**PCM-7250+**

**PC/104-Plus 8-CH Relay & Isolated Digital Input Module**

**Features**
- PC/104 Plus module
- 8 Relay actuator outputs
- 8 Photo isolated digital inputs
- LED indicators show activated relays
- On-board relay driving circuits
- Jumper selectable for AC/DC isolated input
- On-board digital input signal conditioning circuits

**Overview**
The PC/104-Plus specification establishes a standard for the use of a high speed PCI bus in embedded applications. Incorporating the PCI bus within the industry proven PC/104 form-factor brings many advantages to end users, including fast data transfer over the PCI bus, low cost due to PC/104’s unique self-stacking bus, and high reliability due to PC/104’s inherent ruggedness.

ADLINK’s PCM Plus series uses PCI bus, thus they need to work with CPU module which supports PC/104-Plus interface.

**Specifications**

**Relay Output**
- Number of relays: 8
- Relay type: Single-pole, double-throw (SPDT)
- Output channels
  - Relay # 0~3 are Form C (includes normally open and close contacts)
  - Relay # 4~7 are Form A (includes normally open only)
- LED indicates each relay’s ON/OFF status for monitoring
- Contact Type: 120VAC @ 0.5A or 24VDC @ 1A
- Contact resistance: Bifurcated
- Relay ON/OFF time: 8 ms typical
- Coil voltage: +5V @ 33mA for each relay

**Isolated Inputs**
- Number of channels: 8
- Photo isolators: PC3H4
- Input signal type: AC or DC
  - AC: don’t care polarity
  - DC: with polarity
- Input voltage range: 0 ~ 24VDC or 24VAC 50 ~ 1,000Hz
- Input Logic Level
  - Logic Low: 0~2.4V
  - Logic High: 3~24V

**Termination Boards Via ACL-10337**

**Cable**
- ACLD-9137
- ACLD-9188
- DIN-37D

**Ordering Information**
PCM-7250+
PC/104-Plus 8-CH Relay & Isolated Digital Input Cards

**Pin Assignment of 37-pin connector when using ACL-10337 Cable**

**Dimension**

**Pin Assignment of the 20 Pin Connector**

<table>
<thead>
<tr>
<th>CN1</th>
<th>CN2</th>
</tr>
</thead>
<tbody>
<tr>
<td>N08</td>
<td>COM1</td>
</tr>
<tr>
<td>C01</td>
<td>N01</td>
</tr>
<tr>
<td>COM2</td>
<td>C02</td>
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<tr>
<td>N02</td>
<td>COM1</td>
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<tr>
<td>C03</td>
<td>N03</td>
</tr>
<tr>
<td>COM2</td>
<td>C04</td>
</tr>
<tr>
<td>N03</td>
<td>COM1</td>
</tr>
<tr>
<td>COM1</td>
<td>N04</td>
</tr>
<tr>
<td>COM2</td>
<td>C05</td>
</tr>
<tr>
<td>N04</td>
<td>COM1</td>
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<tr>
<td>COM2</td>
<td>C06</td>
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<tr>
<td>N05</td>
<td>COM1</td>
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<tr>
<td>COM2</td>
<td>C07</td>
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<tr>
<td>N06</td>
<td>COM1</td>
</tr>
<tr>
<td>COM2</td>
<td>C08</td>
</tr>
<tr>
<td>N07</td>
<td>COM1</td>
</tr>
</tbody>
</table>

**Note:**
- Pin 0 on CN1 corresponds to pin 1 on CN2.
- Pin 19 on CN1 corresponds to pin 19 on CN2.

**Input filters:** RC low pass filter
**Input impedance:** 2.4 KO
**Isolation voltage:** 2.500 V rms channel-to-system power/ground
**Response time**
- 20 µsec without AC Filter
- 2.2 ms with AC Filter

**Contact resistance:** Bifurcated
**Contact type:** 120VAC @ 0.5A or 24VDC @ 1A
**Relay ON/OFF time:** 8 ms typical
**Coil voltage:** +5V @ 33mA for each relay