

# Quick Start Guide

## Ulinx USB to Serial Converters 1 Port Devices and 2 Port DIN



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### Items Included

- USB to Serial Device
- One Meter USB Cable
- CD ROM with Drivers
- This Quick Start Guide

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### General

1. One USB port is required for each installed device. The USB port can be native to the PC or it can be a USB port from an installed USB hub to the PC.

Note: The device work with USB 1.1 or 2.0 ports but has a maximum USB data rate of 12Mbps.

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### Installation

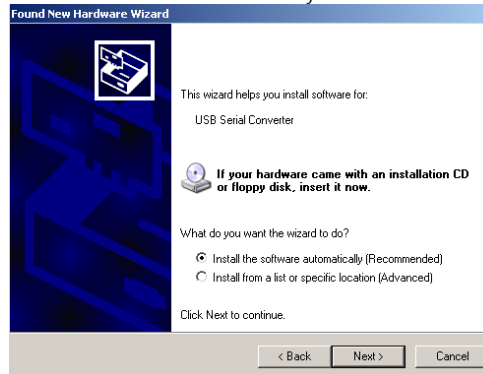
THE FOUND NEW HARDWARE WIZARD WILL RUN ONCE TO INSTALL THE USB DEVICE AND ONCE PER COM PORT INSTALLATION.

The sample screen shots are from Windows XP.

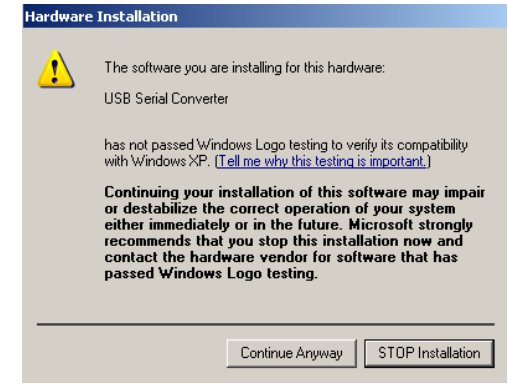
- Insert the included driver CD into the PC's CD ROM bay
- Connect the converter to the PC's USB port with the supplied cable.
- The Found New Hardware wizard will start.
- When prompted to connect to Windows Update to search for the driver, select "No, not at this time" and click Next>



- Select Install the software automatically and click Next>



- A warning concerning Windows logo testing will be displayed. Click on Continue Anyway >



- Completing the Found New Hardware Wizard will be displayed. Click on Finish >



Note: The installation process consists of the installation of the USB device and then the installation process will start over again for each COM port.

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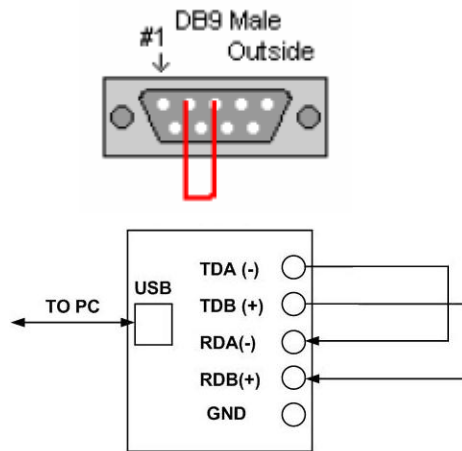
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## Verifying Installation

- To verify the installation went correctly open the Windows Device Manager
  - Scroll down to Ports,
  - Expand the ports by clicking on the plus sign (+), this shows if the ports now exist on the PC.
  - If there are no exclamation points or other indicators of a problem the ports should be installed correctly and ready for use.
- Verifying with a loopback test.
  - If the device is RS-232 or TTL loopback pins 2 and 3. If the device is RS-422 or RS-485 loopback the TDA(-) to RDA(-) and TDB(+) to RDB(+), if desired use the pin-out charts for the location of each pin or terminal.
  - Using Hyper Terminal or similar program, connect to the appropriate COM port. Set the desired baud rate. Ensure Hyper Terminal local echo is OFF. **(Note: Hyper Terminal is not provided with Vista and 2003 Server)**
  - Transmit data. If the same character string is returned, the test is good.



