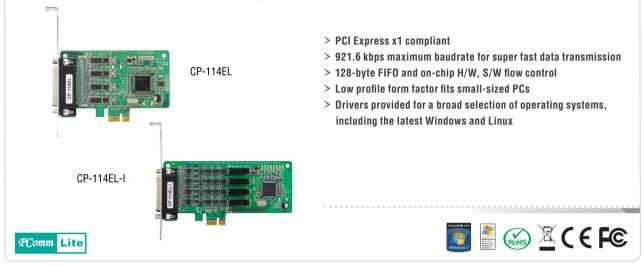
CP-114EL/EL-I

–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

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.

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: 8 **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, RTS Toggle (RS-232 only) 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

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)

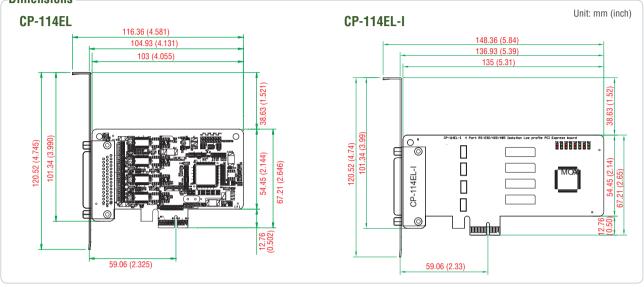
Driver Support Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/ Vista/2008/7/8/8.1/10 (x86/x64), Windows Server 2008 R2/2012/2012 R2/2016 (x64), DOS Linux: Linux 2.4.x, 2.6.x, 3.x Unix-like Systems: QNX 6. SCO OpenServer. UnixWare 7. Solaris 10 Note: Please refer to Moxa's website for the latest driver 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 EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV

IEC 61000-4-2 ESD. Contact: 4 kV, All: 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-1: 603,671 hrs Standard: Telcordia (Bellcore) TR/SR

Dimensions



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-114ÉL-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

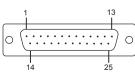
DB44 male to DB9 male x 4 (50 cm cable)



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