

ACL-6128A

2-CH 12-Bit Isolated Analog Output Card

Features

- Fully compatible with ADLINK phased-out ACL-6128 in software and hardware
 - 2-CH 12-bit multiplying analog outputs
 - Bipolar or unipolar voltage output ranges
 - Unipolar current output ranges
 - 2500 V_{RMS} optical isolation
 - Compact, half-size PCB
 - Register structure compatible with PCL-728
- **Operating Systems**
 - Windows 2000/NT/XP/9x
 - DOS
 - **Recommended Software**
 - VB/VC++/BCB/Delphi
 - Turbo C/Borland C
 - **Driver Support**
 - ACLS-LV/IEW
 - ACLS-DLL/DLL2
 - DOS library



Introduction

ADLINK ACL-6128A is a 2-CH, 12-bit, Isolated Analog Output Card. The ACL-6128A device features flexible configurations on analog outputs. It provides 2 programmable output ranges for both bipolar and unipolar output. With the optical isolation, the ACL-6128A device features protection for both system and external devices.

The ACL-6128A also features 2-CH current output, and the sink current ranges from 0 to 20 mA or 4 to 20 mA. ADLINK ACL-6128A delivers cost-effective and reliable analog output capabilities and is ideal for a broad variety of applications.

Specifications

Voltage Output

- Number of channels: 2
- Resolution: 12 bits
- Output ranges (jumper selectable)

Output Ranges	
Bipolar	±10 V, ±5 V, ±EXTREF
Unipolar	0 to 10 V, 0 to 5 V, 0 to EXTREF

- Accuracy : ± 0.012 % of FSR
- Linearity : ± 1/2 LSB
- Settling time: 60µs to ± 0.5 LSB
- Isolation voltage : 2500 V_{RMS}
- Data transfers: programmed I/O

Current Output

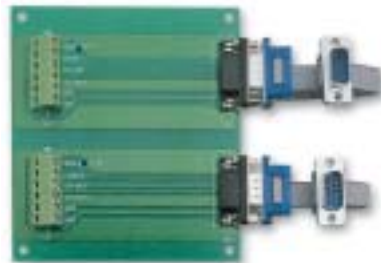
- Number of channels: 2
- Resolution: 12 bits
- Current sink ranges: 0-20 mA or 4-20 mA
- Isolation voltage : 2500 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector: 9-pin D-sub female x 2
- Operating temperature: 0 to 55 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95 %, noncondensing
- Power requirements: +5 V @ 780 mA typical, 1 A max
- Dimensions (not including connectors)
163 mm x 107 mm

Termination Boards

- **ACLD-7285**
Termination Board with Two 9-pin D-sub Connectors (Including One 0.3-meter 9-pin D-sub



Pin Assignment

VOUT	1	6	AGND
AGND	2	7	REFIN
ISINK	3	8	AGND
AGND	4	9	+15Vout
AGND	5		

Ordering Information

- **ACL-6128A**
2-CH 12-bit Isolated Analog Output Card

- 1 Software Solutions
- 2 PXI/ CompactPCI Platforms
- 3 PXI-Based Instruments
- 4 PXI/ CompactPCI Modules
- 5 PCI DAQ Cards
- 6 PCI DIO Cards
- 7 PC/ 104-Plus Products
- 8 ISA DAS/ DIO Cards
- 9 Wiring Termination Boards
- 10 Motion Control Cards
- 11 Machine Vision Products
- 12 Remote I/O Modules