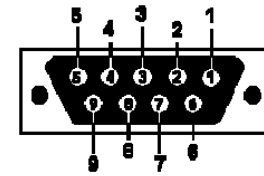
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## Dip Switch Setting

Note: For models with selectable RS-422/485 configurations

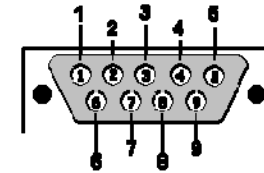
Dip switches allow the module to be configured for two-wire or four-wire, RS-422 or RS-485 modes. In two-wire mode the TDA (-) and RDA (-) are tied together and so are TDB (+) and RDB (+), making multi-dropping this converter into an existing network easy.

| Dip Switch Settings |            |            |
|---------------------|------------|------------|
| Switch              | Off (left) | On (right) |
| 1                   | RS-422     | RS-485     |
| 2                   | ECHO ON    | ECHO OFF   |
| 3                   | 4-Wire     | 2-Wire     |
| 4                   | 4-Wire     | 2-Wire     |



DB9 Female

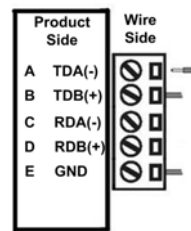
| RS-485 Pinout (DB9 Female) |                         |                           |
|----------------------------|-------------------------|---------------------------|
| Pin                        | RS-485, 4 Wire          | RS-485, 2 Wire            |
| 1                          | Not Used                | Not Used                  |
| 2                          | Receive RDA (-) Input   | Data A (-) Input / Output |
| 3                          | Transmit TDB (+) Output | Data B (+) Input / Output |
| 4                          | Ground                  | Ground                    |
| 5                          | Not Used                | Not Used                  |
| 6                          | Ground                  | Ground                    |
| 7                          | Receive RDB (+) Input   | Data B (+) Input / Output |
| 8                          | Transmit TDA (-) Output | Data A (-) Input / Output |
| 9                          | Not Used                | Not Used                  |



DB9 Male

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## Pinouts



| RS485 Pinout (Terminal Blocks) |                         |                           |
|--------------------------------|-------------------------|---------------------------|
| Terminal Position              | RS-485, 4 Wire          | RS-485, 2 Wire            |
| A                              | Transmit TDA (-) Output | Data A (-) Input / Output |
| B                              | Transmit TDB (+) Output | Data B (+) Input / Output |
| C                              | Receive RDA (-) Input   | Data A (-) Input / Output |
| D                              | Receive RDB (+) Input   | Data B (+) Input / Output |
| E                              | Ground                  | Ground                    |

| RS-232 and TTL Pinout (DB9 Male DTE) |                           |                |             |
|--------------------------------------|---------------------------|----------------|-------------|
| PIN                                  | Signal Name               | RS-232 Signals | TTL Signals |
| 1                                    | DCD (Data Carrier Detect) | Input          | Not Used    |
| 2                                    | RD (Receive Data)         | Input          | Input       |
| 3                                    | TD (Transmit Data)        | Output         | Output      |
| 4                                    | DTR (DTE Ready)           | Output         | Not Used    |
| 5                                    | SG (Signal Ground)        | Ground         | Ground      |
| 6                                    | DSR (DCE Ready)           | Input          | Not Used    |
| 7                                    | RTS (Request to Send)     | Output         | Output      |
| 8                                    | CTS (Clear to Send)       | Input          | Input       |
| 9                                    | RI (Ring Indicator)       | Input          | Not Used    |

NOTE: To remove drivers from a PC, there is an Uninstall reference document on the CD ROM.



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