CA-134I Series
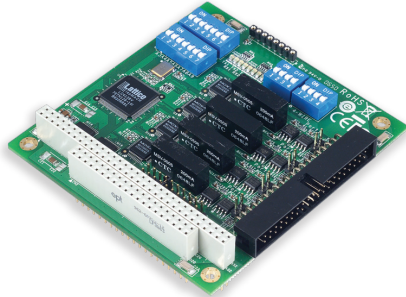
4-port RS-422/485 PC/104 modules with 2 KV isolation

> 921.6 Kbps maximum baudrate for super fast data transmission
> On-chip S/W flow control
> Built-in 15 KV ESD protection
> IRQ settings, I/O settings, and serial interface are jumper and DIP switch selectable
> Onboard Tx and Rx LED indicators for each port
> Windows CE 5.0/6.0 and Windows XP embedded operating systems supported
> Wide temperature model available for -40 to 85°C environments

PComm Lite   -40°C 85°C

Overview

The CA-134I PC/104 modules are reliable, high performance, multiport serial communication solutions that have 4 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-134Is' versatile driver support makes the modules suitable for a wide range of applications.

Specifications

Hardware
Comm. Controller: 16C550C or compatible x 4
Bus: PC/104 bus
Connector: 40-pin box header
DIP Switches: I/O base address, interrupt vector, serial interface

Serial Interface
Number of Ports: 4
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

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)
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, 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: 339,822 hrs
Database: Telcordia (Bellcore), GB

Power Requirements
Power Consumption: 220 mA @ 5 VDC

Warranty
Warranty Period: 5 years
Details: See www.moxa.com/warranty

MOXA®

⠿ Ordering Information

Available Models

CA-134I: 4-port RS-422/485 PC/104 module with optical isolation, 0 to 55°C operating temperature

CA-134I-T: 4-port RS-422/485 PC/104 module with optical isolation, -40 to 85°C operating temperature

Connection Options (can be purchased separately)

CBL-F40M9x4-50: 40-pin box header to DB9 male x 4 connection cable, 50 cm

CBL-F40M25x4-50: 40-pin box header to DB25 male x 4 connection cable, 50 cm

Package Checklist

- 1 CA-134I or CA-134I-T module
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card