CP-118EL

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 (2000, XP/2003/Vista/2008 x86/ x64), Windows CE 5.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 (x86/x64), FreeBSD 4/5, QNX 6, SCO Open Server 5/6, UnixWare 7
- > 15 KV ESD protection on the board



















: Overview

The CP-118EL 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 super fast 921.6 Kbps baudrate. The CP-118EL 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 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 board is no exception. Reliable Windows COM and

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

: Specifications

Hardware

Comm. Controller: MU860 (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 (2000, XP/2003/Vista/2008 x86/x64), Windows CE 5.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 (x86/x64), FreeBSD 4/5, QNX 6, SCO Open Server 5/6, UnixWare 7

Physical Characteristics

Dimensions: 67.21 x 132 mm (2.65 x 5.20 in)

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

EMS: EN55022, EN55024, EN61000-3-2, EN61000-3-3, 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

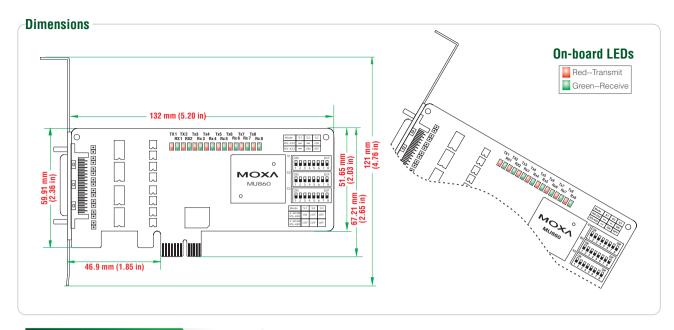
Power Requirements

Power Consumption: 860 mA @ 3.3 V

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



: Ordering Information

Available Models

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

Package Checklist

- CP-118EL board
- Standard bracket and low profile bracket
- · Document and Software CD
- Quick Installation Guide (printed)
- · Warranty Card

Connection Options (can be purchased separately)

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		



OPT8B+

DB25 male x 8 (150 cm cable)

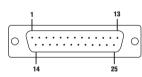


CBL-M68M25x8-100 (OPT8C+)



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)		





OPT8A+

DB25 female x 8 (150 cm cable)

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





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	DSR		

DB25 female

