

PL-2303 USB-to-Serial Bridge Controller Mac OS X Universal Binary Driver Installation Guide

Introduction

This installation guide document shows the procedure for installing the MacOS X driver for Prolific PL-2303 (H/HX/X) devices. The driver can be downloaded from the Support webpage of the Prolific website:

http://www.prolific.com.tw/eng/downloads.asp?ID=31

System Requirement

The following requirements are needed:

- Mac OS X 10.1 to 10.6 operating systems (includes 64-bit support)
- Apple Mac OS X compatible computers (Intel or PowerPC based machines)
- USB 1.1 or higher port
- PL-2303 USB-to-Serial Cable Adapter
- PL-2303 Mac OS X Universal Binary Driver

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.

PL-2303 Software and Drivers Filename	Release Date	Version	File Size
EULA.pdf	2010/9/3		22 KB
End User License Agreement ("EULA")			

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NOTE: Prolific does not manufacture any end-user cable products and does not provide exclusive support to end-users. Prolific highly suggest end-users to contact the user product manufacturer for service and support. Please read the End-User License Agreement (EULA) before downloading any software or drivers from Prolific website.

md_PL2303_MacOSX10.6_dmg_v1.4.0.zip	2010/9/2	1.4.0	54 KB
PL-2303 (H, HX, X chip version) Mac OS X Universal Binary Driver v1.4.0 (DMG file format), Prolific Edition For Mac OS X 10.6.x Snow Leopard (32-bit and 64-bit kernel)			
md_pl2303H_HX_X_dmg_v1.2.1r2.zip	2007/3/21	v1.2.1r2	62 KB
PL-2303 (H, HX, X chip version) Mac OS X Universal Binary Driver v1.2.1r2 (DMG file format), Prolific Editio	n		

For Mac OS 10.1 and above for PowerPC based Mac For Mac OS X 10.4 x and 10.5 x for PowerPC and Intel based Mac

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2. The PL-2303 Mac OS X driver package contains the DMG compressed image file. Click on the DMG file to extract the driver installer package.



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



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4. 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.

\varTheta 🔿 🔿 😺 Install Prolific USB to Serial Cable driver v1.4.0 for Mac OS X
 Install Prolific USB to Serial Cable driver v1.4.0 for Mac OS X The installation was completed successfully. Installation Select Installation Summary The installation was successful. The software was installed. Click Restart to finish installing the software.
Go Back Restart

 After rebooting the system, you can 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.

00			MacBook	
SE's MacBook				5/13/11 10:20 AM
Contents		USB Device Tree		
▼Hardware		▼USB Bus		
ATA		Apple Internal Keyb	oard / Trackpad	
Audio (Built In)		IR Receiver		
Bluetooth		USB Bus		
Diagnostics		▼USB Bus		
Disc Burning		USB-Serial Controlle	er	
Ethernet Cards		▼USB Bus		
Fibre Channel		Bluetooth USB Host	Controller	
FireWire		USB Bus		
Graphics/Displays		▼USB High-Speed Bus		
Hardware RAID		Built-in iSight		
Memory		USB High-Speed Bus		
PCI Cards				
Parallel SCSI	111		6	
Power		USB-Serial Controller:		
Printers		Product ID:	0x2303	
SAS		Vendor ID:	0x067b (Prolific Technology, Inc.)	
Serial-ATA		Version:	3.00	
USB		Speed:	Up to 12 Mb/sec	
▼Network		Location ID:	0x1d100000	
AirPort		Current Available (mA):	500	
Firewall		Current Required (mA):	100	
Locations				
Modems				
Volumes				
WWAN				
▼ Software	Ŧ			1.

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6. 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.



7. 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.

A new network interface has been detected. The "USB-Serial Controller" network interface has not been set up. To set up this interface, use Network Preferences.
Cancel Network Preferences

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Using the USB-to-Serial Device under Mac OS X

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

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.

0 0	Network	
Show All		٩
Lo	cation: Automatic	•
Ethernet Not Connected FireWire Not Connected ***	Status:	Cable Unplugged Either the cable for Ethernet is not plugged in or the device at the other end is not
e AirPort	Configure IPv4: IP Address: Subnet Mask:	Using DHCP
	Router: DNS Server:	
+ - 0-	Search Domains:	Advanced) ?
Click the lock to prevent	further changes.	Assist me Revert Apply

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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.

000	Network	
Show A		٩
Ethernet Not Connected FireWire Not Connected AirPort	Select the interface and enter a na Interface: USB-Serial Co Service Name: USB-Serial Co	ame for the new service. Introller Cancel Create Using DHCP
On	IP Address: Subnet Mask: Router: DNS Server: Search Domains:	
+ – &+	to prevent further changes.	Advanced ?

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.

