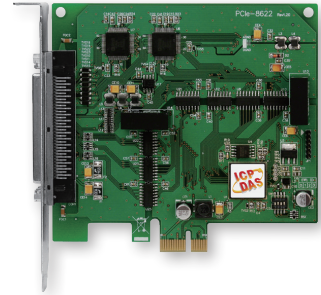


# PCIe-8622 **NEW**

PCI Express, 200 kS/s High-speed, 16-bit, 16-channel Simultaneously Sampled Analog Input Board with 12-channel Isolated DI/O



## Introduction

The PCIe-8622 is a bus-type, isolated high-speed AD multifunction board with 16-bit DA and isolated DI/O. The simultaneously sampled AD offers a mix of up to 16 single-ended, 16-bit Analog Input channels with a 2 k Sample hardware FIFO and 2500 V<sub>DC</sub> bus-typed isolation protection. All channels feature a programmable input range of ±10 V or ±5 V with a sampling rate up to 200 kS/s per channel.

The PCIe-8622 supports the PCI Express bus and provides 12 isolated Digital Input channels, 12 isolated Digital Output channels and 2 Analog Output channels at 16-bit resolution. The board has a single high-density connector that reduces the amount of space required for installation.

## Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
Output +5 V	01	35 Output +15 V
CNT1_GATE	02	36 CNT0_GATE
CNT1_OUT	03	37 CNT0_OUT
CNT1_CLK	04	38 CNT0_CLK
D_GND	05	39 D_GND
DO 11	06	40 DO 10
DO 9	07	41 DO 8
DO 7	08	42 DO 6
DO 5	09	43 DO 4
DO 3	10	44 DO 2
DO 1	11	45 DO 0
DI 11	12	46 DI 10
DI 9	13	47 DI 8
D_GND	14	48 D_GND
DI 7	15	49 DI 6
DI 5	16	50 DI 4
DI 3	17	51 DI 2
DI 1	18	52 DI 0
N.C.	19	53 N.C.
AI_CONV	20	54 N.C.
DTRG1	21	55 DTRG0
A_GND	22	56 A_GND
A_GND	23	57 A_GND
AO 1	24	58 AO 0
A_GND	25	59 A_GND
A_GND	26	60 A_GND
AI 15	27	61 AI 14
AI 13	28	62 AI 12
AI 11	29	63 AI 10
AI 9	30	64 AI 8
AI 7	31	65 AI 6
AI 5	32	66 AI 4
AI 3	33	67 AI 2
AI 1	34	68 AI 0

CON1

## Ordering Information

PCIe-8622 CR	PCI Express, 200 kS/s, 16-bit, 16-ch Simultaneously Sampled Analog Input Board, with 2-ch 16-bit Analog Output and 12-ch Isolated DI/O (RoHS).
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## Features

- PCI Express x1 Interface, Full-profile
- 12-channel Isolated Digital Input
- 12-channel Isolated Digital Output
- 2-channel 16-bit Analog Output
- 16 Single-ended Analog Input Channels
  - Synchronous Sample and Hold
  - Analog Input Range: ±10 V, ±5 V
  - 16-bit, 200 kS/s Sampling Rate for each Channel
  - Hardware FIFO for Analog Input with a total of 2048 Samples
  - Built-in MagicScan Controller

## Software

### Drivers

- 32/64-bit Windows XP/2003/2008/7/8

### Sample Programs

- VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB Demo

## Hardware Specifications

Analog Input	
Isolation Voltage	2500 V <sub>DC</sub> (Bus-type)
Channels	16 Single-ended
Resolution	16-bit
Sampling Rate	200 kS/s (Each Channel)
Bipolar Input	±10 V, ±5 V
FIFO Size	2 k Samples (Total)
Accuracy	0.05% of FSR ±1 LSB @ 25°C, ±10 V
Analog Output	
Channels	2
Resolution	16-bit
Output Range	±5 V, ±10 V
Digital Input	
Channels	12
Isolation Voltage	2500 V <sub>DC</sub>
Digital Output	
Channels	12
Isolation Voltage	2500 V <sub>DC</sub>
Timer/Counter	
Channels	2
General	
Bus Type	PCI Express x1
Card ID	Yes (4-bit)
Connectors	68-pin Female SCSI II x 1
Dimensions (L x W x D)	125 mm x 120 mm x 22 mm
Operating Temperature	0°C to +60°C
Humidity	5 to 85% RH, Non-condensing

## Accessories

	CA-SCSI15-H	68-pin SCSI-II Connector Cable, 1.5 m
	DN-68A CR	DIN-Rail Mountable I/O Connector Block with 68-pin Female SCSI II Connector (RoHS).