

## **PL-2303 USB-to-Serial Bridge Controller** **Mac OS X Universal Binary Driver Installation Guide** **(for Mac OS X 10.9, 10.10, 10.11, 10.12, 10.13)**

### **Introduction**

This installation guide document shows the procedure for installing the Mac OS X driver v1.6.1 for the Prolific PL-2303 devices. The driver can be downloaded from the Support webpage of the Prolific website:

[http://www.prolific.com.tw/US/ShowProduct.aspx?p\\_id=229&pcid=41](http://www.prolific.com.tw/US/ShowProduct.aspx?p_id=229&pcid=41)

### **System Requirement**

The following requirements are needed:

- Mac OS X 10.9 (Mavericks), 10.10 (Yosemite), 10.11 (El Capitan), 10.12 (Sierra), 10.13 (High Sierra)
- Apple Mac OS X compatible computers
- PL-2303 USB-to-Serial Cable Adapter
- PL-2303 Mac OS X Universal Binary Driver:
  - ✓ **PL2303\_MacOSX\_1.6.1\_20160309.pkg**

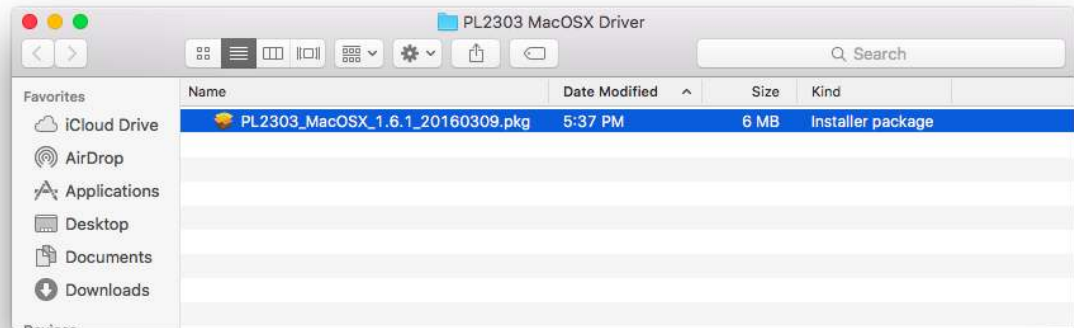


## Mac OS X Driver Installation

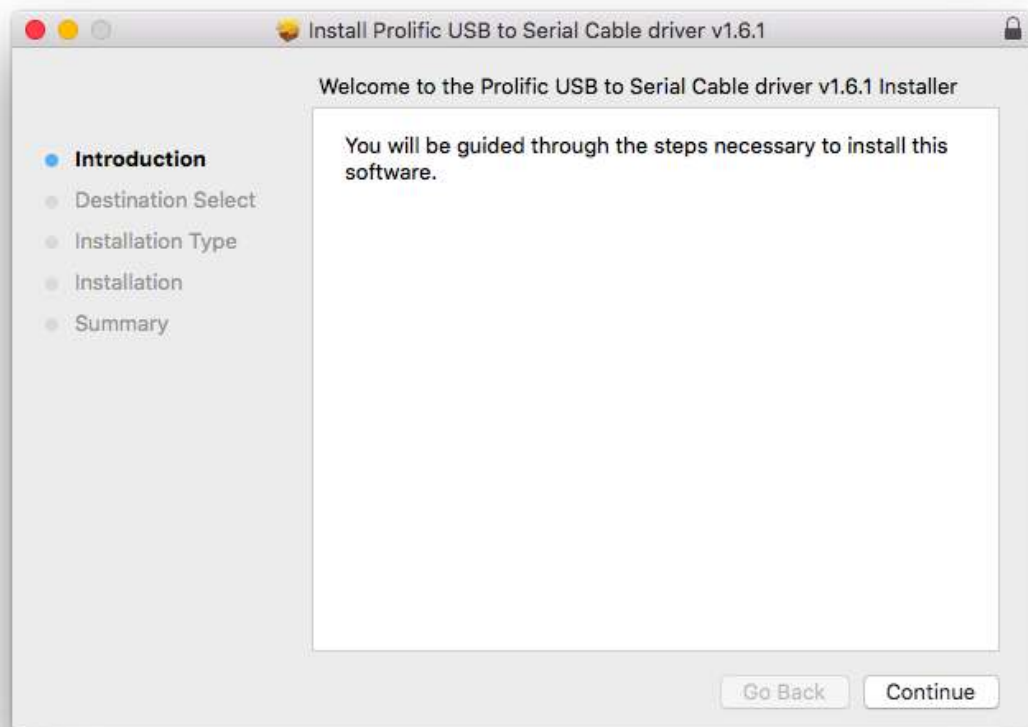
The following steps will show how to install the PL-2303 device under Mac OS X operating system:

