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

Crivers 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

Operating Systems

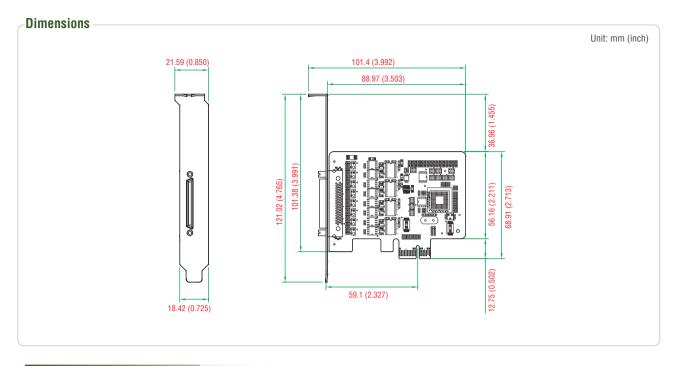
Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), DOS

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.

Fixed TTY Drivers: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10 Linux Real TTY Drivers: Linux 2.4.x. 2.6.x. 3.x 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 Warrantv 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

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- . 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)

OPT8B+

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



CBL-M68M25x8-100 DB25 male x 8 (150 cm cable) DB25 male x 8, (100 cm cable)



OPT8S+



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

20

DSR

7 8 DCD

RxD TxD

DTR

GND

DSR

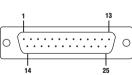
RTS

CTS

DIK	KXD-(A)	HXD-(A) Data-(A)	
RS-232	RS-422/RS-485-4w	RS-485-2w	
RxD	TxD+(B)	-	
TxD	RxD+(B)	Data+(B)	
CTS	-	-	
RTS	-	-	
DTR	RxD-(A)	Data-(A)	
GND	GND	GND	

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DB25 male



OPT8A+ DB25 female x 8 (150 cm cable)





DB25 female x 8 (150 cm cable)

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

DB25 female

