

Industio CI-134 Series

4 Ports RS-422/485 Industrial Communication Board

Overview

The Industio CI-134 series is designed for RS-422/485 industrial communication. It supports 4 independent RS-422/485 ports which can control up to 128 devices in a multidrop environment.

To ease the 2-wire RS-485 half-duplex control, an Automatic Data Direction Control intelligence is built on each CI-134 board, eliminating the need of software interference. Hence, the Windows applications can manage the RS-485 port without extra code to control the half-duplex protocol.

To meet the demand of high reliability in industrial environment, an optical isolation option (2KV) and surge protection (25KV ESD) are also available in this series.

Features

- Support Automatic Data Direction Control (ADDC), intelligence to simplify the RS-485 software programming
- Built-in termination resistors already installed on-board, no headache for impedance matching
- RS-485 data control: auto or by RTS
- ASIC design in half-size
- Support surge protection, max. 25KV ESD (CI-134IS)
- Support optical isolation, max. 2KV (CI-134I, CI-134IS)



CI-134IS



CI-134I



CI-134

Applications

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

Port	2	4	8	16	32
Interface	232	422	485		

Specification

Hardware

I/O controller	16C550C or compatible x 4
Connector type	DB37 to male DB9

Interface

Bus interface	ISA(16 bit)
Serial interface	RS-422/485
No. of port	4
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	16 (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-134	Windows 2000, Windows NT,
CI-134I	
CI-134IS	Windows 95/98, Windows 3.x, DOS

Power and Environment

Power requirement	
CI-134 :	450mA max. (+5V)
CI-134I :	610mA max. (+5V)
CI-134IS :	723mA max. (+5V)
Operating temp.	0 ~ 55°C

Dimension	
CI-134 :	160mm x 85mm
CI-134I :	180mm x 110mm
CI-134IS :	180mm x 110mm
Surge protection	25KV ESD, (Optional)
Optical isolation	2KV (Optional)

Ordering Information

CI-134	4 ports RS-422/485 board
CI-134I	4 ports RS-422/485 board with optical isolation (2KV)
CI-134IS	4 ports RS-422/485 board with optical isolation (2KV) and surge protection (25KV ESD)
All items include	<ul style="list-style-type: none"> • Cable (DB37 to male DB9x 4 male connectors) • Windows NT, Windows 95/98, Windows 3.x and DOS drivers and manual • MOXA PComm Lite serial comm developing tool