1. Download the Mac OS X Universal Binary driver from Prolific website and extract pkg file.

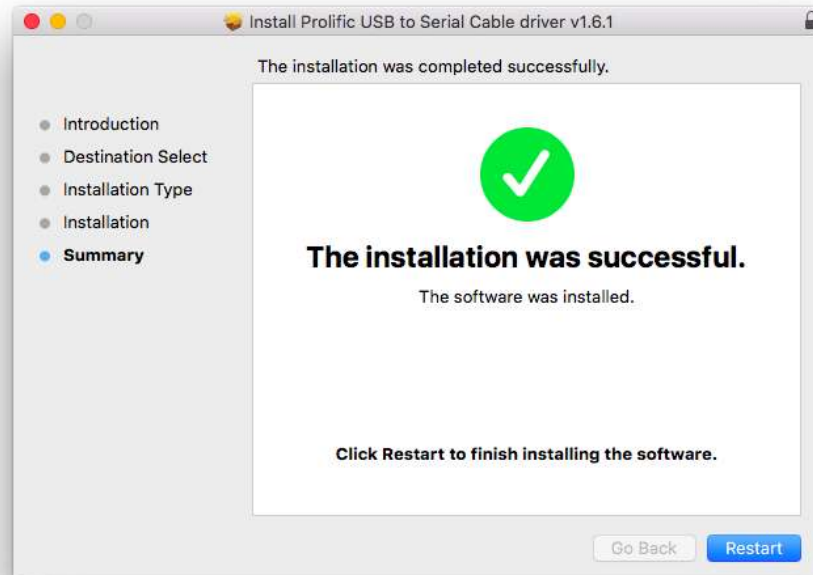
[http://www.prolific.com.tw/US/ShowProduct.aspx?p\\_id=229&pcid=41](http://www.prolific.com.tw/US/ShowProduct.aspx?p_id=229&pcid=41)



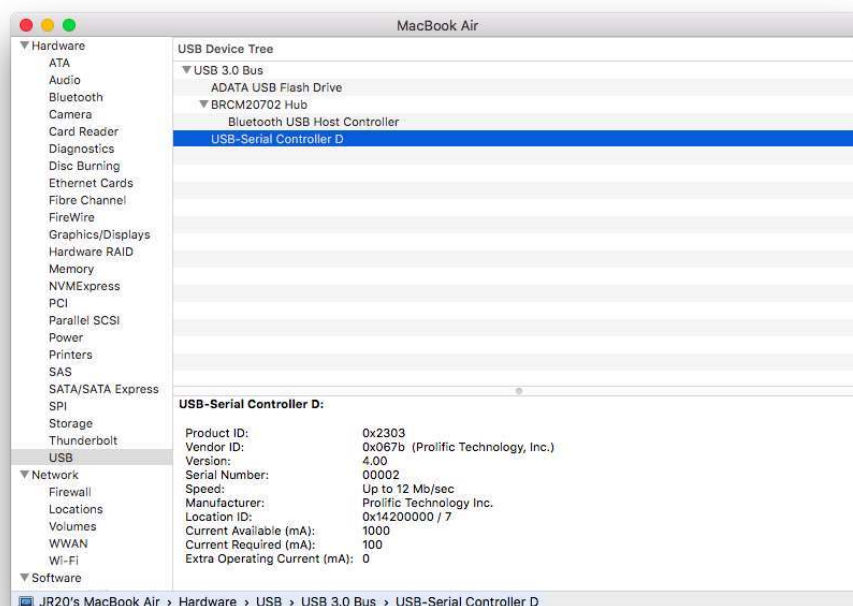
2. Click on the driver installer pkg file to run the driver installation process. Click Continue to proceed and follow the succeeding instructions to complete the installation.



3. At the end of the installation, you will need to restart your computer. Close all programs and click Restart to complete installation and reboot the system.

