PCM-6308V+

PC/104-Plus 8-CH 12-Bit Isolated Analog Output Module

Features

- PC/104-Plus specifications Rev. 1.2 compliant
- 12-bit D/A resolution
- Bipolar or unipolar output ranges
- Isolated 8-CH 12-bit voltage outputs
 External reference input for user-defined
- 4-CH isolated digital outputs and 4-CH isolated Recommended Software digital inputs
- 2500 VRMs optical isolation voltage

■ Operating Systems

- Windows 2000/NT/XP/9x
- DOS
- Red Hat Linux
- Windows CE (call for availability)

- VB/VC++/BCB/Delphi
- DAQBench

■ Driver Support

- PCIS-DASK for Windows 2000/NT/XP/9x
- PCIS-DASK/X for Red Hat Linux
- PCIS-OCX ActiveX controls
- PCIS-LVIEW/PnP for LabVIEW NEW!



Pin Assignment

| CN1 | | | | | | | |
|---------|----|----|---------|--|--|--|--|
| DI3 | 1 | 2 | DO3 | | | | |
| DI2 | 3 | 4 | DO2 | | | | |
| DI1 | 5 | 6 | DO1 | | | | |
| DI0 | 7 | 8 | DO0 | | | | |
| DGND | 9 | 10 | DGND | | | | |
| ExtVref | 11 | 12 | -15Vout | | | | |
| 15Vout | 13 | 14 | AGND | | | | |
| AGND | 15 | 16 | N/C | | | | |
| N/C | 17 | 18 | V7 | | | | |
| V6 | 19 | 20 | AGND | | | | |

| CN2 | | | | | | | | |
|------|----|----|------|--|--|--|--|--|
| AGND | 1 | 2 | N/C | | | | | |
| N/C | 3 | 4 | V5 | | | | | |
| V4 | 5 | 6 | AGND | | | | | |
| AGND | 7 | 8 | N/C | | | | | |
| N/C | 9 | 10 | V3 | | | | | |
| V2 | 11 | 12 | AGND | | | | | |
| AGND | 13 | 14 | N/C | | | | | |
| N/C | 15 | 16 | V1 | | | | | |
| V0 | 17 | 18 | AGND | | | | | |
| AGND | 19 | 20 | AGND | | | | | |

■ PCI-6308V+ PC/104-Plus 8-CH 12-Bit Isolated Analog Output Module

Ordering Information

Introduction

The ADLINK PCM-6308V+ is a high-performance, 12-bit analog output module with PC/104-Plus interface. It provides 8 identical voltage output channels, with each channel capable of bipolar voltage outputs, unipolar voltage output and unipolar 0 to user defined voltage output. The PCM-6308V+ provides good monotonicity, low distortion, and low differential linearity error over long periods of time. The output ranges of the PCM-6308V+ are bipolar -10 to +10 V, unipolar 0 to 10 V and as well as user-defined ranges with external reference input, which are jumper selectable.

Incorporating the PCI bus within the industry proven PC/104 form-factor brings many advantages including fast data transfer over a PCI bus and high reliability due to PC/104's inherent ruggedness. ADLINK PCMI-6308V+ device provides flexible and isolated analog output functionalities and are suitable for ATE, signal generation, industrial process control, servo control and other industrial control applications.

Specifications

Isolated Analog Output

- Number of channels: 8 voltage outputs
- Resolution: 12 bits
- Output ranges (jumper selectable)

| Output ranges | |
|---------------|------------------------|
| Bipolar | ±10 V |
| Unipolar | 0 to 10 V, 0 to EXTREF |

- Settling time: 16 µs (20 V step)
- Maximum update interval:
- 90 µs for four channels simultaneously
- Gain error: ±0.2% max.
- DNL: ±1 LSB
- Output driving capacity: ±5 mA
- Isolation voltage: 2500 VRMS
- Output initial status:
- 0 V (after RESET or POWER-ON)
- Data transfers: programmed I/O

Isolated Digital Input

- Number of channels: 4
- Maximum input range: 24 V, non-polarity
- Digital logic levels
- 0-24 V, non-polarity
- Input high voltage: 5-24 V
- Input low voltage: 0-1.5 V
- ■Input resistance: 2.4 kΩ @ 0.5 W
- Isolation voltage: 2,500 VRMS
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels: 4
- Output type: Photo-coupler transistors
- Supply voltage: 35 Vpc Sink current: 50 mA maximum
- Isolation voltage: 2500 VRMS
- Data transfers: programmed I/O

General Specifications

- I/O Connector: 20-pin ribbon male x 2
- Operating temperature: 0 to 55 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

| 1 Ower requirements | | | | |
|---------------------|----------------|--|--|--|
| +5 V | +12 V | | | |
| 220 mA typical | 175 mA typical | | | |

■ Dimensions (not including connectors) 95 9 mm x 90 2 mm

Termination Boards

■ DIN-20P

Termination Board with a 20-pin Ribbon Connector and DIN-Rail Mounting (Including One 1-meter ACL-10120 Cable)



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