PCI/PCIe-7256

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

Features

- Supports a 32-Bit 3.3V 5V PCI bus, Plug and Play (PCI-7256)
- Supports a PCI Express x1, Plug and Play (PCIe-7256)
- 16-CH latching SPDT relay outputs
- Power saving on relay actuation
- Output status unchanged when power-off
- On-board LED indicators for relay status
- 16-CH isolated DI
- Change-of-status (COS) interrupt
- Board ID



PCI-7256



PCIe-7256

Introduction

ADLINK's PCI/PCIe-7256 features all Form C type relays, ideal for device connection with on/off control. With latching relays, the PCI/PCIe-7256 further provides operating power conservation, while the status of each latching relay output is indicated by onboard LED. When the relay is in SET, its corresponding LED lights. Latching relays also feature unchanged status even when the system powered off, making the PCI/PCIe-7256 suitable for critical applications requiring output status to be maintained even under fault conditions. All digital input channels are non-polar and optically isolated, and may be set for optional use of RC filter. The PCI/PCIe-7256 also features a change-of-state (COS) function generating interrupt when any digital input changes state.

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

Optional Accessories

- **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

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 V_{RMS}
- Contact rating
  - AC: 125 V @ 0.5 A
  - DC: 30 V @ 1 A
- Breakdown voltage: 1000 V_{RMS}
- 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:
  - >$2x10^5$ operations @ 1 A, 30 V_{DC}
  - >10^5 operations @ 0.5 A, 125 V_{AC}
- 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 V_{RMS} 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
Typical	340mA	36.3mA	141mA
Max.	980mA	38.2mA	464mA

∗ When all relays are activated simultaneously.

- Dimensions (not including connectors)
  175 mm x 107 mm (6.82” x 4.17”)

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