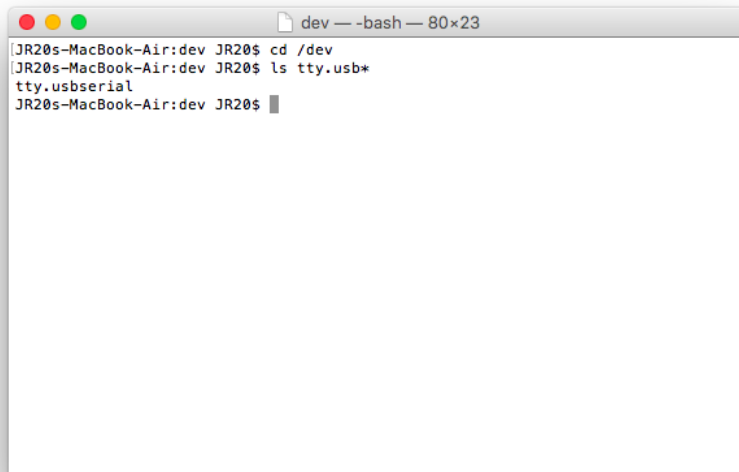


4. Now plug the PL-2303 USB-to-Serial adaptor or cable to the USB port. You can first run the System Profiler program under the Applications-Utilities folder. Click USB hardware inside System Profiler and look for “**USB-Serial Controller**” or “**USB-Serial Controller D**”. This means that the hardware device is detected by your Mac computer.



5. You can then proceed to check if the USB serial port device is setup properly. You can run the Terminal program under Applications-Utilities folder and type the following commands:

```
cd /dev  
ls tty.usbserial*
```



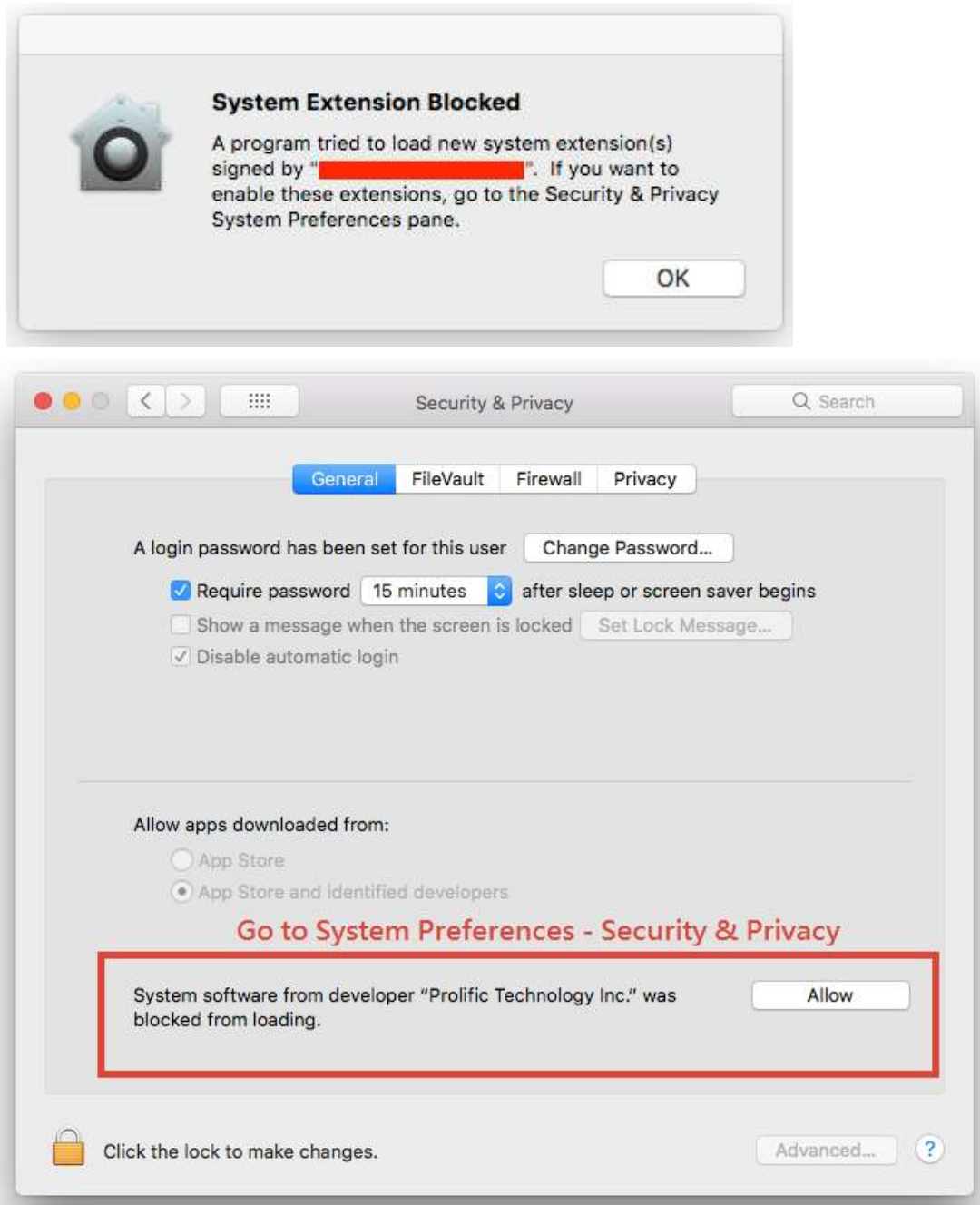
You should see the **"tty.usbserial"** device which means the USB serial device is already setup properly. If you try to plug another PL-2303 device, you should also see several **"tty.usbserialx"** listed where **"x"** is the assigned device number similar to Windows COM port assignment.

