# CI-134 Series
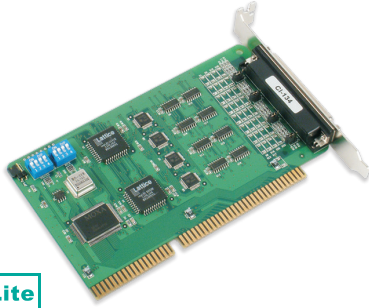
## *4-port RS-422/485 ISA serial boards*



> Cost-effective ISA boards with 4 RS-422/485 ports
> RS-485 data direction control with ADDC® or by RTS
> 921.6 Kbps maximum baudrate for super fast data transmission
> 16-byte FIFO and on-chip hardware flow control
> Surge protection and optical isolation available
> Built-in termination resistors

PComm Lite

RoHS ☒ CE FC

## Overview

The CI-134 series ISA boards come with 4 independent RS-422/485 serial ports for connecting data acquisition equipment and other serial devices to a PC. Connect your devices over longer distances—up to 1.2 km (4000 ft)—and ensure greater reliability in industrial environments with on-board surge protection and optical isolation (available with some models). Enjoy greater versatility by using point-to-point full duplex connections, or set up a half duplex RS-485 multi-drop network.

## Specifications

### Hardware
**Comm. Controller:** 16C550C or compatible x 4
**Bus:** 16-bit ISA
**Connector:** DB37 female

### Serial Interface
**Number of Ports:** 4
**Serial Standards:** RS-422/485
**Max. No. of Boards per PC:** 4

### Serial Line Protection
**ESD Protection:** 25 KV on the board (CI-134IS only)
**Optical Isolation:** 2 KV (CI-134I/IS only)

### Performance
**Baudrate:** 50 bps to 921.6 Kbps

### Serial Communication Parameters
**Data Bits:** 5, 6, 7, 8
**Stop Bits:** 1, 1.5, 2
**Parity:** None, Even, Odd, Space, Mark
**I/O Address:** 0x0000-0xFFFF (default = 0x180)
**IRQ:** 2 (9), 3, 4, 5, 7, 10 (default), 11, 12, 15

### Serial Signals
**RS-422:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), RTS+(B), RTS-(A), CTS+(B), CTS-(A), GND
**RS-485-4w:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
**RS-485-2w:** Data+(B), Data-(A), GND

### Driver Support
**Operating Systems:** Windows 9X/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64, Windows 3.x, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 x86/x64, SCO Open Server 5/6, UnixWare 7, QNX 4/6, FreeBSD 4/5, Solaris 10 x86/x64
Note: Please refer to Moxa's website for the latest driver support information.

### Physical Characteristics
**Dimensions:**
CI-134: 85 x 160 mm (3.35 x 6.30 in)
CI-134I/IS: 110 x 180 mm (4.33 x 7.09 in)

### Environmental Limits
**Operating Temperature:** 0 to 55°C (32 to 131°F)
**Storage Temperature:** -20 to 85°C (-4 to 185°F)
**Ambient Relative Humidity:** 5 to 95% (non-condensing)
**Altitude:** Up to 2000 m
Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

### Standards and Certifications
**EMC:** CE, FCC
**EMI:** EN 55022, FCC Part 15 Subpart B Class B
**EMS:** EN 61000-4-2, EN 61000-4-3, EN 61000-4-4
**Green Product:** RoHS, CRoHS, WEEE

### MTBF (mean time between failures)
**Time:** 424,655 hrs
**Database:** Telcordia (Bellcore), GB

### Power Requirements
**Power Consumption:**
CI-134: 450 mA max. @ +5 V
CI-134I: 610 mA max. @ +5 V
CI-134IS: 620 mA max. @ +5 V

### Warranty
**Warranty Period:** 5 years
**Details:** See www.moxa.com/warranty

## Ordering Information

### Available Models
**CI-134-DB9M:** 4-port RS-422/485 ISA serial board (includes DB9 male cable)
**CI-134I-DB9M:** 4-port RS-422/485 ISA serial board with optical isolation (includes DB9 male cable)
**CI-134IS-DB9M:** 4-port RS-422/485 ISA serial board with optical isolation and surge protection (includes DB9 male cable)

### Connection Options (one cable is included with each board)
**CBL-M37M9x4-30:** DB37 male to DB9 male x 4 connection cable, 30 cm
**CBL-M37M25x4-30:** DB37 male to DB25 male x 4 connection cable, 30 cm

### Package Checklist
- 1 CI-134 board
- DB9 male or DB25 male connection cable
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card