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













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

independently for RS-232, RS-422, or RS-485 (either 2-wire or 4-wire), and the ports supports a superfast 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

: 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

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-118EL-A board is no exception. Reliable Windows and Linux/ Unix drivers are provided for all Moxa boards, and other operating systems, such as WEPOS, are also supported for embedded integration.

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

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 **Physical Characteristics**

Dimensions: 68.9 x 88 mm (2.71 x 3.46 in)

Driver Support

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/ Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2

(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 55022/24

EMI: CISPR 22. FCC Part 15B Class B

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: 1.359.482 hrs

Standard: Telcordia (Bellcore) TR/SR

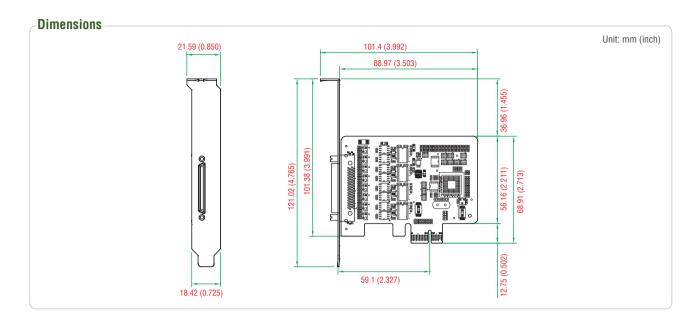
Power Requirements

Input Current: 1,285 mA @ 3.3 VDC

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

Connection Options (can be purchased separately) Low Profile Bracket: Bracket for VHDCI connector (149000008000) CBL-M68M9x8-100: SCSI VHDCI 68 to 8 x DB9-M cable, 100 cm CBL-M68M25x8-100: SCSI VHDCI 68 to 8 x DB25-M cable, 100 cm

Optional Connectors (choose one per board)

OPT8-M9+: VHDCI 68 to 8 x DB9-M connection box OPT8B+: VHDCI 68 to 8 x DB25-M connection box OPT8A+: VHDCI 68 to 8 x DB25-F connection box

OPT8-RJ45+: VHDCI 68 to 8 x RJ45 (8-pin) connection box

OPT8S+: VHDCI 68 to 8 x DB25-F connection box w/ surge protection

• 1 CP-118EL-A board

- **Package Checklist**
- · Low profile bracket
- · Documentation and software CD
- Quick installation guide (printed)
- Warranty card

OPT8-M9+

DB9 male x 8 (150 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	_	_



DB9 male

DB25 male



DB25 male x 8 (150 cm cable)







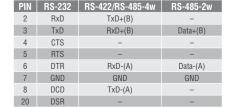
PIN	RS-232	RS-422/RS-485-4w	RS-485-2w
2	TxD	RxD+(B)	Data+(B)
3	RxD	TxD+(B)	-
4	RTS	-	-
5	CTS	-	-
6	DSR	-	-
7	GND	GND	GND
8	DCD	TxD-(A)	-
20	DTR	RxD-(A)	Data-(A)

1	13
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14	25

DB25 female x 8 (150 cm cable)



OPT8S+ DB25 female x 8 (150 cm cable)



DB25 female