6. NOTE: Mac OS may also pop-up a new network interface when it detects a new USB-Serial Controller device. See next section for more explanation.



**NOTE:** Mac OS High Sierra 10.13 introduces a new feature that requires user approval before loading new third-party kernel extensions. Go to **System Preferences - Security & Privacy** and click **Allow**.

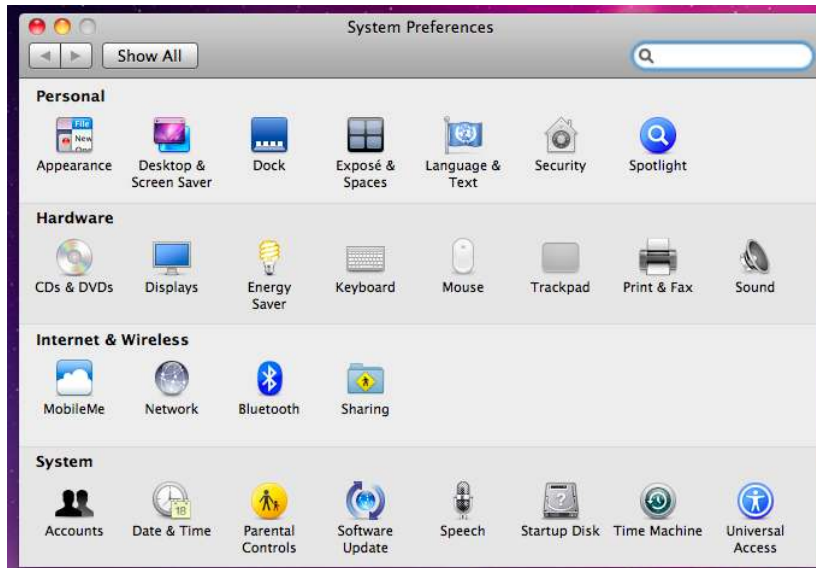
<https://developer.apple.com/library/content/technotes/tn2459/index.html>



