

# USER MANUAL for USB to serial converter (PL2303)

The USB to RS-232 Serial Adapter provides an external plug & play RS-232 serial connection with your computer, letting you free up your existing serial port. Users have the capability to utilize the adapter with serial port interface in an easy-to-use environment. The adapter is designed for connections to Cellular Phones, PDAs, Digital Cameras, Modems, or ISDN Terminal Adapters through USB port with over 600 kbps data transfer rate. Installation is very easy. Just simply connect a serial device to the USB to RS-232 adapter and plug the USB port into the computer.

## Features

- Support automatic handshake mode over 600kbps data transfer rate
- Support remote wake-up and power management 96 byte buffer each for upstream and downstream data flow
- Easy Installation
- Work with Cellular Phones, PDAs, Digital Cameras, Modems, and ISDN terminal adapters...etc.
- Frees your RS-232 port for other uses
- No IRQs required, no IRQ conflicts
- Full compliance with the USB specification Revision 1.1

## Specification

- Each blister contains one USB to serial converter; one CD driver with user' manual
- Cable Length : Total 45 cm
- Connectors: USB type A plug; RS-232 DB-9 Male
- Data Transfer Rate : 600 kbps
- OS supported : Win 98SE/2000/ME/XP; Mac OS 9.0 or above

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### USB to serial converter (PL2303)

<b>Driver Installation Under Windows 98/ME/2000/XP</b>	<b>-page 02~03</b>
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## Driver Installation Under Windows 98/ME/2000/XP

1. **Step 1:** **Don't** Plug in the USB type A receptacle of the cable to the USB connector of your computer.

