

Quick Start Guide

Ulinx USB to Serial Converters 2 Port and 4 Port Devices



1

Items Included

- USB to Serial Device
- Two 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.
2. Sleep & Hibernate: Windows 7 disables USB transmit while in Sleep & Hibernate.

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

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Installation

The CD contains a driver installation program. Install the drivers using this program before connecting the USB Converter to your computer.

The sample screen shots are from Windows 7.

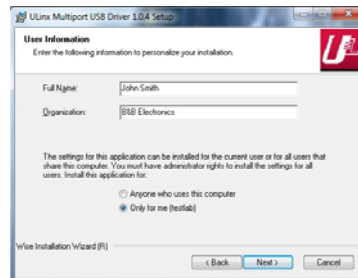
- Insert the included driver CD into the PC's CD ROM bay
- The Driver Install Program will start.



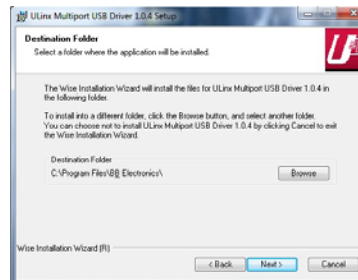
- Select "Run setup.exe."



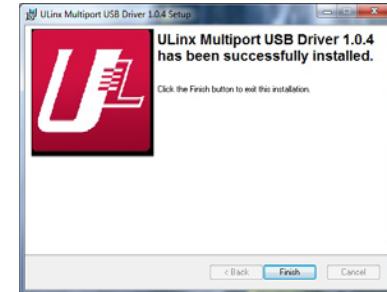
- Click "Next"



- Fill in user information and click "Next." Fill in destination drive or use the default and click "Next."



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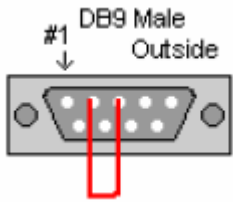


- Installation is complete. Plug in your USB to Serial Converter. It may take up to 30 seconds for each COM port to be assigned. You can watch the progress in Device Manager.

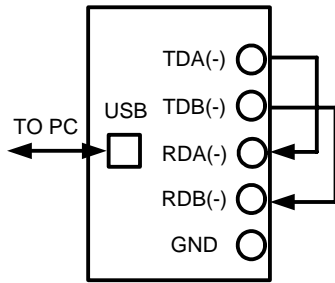
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Verifying Installation

1. 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.
2. 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 (4-Wire) 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.

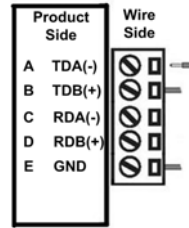


RS-232

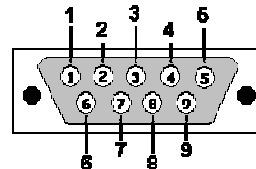


RS-485

6 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



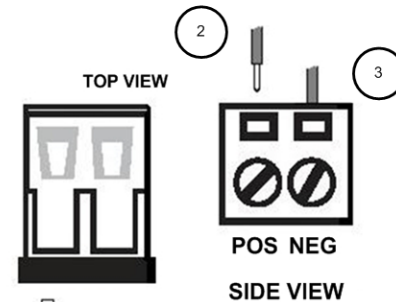
RS-232 Pinout (DB9 Male DTE)		
PIN	Signal Name	RS-232 Signals
1	DCD (Data Carrier Detect)	Input
2	RD (Receive Data)	Input
3	TD (Transmit Data)	Output
4	DTR (DTE Ready)	Output
5	SG (Signal Ground)	Ground
6	DSR (DCE Ready)	Input
7	RTS (Request to Send)	Output
8	CTS (Clear to Send)	Input
9	RI (Ring Indicator)	Input

7 Optional External Power for Optically Isolated Units

External Power Option:

USO9ML2-2P	10 to 30 VDC @ 3.0 W max.
USO9ML2-4P	10 to 30 VDC @ 5.0 W max.
USOPTL4-2P	10 to 30 VDC @ 3.0 W max.
USOPTL4-4P	10 to 30 VDC @ 5.0 W max.

Surrounding Air Ambient Temperature: 0 to 70° C



- One Conductor Per Terminal
- Use Copper Wire Only
- Wire Size: 28 to 16 AWG
- Tightening Torque: 5 KG -CM
- Wire Temperature Rating: 105°C Minimum (Sized for 60° C ampacity)

1. Loosen the screw to open the terminal block lead clamp.
2. Insert the power lead. TB will accept 28-16 AWG wire.
3. Tighten the screw to close the terminal block lead clamp. Ensure the clamp holds the lead securely. However, do not over tighten.

NOTE: For Replacement Terminal Block, Order Part #7444.

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

5 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