

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 $\ensuremath{\text{VDC}}$ 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

8888			
	Term	inal No.	
Pin Assignment			Pin Assignment
		\circ	
Output +5 V	01	35	Output +15 V
CNT1_GATE		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		■ ■ 59	A_GND
A_GND		■ ■ 60	A_GND
AI 15		■ ■ 61	AI 14
AI 13		62	AI 12
AI 11		63	AI 10
AI 9		64	AI 8
AI 7		65	AI 6
AI 5		■ ■ 66	AI 4
AI 3		67	AI 2
AI 1	34	68	AI 0
	C	ON1	
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Ordering Information

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



- 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
 - $\hfill\Box$ 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



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 VDC (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 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			
Operating Temperature	0°C to +60°C			
Humidity	5 to 85% RH, Non-condensing			

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).	