**Step 2:** Place the enclosed CD Driver into the CD ROM. to search for “PL-2303 Driver Installer

**Step 3:** Click “**PL-2303 Driver Installer**”

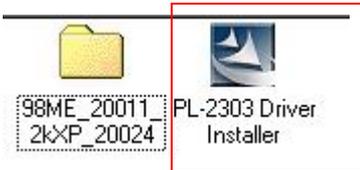


Figure 1

2. Select ‘ Search for the best driver for your device’ and click “next”. See Figure 2.

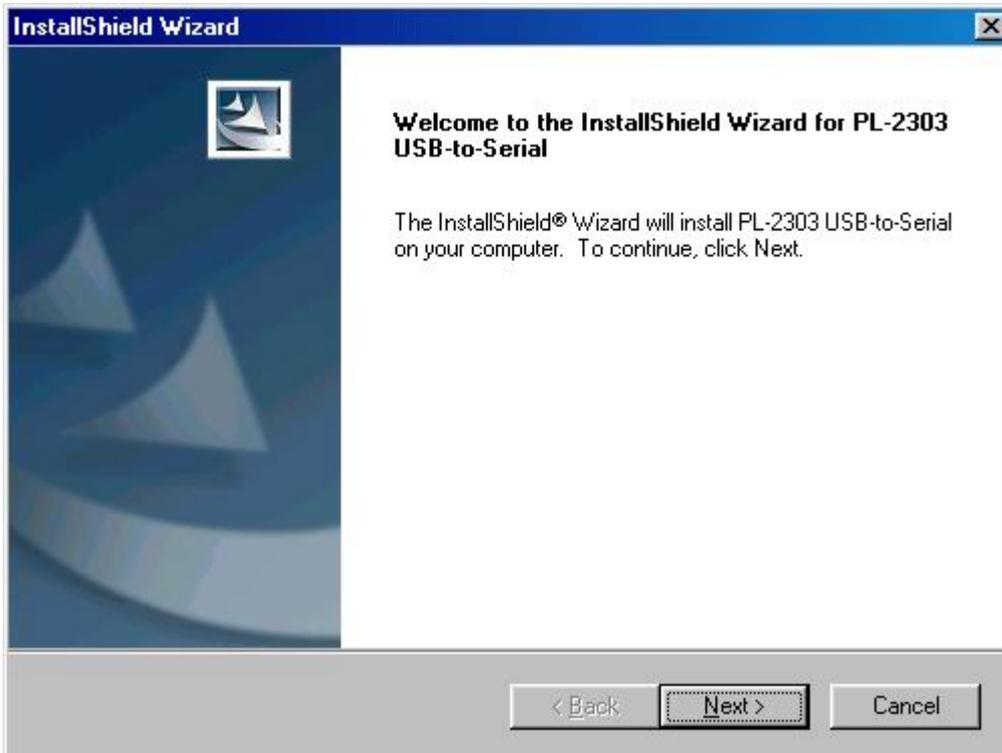


Figure 2

3. Windows has finished installing the software, click “Finish” to close the Wizard. See Figure 3

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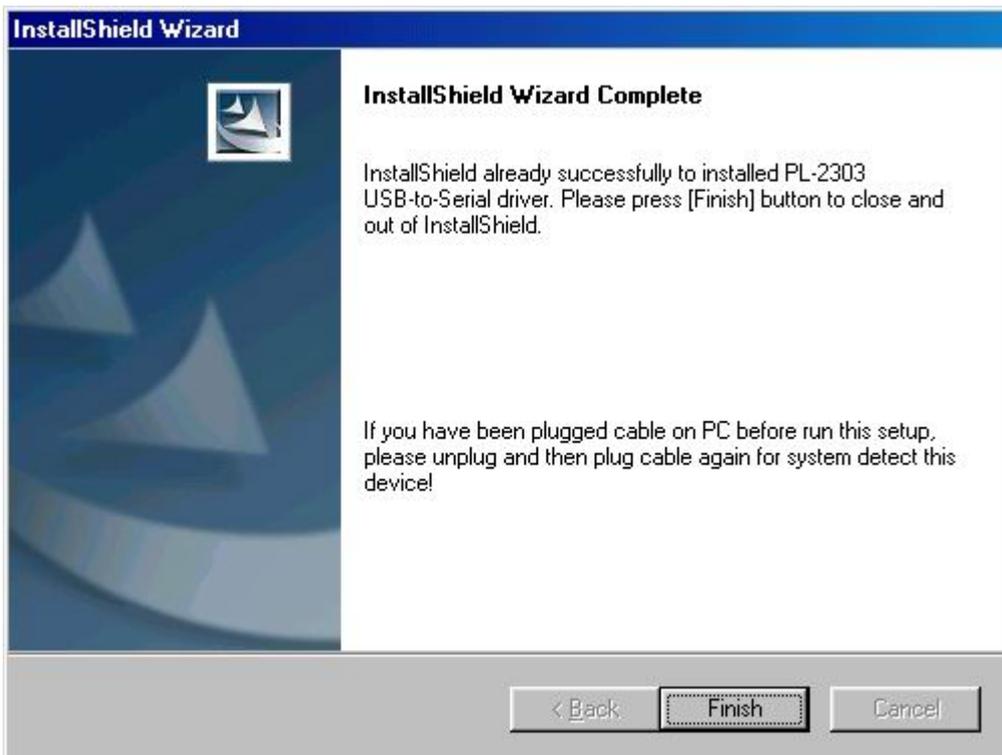


Figure 3

### 4. Plug USB/Serial cable into your computer's USB port.

5. Open "Device Manager" under System Properties and check if there is the device you install under "USB to Serial ( COM3)".See Figure 4

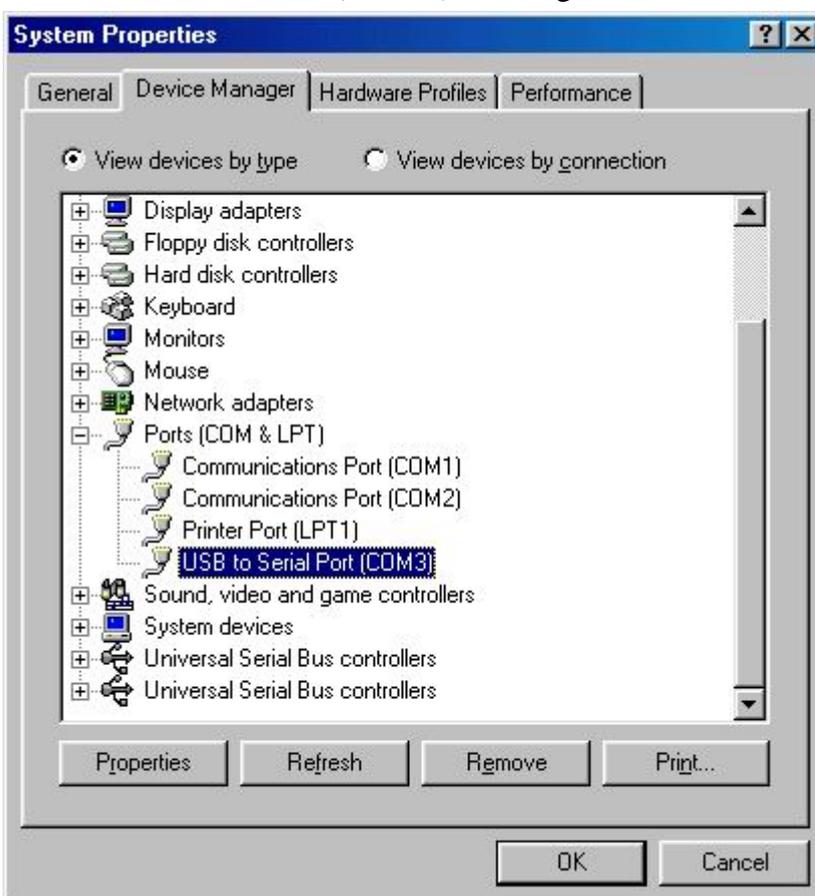
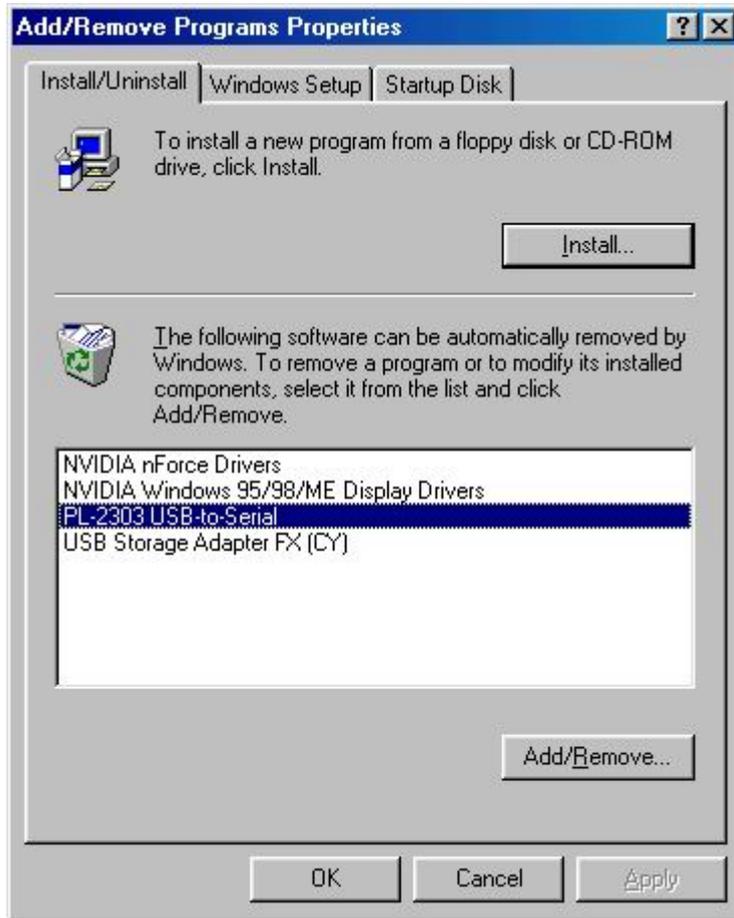


