

# Important!

## Install the CD Drivers before Connecting the Hardware to the PC.

## Quick Start Guide

### Ulinx, USB to 1 Port Serial and 1 & 2 Port DIN Converters



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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 devices work with USB 1.1 or 2.0 ports but have a maximum USB data rate of 12Mbps.

Surrounding Air Ambient Temperature: 0 to 70° C

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### Installation

- INSERT THE DRIVER CD INTO YOUR CD-ROM BEFORE PLUGGING THE HARDWARE INTO THE PC.
- If you have inserted the hardware first and the Found New Hardware Wizard launched, click cancel to exit the wizard.



- After inserting the CD, the Ulinx USB Driver Installation wizard should launch automatically. If not, navigate to the CD-ROM drive and run setup.exe. To find your CD-ROM drive, double click "Computer" or "My Computer" on your desktop, then double click on your CD-ROM drive (usually D:).
- In Windows Vista, if the following dialog appears, click "Run setup.exe".



- When the Ulinx USB Driver Installation Wizard appears, follow the wizard to complete the installation.



- When the Ulinx USB Driver Installation Wizard is done installing the driver, using the included USB cable plug the USB hardware into an available USB port on the PC.

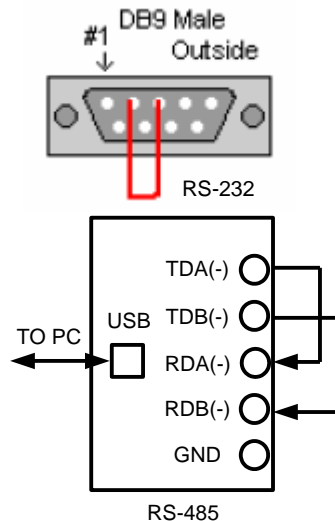
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## Verifying Installation

- 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, loopback pins 2 and 3. If the device is RS-422 or RS-485, loopback the TDA(-) to RDA(-) and TDB(+) to RDB(+). 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 or 2003 Server**)
  - Transmit data. If the same character string is returned, the test is good.



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## Dip Switch Setting

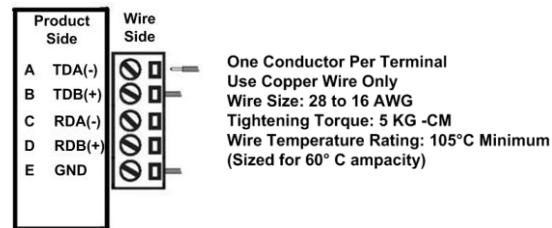
**Note:** For models with selectable RS-422/485 configurations

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.

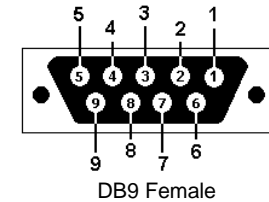
| Dip Switch Settings |            |            |
|---------------------|------------|------------|
| Switch              | Off (left) | On (right) |
| 1                   | RS-422     | RS-485     |
| 2                   | ECHO ON    | ECHO OFF   |
| 3                   | 4-Wire     | 2-Wire     |
|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

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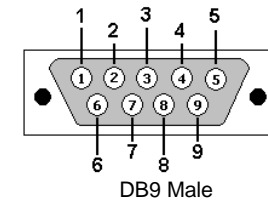
## Pinouts



| 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-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                  |



| 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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