



Industio **CI-134 Series**

4 Port RS-422/485 Industrial Communications Board

Overview ■

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

By using ADDC™ (Automatic Data Direction Control) intelligence, applications can easily manage the half-duplex RS-485 port's data transmission and receiving without the need to write extra code.

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

Features ■

- Available with optical isolation and surge protection as options
- Supports ADDC™ (Automatic Data Direction Control) intelligence
- RS-485 data control: ADDC™ or by RTS
- Built-in termination resistors
- On-chip hardware flow control
- Low repair rate with ASIC design
- Works perfectly with all major Operating Systems

Benefits ■

- High reliability in harsh industrial environments
- ADDC™ intelligence simplifies RS-485 software programming, reducing development time and cost

Applications ■

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

Ports Interface	1	2	4	8	16	32
RS-232						
RS-422			√			
RS-485			√			

Specifications

Hardware

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

Interface

Bus	ISA (16 bit)
Serial	RS-422/485
No. of ports	4
Signals	RS-422: TxD+/-, RxD+/-, RTS+/-, CTS+/-, GND
	RS-485: Data+/-, GND
RS-485 data control	Auto ADDC™ or by RTS
Built-in termination resistor	RS-422: 120 Ohm
	RS-485: 120 Ohm, jumper enable / disable

Performance

Speed	50 bps – 921.6 Kbps
Max. No. of ports	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 XP, Windows 2000, Windows NT, Windows 95/98/ME, Windows 3.x, DOS, SCO Open Server, SCO UNIX,
CI-134I	SCO XENIX, Linux 2.0.x (Intel x86),
CI134IS	Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha), Linux 2.4.x (Intel x86), QNX 4.2.x, OS/2, FreeBSD

Power and Environment

Power requirements	CI-134:	450 mA max. (+5V)
	CI-134I:	610 mA max. (+5V)
	CI-134IS:	620 mA max. (+5V)
Operating temp.	0 – 55°C	
Operating Humidity	5 – 95%RH	
Storage Temp.	-20 – 85°C	
Dimensions	CI-134:	160 x 85 mm (W x D)
	CI-134I:	180 x 110 mm (W x D)
	CI-134IS:	180 x 110 mm (W x D)
Surge Protection	CI-134IS:	25 KV ESD for serial port
Optical Isolation	CI-134I:	2 KV
	CI-134IS:	2 KV
Regulatory approvals	FCC, CE	

Ordering Information

CI-134	4 port RS-422/485 board
CI-134I	4 port RS-422/485 board with optical isolation
CI-134IS	4 port RS-422/485 board with optical isolation and surge protection
All items include	<ul style="list-style-type: none"> MOXA software CD-ROM: contains drivers, and MOXA PComm Lite serial comm development tool User's Manual Cable (DB37 to Male DB9 x 4 connectors)



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