# **CP-132EL Series**

### 2-port RS-422/485 PCI Express boards with optional 2 kV isolation



#### **Features and Benefits**

- PCI Express 1.0 compliant
- 921.6 kbps maximum baudrate for fast data transmission
- 128-byte FIFO and on-chip 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-132EL and CP-132EL-I are 2-port PCI Express boards designed for industrial automation applications that require a long-distance, multipoint, PC-based data acquisition solution.

#### RS-485 Multidrop for up to 31 Devices Within 1.2 km

The CP-132EL/EL-I boards have two RS-422/485 serial ports, each of which can achieve data rates up to 921.6 kbps. In RS-485 mode, the boards can connect up to 31 daisy-chained RS-485 devices within a range of 1.2 km. For long-distance RS-485 communication, choose the CP-132EL-I model, which comes with 2 kV electrical isolation protection to prevent equipment damage.

#### **Drivers Provided for Windows, Linux, and UNIX**

Moxa continues to support a wide variety of operating systems, and the CP-132EL/EL-I boards are no exception. Reliable Windows and Linux drivers are provided for all Moxa boards, and other operating systems, such as WEPOS, are also supported for embedded integration.

#### **Specifications**

#### Serial Interface

Comm. Controller	16C550C compatible		
Bus	PCI Express 1.0		
Connector	DB25 female		
FIFO	128 bytes		
Max. No. of Boards per PC	8		
No. of Ports	2		
Serial Standards	RS-422, RS-485		
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)		
Data Bits	5, 6, 7, 8		
Stop Bits	1, 1.5, 2		
Parity	None, Even, Odd, Space, Mark		

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## **Datasheet**

Flow Control	None, XON/XOFF			
Isolation	CP-132EL-I-DB9M: 2 kV			
Serial Signals				
RS-422	Tx+, Tx-, Rx+, Rx-, GND			
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND			
RS-485-2w	Data+, Data-, 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	Solaris 10, UnixWare 7, SCO OpenServer 5, SCO OpenServer 6, QNX 6			
Power Parameters				
Input Current	CP-132EL-DB9M: 548 mA @ 3.3 VDC CP-132EL-I-DB9M: 636 mA @ 3.3 VDC			
Physical Characteristics				
Dimensions	CP-132EL-DB9M: 67.21 x 101.97 mm (2.65 x 4.08 in) CP-132EL-I-DB9M: 67.21 x 103.97 mm (2.65 x 4.16 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			
ЕМІ	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	CP-132EL-DB9M: 4,147,133 hrs CP-132EL-I-DB9M: 1,681,099 hrs			



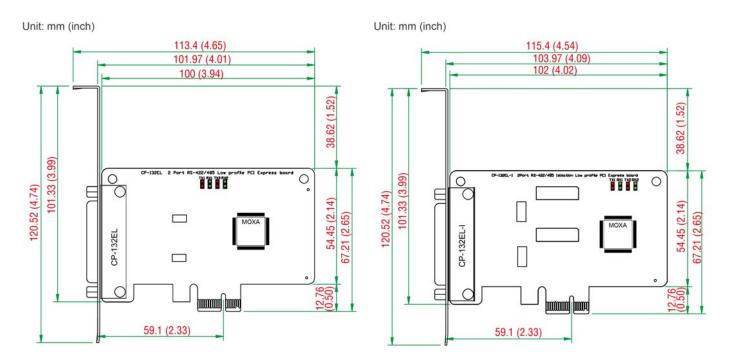
## **Datasheet**

#### Warranty

Warranty Period	5 years		
Details	See www.moxa.com/warranty		
Package Contents			
Device	1 x CP-132EL Series serial board		
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card		

### **Dimensions**

CP-132EL-I



## **Ordering Information**

Model Name	Serial Standards	No. of Serial Ports	Isolation	Included Cable
CP-132EL-DB9M	RS-422/485	2	-	CBL-M25M9x2-50
CP-132EL-I-DB9M	RS-422/485	2	2 kV	CBL-M25M9x2-50

## **Accessories (sold separately)**

3095010000007

Bracket for DB44 pack

Cables

CBL-M25M9x2-50

M25 to 2 x DB9 male cable, 50 cm

Connectors

Mini DB9F-to-TB

DB9 female to terminal block connector

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