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

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 iDoor Technology Standard
- Speeds up to 921.6 kbps for extremely fast data transmission
- Supports any baud rate setting (200 bps ~ 921.6 kbps)
- The PCM-24D2Rx (2 ports RS233/422/485) supports Isolated Protection
- Supports Win7/Win10
- 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. It includes Isolated / Non-Isolated RS-232/422/485 communication cards for automation control, Wi-Fi/3G/GPS/GSM/LTE wireless communication modules for data exchange during the management and machine level of automation application and PoE function for smart camera in detect inspection application of production. The iDoor Technology increases the flexibility to configure the required features for different application.

Specifications

General

Bus Type	mini PCIe
Host Interface	USB2.0
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

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-
FIFO	4K bytes
Flow Control	RTS/CTS (PCM-24D4R4 not supported)
Parity	Odd/Even/Mark/Space/No Parity
Speed	200 bps ~ 921.6 kbps (PCM-24D2R4 & PCM-24D4R4) 230.4 kbps (PCM-24D2R2 & PCM-24D4R2)
Stop Bits	1/2 stop bits

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}

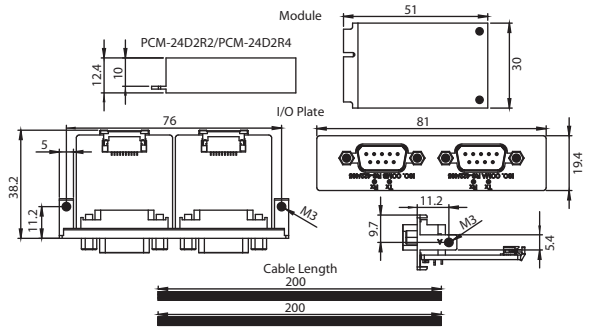
Software

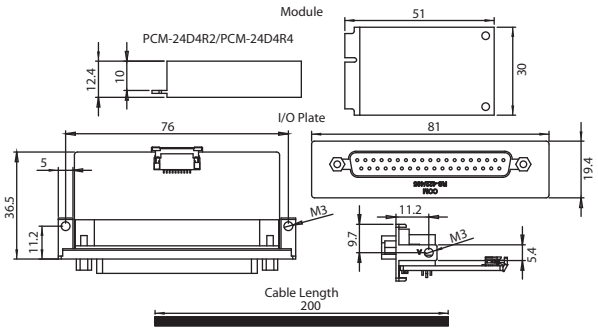
OS Support	Microsoft® Windows® 7/10

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-BE	2-Port Isolated RS-232 mPCIe, DB9 x 2
PCM-24D2R4-BE	2-Port Isolated RS-422/485 mPCIe, DB9 x 2
PCM-24D4R2-BE	4-Port Non-Isolated RS-232 mPCIe, DB37 x 1
PCM-24D4R4-BE	4-Port Non-Isolated RS-422/485 mPCIe, DB37 x 1

Note: PCM-24D4R2-BE and PCM-24D4R4-BE include a "DB37(male) to 4 x DB9(male)" cable 1700027086-02

All product specifications are subject to change without notice.

Last updated: 2-Nov-2026