# CP-104UL/JU

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



# **:** 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

# **Specifications**

## Hardware

Comm. Controller: MU860 (16C550C compatible) Bus: 32-bit Universal PCI Connectors: CP-104UL: 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 9X/ME/NT/2000, Windows XP/2003/ Vista/2008/7 x86/x64, Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 x86/x64, FreeBSD 4/5, QNX 6, SCO Open Server 5/6, UnixWare 7, Solaris 10 x86/x64

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

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.

## **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)

## **Standards and Certifications**

EMC: CE, FCC

EMI: EN 55022, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class B

EMS: EN 55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 (DIPS) Green Product: RoHS, CRoHS, WEEE

MTBF (mean time between failures) Time: 558.961 hrs

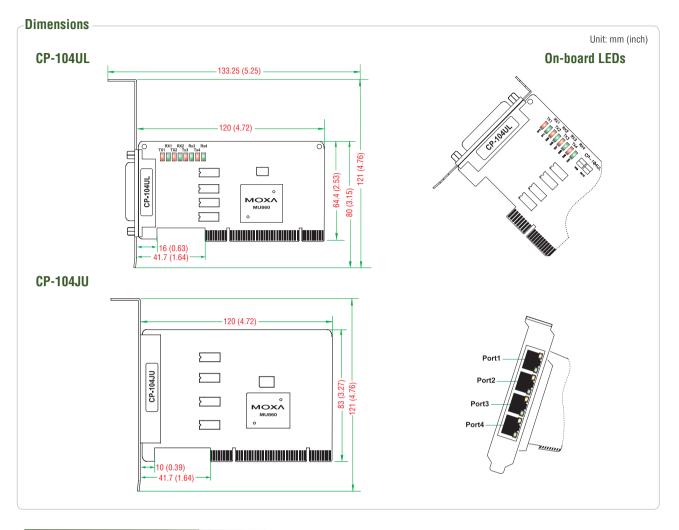
**Database:** MIL-HDBK-217F, GB 25°C

## **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



# **Crdering 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)

CBL-RJ45M9-150 CBL-M44M9x4-50 **DB9** male PIN RS-232 PIN RS-232 DB44 male to DB9 male x 4 8-pin RJ45 to DB9 male DCD 5 GND 1 (50 cm cable) (150 cm cable) 2 RxD 6 DSR C 3 TxD 7 RTS 4 DTR 8 CTS CBL-M44M25x4-50 CBL-RJ45M25-150 DB25 male RS-232 RS-232 PIN PIN DB44 male to DB25 male x 4 8-pin RJ45 to DB25 male 2 TxD 6 DSR (50 cm cable) (150 cm cable) 3 RxD 7 GND  $\cap$ 4 RTS 8 DCD 5 CTS 20 DTR

## 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

MOX