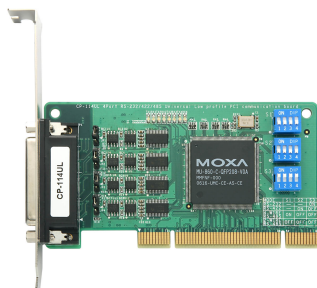


CP-114UL Series

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



Features and Benefits

- Over 700 kbps data throughput for top performance
- 128-byte FIFO and on-chip H/W, S/W flow control
- Universal PCI compatible with 3.3/5 V PCI and PCI-X
- 921.6 kbps maximum baudrate for fast data transmission
- Drivers provided for a broad selection of operating systems, including Windows and Linux
- Easy maintenance with built-in LEDs
- Wide-temperature model available for -40 to 85°C environments

Certifications



Introduction

Moxa's CP-114UL/UL-I Series of multiport serial boards is designed to be used by industrial automation system integrators for long-distance, multipoint, PC-based data acquisition applications. On-chip Automatic Data Direction Control for precision RS-485 communication requires precise timing control to enable and disable the line driver. The Moxa Turbo Serial Engine™ chip that powers the CP-114UL/UL-I boards come with on-chip ADDC®, which makes RS-485 as easy to use as RS-232. 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 protections are available to prevent equipment damage.

Drivers Provided for Windows, Linux, and UNIX

Moxa continues to support a wide variety of operating systems, and the CP-114UL/UL-I boards are no exception. Reliable Windows and Linux/UNIX 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	MU860 (16C550C compatible)
Bus	32-bit Universal PCI
Connector	DB44 female
FIFO	128 bytes
Max. No. of Boards per PC	8
No. of Ports	4
Serial Standards	RS-232, RS-422, RS-485
Baudrate	50 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Flow Control	None, RTS/CTS, XON/XOFF

Parity	None, Even, Odd, Space, Mark
Isolation	CP-114UL-I Series: 2 kV
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, 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, Linux kernel 4.x, Linux kernel 5.x
UNIX Drivers	QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD
Power Parameters	
Input Current	CP-114UL Series: 320 mA @ 5 VDC CP-114UL-I Series: 465 mA @ 5 VDC
Physical Characteristics	
Dimensions	CP-114UL Series: 64.4 x 120 mm (2.53 x 4.72 in) CP-114UL-I Series: 64.4 x 130 mm (2.53 x 5.12 in)
LED Interface	
LED Indicators	Built-in Tx, Rx LEDs for each port
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 (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class B
EMS	All models: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m CP-114UL-I Series: 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
International Approval	CP-114UL-DB9M: KC
Declaration	
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	114,223 hrs
Standards	Telcordia SR332

Warranty

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

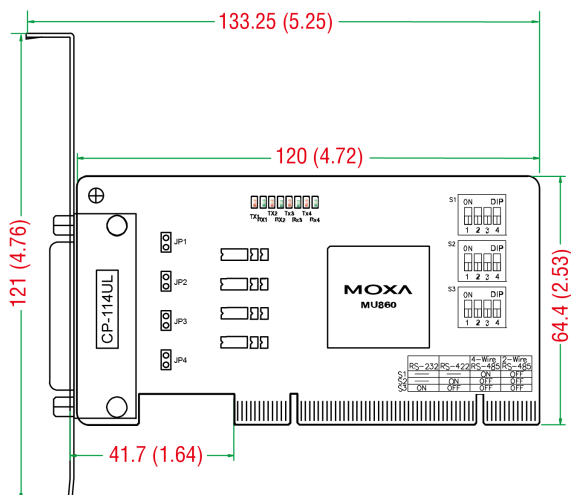
Package Contents

Device	1 x CP-114UL Series serial board
Cable	1 x M44 to 4 x DB9-M cable, 50 cm (-DB9M models) 1 x M44 to 4 x DB25-M cable, 50 cm (-DB25M models)
Documentation	1 x document and software CD 1 x quick installation guide 1 x substance disclosure table 1 x warranty card

Dimensions

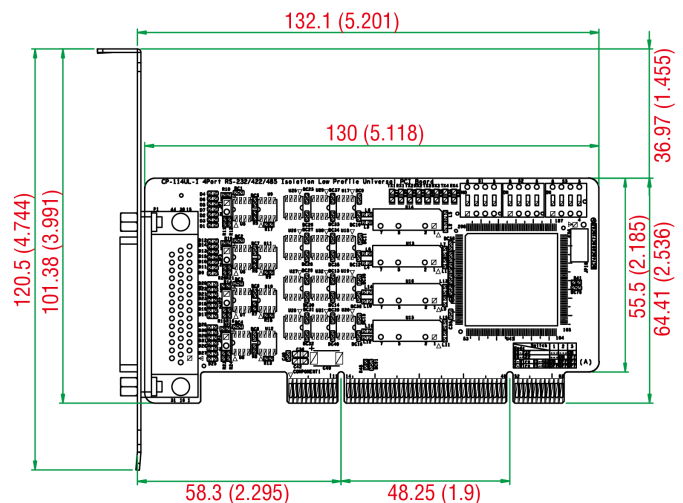
CP-114UL

Unit: mm (inch)



CP-114UL-I

Unit: mm (inch)



Ordering Information

Model Name	Serial Bus	No. of Serial Ports	Serial Isolation Protection	Operating Temp.	Included Cable
CP-114UL w/o Cable	Universal PCI	4	–	0 to 55°C	–
CP-114UL-T	Universal PCI	4	–	-40 to 85°C	–
CP-114UL-DB9M	Universal PCI	4	–	0 to 55°C	CBL-M44M9x4-50
CP-114UL-DB25M	Universal PCI	4	–	0 to 55°C	CBL-M44M25x4-50
CP-114UL-I	Universal PCI	4	2 kV	0 to 55°C	–
CP-114UL-I-DB9M	Universal PCI	4	2 kV	0 to 55°C	CBL-M44M9x4-50
CP-114UL-I-DB25M	Universal PCI	4	2 kV	0 to 55°C	CBL-M44M25x4-50

Vertrieb durch



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09120 Chemnitz Fax: +49/371/38388-99
E-Mail: info@amc-systeme.de Web: www.amc-systeme.de

Accessories (sold separately)

Brackets

1490000001000	Bracket for DB44 pack
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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-M44M9x4-50	DB44 male to DB9 male serial cable, 50 cm
CBL-M44M25x4-50	M44 to 4 x DB25 male serial cable, 50 cm

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