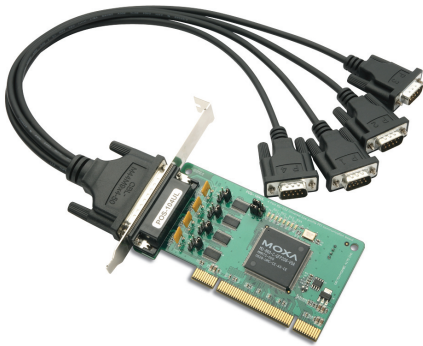


# POS-104UL

## 4-port RS-232 Universal PCI board with power over serial



- > Over 800 Kbps data throughput, for top performance
- > Power options for each port: 5V (output), 12V (output), RI (input)
- > Serial port power from bus or power supply
- > 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
- > Low profile board, suitable for compact-sized PCs
- > Drivers provided for Windows (2000, XP/2003/Vista/2008 x86/x64, 9X/ME/NT), Windows XP Embedded, Windows CE 5.0/6.0, DOS, Linux 2.4, Linux 2.6 (x86/x64), FreeBSD 4/5, QNX 6, SCO OpenServer 5/6, UnixWare 7
- > 15 KV ESD protection on the board
- > Wide temperature model available for -40 to 85°C environments



### Overview

The POS-104UL is a smart, 4-port Universal PCI serial board designed for POS and ATM applications and for use by industrial automation system manufacturers and system integrators. The POS-104UL is compatible with all major operating systems. In addition, each of the board's 4 RS-232 serial ports supports data rates up to 921.6 Kbps,

and provides full modem control signals to ensure compatibility with a wide range of serial peripherals. The POS-104UL supplies 5 or 12 volts of power from each serial port, and works with both 3.3V and 5V PCI buses, making it suitable for installation in most PC servers.

### Specifications

#### Hardware

**Comm. Controller:** MU860 (16C550C compatible)

**Bus:** 32-bit Universal PCI

**Connector:** DB44 female

#### 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, RI (optional)

#### Driver Support

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

#### Physical Characteristics

**Dimensions:** 64.4 x 120 mm (2.53 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)

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** -20 to 85°C (-4 to 185°F)

#### Regulatory Approvals

**FCC:** Part 15 Class B

**EMS:** EN55022, EN61000-6-2, EN61000-6-4, EN61000-3-2, EN61000-3-3, 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)

#### Power Requirements

**Power Consumption:** 145 mA @ +5 V

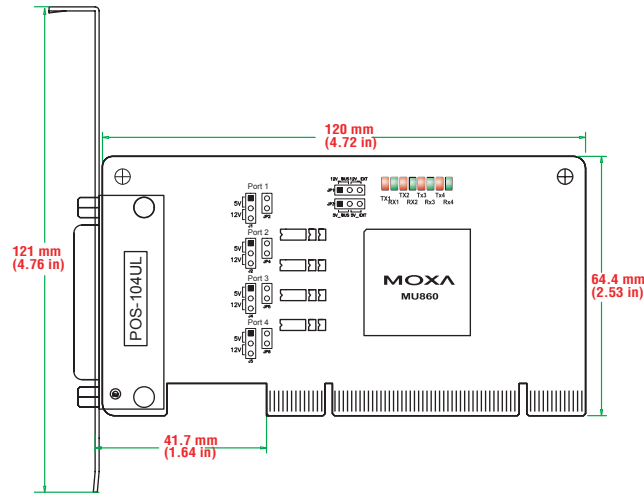
Power Output (per port): 1 A @ 5 V, 1 A @ 12 V

#### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Dimensions



### Ordering Information

#### Available Models

**POS-104UL-DB9:** 4-port RS-232 low profile Universal PCI board with serial port power, 0 to 55°C operating temperature (DB9 male cable included)

**POS-104UL-T:** 4-port RS-232 low profile Universal PCI board with serial port power, -40 to 85°C operating temperature

#### Package Checklist

- POS-104UL board
- Low profile bracket
- DB9 male cable (POS-104UL-DB9 only)
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

### Connection Options (can be purchased separately)

#### CBL-M44M9x4-50 (POS)



| PIN | RS-232    |
|-----|-----------|
| 1   | DCD       |
| 2   | RxD       |
| 3   | TxD       |
| 4   | DTR       |
| 5   | GND       |
| 6   | DSR       |
| 7   | RTS       |
| 8   | CTS       |
| 9   | 5V/12V/RI |

#### DB9 male