Figure 4

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## 1.1. Two Kinds of methods for Un-installment under win 98SE/ME/2000/xp

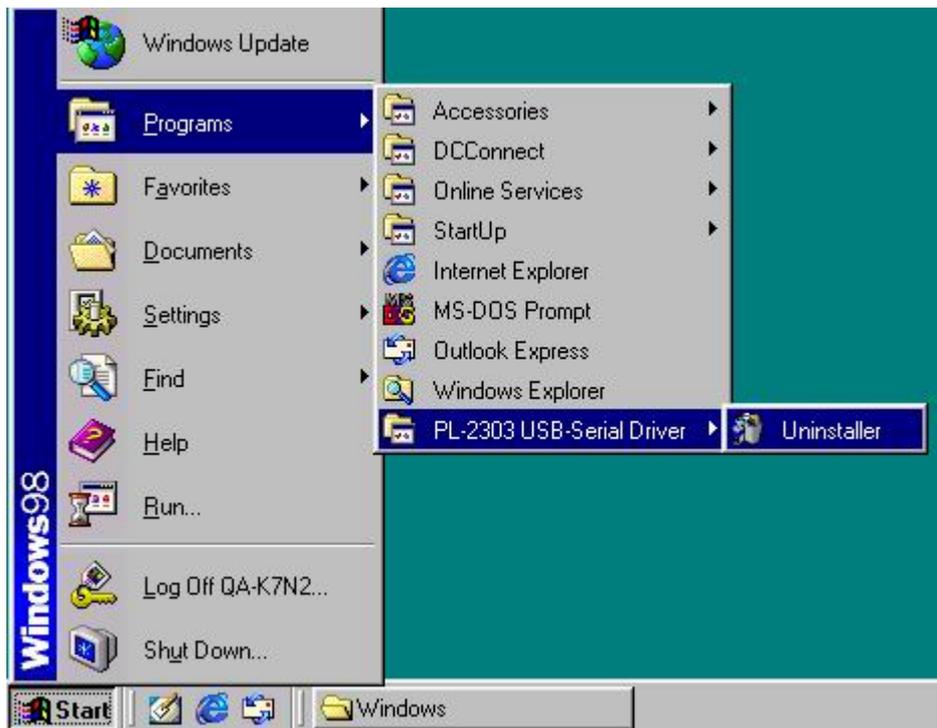
Method 1. Select “PL2303 USB-to-Serial” and then click “Add/Remove to uninstall.”



Method 2

1. Click start programs PL2303 USB-to-Serial Driver Uninstaller

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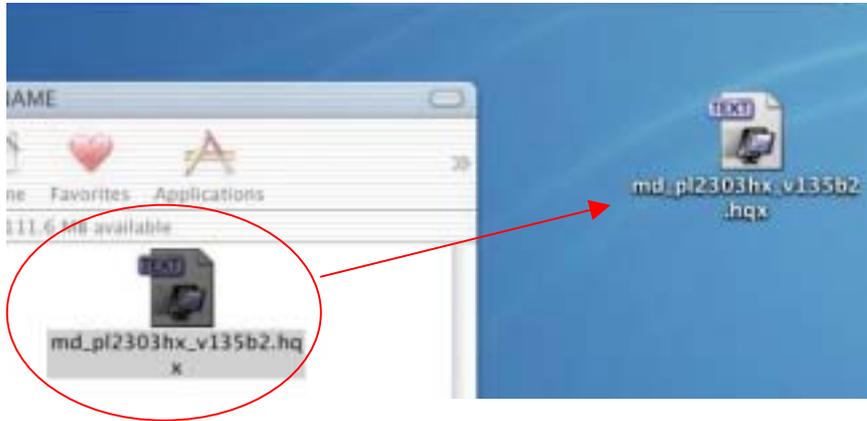
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## Driver installation Under MAC