0 0	Network	
Show All		٩
Loca	tion: Automatic	•
• USB-Sentroller	Status:	Not Configured
e Ethernet		
FireWire Not Connected	Configuration:	Default
⊖ AirPort 📀	Telephone Number:	94125678
	Account Name:	prolific
	Password:	•••••
		Connect
+ - *-	Show modem state	us in menu bar Advanced) ?
Click the lock to prevent f	urther changes.	Assist me Revert Apply

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5. You can click on the Advanced button to set the correct modem vendor and model. The default modem settings normally would work on any serial modems.

Chow All	Network	0
Snow All		ų
Q 2 USB-Serial Controller	inst. I destaurant	
Sob-Serial Controller		
	Modem DNS WINS Proxi	es PPP
Vendor:	Generic	
Model	Dialup Device	
Depting	Finable error correction and co	ompression in modem
Dial Mode:	Wait for dial tone before dialing	
Dial Mode.		9
Sound:		
Sound:		
?		Cancel OK
C. Correction Price in the state	Settler thermal	Refer) (Referr 1.1, And

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

0 0	Network	
Show All		٩
Loc	ation: Automatic	•
USB-Sentroller	Status:	Connecting
Ethernet Not Connected		
● FireWire 🍲	Configuration:	Default
⊖ AirPort 🤶	Telephone Number:	94125678
	Account Name:	prolific
	Password:	•••••
		Disconnect
+	Show modem stat	us in menu bar Advanced ?
Click the lock to prevent	further changes.	Assist me Revert Apply

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7. 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.

⊗ ⊖ ○	Network	
Show All		Q
Locati	on: Automatic	:
USB-Sentroller Connected Ethernet Not Connected	Status: Connected Connect Time: 00:00:53 IP Address: 61.226.248.2	Sent:
FireWire Not Connected	Configuration: Default	\$
e AirPort	Telephone Number: 94125678 Account Name: prolific Password: ••••••• Disconnec	at)
+ - 0-	${oxdot}$ Show modem status in menu b	oar Advanced ?
Click the lock to prevent fur	ther changes. Assist me	e Revert Apply

8. You can also click the "Show modem status in menu bar" to see the connection status on top of the menu bar. Then click on the Modem status on the menu bar to show the controls.



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Using ZTerm program under Mac OS X

You can also test the PL-2303 device by using the ZTerm serial port terminal program and a null modem cable to connect two computers and transmit/receive data files. The following steps will show how to use the program:

- 1. Download the ZTERM program from below website and install the program under Mac OS X: http://homepage.mac.com/dalverson/zterm/
- 2. Run the ZTERM program and select the PL-2303 device by clicking on Settings-Modem Preferences.



3. Click on the Serial Port box. If you have several PL-2303 devices attached, you will find those devices listed similar to the list shown when running the Mac OS Terminal program.

Serial Port: 🗸	usbserial
Modem setur	usbserial6
Initialize:	Bluetooth-PDA-Sync
DeInitialize:	Bluetooth-Modem
Dial Substitution	n: Dial Timeout: 60
•1 *70,	Pulse Dial
•2 9,	Hardware Hangup (DTR)
•3	OK Cancel

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4. Then click on Settings-Connections to set the data transfer rate and flow control settings.

service Nam	ie: Loci	ai			
Phone Numl	ber:				
Pre-dial init					
Account:	- 12		Password:		
Data Rate:	9600	\$	Data Bits:	8	\$
Parity:	None	+	Stop Bits:	1	+
S Local Ech	ho				
Flow Contro	ol: 🗌 Xo	n/Xof	f 🗹 Hardwa	re Han	dshake
		6	OK	Cane	

5. Run all of the above same procedures for the other Mac OS computer. Use a serial null modem cable to connect the PL-2303 port from both computers. On one computer, click File-Send Files and choose the file to send. On the other computer, click File-Receive Files. You will then see the file transfer to begin.

000	USBSerialCable1
C O ZModem Send	
File: 1M.TXT Folder: Mac OS X 10.6.6 Type: TEXT / ttxt (Text)	
File Size: 1270375 Bytes Sent: 87040 Efficiency: 3227 cps, 84% Time elap/left: 0:26 / 6:06	
Status:	
Retries: 0 Cancel	
3:29 24×80 0k 38400 N81	

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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:

```
cd /System/Library/Extensions
sudo kextunload ProlificUSBSerial.kext (enter system password)
rm -r ProlificUSBSerialDriver.kext
```

You can also go to the System-Library-Extensions file folder to delete the "ProlificUSBSerialDriver.kext" file.

 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.

\varTheta 🔿 🔿 Network							
Show All		٩					
Location: Automatic							
• USB-Sentroller	Status:	Not Configured					
Ethernet Not Connected							
● FireWire 🍲	Configuration:	Default					
e AirPort	Telephone Number:	94125678					
	Account Name:	prolific					
	Password:						
		Connect					
+ - \$-	Show modem state	us in menu bar Advanced) (?)					
Click the lock to prevent fu	urther changes.	Assist me Revert Apply					

3. Restart the computer again before reinstalling the driver.

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