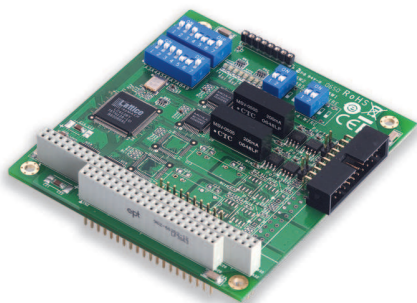


# CA-132/132I Series

## 2-port RS-422/485 PC/104 modules with optional 2 KV isolation



- > 921.6 Kbps maximum baudrate for super fast data transmission
- > On-chip software flow control
- > Built-in 15 KV ESD protection
- > IRQ, I/O, and serial interface jumper and DIP switch selectable
- > Onboard Tx and Rx LED indicators for each port
- > Supports RS-485 ADDC® (Automatic Data Direction Control)
- > Windows CE 5.0/6.0 and Windows XP embedded operating systems supported
- > Wide temperature models available for -40 to 85°C environments



### Overview

The CA-132/132I PC/104 modules are reliable, high performance, multiport serial communication solutions that have 2 RS-422/485 ports, and can be used with PC/104 CPU boards that accept the

PC/104 expansion interface. Optional DB9 and DB25 connection cables are available for connecting to serial devices, and the CA-132/132I's versatile driver support makes the modules suitable for a wide range of applications.

### Specifications

#### Hardware

**Comm. Controller:** 16C550C or compatible x 2

**Bus:** PC/104 bus

**Connector:** 20-pin box header

**LED Indicators:** Built-in TX, RX LEDs for each port

**DIP Switches:** I/O base address, interrupt vector

#### Serial Interface

**Number of Ports:** 2

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

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

#### Serial Line Protection

**ESD Protection:** 15 KV on the board

**Optical Isolation:** 2 KV (CA-132I 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

**IRQ:** 3, 4, 5, 6, 7, 9, 10, 11, 12, 15 (shared for all ports)

**FIFO:** 64 bytes

#### Serial Signals

**RS-422:** TxD+(B), TxD-(A), RxD+(B), RxD-(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

x86/x64, Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 x86/x64, QNX 4/6

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

#### Physical Characteristics

**Dimensions:** 90 x 96 mm (3.54 x 3.78 in)

#### Environmental Limits

##### Operating Temperature:

Standard Models: 0 to 55°C (32 to 131°F)

Wide Temp. Models: -40 to 85°C (-40 to 185°F)

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Standards and Certifications

**EMC:** CE, FCC

**EMI:** EN 55022, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class A

**EMS:** EN 55024, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 (DIPS)

**Green Product:** RoHS, CRoHS, WEEE

**MTBF** (mean time between failures)

**Time:** 536,288 hrs

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

#### Power Requirements

##### Power Consumption:

CA-132: 155 mA @ +5 V

CA-132I: 190 mA @ +5 V

#### Warranty

**Warranty Period:** 5 years

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

### Ordering Information

#### Available Models

**CA-132:** 2-port RS-422/485 PC/104 module, 0 to 55°C operating temperature

**CA-132I:** 2-port RS-422/485 PC/104 module with optical isolation protection, 0 to 55°C operating temperature

**CA-132-T:** 2-port RS-422/485 PC/104 module, -40 to 85°C operating temperature

**CA-132I-T:** 2-port RS-422/485 PC/104 module with optical isolation protection, -40 to 85°C operating temperature

#### Connection Options (can be purchased separately)

**CBL-F20M9x2-50:** 20-pin box header to DB9 male x 2 connection cable, 50 cm

**CBL-F20M25x2-50:** 20-pin box header to DB25 male x 2 connection cable, 50 cm

#### Package Checklist

- 1 CA-132 or CA-132I module
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card