CP-168EL-A

-8-port RS-232 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-168EL-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

Smaller Form Factor

The CP-168EL-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-168EL-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 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 Operating Systems

Uperating 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

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.

addition, each of the board's 8 RS-232 serial ports supports a super fast 921.6 kbps baudrate. The CP-168EL-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.

Physical Characteristics

Dimensions: 64.42 x 102 mm (2.54 x 4.02 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

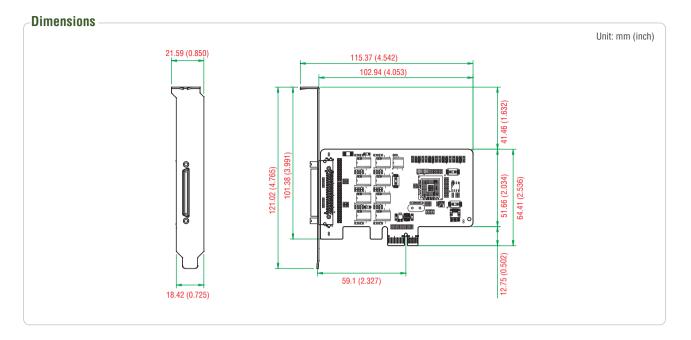
MTBF (mean time between failures) Time: 6,824,634 hrs Database: Telcordia (Bellcore), GB

Power Requirements

Power Consumption: 1225 mA @ 3.3 V $\,$

Warranty

Warranty Period: 5 years Details: See www.moxa.com/warranty



Ordering Information .

Available Models

CP-168EL-A: 8-port RS-232 low profile PCI Express x1 serial board

Package Checklist

- . 1 CP-168EL-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) CBL-M68M9x8-100 DB9 male x 8 (100 cm cable)



CBL-M68M25x8-100

DB25 male x 8 (100 cm cable)

PIN	RS-232	PIN	RS-232
1	DCD	5	GND
2	RxD	6	DSR
3	TxD	7	RTS
4	DTR	8	CTS

PIN RS-232

TxD

RxD

RTS

CTS

2

3

5

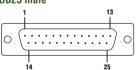
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4

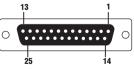
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DB25 male



DB25 female



OPT8B+ DB25 male x 8 (150 cm cable)



OPT8A+ DB25 female x 8, 150 cm Cable







PIN	RS-232	PIN	RS-232
2	RxD	6	DTR
3	TxD	7	GND

S-232	PIN	RS-232
RxD	6	DTR
TxD	7	GND
CTS	8	DCD
RTS	20	DSR

PIN RS-232

6

8

7

20

DSR

DCD

DTR

GND

