

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

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.



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-132/132Is' 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

Connectors: 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 (2000/XP/2003/Vista, 9X/ME/NT), Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 (x86/x64), QNX 4/6

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)

Operating Humidity: 5 to 95% RH

Storage Temperature: -40 to 55°C (-40 to 131°F)

Regulatory Approvals

FCC: Part 15 Class A

EMS: EN55022, EN55024, EN61000-3-2, EN61000-3-3, 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)

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

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

- CA-132 or CA-132I module
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card