (-40 ~ 158 °F)
- **Storage Humidity** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Board ID** TM switch

Ordering Information

- **PCIE-1812-AE** 250 kS/s, 16-bit, 8-ch simultaneous sampling multifunction card

Accessories

- **PCL-101100R-1E** 100-pin SCSI shielded cable, female to male, 1 m
- **PCL-101100R-2E** 100-pin SCSI shielded cable, female to male, 2 m
- **ADAM-39100-BE** 100-pin DIN rail SCSI wiring board

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [I/O Modules](#) category:

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

Other Similar products are found below :

[70L-IDC5S](#) [70L-OAC-L](#) [70Z3289-4](#) [G21960000700](#) [G21960002700](#) [G34960002700](#) [G88104401](#) [GUR02](#) [OACU](#) [C4SWOUT](#) [PB16H](#) [SM-IDC15](#) [G34960001700](#) [G77-S](#) [G78-16-E](#) [GP34829091724](#) [GP34960005700](#) [JQP4](#) [ODC-24A](#) [IDC5P](#) [FC6A-N16B1](#) [6421](#) [FC6A-N32B3](#) [70MRCQ32-HL](#) [C200H-LK201-V1](#) [G3TA-OA202SZ-US](#) [DC12](#) [GT1-OD16](#) [GT1-AD04CST](#) [GT1-DA04](#) [B7AM-6BS](#) [GRT1-ML2](#) [GRT1-TS2P](#) [CRT1-ID16TAH-1](#) [70GRCQ24-HS](#) [CRT1-ID08](#) [G7TC-ID16](#) [DC24V](#) [CRT1-ID08-1](#) [84110210](#) [6422](#) [AIIS-DIO32-00A1E](#) [84110410](#) [GT1-OD16MX](#) [GRT1-PC8](#) [G7VC-OC16-B7](#) [G7TC-OC08-1](#) [DC24V](#) [G7TC-IA16](#) [AC200/220V](#) [G7TC-OC08](#) [DC24V](#) [70MRCK24-DIN](#) [2736505](#) [ODC5AQ](#)