- MAC 8.6~9.0

### For 8.6 MAC USB/Serial Cable Setup

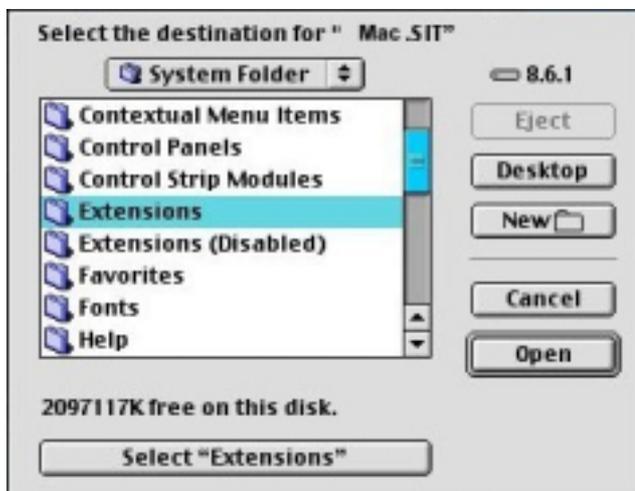
Step 1. Insert CD disk, Copy "md\_pl2303hx\_v135b2.hqx" file to desktop.



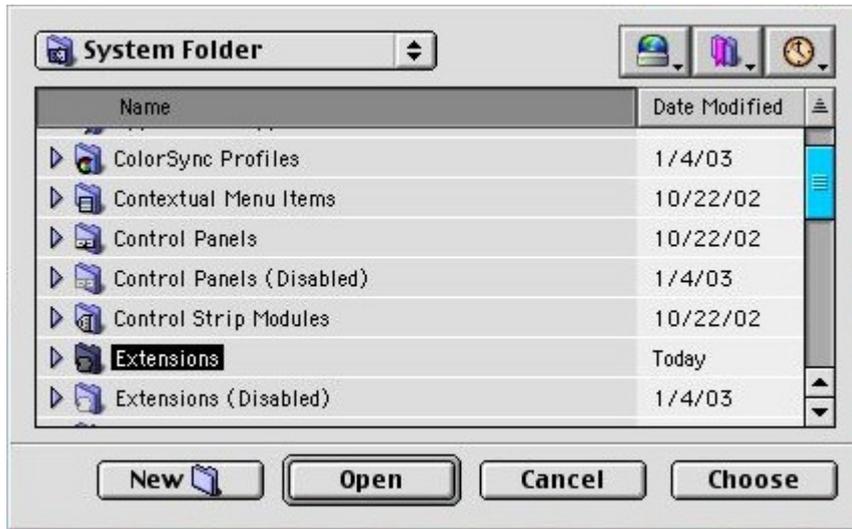
Step 2. Click OK



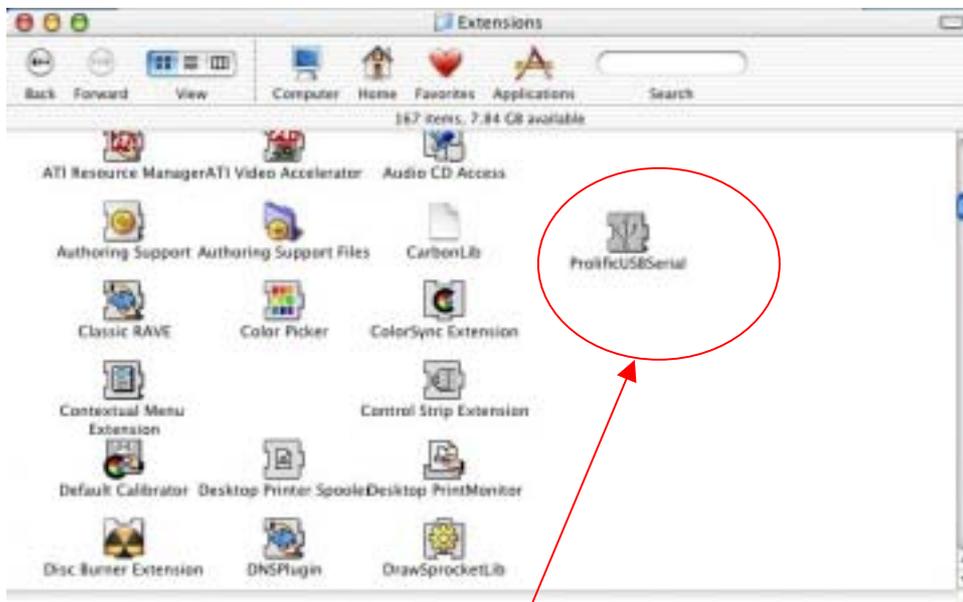
Step 3. Click system folder > Extension, and click "choose". or select "Extensions"



