# **CP-102E/102EL Series**

# 2-port RS-232 PCI Express boards



### **Features and Benefits**

- PCI Express 1.0 compliant
- 921.6 kbps maximum baudrate for fast data transmission
- 128-byte FIFO and on-chip H/W, S/W flow control
- Low-profile form factor fits small-sized PCs
- Drivers provided for a broad selection of operating systems, including Windows, Linux, and UNIX
- · Easy maintenance with built-in LEDs and management software

Certifications

## Introduction

The CP-102E and low-profile CP-102EL are 2-port PCI Express boards designed for POS and ATM applications. Moxa's PCI Express boards are a top choice of industrial automation engineers and system integrators, particularly since the boards support many different operating systems, including Windows, Linux, and UNIX. The CP-102E/EL's 2 RS-232 serial ports support a fast 921.6 kbps baudrate and provide full modem control signals to ensure compatibility with a wide range of serial peripherals. In addition, the boards' x1 classification allows them to be installed in any PCI Express slot.

#### **Smaller Form Factor**

The CP-102EL is a low-profile board that is compatible with any PCI Express slot. The CP-102EL board only requires 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 there is no exception for the CP-102E/EL boards. Reliable Windows and Linux drivers are provided for all Moxa boards, and other operating systems, such as WEPOS, are also supported for embedded integration applications.

## **Specifications**

Serial Interface	
Comm. Controller	MU860 (16C550C compatible)
Bus	PCI Express 1.0
Connector	CP-102E: 2 x DB9 male CP-102EL: DB25 female
FIFO	128 bytes
Max. No. of Boards per PC	8
No. of Ports	2
Serial Standards	RS-232
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Stop Bits	1, 1.5, 2

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# Datasheet

Parity	None, Even, Odd, Space, Mark
Flow Control	None, RTS/CTS, XON/XOFF
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Serial Software Features	
Windows Drivers	DOS, 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), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x, Linux kernel 3.x
UNIX Drivers	QNX 6, Solaris 10, UnixWare 7, SCO OpenServer 5, SCO OpenServer 6
Power Parameters	
Input Current	CP-102E: 520 mA @ 3.3 VDC CP-102EL-DB9M: 552 mA @ 3.3 VDC
Physical Characteristics	
Dimensions	CP-102E: 85.04 x 1000 mm (3.35 x 3.94 in) CP-102EL-DB9M: 67.21 x 100 mm (2.65 x 3.94 in)
LED Interface	
LED Indicators	Built-in Tx, Rx LEDs for each port
Environmental Limits	
Operating Temperature	0 to 55°C (32 to 131°F)
Storage Temperature (package included)	-20 to 85°C (-4 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/24
EMI	CP-102E: CISPR 32, FCC Part 15B Class A CP-102EL-DB9M: CISPR 32, FCC Part 15B Class B
EMS	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
Declaration	
Green Product	RoHS, CRoHS, WEEE
MTBF	
Time	4,947,552 hrs
Standards	Telcordia (Bellcore) Standard TR/SR
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

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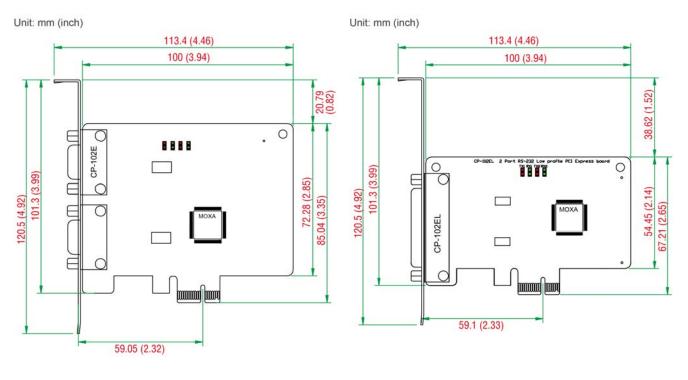
# Datasheet

Package Contents	
Device	1 x CP-102E/102EL Series serial board
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card

### **Dimensions**

### **CP-102E**

#### CP-102EL



# **Ordering Information**

Model Name	Serial Standards	No. of Serial Ports	Included Cable	Form Factor
CP-102EL-DB9M	RS-232	2	CBL-M25M9x2-50	Low profile
CP-102E	RS-232	2	-	Standard board

# **Accessories (sold separately)**

Cables		
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m	
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm	
CBL-M25M9x2-50	M25 to 2 x DB9 male cable, 50 cm Applicable Models: CP-102EL-DB9M	
Brackets		
3095010000007	Bracket for DB44 pack Applicable Models: CP-102EL-DB9M	
149000001000	Bracket for DB44 pack Applicable Models: CP-102EL-DB9M	

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