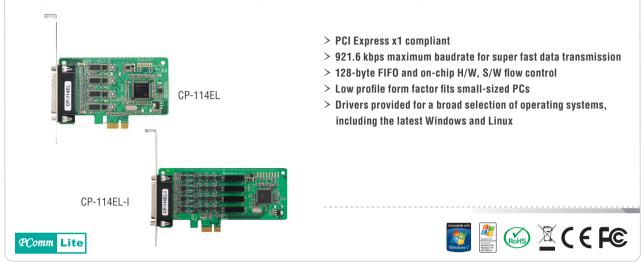
# CP-114EL/EL-I

# -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, and Unix

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

# : 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** Electrical 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 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

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.

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

### **Physical Characteristics**

Dimensions: CP-114EL: 67.21 x 103 mm (2.65 x 4.06 in) CP-114EL-1: 67.21 x 135 mm (2.65 x 5.31 in)

## **Driver Support**

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/ Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (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 EMS: 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

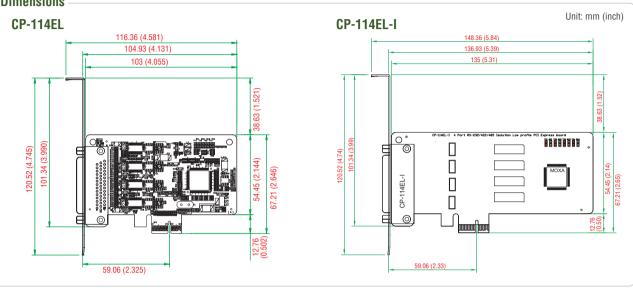


IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 **MTBF** (mean time between failures) Time: CP-114EL: 2,347,197 hrs CP-114EL-I: 603,671 hrs Standard: Telcordia (Bellcore) TR/SR

#### Dimensions



Input Current: CP-114EL: 835 mA @ 3.3 VDC CP-114EL-I: 1.170 mA @ 3.3 VDC 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 electrical isolation CP-114EL-DB9M: 4-port RS-232/422/485 low profile PCI Express x1 serial board (CBL-M44M9x4-50 cable included)

CP-114EL-DB25M: 4-port RS-232/422/485 low profile PCI Express x1 serial board (CBL-M44M25x4-50 cable included)

CP-114EL-I-DB9M: 4-port RS-232/422/485 low profile PCI Express x1 serial board with electrical isolation (CBL-M44M9x4-50 cable included)

CP-114EL-I-DB25M: 4-port RS-232/422/485 low profile PCI Express x1 serial board with electrical isolation (CBL-M44M25x4-50 cable included)

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

Low Profile Bracket: Bracket for DB44 connector (1490000001000)

CBL-M44M9x4-50: M44 to 4 x DB9-M cable, 50 cm

CBL-M44M25x4-50: M44 to 4 x DB25-M cable, 50 cm

#### CBL-M44M9x4-50

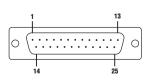
DB44 male to DB9 male x 4 (50 cm cable)



PIN	RS-232	RS-422	RS-485-4w	RS-485-2w
1	DCD	TxD-(A)	TxD-(A)	-
2	RxD	TxD+(B)	TxD+(B)	-
3	TxD	RxD+(B)	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	RxD-(A)	Data–(A)
5	GND	GND	GND	GND
6	DSR	-	-	-
7	RTS	-	-	-
8	CTS	-	-	-
9	-	-	-	-



#### DB25 male



CBL-M44M25x4-50 DB44 male to DB25 male x 4 (50 cm cable)



PIN	RS-232	RS-422	RS-485-4w	RS-485-2w
2	TxD	RxD+(B)	RxD+(B)	Data+(B)
3	RxD	TxD+(B)	TxD+(B)	-
4	RTS	-	-	-
5	CTS	-	-	-
6	DSR	-	-	-
7	GND	GND	GND	GND
8	DCD	TxD-(A)	TxD-(A)	-
20	DTR	RxD-(A)	RxD–(A)	Data–(A)
22	-	-	-	-

# Package Checklist 1 CP-114EL or CP-114EL-I board

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