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Step 4. Drag file “ProlificUSBSerial” into system **Extensions** (Apple Extras), and then restart



your computer. (As picture shows)

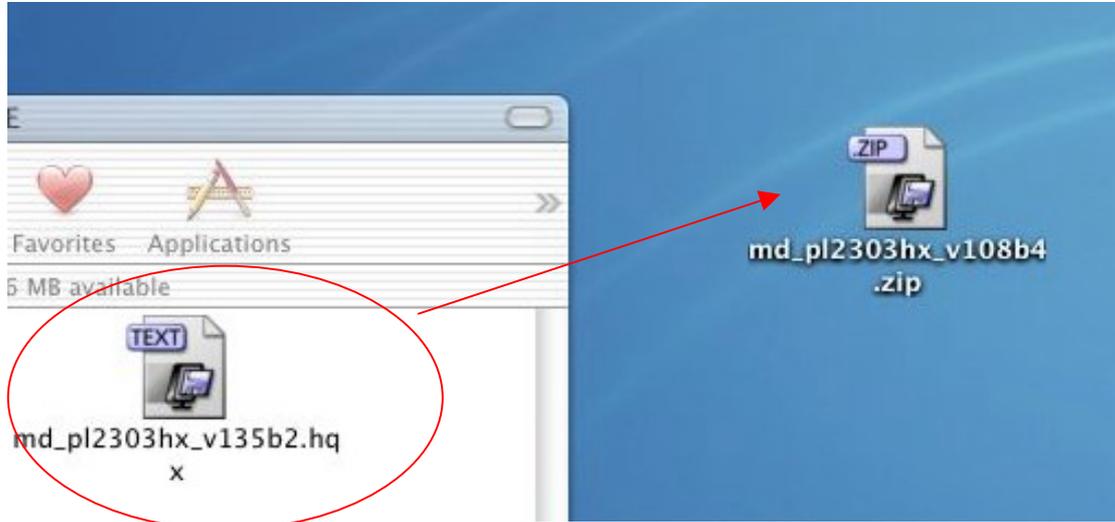
Step 5. Plug USB/Serial cable into your computer's USB port

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- 10.1.x and 10.3.x

## For 10.1.x MAC USB/Serial Cable Setup

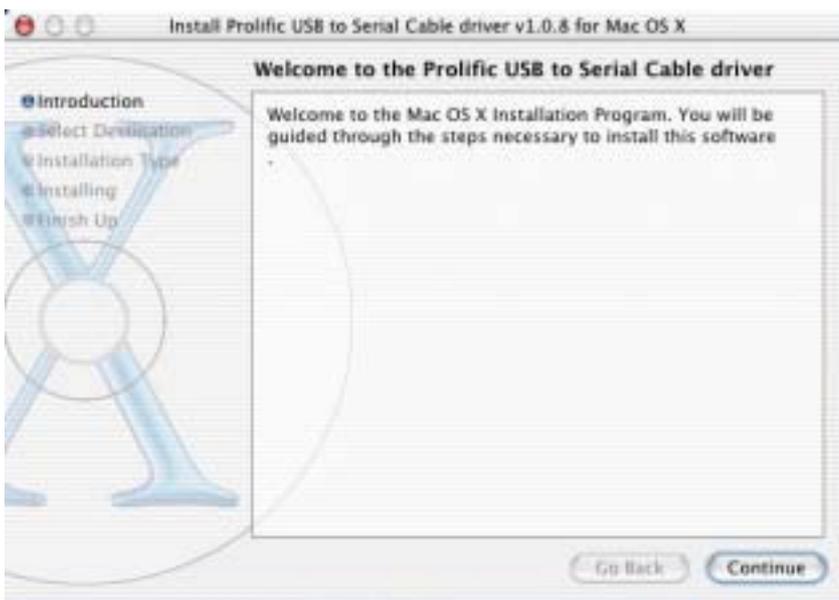
Step 1. Insert CD disk, copy file to desktop.



Step 2 choose **PL2303\_1\_0\_8b4.pkg** and click it



Step 3. Click "continue ."

