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

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 2000/XP/Vista/7, Linux 2.4/2.6
- 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-
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 only) and any other baud rate setting 230.4 kbps
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}

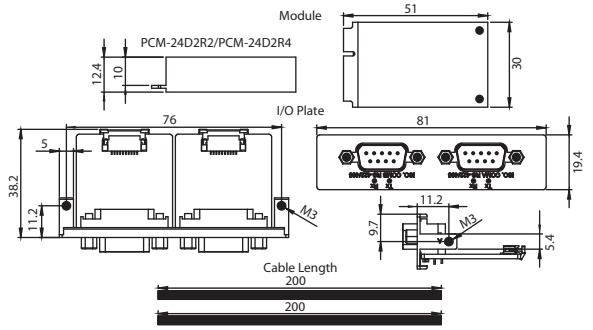
Software

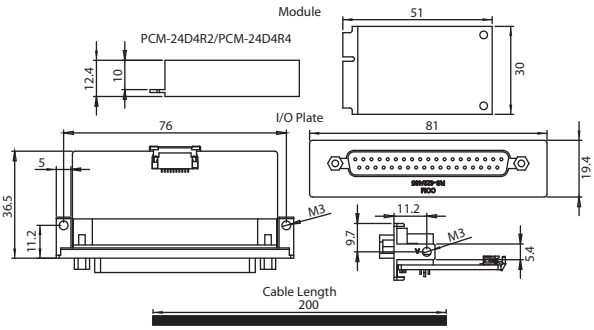
Bundled Software	ICOM Tools & Drivers
OS Support	Microsoft® Windows® 2000/XP/Vista/7 and Linux

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	OXPCIe-952 UART, Isolated RS-232, DB9 x 2
PCM-24D2R4-AE	OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2
PCM-24D4R2-AE	OXPCIe-954 UART, Non-Isolated RS-232, DB37 x 1
PCM-24D4R4-AE	OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1

All product specifications are subject to change without notice