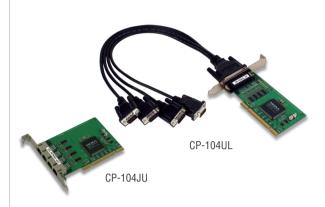
# CP-104UL/JU

# 4-port RS-232 smart Universal PCI serial boards



- > Over 800 Kbps data throughput for top performance
- > 921.6 Kbps maximum baudrate for super fast data transmission
- > 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
- > Wide temperature model available for -40 to 85°C environments





















## : 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

super 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 3.3V and 5V PCI buses, allowing the boards to be installed in virtually any available PC server.

## **Specifications**

#### Hardware

Comm. Controller: MU860 (16C550C compatible)

Bus: 32-bit Universal PCI

Connectors: CP-104UI: DB44 female

CP-104JU: RJ45 x 4 Serial Interface Number of Ports: 4 Serial Standards: RS-232 Max. No. of Boards per PC: 4 **Serial Line Protection** ESD Protection: 15 KV on the board

**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

**Driver Support** 

Operating Systems: Windows (2012 x64, 8/7/XP/2003/Vista/2008 x86/x64, 2000, 9X/ME/NT), Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4.x, Linux 2.6.x, FreeBSD 4/5, QNX 6, SCO

OpenServer 5/6, UnixWare 7, Solaris 10 x86/x64

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

#### **Physical Characteristics**

#### **Dimensions:**

CP-104UL: 64.4 x 120 mm (2.53 x 4.72 in) CP-104JU: 83 x 120 mm (3.27 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: 558.961 hrs

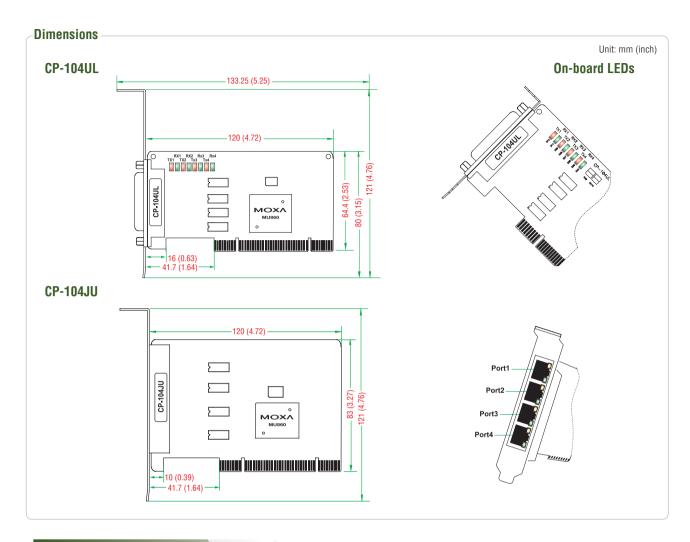
Database: MIL-HDBK-217F, GB 25°C

**Power Requirements Power Consumption:** CP-104UL: 120 mA @ +5 V CP-104JU: 135 mA @ +5 V

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



## **Ordering Information**

### **Available Models**

CP-104UL-DB9M: 4-port RS-232 low profile Universal PCI serial board, 0 to 55°C operating temperature (includes DB9 male cable)

CP-104UL-DB25M: 4-port RS-232 low profile Universal PCI serial board, 0 to 55°C operating temperature (includes DB25 male cable)

CP-104JU: 4-port RS-232 Universal PCI serial board with RJ45 ports on the board, 0 to 55°C operating temperature

CP-104UL-T: 4-port RS-232 low profile Universal PCI serial board, -40 to 85°C operating temperature CP-104JU-T: 4-port RS-232 Universal PCI serial board with RJ45 ports on the board, -40 to 85°C operating temperature

**Connection Options** (can be purchased separately)

#### Package Checklist

- 1 CP-104UL or CP-104JU board
- Low profile bracket (CP-104UL only)
- DB9-M or DB25-M cable included (CP-104UL only)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

#### CBL-M44M9x4-50

DB44 male to DB9 male x 4 (50 cm cable)



#### CBL-RJ45M9-150

8-pin RJ45 to DB9 male (150 cm cable)



PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR

PII	N	RS-232	2
5		GND	
6		DSR	
7		RTS	
8		CTS	



#### CBL-M44M25x4-50

DB44 male to DB25 male x 4 (50 cm cable)



## CBL-RJ45M25-150

8-pin RJ45 to DB25 male (150 cm cable)



PIN	RS-232	PIN
2	TxD	6
3	RxD	7
4	RTS	8
5	CTS	20