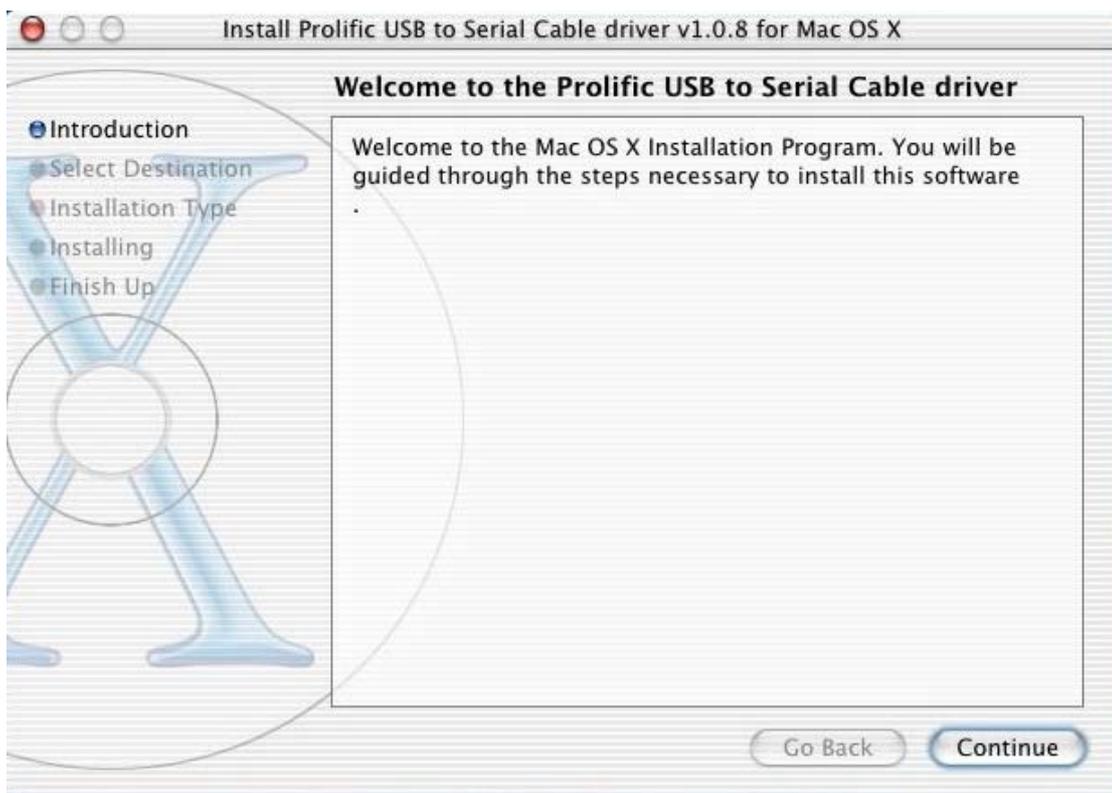


Step 4. Please key-in password then click "ok"

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Step 5. Click "Continue"

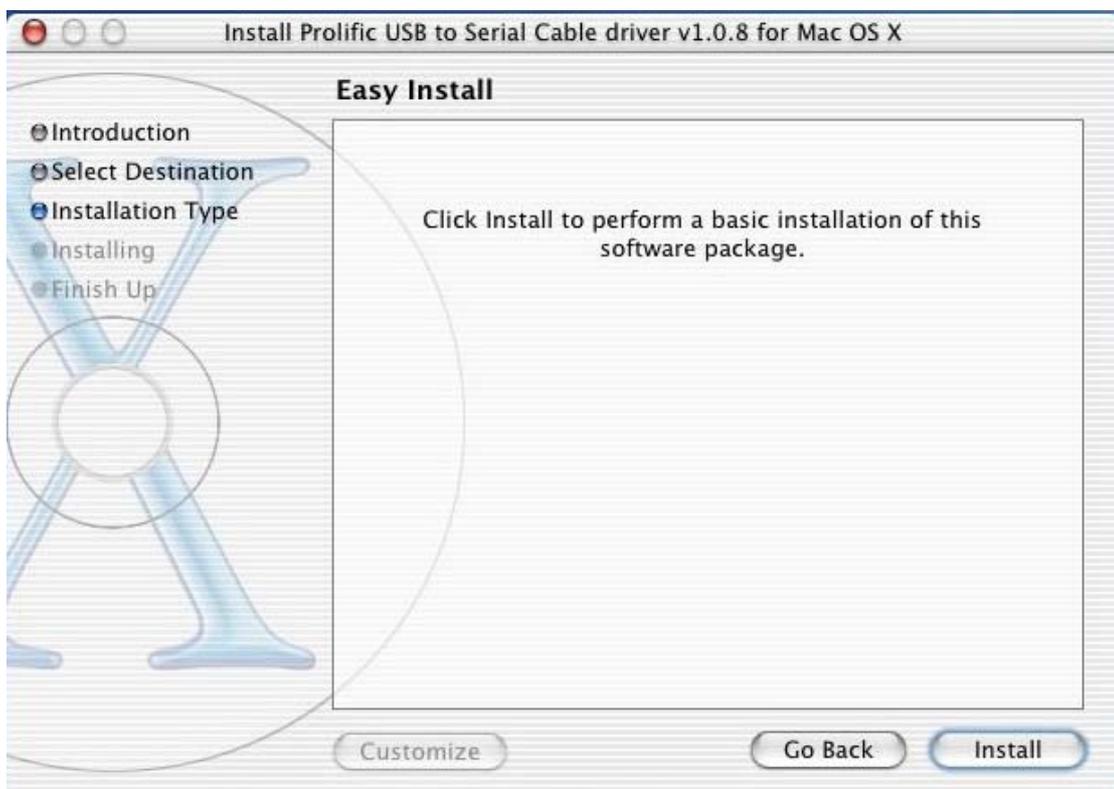


Step 6. Please select a destination volume to install the Prolific USB Serial .then click "Continue"

