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

### **Contract Scheduler** 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: 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

### **Driver Support**

Operating Systems: Windows (2012 x64, 8/7/XP/2003/Vista/2008 x86/x64, 2000, 9X/ME/NT), DOS, Linux 2.4.x, Linux 2.6.x, QNX 6, SCO

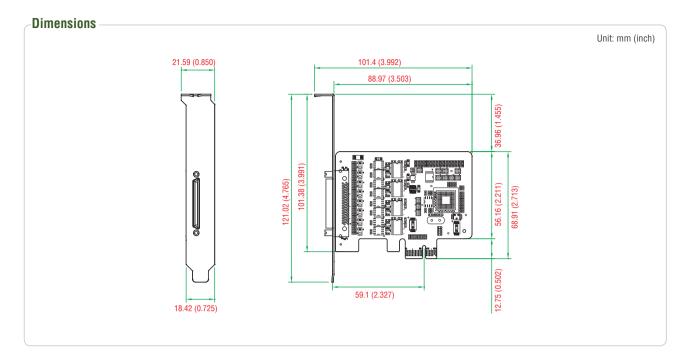
4-wire), and the ports supports a super fast 921.6 Kbps baudrate. The CP-118EL-A provides full modem control signals to ensure compatibility with a wide range of serial peripherals, and its PCI Express "x1" classification allows it to be installed in any PCI Express slot.

independently for RS-232, RS-422, or RS-485 (either 2-wire or

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.

OpenServer 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) Altitude: Up to 2000 m Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes. 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 years 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

**DB9** male

- Quick installation guide (printed)
- Warranty card

RS-485-2w

Data+(B)

Data-(A)

GND

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

**OPT8-M9+** DB9 male x 8 (150 cm cable) CBL-M68M9x8-100 DB9 male x 8 (100 cm cable)



OPT8B+ DB25 male x 8 (150 cm cable)



CBL-M68M25x8-100 DB25 male x 8, (100 cm cable)



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

PIN RS-232 RS-422/RS-485-4w

TxD-(A) TxD+(B)

RxD+(B)

RxD-(A)

GND

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1

2

3

4

5

6

7 8 DCD

RxD

TxD

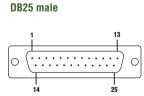
DTR

GND

DSR

RTS

CTS



OPT8A+ DB25 female x 8 (150 cm cable)





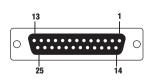


OPT8S+



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

DB25 female



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