

CP-104UL/104JU Series

4-port RS-232 smart Universal PCI serial boards



Features and Benefits

- Over 800 kbps data throughput for top performance
- 921.6 kbps maximum baudrate for fast data transmission
- 128-byte FIFO and on-chip H/W, S/W flow control
- Compatible with 3.3/5 V PCI and PCI-X
- Drivers provided for a broad selection of operating systems, including Windows, Linux, and UNIX
- Wide-temperature model available for -40 to 85°C environments

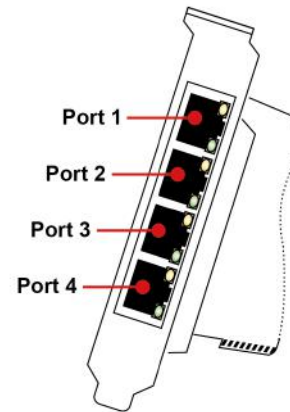
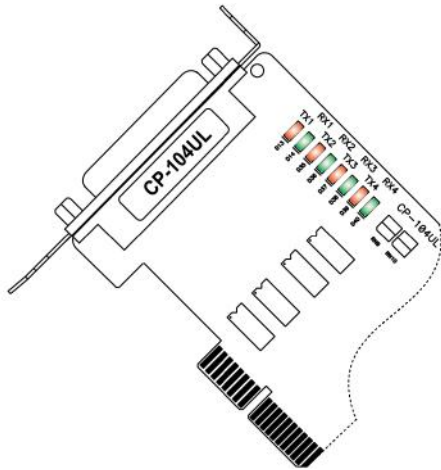
Certifications



Introduction

The CP-104UL and CP-104JU 4-port universal PCI boards are designed for POS and ATM applications. They are a top choice of industrial automation engineers and system integrators, and support many different operating systems, including Windows, Linux, and even UNIX. In addition, each of the boards' RS-232 serial ports supports a fast 921.6 kbps baudrate. The CP-104UL and CP-104JU provide full modem control signals to ensure compatibility with a wide range of serial peripherals, and they work with both 3.3 V and 5 V PCI buses, allowing the boards to be installed in virtually any available PC server.

Built-In LEDs



Specifications

Serial Interface

Comm. Controller	MU860 (16C550C compatible)
Bus	32-bit Universal PCI
Connector	CP-104UL Series: DB44 female CP-104JU Series: 4 x RJ45
FIFO	128 bytes
Max. No. of Boards per PC	8

No. of Ports	4
Serial Standards	RS-232
Baudrate	50 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
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, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD
Power Parameters	
Input Current	CP-104UL Series: 120 mA @ 5 VDC CP-104JU Series: 135 mA @ 5 VDC
Physical Characteristics	
Dimensions	CP-104UL Series: 64.4 x 120 mm (2.53 x 4.72 in) CP-104JU Series: 83 x 120 mm (3.27 x 4.72 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	CP-104UL Series: 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 CP-104JU Series: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
International Approval	CP-104UL-DB9M: KC

Declaration

Green Product	RoHS, CRoHS, WEEE
---------------	-------------------

MTBF

Time	CP-104UL Series: 558,961 hrs CP-104JU Series: 571,627 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

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

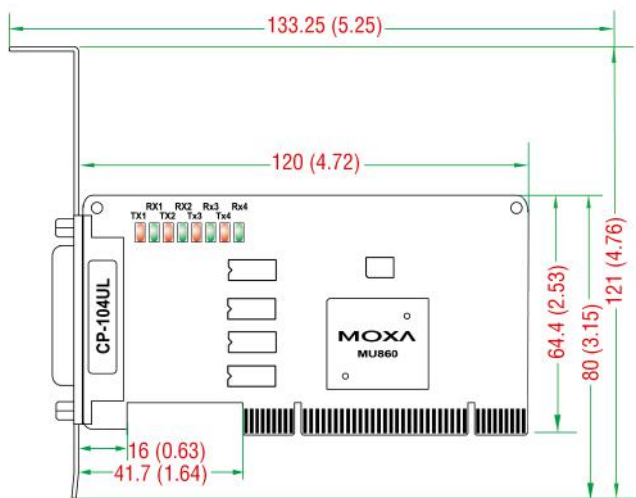
Package Contents

Device	1 x CP-104UL/104JU Series serial board
Cable	1 x M44 to 4 x DB9-M cable, 50 cm (CP-104UL-A-DB9M) 1 x M44 to 4 x DB25-M cable, 50 cm (CP-104UL-A-DB25M)
Documentation	1 x document and software CD 1 x quick installation guide 1 x substance disclosure table 1 x warranty card

Dimensions

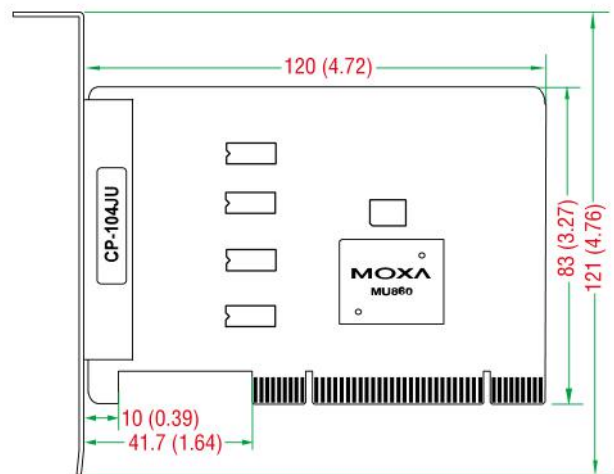
CP-104UL

Unit: mm (inch)



CP-104JU

Unit: mm (inch)



Ordering Information

Model Name	Serial Bus	No. of Serial Ports	Serial Connector	Operating Temp.	Included Cable
CP-104UL-DB9M	Universal PCI	4	DB44 female	0 to 55°C	CBL-M44M9x4-50
CP-104UL-DB25M	Universal PCI	4	DB44 female	0 to 55°C	CBL-M44M25x4-50
CP-104UL-T	Universal PCI	4	DB44 female	-40 to 85°C	-
CP-104JU	Universal PCI	4	8-pin RJ45	0 to 55°C	-
CP-104JU-T	Universal PCI	4	8-pin RJ45	-40 to 85°C	-

Accessories (sold separately)

Brackets

1490000001000	Bracket for DB44 pack
---------------	-----------------------

Cables

CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm Applicable Models: CP-104UL-DB9M
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m Applicable Models: CP-104UL-DB9M
CBL-M44M9x4-50	4-port DB44 male to DB9 male cable, 50 cm Applicable Models: CP-104UL-T
CBL-M44M25x4-50	M44 to 4 x DB25 male cable, 50 cm Applicable Models: CP-104UL-T

© Moxa Inc. All rights reserved. Updated Jan 18, 2019.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.