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Step 7. Click "install"



Step 8. Drag file "ProlificUSBSerial" into system extension (Apple Extras), and then restart

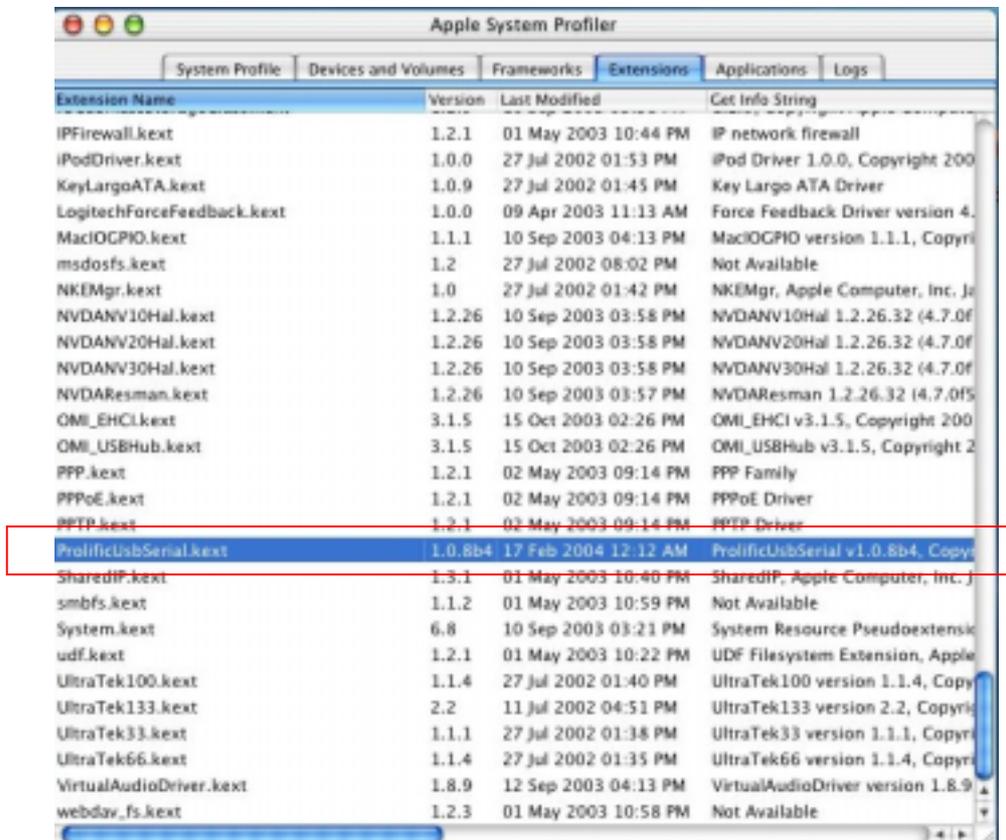
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Step 9. Plug USB/Serial cable into your computer's USB port

Step 10. You may check the "driver" under "Apple System Profiler".

If they are the same as shown below, congratulations, the installation is done successfully.



Extension Name	Version	Last Modified	Get Info String
IPFirewall.kext	1.2.1	01 May 2003 10:44 PM	IP network firewall
iPodDriver.kext	1.0.0	27 Jul 2002 01:53 PM	iPod Driver 1.0.0, Copyright 200
KeyLargoATA.kext	1.0.9	27 Jul 2002 01:45 PM	Key Largo ATA Driver
LogitechForceFeedback.kext	1.0.0	09 Apr 2003 11:13 AM	Force Feedback Driver version 4.
MacIOGPID.kext	1.1.1	10 Sep 2003 04:13 PM	MacIOGPID version 1.1.1, Copyr
msdosfs.kext	1.2	27 Jul 2002 08:02 PM	Not Available
NKEMgr.kext	1.0	27 Jul 2002 01:42 PM	NKEMgr, Apple Computer, Inc. J
NVDANV10Hal.kext	1.2.26	10 Sep 2003 03:58 PM	NVDANV10Hal 1.2.26.32 (4.7.0f
NVDANV20Hal.kext	1.2.26	10 Sep 2003 03:58 PM	NVDANV20Hal 1.2.26.32 (4.7.0f
NVDANV30Hal.kext	1.2.26	10 Sep 2003 03:58 PM	NVDANV30Hal 1.2.26.32 (4.7.0f
NVDAResman.kext	1.2.26	10 Sep 2003 03:57 PM	NVDAResman 1.2.26.32 (4.7.0f5
OMI_EHCI.kext	3.1.5	15 Oct 2003 02:26 PM	OMI_EHCI v3.1.5, Copyright 200
OMI_USBHub.kext	3.1.5	15 Oct 2003 02:26 PM	OMI_USBHub v3.1.5, Copyright 2
PPP.kext	1.2.1	02 May 2003 09:14 PM	PPP Family
PPPoE.kext	1.2.1	02 May 2003 09:14 PM	PPPoE Driver
PPTP.kext	1.2.1	02 May 2003 09:14 PM	PPTP Driver
ProlificUsbSerial.kext	1.0.8b4	17 Feb 2004 12:12 AM	ProlificUsbSerial v1.0.8b4, Copyr
SharedIP.kext	1.3.1	01 May 2003 10:40 PM	SharedIP, Apple Computer, Inc. J
smbfs.kext	1.1.2	01 May 2003 10:59 PM	Not Available
System.kext	6.8	10 Sep 2003 03:21 PM	System Resource Pseudoextensik
udf.kext	1.2.1	01 May 2003 10:22 PM	UDF Filesystem Extension, Apple
UltraTek100.kext	1.1.4	27 Jul 2002 01:40 PM	UltraTek100 version 1.1.4, Copy
UltraTek133.kext	2.2	11 Jul 2002 04:51 PM	UltraTek133 version 2.2, Copyr
UltraTek33.kext	1.1.1	27 Jul 2002 01:38 PM	UltraTek33 version 1.1.1, Copyr
UltraTek66.kext	1.1.4	27 Jul 2002 01:35 PM	UltraTek66 version 1.1.4, Copyr
VirtualAudioDriver.kext	1.8.9	12 Sep 2003 04:13 PM	VirtualAudioDriver version 1.8.9
webdav_fs.kext	1.2.3	01 May 2003 10:58 PM	Not Available

