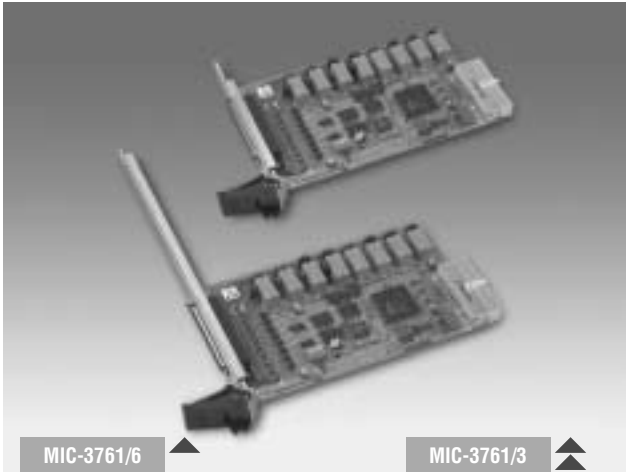


MIC-3761

8-ch Relay Actuator and 8-ch Isolated Digital Input Card



Features

- 8 relay output channels and 8 isolated digital input channels
- LED indicators to show activated relays
- 4 Form C and 4 Form A type relay output channels
- Output status read-back
- Retained relay output values when hot system reset
- High-voltage isolation on input channels (3,750 V_{DC})
- High ESD protection (2,000 V_{DC})
- High overvoltage protection (70 V_{DC})
- Wide input range (10 ~ 50 V_{DC})
- Interrupt handling capability
- BoardID™ switch

Introduction

The MIC-3761 relay actuator and isolated digital input card is an add-on card for the CompactPCI bus. It provides 8 opto-isolated digital inputs with isolation protection of 3,750 V_{DC} for collecting digital inputs in noisy environments, and 8 relay actuators for serving as ON/OFF control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its ON/OFF status. The MIC-3761's eight optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

Rugged Protection

The MIC-3761 digital input channels feature rugged protection for industrial, lab and machinery automation applications. It durably withstands voltage up to 3,750 V_{DC}, protecting your host system from any incidental harms. If connected to an external input source with surge-protection, the MIC-3761 can offer up to a maximum of 2,000 V_{DC} ESD (Electrostatic Discharge) protection. Even with an input voltage rising up to 70 V_{DC}, the MIC-3761 can still manage to work properly for a short period of time.

Reset Protection Fulfills Requirement for Industrial Applications

When the system has undergone a hot reset (i.e. without turning off the system power), the MIC-3761 can either retain output values of each channel, or return to its default configuration as open status, depending on its on-board jumper setting. This function protects the system from unwanted operations during unexpected system resets.

Specifications

Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (50 V max.)
- **Input Current*** 10 V_{DC} 1.6 mA (typical) 12 V_{DC} 1.9 mA (typical)
24 V_{DC} 4.1 mA (typical) 48 V_{DC} 8.5 mA (typical)
50 V_{DC} 8.9 mA (typical)
- **Interrupt Capable Ch.** ID0-ID7
- **Isolation Protection** 3,750 V_{DC}
- **Overvoltage Protection** 70 V_{DC}
- **Opto-Isolator Response** 25 μs
- **Input Resistance** 560 Ω

Relay Output

- **Channels** 8
- **Relay Type** SPDT (4 Form A, and 4 Form C)
- **Contact Rating** 3 A @ 250 V_{AC} or 3 A @ 24 V_{DC}
- **Relay on Time** 15 ms max.
- **Relay off Time** 5 ms max.
- **Life Span** Mechanical 2 x 10⁷ ops. min.
Electrical 2x10⁵ ops. min. (contact rating)
- **Resistance** 1 GΩ min. (at 500 V_{DC})

*Note: The current specifications are limited by the cable and wiring terminal board.

General

- **PICMG Compliance** CompactPCI V2.0, R 3.0
Hot-Swap V2.1, R 2.0, R 2.1
- **Bus Type** CompactPCI
- **I/O Connectors** 1 x 37-pin D-type female connector
- **Dimensions** 160 x 100 mm (6.9" x 3.9") with 3U/6U Bracket
- **Power Consumption** Typical: +5 V @ 220 mA
Max.: +5 V @ 750 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Operating Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Certifications** CE

Ordering Information

- **MIC-3761/3** 3U 8-ch Relay Actuator and 8-ch Isolated D/I Card, user's manual and driver CD-ROM. (cable not included)
- **MIC-3761/6** 6U 8-ch Relay Actuator and 8-ch Isolated D/I Card, user's manual and driver CD-ROM. (cable not included)
- **PCL-10137-1/2/3** DB-37 cable assembly, 1, 2 and 3 m
- **ADAM-3937** DB-37 Wiring Terminal for Din-rail Mounting
- **PCLD-780** Universal Screw Terminal Board

1
Software

2
IPPC

3
TPC

4
FPM

5
ATM & AWS

6
DA&C

7
cPCI

8
ADAM-3000

9
Motion Control

10
ICOM

11
Industrial Networking

12
UNO

13
ADAM-4000

14
ADAM-5000

15
ADAM-6000

16
ADAM-8000

17
BAS