

CI-134 Series

4-port RS-422/485 ISA serial boards



PCComm Lite

- > 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 electrical isolation available
- > Built-in termination resistors



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 electrical 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

Electrical Isolation: 2 kV (CI-134I/IS only)

Performance

Baudrate: 50 bps to 921.6 kbps

Built-in Termination Resistor: 120 ohm (enabled by jumper for RS-485-2w)

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

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)

Driver Support

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows 3.x, DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded

Linux: Linux 2.4.x, 2.6.x, 3.x

Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Note: Please refer to Moxa's website for the latest driver support information.

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)

Standards and Certifications

EMC: EN 55032/24

EMI: CISPR 32, FCC Part 15B Class B

EMS:

IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV

IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m

IEC 61000-4-4 EFT: Signal: 2 kV

MTBF (mean time between failures)

Time: 424,655 hrs

Standard: Telcordia (Bellcore) TR/SR

Power Requirements

Input Current:

CI-134: 450 mA @ 5 VDC

CI-134I: 610 mA @ 5 VDC

CI-134IS: 620 mA @ 5 VDC

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 (CBL-M37M9x4-30 cable included)

CI-134I-DB9M: 4-port RS-422/485 ISA serial board with electrical isolation (CBL-M37M9x4-30 cable included)

CI-134IS-DB9M: 4-port RS-422/485 ISA serial board with electrical isolation and surge protection (CBL-M37M9x4-30 cable included)

CI-134 w/o Cable: 4-port RS-422/485 ISA serial board (CBL-M37M25x4-30 cable included)

CI-134I w/o Cable: 4-port RS-422/485 ISA serial board with electrical isolation (CBL-M37M25x4-30 cable included)

CI-134IS w/o Cable: 4-port RS-422/485 ISA serial board with electrical isolation and surge protection (CBL-M37M25x4-30 cable included)

Connection Options (one cable is included with each board)

CBL-M37M9x4-30: M37 to 4 x DB9-M cable, 30 cm

CBL-M37M25x4-30: M37 to 4 x DB25-M cable, 30 cm

Package Checklist

- 1 CI-134 board
- 1 connection cable
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card