

### 3 | Troubleshooting

NOTE: Models BB-485USBTB-2W-A and BB-485USBTB2WLS-A cannot be used as RS-422 devices or as 4-wire RS-485.

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 on a USB hub that is connected to a PC.

The device works with USB 1.1 or 2.0 ports. But, it has a maximum USB data rate of 12 Mbps.

1. To verify the installation, open the Windows Device Manager.
2. Scroll down to Ports.
3. Expand the flyout window.
4. You should see the new ports. If there are no exclamation points or other trouble indicators, the ports are installed correctly and ready for use.

#### Windows 7 – Manual Installation

If Windows 7 does not search/install the FTDI driver software automatically, follow these steps to install it manually:

1. In **Control Panel>System**, click **Window Update>Change Settings**.
2. Ensure that Important Updates has **Install Updates Automatically** selected. Click **OK**.
3. Select **Check for Updates**. If any updates are needed, install them.
4. Reboot PC.
5. Plug the USB cable connected to the device into the PC.
6. If, at this point, the FTDI driver does not install automatically, then:
7. In **Control Panel>Device Manager**, if **DUT** appears with yellow warning symbol, simply click to install the FTDI driver manually.

#### Serialized Model/s

Every unit is assigned a unique COM port and the install process is required for every unit. Ideal application: fixed locations.

#### -LS- (Locked Serial Number) Model/s

Same type model numbers share the same COM port and require only one install process for each model type. Ideal for field service applications. (Locked Serial Number supported versions include “-LS-” in the model number).

#### Recommended Accessories

**USB Cable – 1.8 m (6 ft)**  
Model# BB-USBAMBM-6F



**4-Port Industrial USB Hub**  
Model# BB-UH104



**B+B SMARTWORX**

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## + QUICK START GUIDE



**BB-485USBTB-2W-A, BB-485USBTB-4W-A,  
BB-485USBTB2WLS-A or BB-485USBTB4WLS-A**

USB to RS-485 Miniature Converter

**Before you begin, make sure you have the following:**

- + USB to RS-485 Mini Converter:  
Model BB-485USBTB-2W-A, BB-485USBTB-4W-A,  
BB-485USBTB2WLS-A or BB-485USBTB4WLS-A
- + USB Cable, 1 m (3 ft), included

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Fast and easy on the web: [www.advantech-bb.com](http://www.advantech-bb.com)

## Product Overview



RS-485  
Terminal  
Block



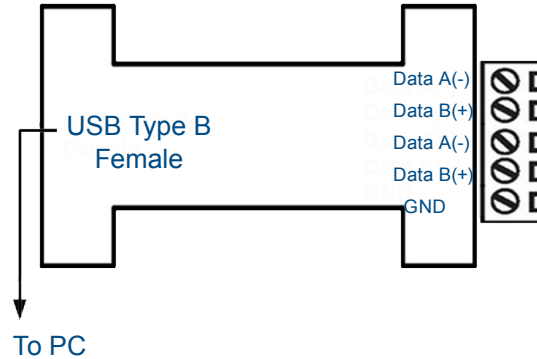
USB Type B  
Female  
High retention port

## 2 | Connect Your USB to RS-485 2-Wire or 4-Wire Converter

### 2-Wire Converters

Models BB-485USBTB-2W-A & BB-485USBTB2WLS-A

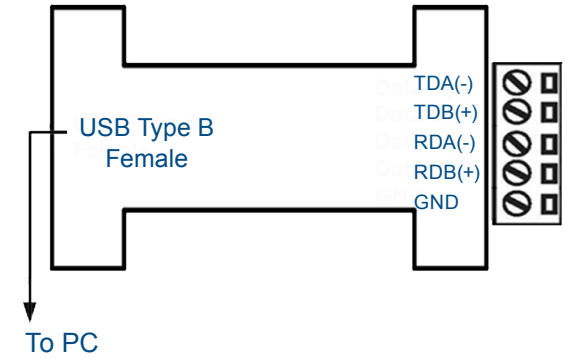
Connect the converter's USB port to a USB port on your computer or USB hub.



### 4-Wire Converters

Models BB-485USBTB-4W-A & BB-485USBTB4WLS-A

Connect the converter's USB port to a USB port on your computer or USB hub.



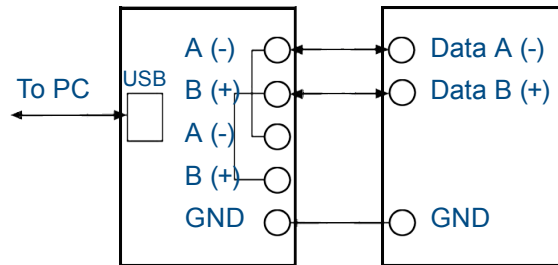
## 1 | Install the Drivers

When plugged in, Windows will find and install the FTDI Virtual COM (VCP) driver software. Be sure to enable Windows updates.

When installation is complete, the USB converter will appear in Windows Device Manager as an additional COM port.

If the computer you are installing the converter on cannot access the internet, a driver package is available for download from the B+B SmartWorx webpage.

### RS-485 2-Wire Device



Jumpers are internal to the converter

### RS-485 4-Wire Device

