

CA-132/132I

2-port RS-422/485 PC/104 Modules with Optical Isolation Protection



Features

- > Data transmission speed up to 921.6 Kbps
- > On-chip hardware flow control
- > Built-in 15 KV ESD Surge Protection
- > Jumper and DIP Switch selectable IRQ, I/O settings, serial interface
- > Onboard Tx, Rx LED indicators for each port
- > Supports RS-485 ADDC™ (Automatic Data Direction Control) intelligence
- > Built-in termination resistors enabled by DIP switch
- > Support Windows CE and XP Embedded operation systems



: Overview

The CA-132/132I are 2-port RS-422/485 PC/104 modules that meet the embedded PC standard. The modules work with PC/104 CPU boards that accept the PC/104 expansion interface, and come with 2

RJ45 ports, and optional DB9 or DB25 connection cables for greater versatility.

: Specifications

Hardware

I/O controller: 16C550C or compatible x 2
Connector type: 20-pin Box Header

Interface

Bus: PC/104 ISA bus (Ver. 2.4)
No. of ports: 2
Max. No. of ports: 8 (4 boards)

Signals

RS-422: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
4-wire RS-485: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
2-wire RS-485: Data+(B), Data-(A), GND

Performance

Baudrate: 50 bps to 921.6 Kbps

Configuration

Parity: None, Even, Odd, Space, Mark
Data bits: 5, 6, 7, 8
Stop bit(s): 1, 1.5, 2

IRQ: Shared IRQ for all ports (includes IRQ 3, 4, 5, 6, 7, 9, 10, 11, 12, 15)
FIFO: 64 bytes
DIP Switches: For IO-Base address, Interrupt vector, serial interface
OS Driver Support: DOS, Windows 2000/XP/2003, Windows XP Embedded, Windows CE 5.0, Linux 2.4, Linux 2.6

Power and Environment

Power Consumption: CA-132: 210 mA (+5V), CA-132I: 455 mA (+5V)
Operating Temperature: 0 to 55°C (32 to 131°F)
Operating Humidity: 5 to 95% RH
Storage Temperature: -20 to 85°C (-4 to 185°F)

ESD Protection: Embedded 15 KV ESD Protection

Optical Isolation: 2 KV (CA-132I)

Dimensions (W x D): CA-132: 96 x 90 mm (W x D)
 CA-132I: 96 x 90 mm (W x D)

Regulatory Approvals

EN55022 Class B, EN55024, EN6100-3-2, EN61000-3-3, FCC Part 15 Class B

Warranty: 5 years

: Ordering Information

CA-132: PC/104 bus, 2-port RS-422/485 Module
CA-132I: PC/104 bus, 2-port RS-422/485 Module with 2 KV optical isolation protection

Optional Accessories (choose one per board)

CBL-F20M9x2-50: 20-pin box header to 2-port male DB9 connection cable
CBL-F20M25x2-50: 20-pin box header to 2-port male DB25 connection cable

Package Checklist

- Document & Software CD-ROM
- Quick Installation Guide