

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.

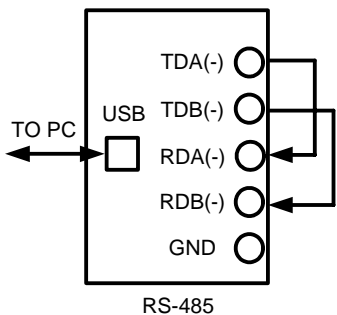
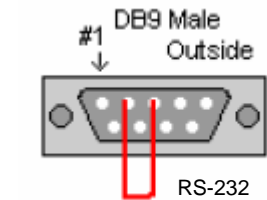


- When the Ulinx USB Driver Installation Wizard is done installing the driver, using the included USB cable plug the USB hardware into an available USB port on the PC.

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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.



RS-485

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Dip Switch Setting

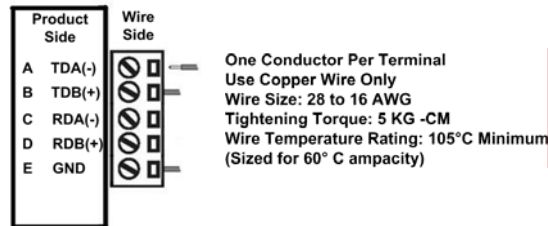
Note: For models with selectable RS-422/485 configurations

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.

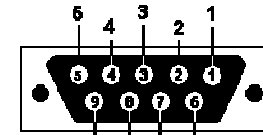
| Dip Switch Settings | | |
|---------------------|------------|------------|
| Switch | Off (left) | On (right) |
| 1 | RS-422 | RS-485 |
| 2 | ECHO ON | ECHO OFF |
| 3 | 4-Wire | 2-Wire |
| 4 | 4-Wire | 2-Wire |

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Pinouts

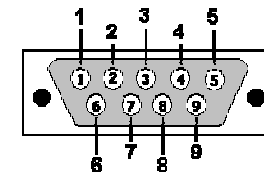


| RS485 Pinout (Terminal Blocks) | | |
|--------------------------------|-------------------------|---------------------------|
| Terminal Position | RS-485, 4 Wire | RS-485, 2 Wire |
| A | Transmit TDA (-) Output | Data A (-) Input / Output |
| B | Transmit TDB (+) Output | Data B (+) Input / Output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



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

| 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.