# CP-118EL-A

# -8-port RS-232/422/485 PCI Express serial board



- > 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
  - > Choose from a wide range of connection cables and boxes
  - > Low profile form factor fits small-sized PCs
  - > Drivers provided for Windows (7 x86/x64, XP/2003/Vista/2008 x86/x64, 2000), DOS, Linux 2.4/2.6,QNX 6, SCO Open Server 5/6, UnixWare 7, Solaris 10 x86/x64
  - > 15 KV ESD protection on the board



### **Overview**

The CP-118EL-A is a smart, 8-port PCI Express board designed for POS and ATM applications. It is a top choice of industrial automation engineers and system integrators, and supports many different operating systems, including Windows, Linux, and even Unix. In addition, each of the board's 8 serial ports can be configured

# **Smaller Form Factor**

The CP-118EL-A is a low profile board that is compatible with any PCI Express slot. The board requires only a 3.3 VDC power supply, which

# Drivers Provided for Windows, Linux, and Unix

Moxa continues to support a wide variety of operating systems, and the CP-118EL-A board is no exception. Reliable Windows COM and

## : Specifications

#### Hardware

Comm. Controller: 16C550C compatible Bus: PCI Express x1 Connector: VHDCI 68

#### **Serial Interface**

Number of Ports: 8 Serial Standards: RS-232/422/485 Max. No. of Boards per PC: 4

# Serial Line Protection

ESD Protection: 15 KV on the board 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: TxĎ, 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 independently for RS-232, RS-422, or RS-485 (either 2-wire or 4-wire), and the ports supports a super fast 921.6 Kbps baudrate. The CP-118EL-A provides full modem control signals to ensure compatibility with a wide range of serial peripherals, and its PCI Express "x1" classification allows it to be installed in any PCI Express slot.

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

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

#### **Driver Support**

**Operating Systems:** Windows 2000, Windows XP/2003/Vista/2008/7 x86/x64, DOS, Linux 2.4, 2.6 x86/x64, QNX 6, SCO Open Server 5/6, UnixWare 7, Solaris 10 x86/x64 Note: Please refer to Moxa's website for the latest driver support information.

#### Physical Characteristics

Dimensions: 68.9 x 88 mm (2.71 x 3.46 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: 2,079,962 hrs Database: Telcordia (Bellcore), GB

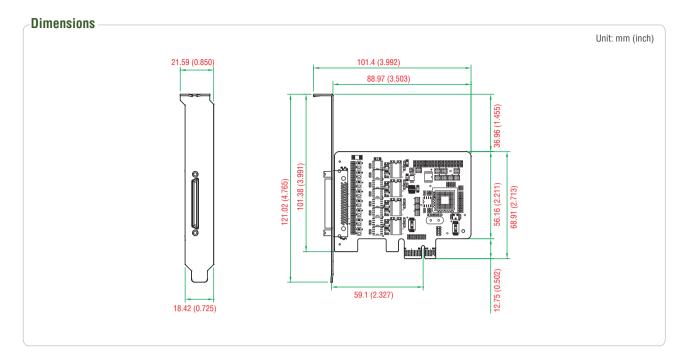
#### Power Requirements Power Consumption: 1285 mA @ 3.3 V

Warranty

#### Warranty Period: 5 vears

Details: See www.moxa.com/warranty





#### **Ordering Information** •

#### Available Models

CP-118EL-A: 8-port RS-232/422/485 low profile PCI Express x1 serial board

# Package Checklist

- 1 CP-118EL-A board
- Standard bracket and low profile bracket •
- Documentation and software CD
- Quick installation guide (printed) •
- Warranty card •

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

**OPT8-M9+** DB9 male x 8 (150 cm cable)

OPT8A+

CBL-M68M9x8-100 DB9 male x 8 (100 cm cable)

CBL-M68M25x8-100

DB25 male x 8, (100 cm cable)



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

PIN RS

6

7

8

20

GND

DCD

DTR

# **DB9** male



OPT8B+ DB25 male x 8 (150 cm cable)



OPT8S+ DB25 female x 8 (150 cm cable) DB25 female x 8 (150 cm cable) 25 KV ESD Surge Protection



S-232	RS-422/RS-485-4w	RS-485-2w
TxD	RxD+(B)	Data+(B)
RxD	TxD+(B)	-
RTS	-	-
CTS	-	-
DSR	-	_

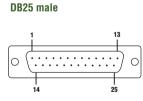
GND

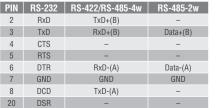
Data-(A)

GND

TxD-(A)

RxD-(A)





# DB25 female