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- Linux

Step:

1. Under root folder, create a new folder and copy PL-2303 source code to new folder.
2. Open "Makefile" with GEDIT or KATE under new folder.
3. Modify line 5 "KINCLUDES=/usr/src/linux/include".  
Example: "KINCLUDES=/usr/src/linux-2.4.7-10/include".  
You could find folder name on Linux.
4. Open terminal mode and login root user.
5. Go to the new folder and then type "make all" to compile the PL-2303 source code. This will create two files: "pl2303.o" and "usbserial.o".
6. Type "make inst" that will install the PL-2303 Linux driver into Linux.
7. Plug the PL-2303 cable into USB port and key-in "dmesg", it will show "Prolific USB Serial Adapter converter now attached to ttyUSB0 (orusb/tts/0 for devfs)". This means the cable is now working under Linux.

Note: You must login into root user in order to successfully compile and install.

B. only explain how to link the device with our PL2303 driver.

Step:

- (1) In Makefile file, we have set a command to insert driver into Kernel, type "make inst" to insert driver.
- (2) After that, type "dmesg" command then click enter.
- (3) You will see messages appearing on the screen:  
"usbserial.c" Prolific USB Serial Adapter converter now attached to ttyUSB0 (orusb/tts/0 for devfs)".

This means the virtual COM port is in ttyUSB0, so if you want to use this port, you need to use "ln" command to hard link with the device.

For example:

You are using PL-2303 to connect with modem. So you need to type 'ln -b /dev/ttyUSB0 /dev/modem' then click enter. If nothing happens and the screen appears as '[root@localhost / xxxxx]#', the link operation is successful. Please make sure that the modem has been properly installed in system.

Now the modem will use the PL-2303 port to do communication, you can try to use Minimum (Red Hat 7.1) AP to test.

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## PL-2303 MAC X driver FAQ

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### FAQ

Q1: How do I install the PL-2303 MAC X driver?

A: First, download the PL-2303 MAC X driver from our support website. Then, uncompress the .zip file and executing the .pkg file. This will install the driver automatically.

Note: You need to restart the computer after installing the Mac X driver. The PL-2303 Mac X driver only supports V10.1.X so you need to upgrade first your OS X by SOFTWARE UPGRADE.

Q2: How do I test the PL-2303 MAC X driver?

A: You can test all COM port devices for MAC X except serial keyboard and mouse since these devices are not supported.

For example serial modem:

1. Set modem using PL-2303 COM port.
2. Set your modem model.
3. Execute REMOTE ACCESS to connect to the internet.

Q3: How do I uninstall the PL-2303 MAC X driver?

A:

1. Open "Applications-> Utilities-> Terminal"  
(Need to create ID & password first on NetInfo Manager)
2. Login to root user , to type "su" , input password
3. To type "cd /System/Library/Extensions" to enter "Extensions" folder.
4. Unload driver ( if had been loaded ) , to type "kextunload PL2303.kext" or "kextunload ProlificUsbSerial.kext".
5. Remove driver , to type "rm -r PL2303.kext" or "rm -r ProlificUsbSerial.kext".

Q4: After I completed installation of the PL-2303 MAC X driver under OS 10.2, a warning will appear saying that "Prolific USB Serial. kext" has problems and there are three buttons that can be selected.

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What does this problem mean?

A: This problem occurs because the PL-2303 MAC X driver was compiled under OS 10.1.X. So when you install the driver under OS 10.2, it will show this warning message. User just need to select the "Fix and Use" button to make it work under OS 10.2.X.