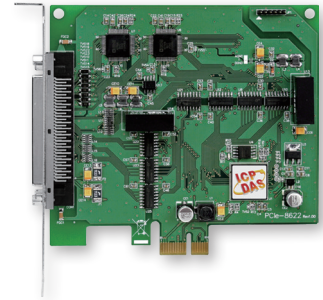


PCIe-8622 **NEW**

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



Features

- PCI Express x1 Interface, Full-profile
- 12-channel Isolated Digital Input
- 12-channel Isolated Digital Output
- 2-channel 16-bit Analog Output
- 8 Single-ended Analog Input channels
- Synchronous Sample and Hold
- Analog Input Range: $\pm 10\text{ V}$, $\pm 5\text{ V}$
- 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

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 Vdc bus-typed isolation protection. All channels feature a programmable input range of $\pm 10\text{ V}$ or $\pm 5\text{ V}$ 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	Output +15 V
CNT1_GATE	02	CNT0_GATE
CNT1_OUT	03	CNT0_OUT
CNT1_CLK	04	CNT0_CLK
DGND	05	DGND
DOUT11	06	DOUT10
DOUT9	07	DOUT8
DOUT7	08	DOUT6
DOUT5	09	DOUT4
DOUT3	10	DOUT2
DOUT1	11	DOUT0
DIN11	12	DIN10
DIN9	13	DIN8
DGND	14	DGND
DIN7	15	DIN6
DIN5	16	DIN4
DIN3	17	DIN2
DIN1	18	DIN0
N/A	19	N/A
AI_CONV	20	N/A
DTRG1	21	DTRG0
AGND	22	AGND
AGND	23	AGND
AO1	24	AO0
AGND	25	AGND
AGND	26	AGND
AI15	27	AI14
AI13	28	AI12
AI11	29	AI10
AI9	30	AI8
AI7	31	AI6
AI5	32	AI4
AI3	33	AI2
AI1	34	AI0

Software

Drivers

- ✓ 32/64-bit Windows XP/2003/2008/7/8/10

Sample Programs

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

Hardware Specifications

Analog Input	
Isolation Voltage	2500 Vdc (Bus-type)
Channels	16 Single-ended
Resolution	16-bit
Sampling Rate	200 kS/s (Each Channel)
Bipolar Input	$\pm 10\text{ V}$, $\pm 5\text{ V}$
FIFO Size	2 k Samples (Total)
Accuracy	0.05% of FSR $\pm 1\text{ LSB}$ @ 25°C, $\pm 10\text{ V}$
Analog Output	
Channels	2
Resolution	16-bit
Output Range	$\pm 5\text{ V}$, $\pm 10\text{ V}$
Digital Input	
Channels	12
Isolation Voltage	2500 Vdc
Digital Output	
Channels	12
Isolation Voltage	2500 Vdc
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
Power Consumption	600 mA @ +3.3 V; 250 mA @ +12 V
Operating Temperature	0°C to +60°C
Humidity	5 to 85% RH, Non-condensing

Ordering Information

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