CA-132/132I

PC/104 Isolated, 2-Port RS-422/485 Multiport Serial Board

Features

- **2 RS-422/485 serial interface ports**
- **On-chip hardware flow control**
- **Built-in 16 KV ESD Surge Protection**
- **Jumper and DIP Switch selectable IRQ, I/O settings**
- **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**
- **Works perfectly with all major Operating Systems**

CA-132

CA-132I

CE FC

Overview

CA-132/132I is a 2-port RS-422/485 PC/104 multiport serial board that meets the embedded PC standard. It works with PC/104 CPU boards that accept the PC/104 expansion interface, and comes with 2 RJ45 ports, and optional DB9 or DB25 connection cables to provide flexible connection requirements.

Supported OS Drivers

MOXA's COM port driver not only supports all major operating systems, but also the dedicated operating systems shown here for customers' special needs.

Windows 95/98/ME/NT/XP/2000/2003
Linux
DOS
Free BSD
QNX 4

Designed for
Microsoft®
Windows®2000
Professional
Windows®NT
Workstation 4.0

Specifications

Hardware
I/O controller: 16C550C or compatible x 2
Connector type: 8-pin RJ45
Interface
Bus: PC/104 ISA bus (Ver. 2.4)
No. of ports: 2
RS-422 Signals: Tx+, Tx-, Rx+, Rx-, GND
RS-485 (4-wire) Signals: Tx+, Tx-, Rx+, Rx-, GND
RS-485 (2-wire) Signals: Data+, Data-, GND
LED Indicators: Built-in Tx, Rx indicators for each port
Performance
Speed: 50 bps to 230.4 Kbps
Max. No. of ports: 8 (4 boards)
Configuration
Parity: None, even, odd, space, mark
Data bits: 5, 6, 7, 8
Stop bits: 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
Operating Systems:
DOS, Windows 95/98/ME/NT/XP/2000/2003, Linux 2.4/2.6
Power and Environment
Operating Temperature: 0 to 55°C
Operating Humidity: 5 to 95% RH
Storage Temperature: -20 to 85°C
Surge Protection: 16 KV ESD protection on line driver
Optical Isolation: 2 KV Isolation (CA-132I)
Dimensions: 96 x 90 mm (W x D)
Regulatory Approvals: CE Class B, FCC Class B
Power Consumption:
CA-132: 210 mA (+5V)
CA-132I: 455 mA (+5V)

Connection Options

CBL-RJ45M9-150
8-pin RJ45 to male DB9, 150 cm Cable

CBL-RJ45F9-150
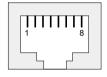8-pin RJ45 to female DB9, 150 cm Cable

CBL-RJ45M25-150
8-pin RJ45 to male DB25 , 150 cm Cable

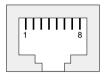**CBL-RJ45F25-150**
8-pin RJ45 to female DB25, 150 cm Cable

Pin Assignment

RS-422/ 4-wire RS-485 Pin Assignment (RJ45)

PIN	Signals
1	---
2	---
3	TxD+
4	TxD-
5	RxD-
6	RxD+
7	GND
8	---

2-wire RS-485 Pin Assignment (RJ45)

PIN	Signals
1	---
2	---
3	--
4	---
5	Data-
6	Data+
7	GND
8	---

Ordering Information

CA-132: PC/104 bus, 2-port RS-422/485 Board
CA-132I: PC/104 bus, 2-port RS-422/485 Board with optical isolation
All items include:
• MOXA Software CD-ROM
• User's Manual

Optional Connectors
CBL-RJ45M9-150: 8-pin RJ45 to male DB9, 150 cm Cable
CBL-RJ45F9-150: 8-pin RJ45 to female DB9, 150 cm Cable
CBL-RJ45M25-150: 8-pin RJ45 to male DB25, 150 cm Cable
CBL-RJ45F25-150: 8-pin RJ45 to female DB25, 150 cm Cable

CA-132/132I