



# POS-104UL Quick Installation Guide

First Edition, January 2007

## 1. Overview

The POS-104UL is a 4-port RS-232 Universal PCI serial board that is ideal for connecting a wide range of serial devices to a PC. Suitable devices include terminals, modems, printers, scanners, cash registers, bar code readers, keypads, numeric displays, electrical scales, and data acquisition equipment. The board's device drivers make full use of the 128-byte Tx/Rx FIFO and on-chip H/W and S/W flow control, which allow data transmission at speeds of up to 921.6 Kbps.

## 2. Package Checklist

Before installing the POS-104UL board, verify that the package contains the following items:

- 1 POS-104UL 4-port RS-232 with serial port power board
- Document and Software CD-ROM
- POS-104UL Quick Installation Guide
- Low Profile Bracket
- 5-year Product Warranty Statement

Please notify your sales representative if any of the above items are missing or damaged.

## 3. Hardware Installation Procedure

The POS-104UL board **MUST** be installed in the PC before installing the driver. The following directions explain how to install the board in the PC.

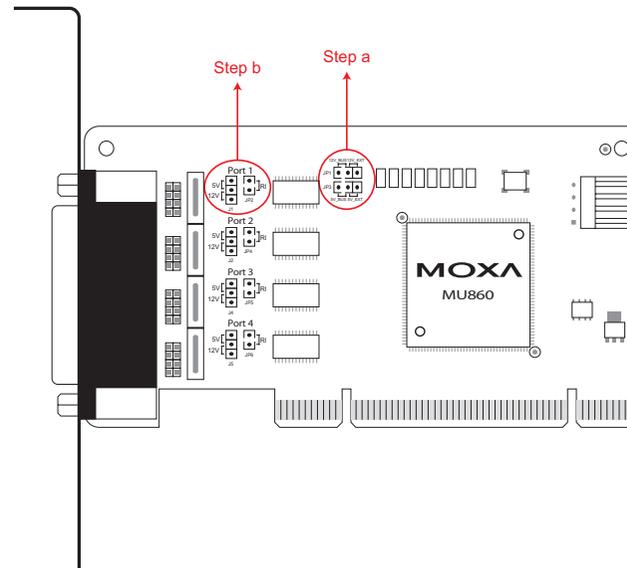
**STEP 1:** Power off the PC.

**STEP 2:** Insert the POS-104UL control board firmly into a free PCI or PCI-X slot.

**STEP 3:** Fasten the holding screw to fix the control board in place.

**STEP 4:** Use the jumpers on the board to select the source of the serial port power.

- Configure the jumpers labeled "Step a" below to select the source of the port power. 5V and 12V power can be configured independently. Use the top row of pins to select the 12V power source, and use the bottom row of pins to select the 5V power source. Short the left two pins of the row to select Bus power, and short the right two pins of the row to select external power. If one or both of the rows are set for external power, you need connect the cable from the back of POS-104UL to the PC's power supply.
- Jumper pins for each of the 4 ports are provided to select RI, 5V, or 12V as the power signal for that port (see the pins labeled "Step b" below).
  - > Short the right two pins to set pin 9 of that port as the RI signal (input).
  - > Short the top two pins on the left to set pin 9 of that port as the 5V power output.
  - > Short the bottom two pins on the left to set pin 9 of that port as the 12V power output.



**STEP 5:** Power on the PC; the BIOS will set the IRQ and I/O address automatically.

## 4. Software Installation Information

The board **MUST** be plugged in before installing the driver software. See the previous section for instructions on how to install the board in your PC. Refer to the POS-104UL User's Manual for detailed instructions on installing the drivers for this board.

### Windows 2003/XP Driver Installation

- After powering on your PC, Windows 2003/XP will detect the POS-104UL board automatically.
- Insert the POS-104UL software CD in your CD-ROM drive.
- Select **Install from a list or specific location (Advanced)**.
- After selecting **Search for the best driver in these locations**, check the **Include this location in the search** checkbox, and then use the browse button to navigate to the CD's \Software\Windows XP-2003 folder.
- Click **Continue Anyway** in response to any warnings that the software hasn't passed Windows Logo testing.
- After the board has been installed, the installation wizard will guide you through the port installation procedure, starting with port 0.
- Use the **Device Manager** to check if the installation of the board and ports was successful. Click on the + sign next to **Hardware**, and then check under **Multi-port serial adapters** and **Ports (COM & LPT)**. If there are any special marks, such as a question mark or exclamation point, in front of the board or port icons, examine the **Event Log** as a first step to determine where the problem is.

### Windows 2000 Driver Installation

- After powering on your PC, Windows 2000 will detect the POS-104UL board automatically.
- Insert the POS-104UL software CD in your CD-ROM drive.
- Select **Search for a suitable driver for my device (recommended)**.
- In **Optional search location**, checkmark **specify a location**. Navigate to the \Software\Windows 2K folder on the software CD, and then click on **OK** to continue.
- Click **Continue Anyway** in response to any warnings that the software hasn't passed Windows Logo testing.
- After the board has been installed, the installation wizard will guide you through the port installation procedure, starting with port 0.  
**NOTE:** Be sure to install the software from the CD's \Software\Windows 2K folder.
- Use the **Device Manager** to check if the installation of the board and ports was successful. Click on the + sign next to **Hardware**, and then check under **Multi-port serial adapters** and **Ports (COM & LPT)**. If there are any special marks, such as a question mark or exclamation point, in front of the board or port icons, examine the **Event Log** as a first step to determine where the problem is.

P/N: 1802001048000

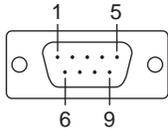
## 5. Pin Assignments and Cable Wiring

POS-104UL boards have one female DB44 connector on the board. You may use the cable included as a standard accessory to connect to your serial devices, we give the pin assignments for the serial device side.

### **CBL-M44M9x4-50:**

Male DB44 to male DB9 × 4

**Male DB9**



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

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