

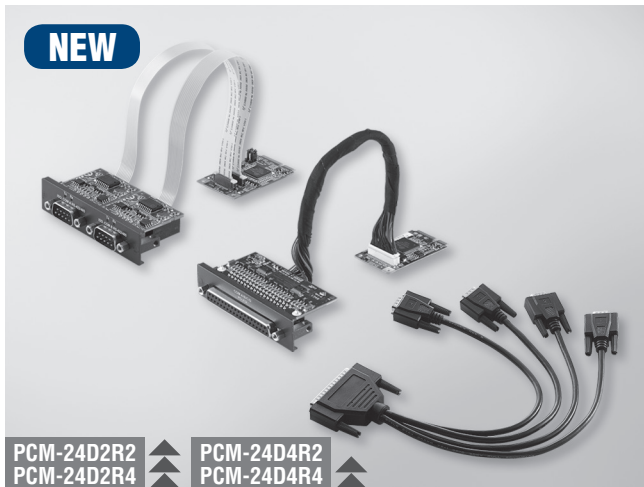
PCM-24D2R2 PCM-24D2R4 PCM-24D4R2 PCM-24D4R4

2-Port Isolated RS-232, mPCIe, DB9

2-Port Isolated RS-422/485, mPCIe, DB9

4-Port Non-Isolated RS-232, mPCIe, DB37 cable

4-Port Non-Isolated RS-422/485 mPCIe, DB37 cable



Features

- Meets Advantech Standard iDoor Technology
- PCI Express® Mini Card Specification Revision 1.2 compliant
- Speeds up to 921.6 kbps for extremely fast data transmission
- Supports any baud rate setting (50 bps ~ 921.6 kbps)
- Supports both Isolated & Non-Isolated Protection with 2/4 ports RS-232/422/485
- I/O address automatically assigned by PCIe plug & play
- Supports Windows XP/Vista/7, Linux Ubuntu 12.10
- OXPCIe952/OXPCIe954 UART with 128-byte FIFOs standard
- Supports Embedded Automation PC UNO-2200/2300/2400 series
- Supports Control DIN-Rail PC UNO-1200/1300/1400 series
- Supports Control Cabinet PC UNO-3200/3300/3400 series
- Supports Control Panel Computers TPC-xx81/xx82 series
- Supports Thin Client Panel Computers TPC-xx51 series

Introduction

The PCM-24 series are categorized as communication modules from Advantech iDoor Technology. They are all compatible with the PCI Express® Mini Card Specification Revision 1.2, including Isolated / Non-Isolated RS-232/422/485 communication cards for automation control, Wi-Fi/3G/GPS/GSM/LTE wireless communication models for data exchange during the management and machine level of automation application, Zigbee module as an IoT terminal or controller and PoE function for smart camera in detect inspection application of production. This is a flexible design that enables customers to customize their features which meet iDoor Technology.

Specifications

General

- Bus Type** PCI Express Mini Card Revision 1.2
- Certification** CE, FCC class A
- Connectors** 2 x Male DB9 for PCM-24D2xx
1 x Female DB37 for PCM-24D4xx
- Dimensions** Module: 51 x 30 x 12.4 mm (2" x 1.18" x 0.49")
I/O Plate: 81 x 19.4 x 41 mm (3.19" x 0.76" x 1.61")
- Power Consumption** 400 mA @ +3.3 V for PCM-24D2xx
500 mA @ +3.3 V for PCM-24D4xx

Communications

- Comm. Controller** OXPCIe952 for PCM-24D2xx
OXPCIe954 for PCM-24D4xx
- Data Bits** 5, 6, 7, 8
- Data Signals** RS-232: TX, RX, RTS, CTS, DTR, DSR, DCD, DI, GND
RS-422: TX+, TX-, RX+, RX-, (PCM-24D4R4)
TX+, TX-, RX+, RX-, CTS+, CTS-, RTS+, RTS- (PCM-24D2R4)
RS-485: Data+, Data-
128 bytes
- FIFO** 128 bytes
- Flow Control** RTS/CTS (PCM-24D4R4 not supported), Xon/Xoff
- Parity** None, Odd, Even, Mark and Space
- Speed** 50 bps ~ 921.6 kbps (PCM-24D2R4 & PCM-24D4R4)
230.4 kbps (PCM-24D2R2 & PCM-24D4R2)
- Stop Bits** 1, 1.5, 2

Protection

- Isolation Protection** 2,000 V_{DC} for PCM-24D2xx only
- ESD Protection** 15 KV
- EFT Protection** 2,500 V
- Surge Protection** 1,000 V_{DC}

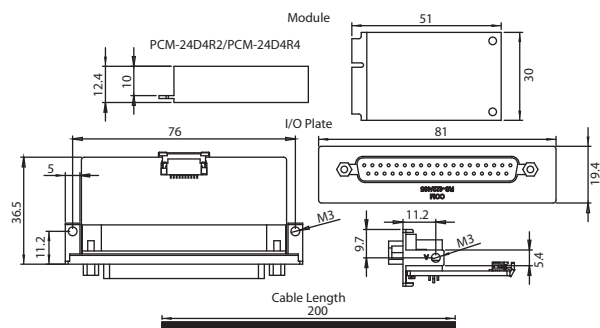
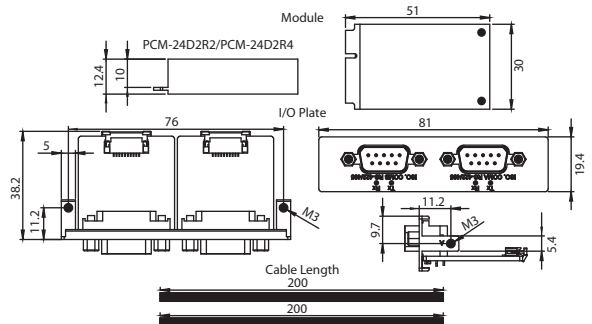
Software

- Bundled Software** ICOM Tools & Drivers
- OS Support** Microsoft® Windows® XP/Vista/7, Linux Ubuntu 12.10

Environment

- Humidity (Operating)** 5-95% RH, non-condensing
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F)
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)

Dimensions



Ordering Information

- PCM-24D2R2-AE** 2-Port Isolated RS-232, mPCIe, DB9
- PCM-24D2R4-AE** 2-Port Isolated RS-422/485, mPCIe, DB9
- PCM-24D4R2-AE** 4-Port Non-Isolated RS-232, mPCIe, DB37 cable
- PCM-24D4R4-AE** 4-Port Non-Isolated RS-422/485 mPCIe, DB37 cable