CP-132EL/EL-I

2-port RS-422/485 smart PCI Express boards with 2 KV isolation protection

CP-132EL-I

CP-132EL

> PCI Express x1 compliant
> 921.6 Kbps maximum baudrate for super fast data transmission
> 128-byte FIFO and on-chip H/W, S/W flow control
> Low profile form factor fits small-sized PCs
> Drivers provided for Windows (2000, XP/2003/Vista/2008 x86 & x64), Linux 2.4/2.6
> 15 KV ESD protection on the board

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.

: Overview

The CP-132EL and CP-132EL-I are 2-port PCI Express boards designed for industrial automation applications that require a long distance, multi-point, PC-based data acquisition solution.

RS-485 multidrop for up to 32 devices within 1.2 km
The CP-132EL/EL-I boards have 2 RS-422/485 serial ports, each of which can achieve data rates up to 921.6 Kbps. In RS-485 mode, the

boards can connect up to 32 daisy-chained RS-485 devices within a range of 1.2 km. For long distance RS-485 communication, choose the CP-132EL-I model, which comes with 2 KV optical isolation protection to prevent equipment damage.

: Drivers Provided for Windows and Linux

Moxa continues to support a wide variety of operating systems, and the CP-132EL/EL-I boards are no exception. Reliable Windows COM and Linux TTY drivers are provided for all Moxa boards, and other

operating systems, such as WEPOS, are also supported for embedded integration.

: Specifications

Hardware
Comm. Controller: 16C550C compatible
Bus: PCI Express x1
Connector: DB25 female
Serial Interface
Number of Ports: 2
Serial Standards: RS-422/485
Number of Boards: 4 per PC (max.)
Serial Line Protection
ESD Protection: 15 KV on the board
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
Flow Control: XON/XOFF
I/O Address: Assigned by BIOS
IRQ: Assigned by BIOS
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 (2000, XP/2003/Vista/2008 x86 & x64), Linux 2.4/2.6
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: EN55022, EN55024, EN61000-3-2, EN61000-3-3, EN61000-6-2, 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, FCC Part 15 Class B
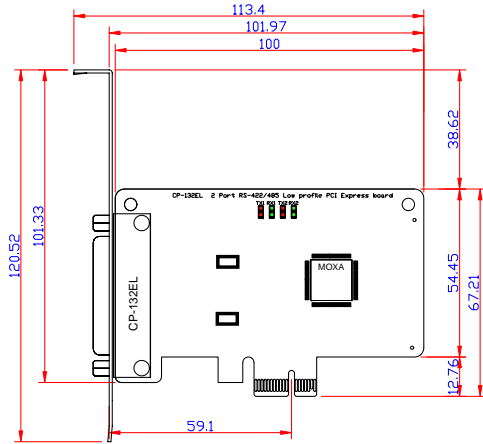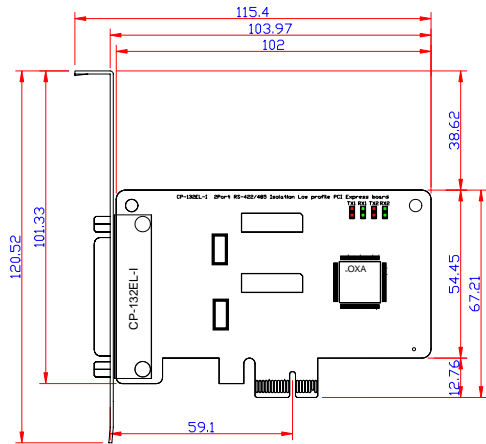
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions (Unit: mm)

CP-132EL

CP-132EL-I

: Ordering Information

Available Models

CP-132EL: 2-port RS-422/485 smart, low profile PCI Express x1 serial board

CP-132EL-I: 2-port RS-422/485 smart, low profile PCI Express x1 serial board with 2 KV optical isolation protection

Package Checklist

- CP-132EL or CP-132EL-I board
- Low profile bracket
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

Connection Options (can be purchased separately)

CBL-M25M9x2-50
DB25 male to DB9 male x 2 (50 cm cable)

PIN	RS-422/RS-485-4w	RS-485-2w
1	TxD-(A)	---
2	TxD+(B)	---
3	RxD+(B)	Data+(B)
4	RxD-(A)	Data-(A)
5	GND	GND
6	---	---
7	---	---
8	---	---

DB9 male

Multiport Serial Boards > CP-132EL/EL-I