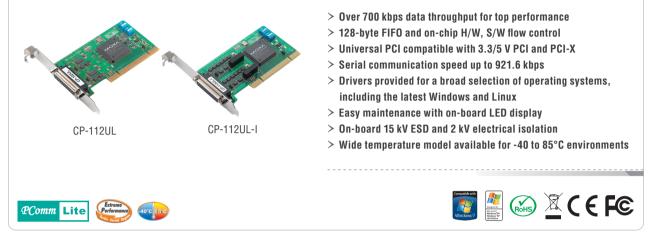
CP-112UL/UL-I Series

2-port RS-232/422/485 Universal PCI serial boards with optional 2 kV isolation



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Moxa's CP-112UL/UL-I series of multiport serial boards are designed to be used by industrial automation system integrators for long distance, multi-point, PC-based data acquisition applications. On-chip Automatic Data Direction Control for precision RS-485 communication requires precise timing control for enabling and disabling the line driver. Moxa's Turbo Serial Engine[™] chip that powers the CP-112UL/ UL-I boards comes with on-chip ADDC[®], which makes RS-485 as

Drivers Provided for Windows, Linux, and Unix

Moxa continues to support a wide variety of operating systems, and the CP-112UL/UL-I boards are no exception. Reliable Windows COM

: Specifications

Hardware

Comm. Controller: MU860 (16C550C compatible) Bus: 32-bit Universal PCI Connector: DB25 female

Serial Interface

Number of Ports: 2 Serial Standards: RS-232/422/485 Max. No. of Boards per PC: 4 ESD Protection: 15 kV on the board Electrical Isolation: 2 kV (CP-112UL-I only)

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 I/O Address: Assigned by BIOS IRQ: Assigned by BIOS easy to use as RS-232. The boards come with 2 RS-422/485 serial ports, both of which can achieve data rates up to 921.6 kbps. In RS-485 mode, the serial port can connect up to 31 daisy-chained RS-485 devices within a range of 1.2 km. For long distance RS-485 communication, 2 kV electrical isolation protection is available to prevent equipment damage.

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

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

Operating 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, Windows Embedded CE 5.0/6.0, Windows XP Embedded

Fixed TTY Drivers: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Linux Real TTY Drivers: Linux 2.4.x, 2.6.x

Note: Please refer to Moxa's website for the latest driver support information. Physical Characteristics

Dimensions: 64.4 x 120 mm (2.53 x 4.72 in) Environmental Limits Operating Temperature:

Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

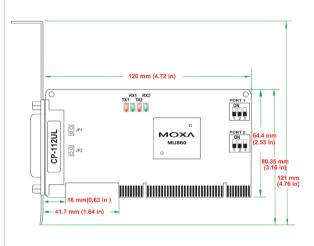
Altitude: Up to 2000 m Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

Standards and Certifications

EMC: CE, FCC EMI: EN 55022, FCC Part 15 Subpart B Class B EMS: EN 55024, IEC 61000-4-2, IEC 61000-4-3 Green Product: RoHS, CROHS, WEEE MTBF (mean time between failures) Time: 219,971 hrs Database: Telcordia (Bellcore), GB

Dimensions

CP-112UL

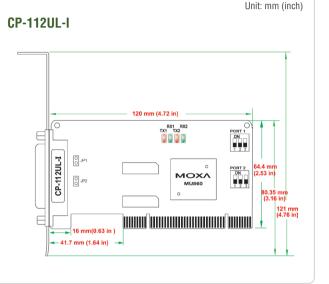


Power Requirements

Power Consumption: CP-112UL: 175 mA @ 5 VDC CP-112UL-I: 290 mA @ 5 VDC

Warranty

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



Ordering Information

Available Models

CP-112UL-DB9M: 2-port RS-232/422/485 low profile Universal PCI board, 0 to 55°C operating temperature (includes DB9 male cable)

CP-112UL-I-DB9M: 2-port RS-232/422/485 low profile Universal PCI board with electrical isolation, 0 to 55°C operating temperature (includes DB9 male cable)

CP-112UL-T: 2-port RS-232/422/485 low profile Universal PCI board, -40 to 85°C operating temperature

CP-112UL-I-T: 2-port RS-232/422/485 low profile Universal PCI board with electrical isolation, -40 to 85°C operating temperature

Connection Options (can be purchased separately)

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Package Checklist

- 1 CP-112UL or CP-112UL-I board
- Low profile bracket
- Documentation and software CD
- Quick installation guide (printed)
- · Warranty card





