CP-132EL/EL-I

2-port RS-422/485 PCI Express boards with optional 2 kV isolation



- > PCI Express x1 compliant
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 128-byte FIFO and on-chip S/W flow control
- > Low profile form factor fits small-sized PCs
- > Drivers provided for a broad selection of operating systems. including the latest Windows and Linux













Overview

PComm Lite

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

RS-485 multidrop for up to 31 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 31 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 electrical isolation protection to prevent equipment damage.

Drivers Provided for Windows, Linux, and Unix

Moxa continues to support a wide variety of operating systems, and the CP-132EL/EL-I boards are no exception. Reliable Windows and Linux 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 Max. No. of Boards per PC: 8 **Serial Line Protection**

Electrical Isolation: 2 kV (CP-132EL-I only)

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, RTS Toggle (RS-232 only)

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

Physical Characteristics

Dimensions:

CP-132EL: 67.21 x 101.97 mm (2.65 x 4.08 in) CP-132EL-I: 67.21 x 103.97 mm (2.65 x 4.16 in)

Driver Support

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/

Vista/2008/7/8/8.1/10 (x86/x64), Windows Server 2008 R2/2012/2012

R2/2016 (x64), DOS Linux: Linux 2.4.x, 2.6.x, 3.x

Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10 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

IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV

IEC 61000-4-5 Surge: Power: 2 kV

IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m

IEC 61000-4-8 PFMF IEC 61000-4-11

MTBF (mean time between failures)

Time:

CP-132EL: 4.147.133 hrs CP-132EL-I: 1.681.099 hrs

Standard: Telcordia (Bellcore) TR/SR

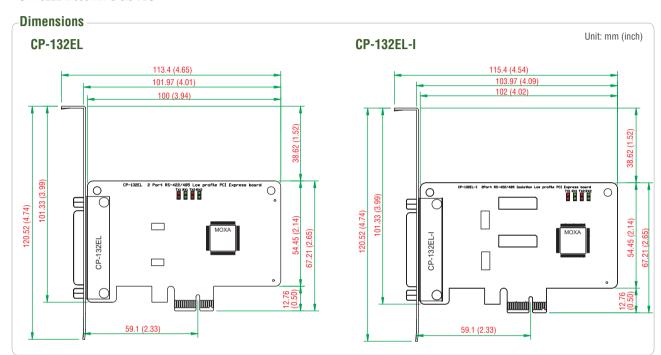
Power Requirements

Input Current:

CP-132EL: 548 mA @ 3.3 VDC CP-132EL-I: 636 mA @ 3.3 VDC Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warrantv



Ordering Information

Available Models

CP-132EL-DB9M: 2-port RS-422/485 low profile PCI Express x1 serial board (CBL-M25M9x2-50 cable included)

CP-132EL-I-DB9M: 2-port RS-422/485 low profile PCI Express x1 serial board with electrical isolation (CBL-M25M9x2-50 cable included)

Connection Options (can be purchased separately)

Low Profile Bracket: Bracket for DB44 connector (3095010000007)

CBL-M25M9x2-50: M25 to 2 x DB9-M cable, 50 cm

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

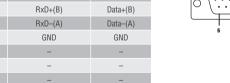


PIN	RS-422/RS-485-4w	RS-485-2w
1	TxD-(A)	-
2	TxD+(B)	-
3	RxD+(B)	Data+(B)
4	RxD-(A)	Data-(A)
5	GND	GND
6	-	-
7	-	-
8	-	-

- 1 CP-132EL or CP-132EL-I board
- Low profile bracket

Package Checklist

- 1 connection cable (optional)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card



DB9 male