**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 Vrms 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-LVIEW
  - 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)

<table>
<thead>
<tr>
<th>Output Ranges</th>
<th>Bipolar</th>
<th>Unipolar</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>±10 V, ±5 V, ±EXTREF</td>
<td>0 to 10 V, 0 to 5 V, 0 to EXTREF</td>
</tr>
</tbody>
</table>

- Accuracy: ± 0.012 % of FSR
- Linearity: ± 1/2 LSB
- Settling time: 60 µs to ± 0.5 LSB
- Isolation voltage: 2500 Vrms
- 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 Vrms
- 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**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>VOUT</td>
</tr>
<tr>
<td>2</td>
<td>AGND</td>
</tr>
<tr>
<td>3</td>
<td>ISINK</td>
</tr>
<tr>
<td>4</td>
<td>AGND</td>
</tr>
<tr>
<td>5</td>
<td>AGND</td>
</tr>
<tr>
<td>6</td>
<td>AGND</td>
</tr>
<tr>
<td>7</td>
<td>REFIN</td>
</tr>
</tbody>
</table>

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

*All specifications are subject to change without further notice.*

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