CI-132 Series

2-port RS-422/485 ISA serial boards

> Economical RS-422/485 ISA boards with 2 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 optical isolation available
> Built-in termination resistors

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 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 optical isolation (available with some models). Enjoy greater versatility by using point-to-point full duplex connections, or set up a half duplex RS-485 multi-drop network.

: Specifications

Hardware

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

Serial Interface

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

Serial Line Protection

ESD Protection: 25 KV on the board (CI-132IS only)
Optical 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

Driver Support

Operating Systems: Windows (2000/XP/2003/Vista/2008, 9X/ME/NT), Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 (x86/x64), QNX 4/6, FreeBSD 4/5, SCO OpenServer 5/6, UnixWare 7

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)

Environmental Limits

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)

Regulatory Approvals

FCC: Part 15 Class B
EMS: EN55022, EN61000-4-2, EN61000-4-3, EN61000-4-4, ENV50204

Power Requirements

Power Consumption:
CI-132: 240 mA max. @ +5 V
CI-132I/IS: 620 mA max. @ +5 V

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 optical isolation
CI-132IS: 2-port RS-422/485 ISA serial board with optical isolation and surge protection

Package Checklist

- CI-132 series board
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card