

# PCM-3730I

# PCM-3753I

# PCM-3761I

32-ch Isolated Digital I/O PCI-104 Module

96-ch Digital I/O PCI-104 Module

8-ch Relay and 8-ch Isolated Digital Input  
PCI-104 Module



## Features

- High-voltage isolation on input channels (2,500 V<sub>DC</sub>)
- High output driving capacity
- Interrupt handling capability
- High-voltage isolation on output channels

## Specifications

### Isolated Digital Input

- Channels** 16
- Input Voltage** Logic 0: 3 V max.  
Logic 1: 5 V min.  
30 V max.
- Input Current** 2.5 mA @ 5 V  
15 mA @ 30 V
- Input Resistance** 2 kW 0.5 W
- Isolation Voltage** 2,500 V<sub>DC</sub>
- Over Voltage Protection** 70 V<sub>DC</sub>
- Opto-isolator Response Time** 25 μs
- Interrupt Capable** All channels

### Isolated Digital Output

- Channels** 16
- Output Voltage** 5 to 30 V<sub>DC</sub>
- Open Collector**
- Output Sink Current** 200 mA max.
- Isolation Voltage** 2,500 V<sub>DC</sub>
- Over Current Protection** 1.6 A per 8 channels
- Opto-isolator Response Time** 25 μs

### General

- Bus Type** PCI-104
- I/O Connectors** 2 x 20-pin IDC
- Dimensions (L x H)** 96 x 90 mm (3.8" x 3.5")
- Operating Temperature** -20 ~ 70° C
- Storage Temperature** -50 ~ 120° C

## Ordering Information

- PCM-3730I** 32-ch Isolated Digital I/O PCI-104 Module
- ADAM-3920** 20-pin DIN-rail Wiring Board
- PCL-10120-1** 20-pin Flat Cable, 1 m
- PCL-10120-2** 20-pin Flat Cable, 2 m

## Features

- Supports dry/wet contact
- Keeps the last output value after system hot reset
- Interrupt handling capability
- "Pattern match" and "change of state" interrupt functions
- Output status read-back
- Interrupt output pin for simultaneously triggering external devices

## Specifications

### Digital Input/Output

- Channels** 96 (bi-directional)
- Compatibility** 5 V/TTL
- Input Voltage** Logic 0: 0.8 V max.  
Logic 1: 2.0 V min.
- Output Voltage** Logic 0: 0.4 V max.  
Logic 1: 2.4 V min.
- Output Capability** Sink: 0.4 V @ 24 mA  
Source: 2.4 V @ 15 mA

### General

- Bus Type** PCI-104
- I/O Connectors** 4 x IDC-50 pin
- Dimensions (L x H)** 96 x 90 mm (3.8" x 3.5")
- Operating Temperature** -20 ~ 70° C
- Storage Temperature** -50 ~ 120° C

## Ordering Information

- PCM-3753I** 96-ch Digital I/O PCI-104 Module w/ 50p Cable
- PCL-10150-1.2** 50-pin Flat Cable, 1.2 m
- ADAM-3950** 50-pin DIN-rail Flat Cable Wiring Board
- PCLD-782B** 24-ch IDI Board w/ 20-pin & 50-pin Flat Cables
- PCLD-785B** 24-ch Relay Board w/ 20-pin & 50-pin Flat Cables

## Features

- 8 Form C type relay output channels
- Retained relay output values when hot system reset
- High-voltage isolation on input channels (2,500 V<sub>DC</sub>)
- Wide input range (5 ~ 30 V<sub>DC</sub>)
- Interrupt handling capability

## Specifications

### Isolated Digital Input

- Channels** 8
- Input Voltage** Logic 0: 3 V max.  
Logic 1: 5 V min.  
30 V max.
- Input Current** 2.5 mA @ 5 V  
15 mA @ 30 V
- Input Resistance** 2 kW 0.5 W
- Isolation Protection** 2,500 V<sub>DC</sub>
- Overvoltage Protection** 70 V<sub>DC</sub>
- Interrupt Capable** All channels
- Opto-isolator Response Time** 25 μs

### Relay Output

- Channels** 8
- Relay Type** DPDT, Form C
- Contact Rating** 240 V<sub>AC</sub> @ 0.25 A,  
or 30 V<sub>DC</sub> @ 1 A
- Relay on Time** 5 ms max.
- Relay off Time** 4 ms max.
- Life Span** 1 x 10<sup>7</sup> @ 6 V/100 mA
- Resistance Contact** < 50 mΩ
- Insulation** 1 GW min. (at 500 V<sub>DC</sub>)

### General

- Bus Type** PCI-104
- I/O Connectors** 1 x IDC-50 pin,  
1 x IDC-20 pin
- Dimensions (L x H)** 96 x 90 mm (3.8" x 3.5")
- Operating Temperature** 0 ~ 60° C (32 ~ 140° F)  
(refer to IEC 68-2-1, 2)
- Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)

## Ordering Information

- PCM-3761I** 8-ch Relay/Isolated Digital Input PCI-104 Module
- ADAM-3920** 20-pin DIN-rail Flat Cable Wiring Board
- ADAM-3950** 50-pin DIN-rail Flat Cable Wiring Board
- PCL-10150-1.2** 50-pin Flat Cable, 1.2 m
- PCL-10120-1** 20-pin Flat Cable, 1 m
- PCL-10120-2** 20-pin Flat Cable, 2 m