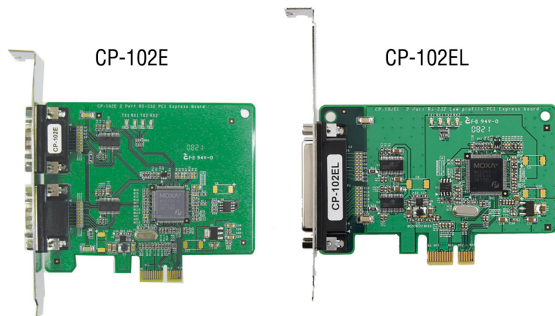


CP-102E/EL

2-port RS-232 PCI Express boards



PCComm Lite

- > 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 a broad selection of operating systems, including the latest Windows and Linux



Overview

The CP-102E and low-profile CP-102EL are 2-port PCI Express boards designed for POS and ATM applications. Moxa's PCI Express boards are a top choice of industrial automation engineers and system integrators, particularly since the boards support many different

operating systems, including Windows and Linux. The CP-102E/EL's 2 RS-232 serial ports support a superfast 921.6 kbps baudrate and provide full modem control signals to ensure compatibility with a wide range of serial peripherals. In addition, the boards' x1 classification allows them to be installed in any PCI Express slot.

Smaller Form Factor

The CP-102EL is a low-profile board that is compatible with any PCI Express slot. The CP-102EL board only requires a 3.3 VDC power

supply, which means that the board fits any host computer, ranging from shoebox to standard-sized PCs.

Drivers Provided for Windows, Linux, and Unix

Moxa continues to support a wide variety of operating systems, and the CP-102E/EL 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 applications.

Specifications

Hardware

Comm. Controller: 16C550C compatible

Bus: PCI Express x 1

Connector: CP-102E: DB9 male x 2

CP-102EL: DB25 female

Serial Interface

Number of Ports: 2

Serial Standards: RS-232

Max. No. of Boards per PC: 8

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

Physical Characteristics

Dimensions:

CP-102E: 85.04 x 100 mm (3.35 x 3.94 in)

CP-102EL: 67.21 x 100 mm (2.65 x 3.94 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: CP-102E: CISPR 32, FCC Part 15B Class A
 CP-102EL: 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: 4,947,552 hrs
Standard: Telcordia (Bellcore) TR/SR

Power Requirements

Input Current:
 CP-102E: 520 mA @ 3.3 VDC
 CP-102EL: 552 mA @ 3.3 VDC

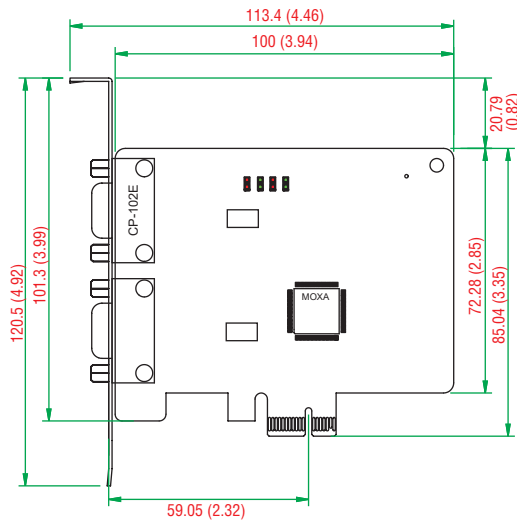
Warranty

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

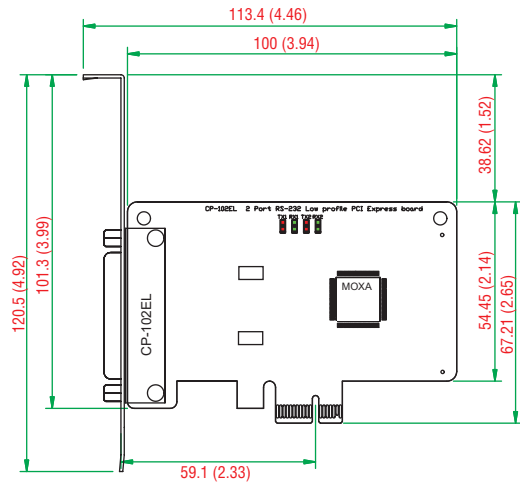
Dimensions

Unit: mm (inch)

CP-102E



CP-102EL



Ordering Information

Available Models

CP-102E: 2-port RS-232 PCI Express x1 serial board
CP-102EL-DB9M: 2-port RS-232 low profile PCI Express serial board (CBL-M25M9x2-50 cable included)

Connection Options (can be purchased separately)

Low Profile Bracket: Bracket for DB44 connector (1490000001000)
CBL-M25M9x2-50: M25 to 2 x DB9-M cable, 50 cm

Package Checklist

- 1 CP-102E or CP-102EL board
- Low profile bracket (CP-102EL only)
- 1 connection cable (optional)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

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



PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

DB9 male

