PCM-37D24DI

24-Channel Isolated Digital I/O, M.2 B+M key (3042, PCIe*1), DB37



Features

- Meets Advantech iDoor technology standard
- M.2 2242 B+M Key compliant (PCI Express)
- Supports wide-input/output voltage (10-30 V_{DC}/5-30 V_{DC})
- High over-voltage-protection (70 $V_{\text{DC}})$ and voltage isolation (2,500 $V_{\text{DC}})$
- Easy configuration & efficient programming by Advantech DAQNavi
- I/O address automatically assigned by PCIe plug & play
- Keeps the output settings and values after system hot reset
- Compatible with embedded automation PC UNO-1/2/3/4 series
- Compliant with FCC/CE Class A Certification
- Operation temperature 0~60 degree support

Introduction

M.2 3042 B+M Key compliant

Typical: +3.3 V @ 400 mA Max.: +3.3V @ 520 mA

Module: 42 x 30 x 10 mm (1.65" x 1.18" x 0.39")

I/O Plate: 81 x 41 x 19.4 mm (3.19" x 1.61" x 0.76")

PCIe Express

16

CE. FCC class A

1 x Female DB37

Logic 0: 0~3 V_{DC}

Logic 0: Open

5K Ohm

70 Vnc

100 µs

MOSFET

2,500 V_{DC}

 $5 \sim 30 V_{DC}$

100 mA max./channel

Response 50 µs

8

2,500 V_{DC}

Logic 1: 10~30 V_{DC}

10 V_{DC} @ 2.97 mA

20 V_{DC} @ 6.35 mA 30 V_{DC} @ 9.73 mA

Logic 1: Shorted to GND

4KV (Contact), 8KV (Air)

The PCM-37D24DI is a DIO (Digital Input/Output) port that allows devices to send and receive binary signals for communication and control in various applications. It enables effective control and communication and is widely used in automation, data acquisition, and control systems to efficiently manage and monitor external devices. This is a flexible design that enables customers to customize their features with iDoor Technology.

Specifications

General

- Bus Type
- Interface
- Certification
- Connectors
- Dimensions
- Power Consumption

Isolated Digital Input

- Input Channels
- Input Voltage (Wet Contact)
- Input Voltage (Dry Contact)
- Input Current
- Input Resistance
- Isolation Protection
- Overvoltage Protection
- ESD Protection
- Opto-Isolator Response

Isolated Digital Output

- Output Channels
- Output Type
- Isolation Protection
 Output Voltage
- Sink Current
- Opto-isolator
- Upiu-Isulaiu

Software

- Tools & Drivers
- OS Support

Advantech DAQNavi Tools & API Drivers Microsoft[®] Windows[®] XP/7/8 Linux Ubuntu 14.04, OpenSUSE 13.1, Fedora 20, Debian 6.08, Red Hat 6.5

Environment

- Operating Humidity 10 ~ 95% RH @ 40 °C/104 °F, non-condensing
- Operating Temperature 0 ~ 60°C (32 ~ 140°F)
- Storage Temperature -20 ~ 80°C (-4 ~ 176°F)

Dimensions





Ordering Information

PCM-37D24DI-AE

Accessories

- PCL-10137-1E
- PCL-10137-2E
- PCL-10137-3E
 ADAM-3937-BE
 - ADAM-3937-BE

Iso. Digital I/O, 16DI/8DO, M.2 B+M key (3042, PCle*1), DB37 x 1

- DB-37 Shielded Cable, 1m
 - DB-37 Shielded Cable, 2m
 - DB-37 Shielded Cable, 3m
- DB-37 Wiring Terminal, DIN-rail Mount