CP-134U/U-I

4-port RS-422/485 Universal PCI serial boards with optional



- $>\,$ Over 700 kbps data throughput for top performance
- > 921.6 kbps maximum baudrate for super fast data transmission
- > ADDC® provides automatic data direction control for RS-485 signals
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > Compatible with 3.3/5V PCI and PCI-X
- > Drivers provided for a broad selection of operating systems, including the latest Windows and Linux
- > 15 kV ESD protection on the board
- > Added bonus! Ports 1 and 2 support RS-232 and RS-422/485
- > Wide temperature model available for -40 to 85°C environments



Cverview 3

The CP-134U and CP-134U-I 4-port universal PCI boards are designed for industrial automation applications that require a long distance, multi-point, PC-based data acquisition solution.

On-chip Automatic Data Direction Control for precise RS-485 communication

RS-485 communication requires precise timing control to enable and disable the line driver. The Moxa Turbo Serial Engine™ chip that powers the CP-134U board comes with on-chip ADDC®, which makes RS-485 as easy to use as RS-232.

Drivers Provided for Windows, Linux, and Unix

Moxa continues to support a wide variety of operating systems, and the CP-134U and CP-134U-I boards are no exception. Reliable

: Specifications

Hardware

Comm. Controller: MU860 (16C550C compatible) Bus: 32-bit Universal PCI Connector: DB44 female

Serial Interface

Number of Ports: 4

Serial Standards: 2 x RS-232/422/485, 2 x RS-422/485 Max. No. of Boards per PC: 4

Serial Line Protection

ESD Protection: 15 kV on the board Electrical isolation: 2 kV (CP-134U-I configured for RS-422/485 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

Serial Signals

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

RS-485 multidrop for up to 31 devices within 1.2 km

The CP-134U universal PCI board has 4 RS-422/485 serial ports, each of which can achieve data rates up to 921.6 kbps. In RS-485 mode, the board 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-134U-I, which comes with 2 kV electrical isolation protection to prevent equipment damage.

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.

RS-422: TxD+(B), TxD-(A), RxD+(B), RxD-(A), RTS+(B), RTS-(A), CTS+(B), CTS-(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:

CP-134U: 82.5 x 120 mm (3.24 x 4.72 in) CP-134U-I: 115 x 120 mm (4.52 x 4.72 in)

Environmental Limits Operating Temperature:

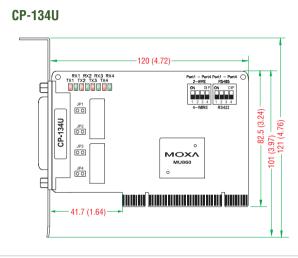
Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing) Altitude: Up to 2000 m Note: Please contact Moxa if you require products guaranteed to function

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

Dimensions

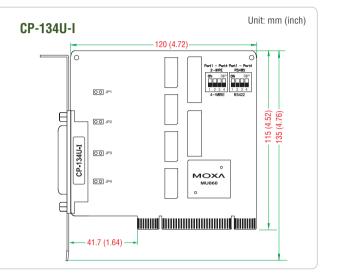




CP-134U-I: 850 mA @ +5 V

Warranty

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



Crdering Information

Available Models

CP-134U: 4-port RS-422/485 Universal PCI serial board, 0 to 55°C operating temperature

CP-134U-DB9M: 4-port RS-422/485 Universal PCI serial board, 0 to 55°C operating temperature (includes DB9 male cable)

CP-134U-DB25M: 4-port RS-422/485 Universal PCI serial board, 0 to 55°C operating temperature (includes DB25 male cable)

CP-134U-I: 4-port RS-422/485 Universal PCI serial board with electrical isolation, 0 to 55°C operating temperature **CP-134U-I-DB9M:** 4-port RS-422/485 Universal PCI serial board with electrical isolation, 0 to 55°C operating temperature (includes DB9 male cable)

CP-134U-I-DB25M: 4-port RS-422/485 Universal PCI serial board with electrical isolation, 0 to 55°C operating temperature (includes DB25 male cable)

CP-134U-T: 4-port RS-422/485 Universal PCI serial board, -40 to 85°C operating temperature

PIN RS-232

DCD

1

CP-134U-I-T: 4-port RS-422/485 Universal PCI serial board with electrical isolation, -40 to 85°C operating

temperature

Connection Options (can be purchased separately)

CB	L-N	/144	M9x4	-50
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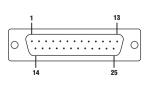
2	RxD	TxD+(B)	TxD+(B)
3	TxD	RxD+(B)	RxD+(B)
4	DTR	RxD-(A)	RxD-(A)
5	GND	GND	GND
6	DSR	RTS-(A)	-
7	RTS	RTS+(B)	-
8	CTS	CTS+(B)	-
9	-	CTS-(A)	-
PIN	RS-232	BS-422	BS-485-4w

RS-422

TxD-(A)



DB25 male



CBL-M44M25x4-50 DB44 male to DB25 male x 4 (50 cm cable)



PIN	RS-232	RS-422	RS-485-4w	RS-485-2w
2	TxD	RxD+(B)	RxD+(B)	Data+(B)
3	RxD	TxD+(B)	TxD+(B)	-
4	RTS	RTS+(B)	-	-
5	CTS	CTS+(B)	-	-
6	DSR	RTS-(A)	-	-
7	GND	GND	GND	GND
8	DCD	TxD-(A)	TxD-(A)	-
20	DTR	RxD-(A)	RxD-(A)	Data-(A)
22	-	CTS-(A)	-	-

RS-485-4w

TxD-(A)

RS-485-2w

Data+(B) Data-(A) GND

Package Checklist

- 1 CP-134U or CP-134U-I board
- DB9 or DB25 cable included
 Documentation and
- software CD
- Quick installation guide
 (printed)
- Warranty card