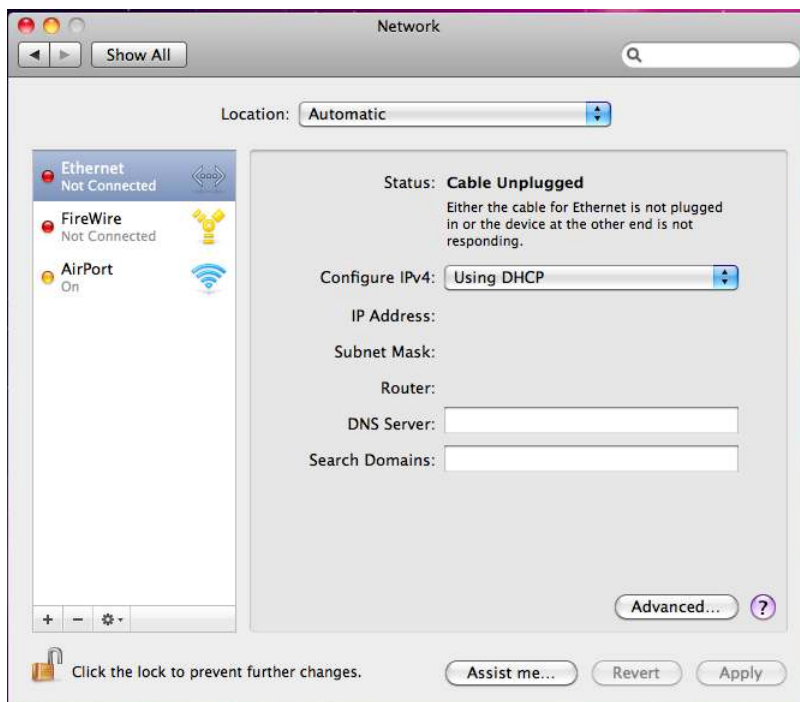
## How to Connect Serial Modem

The following steps will show how to connect a Serial Modem using the PL-2303 cable:

1. One common test is to connect a 56K serial modem to the PL-2303 adapter. Go to System Preferences and click on Network.

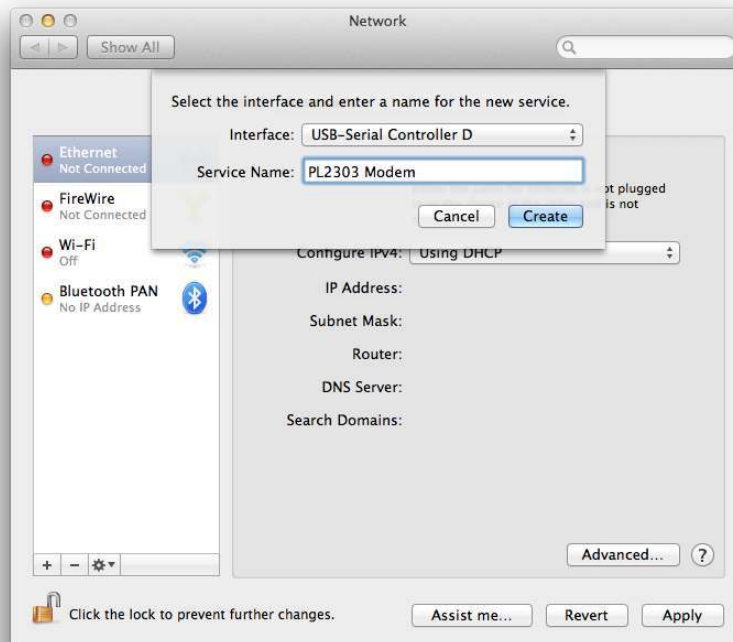


2. The left side column shows you all the existing ports and status. If you do not see the USB Serial Controller device, click on the "+" add button to look for the device.

