PCI-6208V/6216V/6208A 8/16-CH 16-Bit Analog Output Cards

Features

- Supports a 32-bit 5 V PCI bus
- 16-bit D/A resolution (PCI-6208V and PCI-6216V)
- Effective 15-bit resolution current transducers (PCI-6208A)
- 8-CH voltage outputs (PCI-6208V and PCI-6208A)
- 16-CH voltage outputs (PCI-6216V)
- 8-CH current outputs (PCI-6208A)
- Bipolar analog output range
- 4-CH TTL digital inputs and 4-CH TTL digital outputs
- Compact, half-size PCB

- Operating Systems
 Windows 98/NT/2000/XP/2003 Linux
- DOS
- Recommended Software
- VB/VC++/BCB/Delphi
- DAQBench
- Driver Support
 - DAQ-LVIEW PnP for LabVIEW
 - DAQ-MTLB for MATLAB
 - DAQBOY for Windows PCIS-DASK for Windows
 - PCIS-DASK/X for Linux



PCI-6208V

Introduction

ADLINK PCI-6208 series are 8 or 16-CH, 16-bit, analog output cards. The PCI-6208V offers 8 voltage outputs with ±10 V range, featuring 15-bit monotonicity and 10 V/µs slew rate. The on-board analog switches minimize the power-on glitches. Combining one PCI-6208V and one EXP-8V, the PCI-6216V expands the voltage output channels to a total of 16 for higher analog output density requirements. In addition to the voltage output functions, the PCI-6208A features 8 current outputs with ranges of 0-20 mA, 4-20 mA, and 5-25 mA. The daughter board EXP-8A provides high-quality voltage to current transducers. The PCI-6208A device is capable of delivering 14-bit monotonicity with 1.3 mA/µs slew rate.

ADLINK PCI-6208 series devices provide highresolution, high-density analog output functionalities and are suitable for ATE, signal generation, industrial process control, servo control and other industrial control applications.

Specifications

Voltage Output

- Number of channels • 8 voltage outputs (PCI-6208V & PCI-6208A) • 16 voltage outputs (PCI-6216V)
- Resolution: 16 bits
- Monotonicity: 15 bits typical
- Output ranges: ±10 V
- Slew rate: µs typical
- Settling time: 4 µs typical (20 V step) .
- Gain Error: ±0.2% maximum
- DNL: ±0.65 LSB typical
- Output driving capacity: ±5 mA maximum
- Output initial status: 0 V
- Data transfer: programmed I/O

Current Output

- Number of channels: 8 current outputs (PCI-6208A)
- Resolution: 15 bits typical
- Monotonicity: 14 bits typical
- Output ranges: (Software programmable) 0-20 mA, 4-20 mA, 5-25 mA
- Slew rate: 1.3 mA/µs typical
- Settling time: 17 µs typical (20 mA step)
- Span Error: ±0.3% typical
- Output Initial Status: 4 mA
- (after RESET or POWER-ON)
- Data transfer: programmed I/O

Digital I/O

- Number of channels: 4 inputs and 4 outputs
- Compatibility: 5 V/TTL
- Data transfers: programmed I/O

General Specifications

- I/O connector: 37-pin D-sub female
- Operating temperature: 0 to 50°C
- Storage temperature: -20 to 80°C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

Device	+5 V	+12 V
PCI-6208V	580 mA typical	90 mA typical
PCI-6216V	1200 mA typical	300 mA typical
PCI-6208A	670 mA typical	380 mA typical

 Dimensions (not including connectors) 175 mm x 107 mm



PCI-6216V



PCI-6208A

Termination Boards

DIN-37D

Termination Board with a 37-pin D-sub Connector and DIN-Rail Mounting (Including One 1-meter ACL-10137 Cable)

ACLD-9137

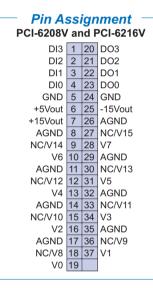
General-Purpose Termination Board with a 37-pin D-sub Male Connector



DIN-37D



ACLD-9137



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PCI DAQ Cards

Pin Assignment					
PCI-6208A					
DI3	1	20	DO3		
DI2	2	21	DO2		
DI1	3	22	DO1		
DI0	4	23	DO0		
GND	5	24	GND		
+5Vout	6	25	-15Vout		
+15Vout	7	26	AGND		
AGND	8	27	A7		
A6	9	28	V7		
V6	10	29	AGND		
AGND	11	30	A5		
A4	12	31	V5		
V4	13	32	AGND		
AGND	14	33	A3		
A2	15	34	V3		
V2	16	35	AGND		
AGND	17	36	A1		
A0	18	37	V1		
V0	19				

Ordering Information

- PCI-6208V 8-CH 16-Bit Voltage Output Card
- PCI-6216V 16-CH 16-Bit Voltage Output Card
- PCI-6208A 8-CH 16-Bit Voltage and Current Output Card

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