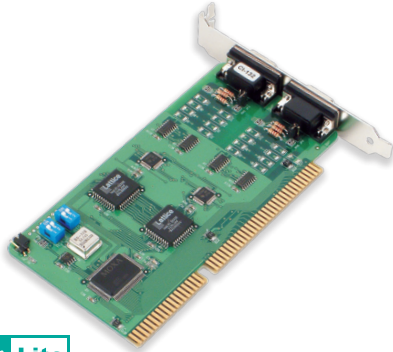


# CI-132 Series

## 2-port RS-422/485 ISA serial boards



PComm Lite

- > Economical RS-422/485 ISA boards with two DB9 male connectors on the board for easy wiring
- > 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



### Overview

The CI-132 series ISA boards come with 2 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 2

**Bus:** 16-bit ISA

**Connectors:** DB9 male x 2

#### Serial Interface

**Number of Ports:** 2

**Serial Standards:** RS-422/485

**Max. No. of Boards per PC:** 4

#### Serial Line Protection

**ESD Protection:** 25 KV on the board (CI-132IS only)

**Optical Isolation:** 2 KV (CI-132I/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-485-2w:** Data+(B), Data-(A), GND

**RS-485 Data Control:** ADDC® (automatic data direction control), or by RTS

#### Driver Support

**Operating Systems:** Windows 9X/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 x86/x64, QNX 4/6, FreeBSD 4/5, SCO OpenServer 5/6, UnixWare 7

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

#### Physical Characteristics

##### Dimensions:

CI-132: 75 x 157 mm (2.95 x 6.18 in)

CI-132I/IS: 105 x 157 mm (4.13 x 6.18 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:** 441,015 hrs

**Database:** Telcordia (Bellcore), GB

##### Power Requirements

**Power Consumption:**

CI-132: 240 mA max. @ +5 V

CI-132I/IS: 620 mA max. @ +5 V

##### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

## : Ordering Information

### Available Models

**CI-132:** 2-port RS-422/485 ISA serial board

**CI-132I:** 2-port RS-422/485 ISA serial board with optical isolation

**CI-132IS:** 2-port RS-422/485 ISA serial board with optical isolation and surge protection

### Package Checklist

- 1 CI-132 board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card