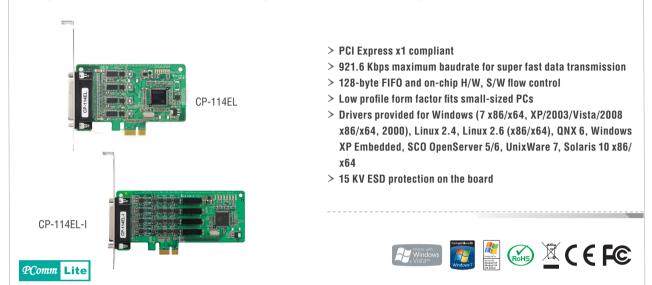
# CP-114EL/EL-I

# -4-port RS-232/422/485 PCI Express boards with optional 2 KV isolation



## **Overview**

The CP-114EL and CP-114EL-I are smart, 4-port PCI Express boards designed for POS and ATM applications. The boards are a top choice of industrial automation engineers and system integrators, and support many different operating systems, including Windows and Linux. In

# **Smaller Form Factor**

The CP-114EL and CP-114EL-I are low profile boards that are compatible with any PCI Express slot. The boards require only a 3.3

## Drivers Provided for Windows, Linux

Moxa continues to support a wide variety of operating systems, and the CP-114EL/EL-I boards are no exception. Reliable Windows COM

## **Specifications**

#### Hardware

**Comm. Controller:** 16C550C compatible **Bus:** PCI Express x1 **Connector:** DB44 female

#### Serial Interface Number of Ports: 4

Serial Standards: RS-232/422/485 Max. No. of Boards per PC: 4

## Serial Line Protection

ESD Protection: 15 KV on the board Optical Isolation: 2 KV (CP-114EL-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: RTS/CTS, XON/XOFF addition, each of the boards' 4 RS-232/422/485 serial ports supports a super fast 921.6 Kbps baudrate. The CP-114EL and CP-114EL-I provide full modem control signals to ensure compatibility with a wide range of serial peripherals, and their PCI Express "x1" classification allows the boards to be installed in any PCI Express slot.

VDC power supply, which means that the boards fit any host computer, ranging from shoebox to standard-sized PCs.

and Linux TTY drivers are provided for all Moxa boards, and other operating systems, such as WEPOS, are also supported for embedded integration.

#### **Serial Signals**

**RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND **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, Windows XP/2003/Vista/2008/7 x86/x64, DOS, Linux 2.4, Linux 2.6 x86/x64, QNX 6, Windows XP Embedded, SCO OpenServer 5/6, UnixWare 7, Solaris 10 x86/x64 Note: Please refer to Moxa's website for the latest driver support information.

## **Physical Characteristics**

Dimensions: CP-114EL: 67.21 x 103 mm (2.69 x 4.06 in) CP-114EL-I: 67.21 x 135 mm (2.69 x 5.31 in)

### **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: CE. FCC

EMI: EN 55022, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class B

EMS: EN 55024, 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: 684.289 hrs Database: Telcordia (Bellcore), GB

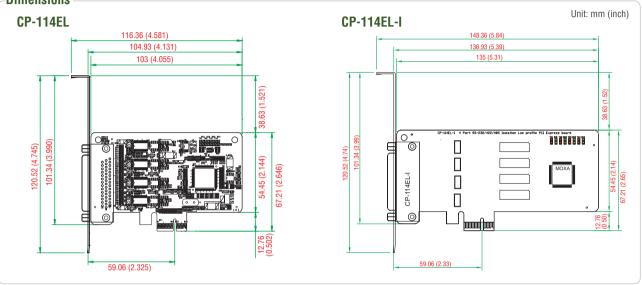
#### Dimensions

#### **Power Requirements**

Power Consumption: CP-114EL: 835 mA @ 3.3 V CP-114EL-I: 1170 mA @ 3.3 V

# Warranty

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



## **Ordering Information**

#### **Available Models**

CP-114EL: 4-port RS-232/422/485 low profile PCI Express x1 serial board

CP-114EL-I: 4-port RS-232/422/485 low profile PCI Express x1 serial board with optical isolation

CP-114EL-DB9M: 4-port RS-232/422/485 low profile PCI Express x1 serial board (includes DB9 male cable) CP-114EL-DB25M: 4-port RS-232/422/485 low profile PCI Express x1 serial board (includes DB25 male cable) CP-114EL-I-DB9M: 4-port RS-232/422/485 low profile PCI Express x1 serial board with optical isolation (includes DB9 male cable)

CP-114EL-I-DB25M: 4-port RS-232/422/485 low profile PCI Express x1 serial board with optical isolation (includes DB25 male cable)

**Connection Options** (can be purchased separately)

#### Package Checklist

- 1 CP-114EL or CP-114EL-I board Standard bracket and low profile
- bracket
- . Documentation and software CD
- Quick installation guide (printed) •
- Warranty card

CBL-M44M9x4-50 **DB9** male PIN RS-232 RS-422 RS-485-4w RS-485-2w DB44 male to DB9 male x 4 1 DCD TxD-(A) TxD-(A) (50 cm cable) RxD TxD+(B) TxD+(B) 2 3 TxD RxD+(B) RxD+(B) Data+(B) RxD-(A) DTR Data-(A) 4 RxD-(A) 5 GND GND GND GND 6 DSR 7 RTS 8 9 DB25 male CBL-M44M25x4-50 **RS-422** PIN RS-232 RS-485-4v RS-485-2w DB44 male to DB25 male x 4 TxD RxD+(B) RxD+(B) Data+(B) 2 (50 cm cable) 3 RxD TxD+(B) TxD+(B) 4 RTS . . . . . . . . .  $\cap$ 5 DSR 6 GND GND GND 7 GND

TxD-(A)

RxD-(A)

TxD-(A)

RxD-(A)



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DCD

DTR

Data-(A)