

# PCI-7258

## 32-CH PhotoMos Relay Outputs & 2-CH Isolated DI Card



### Features

- Supports a 32-Bit 3.3 V or 5 V PCI bus
- 32-CH long-life PhotoMos relay outputs
- Relay output status read back
- 1500 V<sub>RMS</sub> optical isolation for relay outputs
- Onboard LED indicators for relay status
- Onboard connectors for external LED connection
- Onboard relay driving circuits
- 2-CH isolated digital inputs
- Two external interrupt sources
- 2500 V<sub>RMS</sub> optical isolation for digital inputs
- Compact, half-size PCB
- Board ID
- Supported Operating System
  - Windows 7/8 x64/x86, Linux
- Driver and SDK
  - LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET
- Software Utility
  - AD-Logger

### Specifications

#### Relay Output

- Number of channels: 32
- Relay type: PhotoMos SPST (Form A)
- Load voltage (peak AC): 350 V
- Continuous load current: 0.12 A
- Peak load current: 0.3 A
- Maximum switching power: 300 mW
- Isolation voltage: 1500 V<sub>RMS</sub>
- Output turn-on resistance: 17 Ω typical
- Output off-state leakage current: 1 μA maximum
- Turn-on time: 0.23 ms typical
- Turn-off time: 0.04 ms typical
- Data transfers: programmed I/O

#### Isolated Digital Input

- Number of channels: 2
- 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: 2500 V<sub>RMS</sub>
- Interrupt sources: digital input channel 0 and 1
- Data transfers: programmed I/O

#### General Specifications

- I/O connector: 68-pin SCSI-II female
- Operating temperature: 0°C to 60°C (32°F to 140°F)
- Storage temperature: -20°C to 80°C (-4°F to 176°F)
- Relative humidity: 5% to 95%, non-condensing
- Power requirements
 

+5 V
380 mA max.
- Dimensions (not including connectors)  
175 mm x 107 mm (6.82" x 4.17")

### Terminal Boards & Cables

- DIN-68S-01  
Terminal Board with One 68-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)
  - ACL-10569-1  
68-pin SCSI-II cable (mating with AMP-787082-7), 1 M
- \* For more information on mating cables, please refer to P3-48/49.

### Ordering Information

- **PCI-7258**  
32-CH PhotoMos Relay Outputs & 2-CH Isolated DI Card