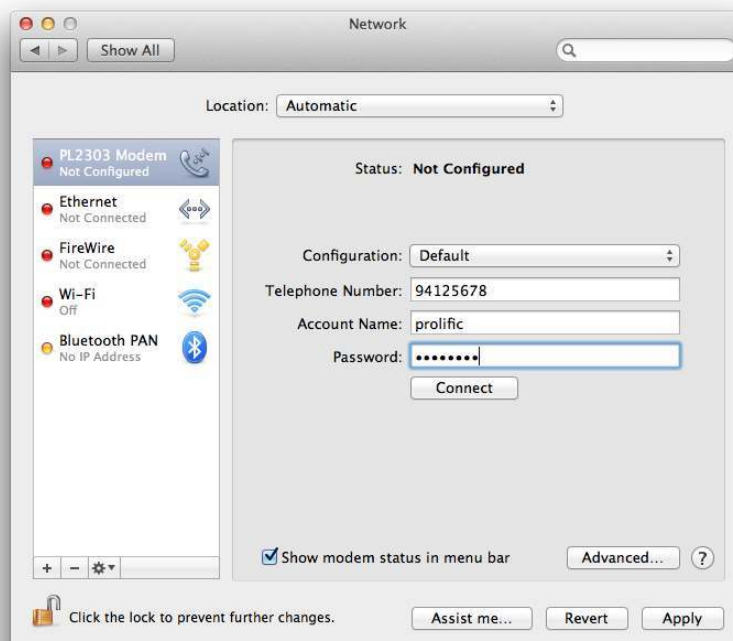




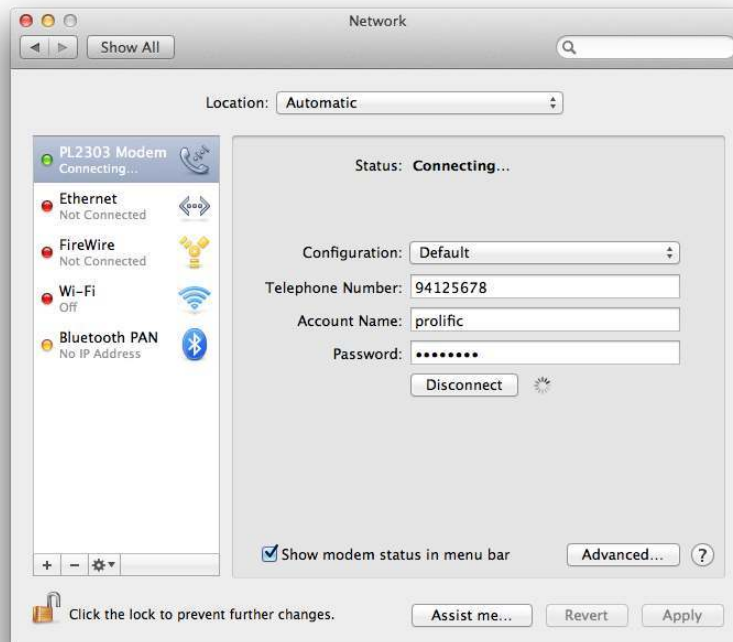
3. Select the Interface “USB-Serial Controller”. You can also choose to change the Service Name to distinguish the device if you have several devices attached.



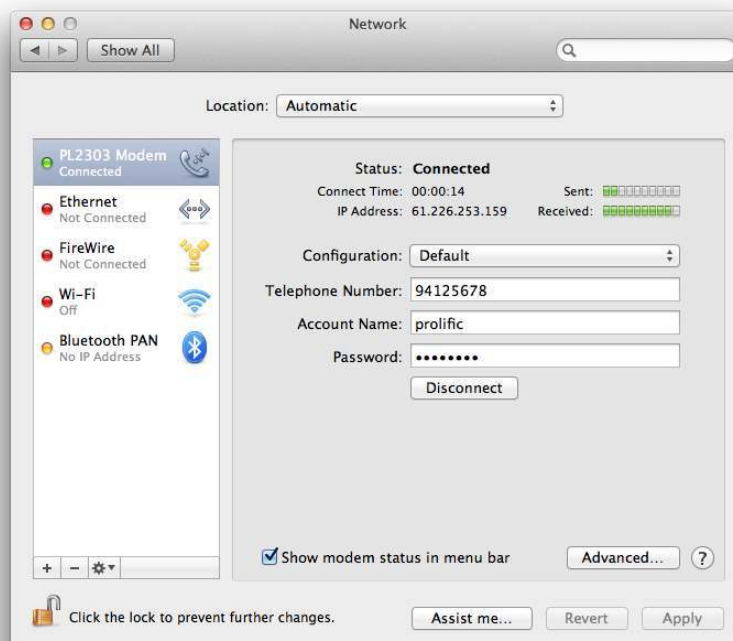
4. Now the “USB-Serial Controller” device is added to the list and you can start to configure the serial modem Internet dial-up settings attached to the PL-2303 cable adaptor.



- Click the Connect button to start the Internet dial-up connection. Make sure the serial modem has a telephone connected and powered on.



- When connection is made, you can start to use Mac OS X Safari web browser and monitor the modem connection status by data sent and received.

