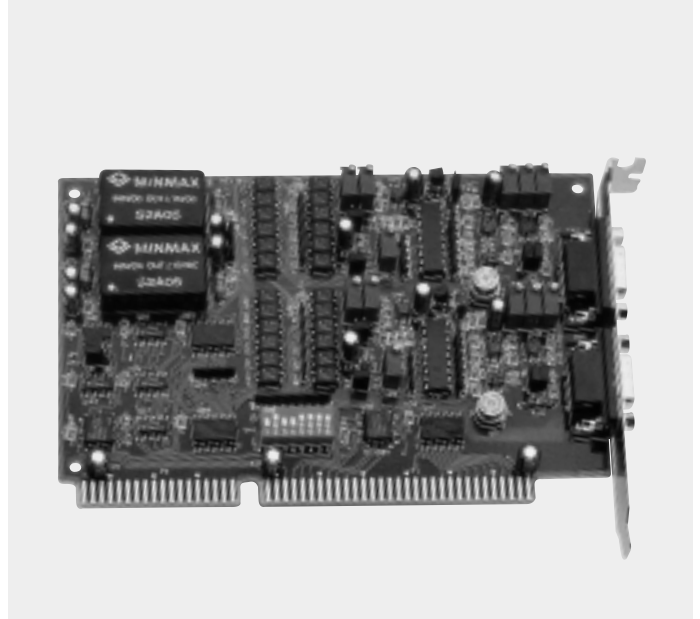


ACL-6128

Isolated 2-CH Analog Output Card

Features

- Two independent 12-bit analog output channels
- >5000 Vrms Isolation (channel-to-channel, input-to-output)
- 12-bit resolution, double buffered D/A converter
- Multiple voltage or current range
 - Bipolar: $\pm 5V$, $\pm 10V$
 - Unipolar: $0 \sim 10V$, $0 \sim 5V$
 - Current Sink: $0 \sim 20mA$, or $4 \sim 20mA$ current loop
- Integral DC-to-DC converter for stable output operation
- Compact, half size PCB
- 4-layer PCB with an internal ground plane
- Register structure is compatible with PCL-728



Introduction

The ACL-6128 is a two channel analog output card for PC/AT and compatibles. Photo couplers isolate the external ground from the host ground. It contains two identical D/A converters with 12 bit resolution and 16 kHz throughput on each DAC. Both voltage and current outputs are supported. An ideal analog output device for cost effective industrial application solutions.

General Information

- Connector: Two 9-pin D-type connectors
- Operating temperature: $0^{\circ} \sim 55^{\circ} C$
- Storage temperature: $-20^{\circ} \sim 80^{\circ} C$
- Humidity: 5~95%, non-condensing
- Power requirement:
 - +5V @ 780mA typical, 1A max
- Dimension: 163 mm x 107 mm

Termination Boards

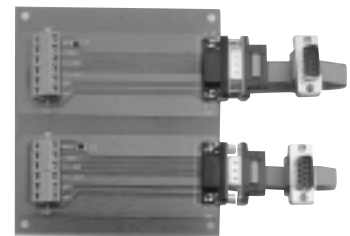
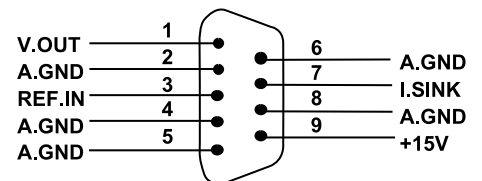
- ACLD-7285

Ordering Information

ACL-6128

Isolated 2-CH Analog Output Card

Pin Assignments for the DB-9 Connector



ACLD-7285

Specifications

Analog Output (D/A)

- Number of channels: 2 isolated channels
- Resolution range: 12 bit, double buffered
- DA Converter: AD7541 or equivalent
- Settling time: $\leq 60 \mu s$
- Throughput: 16 kHz
- Output range
 - Unipolar: $0 \sim 5V$ or $0 \sim 10V$
 - Bipolar: $\pm 5V$ or $\pm 10V$
 - Current loop (sink): $0 \sim 20 mA$; $4 \sim 20mA$
- Voltage output source impedance: 60Ω
- Accuracy: $\pm 0.012\%$ or FSR
- Non-linearity: ± 1 bits LSB
- Temperature coefficient: 5 PPM/
- Reference voltage
 - Internal : $-5V$ or $-10V$
 - External: $+10V$ or $-10V$ (max.), AC or DC
- Isolation voltage: >5000V rms, channel-to-channel and input-to-output