

# Industio CI-132 Series

## 2 Ports RS-422/485 Industrial Communication Board for ISA

### Overview

The Industio CI-132 series is designed for RS-422/485 industrial communication. It supports 2 independent RS-422 or RS-485 ports, which can control up to 64 devices in a multidrop environment.

Automatic Data Direction Control (ADDC) intelligence is built on each CI-132 board to eliminate the need of software interference. Hence, applications can easily manage the data transmitting and receiving of the half-duplex RS-485 port without extra code. In addition, on-chip hardware flow control, built-in termination resistors, optional optical isolation and surge protection deliver high reliability for harsh industrial applications.

### Features

- Support Automatic Data Direction Control (ADDC) intelligence to simplify the RS-485 software programming
- Built-in termination resistors, no headache for impedance matching
- ASIC design, Compact board size (half-size), suitable for any PC cabinet
- On-chip hardware flow control, no data loss
- Support surge protection, max. 25KV ESD (CI-132IS)
- Support optical isolation, max. 2KV (CI-132I, CI-132IS)



CI-132IS



CI-132I



CI-132

### Applications

- Multipoint data acquisition
- Industrial control
- Factory automation
- Embedded industrial machine
- Remote serial device control
- SCADA

Port	2	4	8	16	32
Interface	232	422	485		

## Specification

### Hardware

I/O controller	Male DB9
Connector type	16C550C or compatible x 2

### Interface

Bus interface	ISA(16 bit)
Serial interface	RS-422/485
No. of port	2
Signals	RS-422: TxD+/-, RxD+/-, RTS+/-, CTS+/-, GND RS-485: Data+/-, GND
Built-in termination resistor	RS-422: 120 Ohm RS-485: 120 Ohm, jumper enable/disable

### Performance

Speed	50 ~ 921.6K bps
Max. no. of port	8 (4 boards)

### Configuration

Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	2(9), 3, 4, 5, 7, 10(Default), 11, 12, 15
I/O address	0x0000~0xFFFF Default:0x180

### OS supported

CI-132	Windows 2000, Windows NT,
CI-132I	Windows 95/98, DOS
CI-132IS	

### Power and Environment

Power requirement	
CI-132 :	240mA max. (+5V)
CI-132I :	520mA max. (+5V)
CI-132IS:	790mA max. (+5V)
Operating temp.	0 ~ 55°C
Dimension	157mm x 75mm

Surge protection	25KVESD (Optional)
Optical isolation	2KV (Optional)

## Ordering Information

CI-132	2 ports RS-422/485 board
CI-132I	2 ports RS-422/485 board with optical isolation (2KV)
CI-132IS	2 ports RS-422/485 board with optical isolation (2KV) and surge protection (25KVESD)
All items include	<ul style="list-style-type: none"> <li>• Windows NT, Windows 95/98, and DOS drivers and manual</li> <li>• MOXA PComm Lite serial comm developing tool</li> </ul>