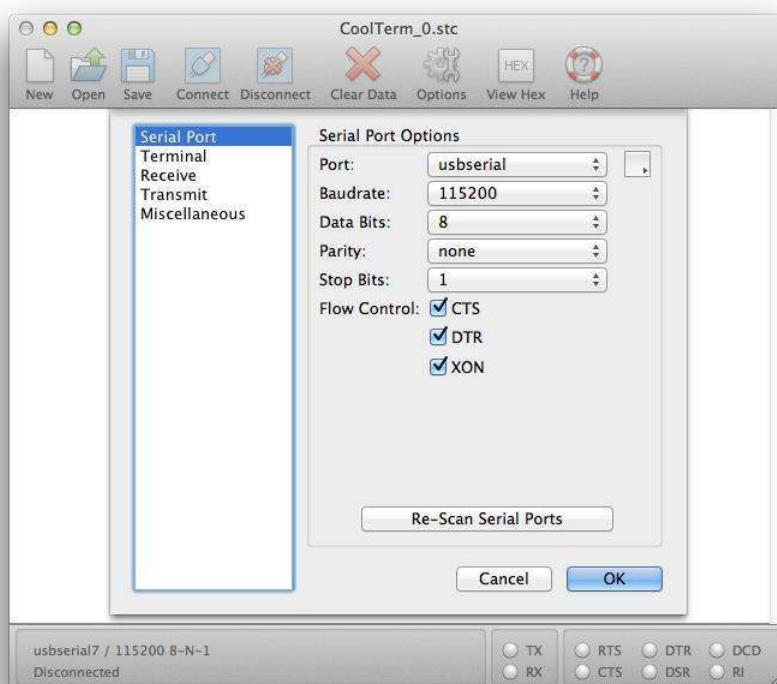




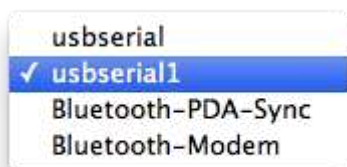
## How to Run Serial Port Terminal Program

You can use any serial port terminal program and a null modem cable to connect two cables together and transmit/receive data files. The following steps will show how to use the program:

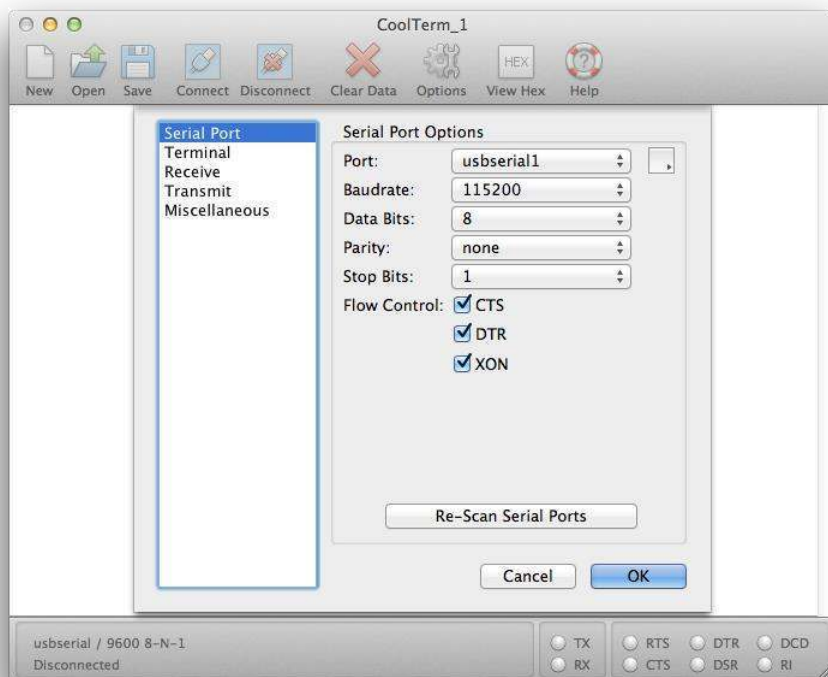
1. Download the CoolTerm program from below website and install the program under Mac OS X:  
<http://freeware.the-meiers.org/>
2. Run the program and select the PL-2303 device by clicking on Options-Serial Port. Click on Port to select 'usbserial'. Set the desired baud rate and other port settings. Click OK and click Connect to open the port.



