Платы дискретного ввода/вывода серии PCM-37 XX

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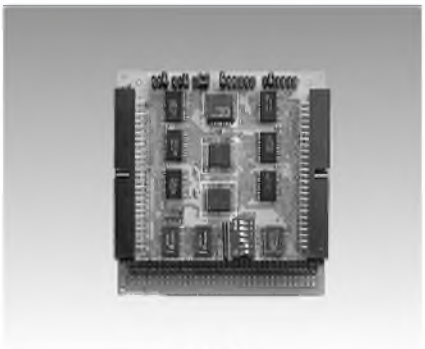
PCM-3724
PCM-3725
PCM-3730

48-Channel Digital I/O Module

8-ch IDI and 8-ch Relay Output Module

32-ch Isolated Digital I/O Module



PCM-3724

PCM-3725

PCM-3730

Features

- Output status read back
- Channels simulate 8255 PPI mode 0
- Interrupt triggering, rising/falling edge

Features

- LED indicators to show activated relays
- Interrupt handling capability

Features

- Opto-isolated 8 DI and 8 DO channels
- TTL-level 16 DI and 16 DO channels
- High output driving capacity
- Interrupt handling capacity

Specifications

General

- **Channels** 48 digital I/O channels
- **Throughput** 300 Kbps typical; 400 K bps max.
- **Input Voltage** Logic 0: 0.8 V max. Logic 1: 2.0 V min.
- **Output Voltage** Logic 0: 0.5 V max. @ 24 mA (sink) Logic 1: 2.0 V min. @ 15 mA (source)

Mechanical and Environmental

- **Dimension (L x W)** 96 mm x 90 mm (3.8" x 3.5")
- **Weight** 0.084 kg (0.185 lb)
- **Operating Temperature** Operating: 0 ~ 60° C (32 ~ 140° F) Storage: -40 ~ 85° C (-40 ~ 185° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing

Power

- **Power Supply Voltage** +5 V, ±5 % tolerance on power supply

Ordering Information

- **PCM-3724** 48-channel digital I/O module (cable not included)
- **ADAM-3950** 50-pin flat cable wiring terminal for DIN-Rail mounting
- **PCLD-785B** 24-channel relay output board
- **PCLD-782B** 24-channel opto-isolated digital input board
- **PCL-10150-1.2** 50-pin flat cable, 1.2 m

Specifications

General

- **Channels** Opto-Isolated 8 DI channels
- **Over-voltage Protect** 70 V_{DC}
- **Isolation Voltage** 2500 V_{DC}
- **Isolator Response Time** 25 µs
- **Channels** 8-ch SPDT (Form C) relays
- **Nominal Switch** 1.5 A @ 30 V_{DC}
- **Switching Power** 45 W max.
- **Switching Voltage** 220 V_{DC} max.
- **Switching Current** 1.5 A max.
- **Breakdown Voltage** 2000 Vrms for 1 min.
- **Isolated DI Connector** 20-pin post header
- **Relay Output Connector** 50-pin post header

Power

- **Power Consumption** 100 mA @ +5 V (typical); 280 mA @ +5 V (max)

Ordering Information

- **PCM-3725** 8-ch Isolated Digital Input and 8-ch Relay Output Module, user's manual and driver CD-ROM. (cable not included)
- **PCL-10120-1/2** 20-pin Flat Cable 1/2 m
- **PCL-10150-1.2** 50-pin Flat Cable 1.2 m
- **ADAM-3920** 20-pin Flat Cable Wiring Terminal for DIN-Rail
- **ADAM-3950** 50-pin Flat Cable Wiring Terminal for DIN-Rail
- **PCLD-780** Screw-Terminal Board for 20-pin Flat Cable

Specifications

Isolated Digital I/O

- **Channels** Opto-Isolated 8 DI and 8 DO channels
- **Input Resistance** 2 kohm @ 0.5 W
- **Output Voltage** Open collector 5 to 40 V_{DC}
- **Output Sink Current** 200 mA max.
- **Isolation Voltage** 2,500 V_{DC}
- **Throughput** KHz max.

