CP-102EL

2-port RS-232 smart PCI Express board

CP-102EL

> 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 Windows (2000, XP/2003/Vista/2008 x86 & x64), Linux 2.4/2.6
> 15 KV ESD protection on the board

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.

: Overview

The CP-102EL is a smart, 2-port PCI Express board designed for POS and ATM applications. Moxa's PCI Express boards are a top choice of industrial automation engineers and system integrators, particularly since they support many different operating systems, including Windows and Linux. The CP-102EL's 2 RS-232 serial ports support a super fast 921.6 Kbps baudrate, and provide full modem control signals to ensure compatibility with a wide range of serial peripherals. In addition, the board's x1 classification allows it 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 and Linux

Moxa continues to support a wide variety of operating systems, and the CP-102EL board is no exception. Reliable Windows COM and Linux TTY 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 x1
Connectors:
CP-102EL: DB25 female

Serial Interface

Number of Ports: 2
Serial Standards: RS-232
Number of Boards: 4 per PC (max.)

Serial Line Protection

ESD Protection: 15 KV on the board

Driver support

Operating Systems: Windows (2000, XP/2003/Vista/2008 x86 & x64), Linux 2.4/2.6

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
I/O Address: Assigned by BIOS
IRQ: Assigned by BIOS

Serial Signals

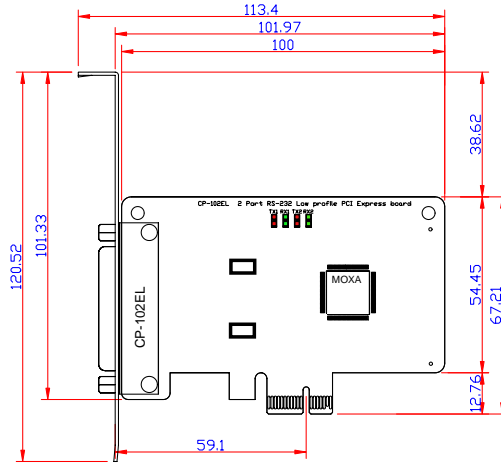**RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F)

Regulatory Approvals: EN55022, EN55024, EN61000-3-2, EN61000-3-3, EN61000-6-2, 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, FCC Part 15 Class B

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions (unit: mm)

:: Ordering Information

Available Models

CP-102EL: 2-port RS-232 PCI Express x1 low profile serial board

Package Checklist

- CP-102EL board
- Low profile bracket
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

Connection Options (can be purchased separately)

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

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

DB9 male

10

Multiport Serial Boards > CP-102EL