

PCI/PCIe-7256

16-CH Latching Relay Outputs & 16-CH Isolated DI Card



Features

- Supports a 32-Bit 3.3V 5V PCI bus (PCI-7256)/ PCIe x1 bus (PCIe-7256)
- 16-CH latching SPDT relays
- Latching relays
- Power saving on relay actuation
- Output status unchanged when power-off
- Onboard LED indicators for relay status
- Relay output status read back
- Onboard relay driving circuits
- Onboard connectors for external LED connection
- 16-CH isolated digital inputs
- 2500 VRMS optical isolation for digital inputs
- Change-of-state (COS) interrupt
- Onboard low-pass filtering for digital inputs
- Two external interrupt sources
- Onboard isolated +5 V power for dry contact inputs
- Compact, half-size PCB
- Board ID
- Supported Operating System
 - Windows 7/8.1 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: 16
- Relay type: Latching SPDT (Form C), latching
- The output status will keep unchanged when power-off
- Isolation voltage: 1500 VRMS
- Contact rating
 - AC: 125 V @ 0.5 A
 - DC: 30 V @ 1 A
- Breakdown voltage: 1000 VRMS
- Contact resistance: 60 mΩ
- Relay ON/OFF time
 - Operate time: 3 ms
 - Release time: 3 ms
- LED indicators
 - Onboard LEDs for relay status
 - Onboard connectors for external LED connection
- Expected relay life:
 - >2x10⁵ operations @ 1 A, 30 VDC
 - > 10⁵ operations @ 0.5 A, 125 VAC
- Data transfer: programmed I/O

Isolated Digital Input

- Number of channels: 16
- Maximum input range: 24 V, non-polarity
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 10-24 V
 - Input low voltage: 0-2 V
- Input resistance: 4.7 kΩ @ 0.5 W
- Isolation voltage: 2500 VRMS channel-to-system
- Interrupt sources: Change-of-state interrupt, digital input channel 0 and 1
- Data transfer: programmed I/O

Isolated Power Supply

- Output voltage: +5 V
- Output current: 170 mA max @ 40°C

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

	PCI-7256			PCIe-7256		
	+5V	+3.3V	+12V	+5V	+3.3V	+12V
Typical	340mA	36.3mA	141mA	340mA	36.3mA	141mA
Max.	980mA	38.2mA	464mA	980mA	38.2mA	464mA

*When all relays are activated simultaneously.

- 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-7256**
16-CH Latching Relay Outputs & 16-CH Isolated DI PCI Card
- **PCIe-7256**
16-CH Latching Relay Output & 16-CH Isolated DI PCIe Card