TTL-level Digital I/O

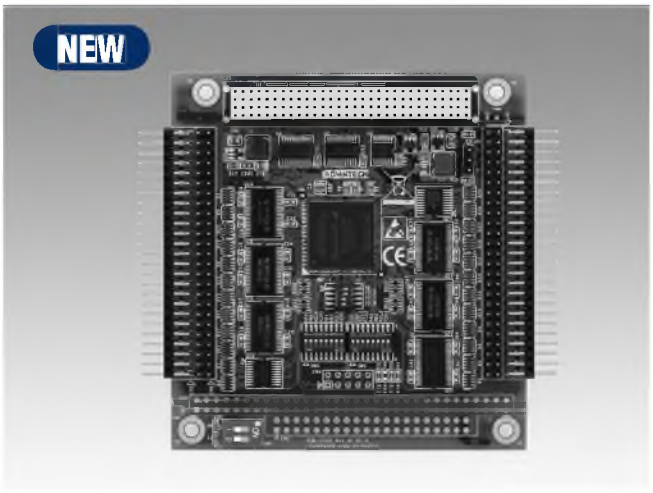
- **Channels** TTL-level 16 DI and 16 DO channels
- **Input Voltage** Low: 0.8 V max. High: 2.0 V min.
- **Output Voltage** Low: Sink 0.5 V @ 8 mA max. High: Source 2.4 V @ -0.4 mA min.
- **Input Load** Low: 0.5 V @ 0.4 mA max. High: 2.7 V @ 0.05 mA max.
- **Throughput** 30 KHz typical

Ordering Information

- **PCM-3730** 16-channel Isolated Digital I/O Module (cable included)
- **ADAM-3920** 20-pin flat cable wiring terminal for DIN-Rail mounting
- **PCLD-780** Screw-terminal board for 20-pin flat cable
- **PCLD-785/885** 16-ch relay/power relay output board
- **PCLD-782** 16-ch Opto-isolated digital input board
- **PCL-10120-1/2** 20-pin flat cable, 1/2 m

PCM-3753I

96-ch Digital I/O PCI-104 Module



Features

- 96 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Multiple-source interrupt handling
- Output status read-back
- "Pattern match" and "Change of state" interrupt functions for critical I/O monitoring
- Keeps I/O setting and digital output values when hot system reset
- Supports dry contact and wet contact
- 50-pin box header

Introduction

PCM-3753I is a 96-bit digital I/O card for the PC-104 Plus bus. The card emulates mode 0 of the 8255 PPI chip, but the buffered circuits offer a higher driving capability than the 8255. The 96 I/O lines are divided into twelve 8-bit I/O ports: A0, B0, C0, A1, B1, C1, A2, B2, C2, A3, B3 and C3. You can configure each port as input or output via software.

Specifications

Digital Input/Output

- **I/O Channels** 96
- **Programming Mode** 8255 PPI mode 0
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
- **Output Voltage** Logic 0: 0.44 V max.
Logic 1: 3.76 V min.
- **Output Capability** Sink: 0.44 V max. @ 24 mA
Source: 3.76 V min. @ 24 mA

General

- **Bus Type** PCI-104
- **I/O Connector** 50-pin box header x 4
- **Dimensions (L x H)** 96 x 90mm (3.8" x 3.5")
- **Power Consumption** Typical: +5 V @ 400 mA
Max: +5 V @ 2.7 A
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F) (refer to IEC 68-2-3)
- **Storing Humidity** 5 ~ 95% RH, non-condensing

Ordering Information

- **PCM-3753I** 96-ch Digital I/O PCI-104 Module
- **ADAM-3950** 50-pin flat cable wiring terminal for DIN-Rail mounting
- **PCLD-785B** 24-ch Relay Output Board
- **PCLD-782B** 24-ch Opto-isolated DI Board
- **PCL-10150-1.2** 50-pin flat cable, 1.2 m

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_{DC})
- 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_{DC}
- **Over Voltage Protection** 70 V_{DC}
- **Opto-isolator Response Time** 25 µs
- **Interrupt Capable** All channels

Isolated Digital Output

- **Channels** 16
- **Output Voltage Open Collector** 5 to 30 V_{DC}
- **Output Sink Current** 200 mA max.
- **Isolation Voltage** 2,500 V_{DC}
- **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 capacity
- "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_{DC})
- Wide input range (5 ~ 30 V_{DC})
- 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_{DC}
- **Overvoltage Protection** 70 V_{DC}
- **Interrupt Capable** All channels
- **Opto-isolator Response Time** 25 µs

Relay Output

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

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

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