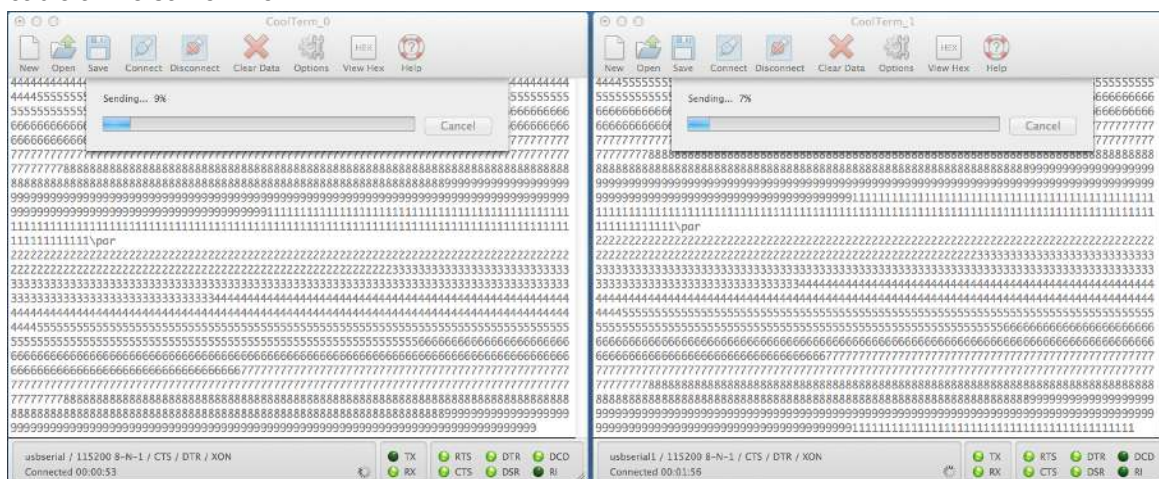
3. Open another CoolTerm File and plug another PL-2303 device. Click on Options-Serial Port and click on Port to select the other PL2303 cable (usbserial1).



- Set the same serial port settings to match the other PL2303 cable. Click OK and click Connect to open the port.



- Use a serial null modem cable to connect between the two PL-2303 cables. Click 'Connection-Send Textfile' to transfer text file. You can also send text file from the other PL2303 cable at the same time.



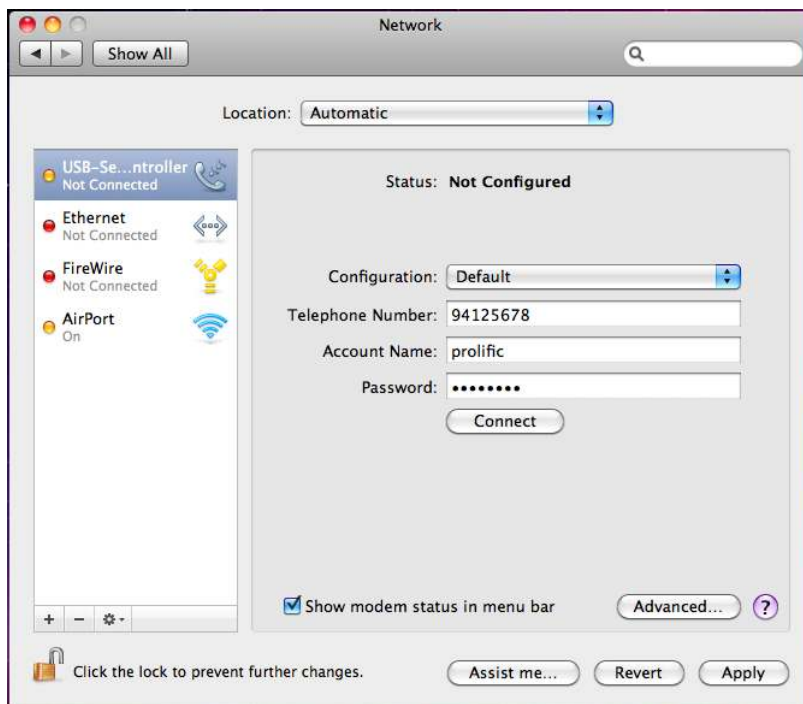
- You can also simply plug a loopback connector (TX-RX short) to the PL-2303 serial port and type the keyboard to show the send characters on the local window display.

## How to Uninstall Driver

To remove and uninstall the PL-2303 drivers from Mac OS X operating system, you must be logged on as root. You can use the “sudo” command option to substitute user privileges.

1. Run a Terminal session (Applications-Utilities-Terminal) and enter the following commands at the command prompt:  

```
sudo rm -rf /Library/Extensions/ProlificUSBSerial.kext  
sudo rm -rf /var/db/receipts/*PL2303*.*
```
2. To remove the port from the system, go to System Preferences and select Network. Select the “USB-Serial Controller” device shown from the Show menu and click on the “-“ remove button to uninstall the port.



3. Restart the computer again before reinstalling the driver.