

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

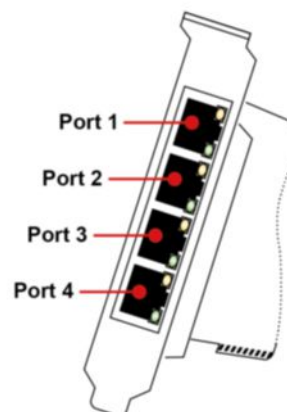
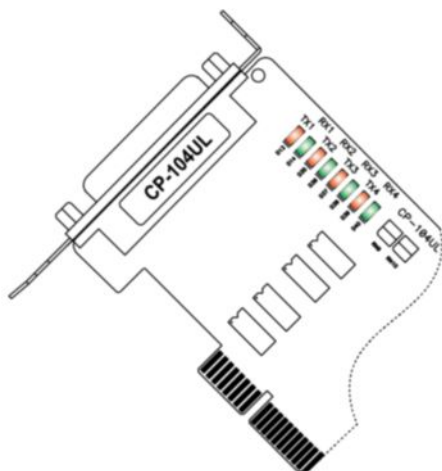
Certifications



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)

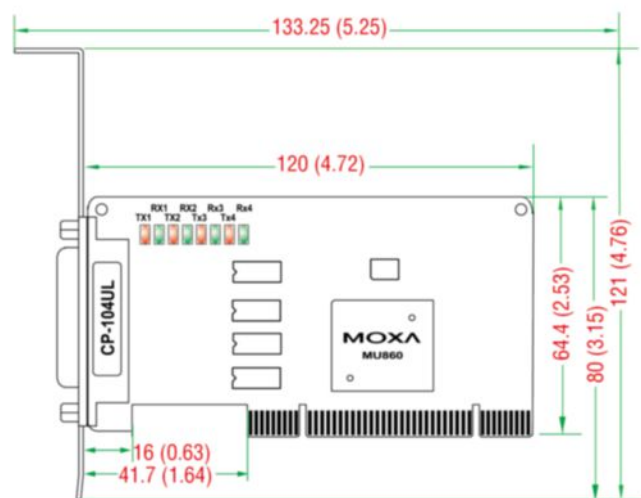
Documentation

1 x document and software CD
1 x quick installation guide
1 x substance disclosure table
1 x warranty card

Dimensions

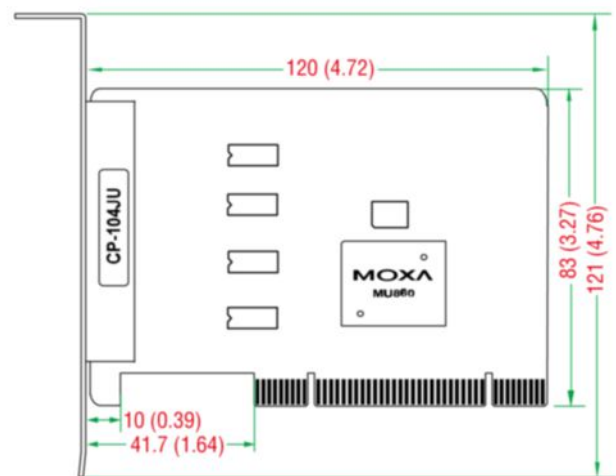
CP-104UL

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
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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

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