CI-132 Series
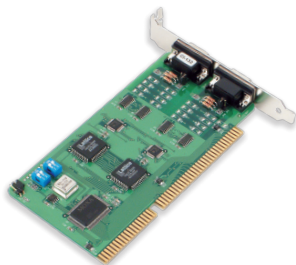
2-port RS-422/485 ISA serial boards

> Economical RS-422/485 ISA boards with two DB9 male connectors on the board for easy wiring
> RS-485 data direction control with ADDC® or by RTS
> 921.6 kbps maximum baudrate for super fast data transmission
> 16-byte FIFO and on-chip hardware flow control
> Surge protection and electrical isolation available
> Built-in termination resistors

PComm Lite

RoHS CE FC

: Overview

The CI-132 series ISA boards come with 2 independent RS-422/485 serial ports for connecting data acquisition equipment and other serial devices to a PC. Connect your devices over longer distances—up to 1.2 km (4000 ft)—and ensure greater reliability in industrial environments with on-board surge protection and electrical isolation (available with some models). Enjoy greater versatility by using point-to-point full-duplex connections, or set up a half-duplex RS-485 multidrop network.

: Specifications

Hardware
Comm. Controller: 16C550C or compatible x 2
Bus: 16-bit ISA
Connectors: DB9 male x 2

Serial Interface
Number of Ports: 2
Serial Standards: RS-422/485
Max. No. of Boards per PC: 4

Serial Line Protection
ESD Protection: 25 kV on the board (CI-132IS only)
Electrical Isolation: 2 kV (CI-132I/IS only)

Performance
Baudrate: 50 bps to 921.6 kbps
Built-in Termination Resistor: 120 ohm (enabled by jumper for RS-485-2w)

Serial Communication Parameters
Data Bits: 5, 6, 7, 8
Stop Bits: 1, 1.5, 2
Parity: None, Even, Odd, Space, Mark
I/O Address: 0x0000-0xFFFF (default = 0x180)
IRQ: 2 (9), 3, 4, 5, 7, 10 (default), 11, 12, 15

Serial Signals
RS-422: TxD+(B), TxD-(A), RxD+(B), RxD-(A), RTS+(B), RTS-(A), CTS+(B), CTS-(A), GND
RS-485-2w: Data+(B), Data-(A), GND
RS-485 Data Control: ADDC® (automatic data direction control), or by RTS

Physical Characteristics
Dimensions:
CI-132: 75 x 157 mm (2.95 x 6.18 in)
CI-132I/IS: 105 x 157 mm (4.13 x 6.18 in)

Driver Support
Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux: Linux 2.4.x, 2.6.x, 3.x
Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD
Note: Please refer to Moxa's website for the latest driver support information.

Environmental Limits
Operating Temperature: 0 to 55°C (32 to 131°F)
Storage Temperature: -20 to 85°C (-4 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications
EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class B
EMS:
IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m
IEC 61000-4-4 EFT: Signal: 2 kV

MTBF (mean time between failures)
Time: 441,015 hrs
Standard: Telcordia (Bellcore) TR/SR

Power Requirements
Input Current:
CI-132: 240 mA @ 5 VDC
CI-132I/IS: 620 mA @ 5 VDC

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

: Ordering Information

Available Models
CI-132: 2-port RS-422/485 ISA serial board
CI-132I: 2-port RS-422/485 ISA serial board with electrical isolation
CI-132IS: 2-port RS-422/485 ISA serial board with electrical isolation and surge protection

Connection Options (can be purchased separately)
CBL-F9M9-150: DB9-F to DB9-M serial cable, 150 cm
CBL-F9M9-20: DB9-F to DB9-M serial cable, 20 cm

Package Checklist
- 1 CI-132 board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card