

# **USB TO SERIAL CONVERTER**



Quick Installation Guide Mac OS X DA-70159

### Welcome to the Mac OS X Installation Guide

This document describes the procedure for installing the Mac OS X FTDIUSBSerial driver for FTDI's FT2232C, FT232BM, FT245BM, FT8U232AM and FT8U245AM devices. The driver is available for free download from the Drivers section of the FTDI web site.

#### Installing FTDIUSBSerialDriver

Download the driver from the Drivers section of the FTDI web site and save it to the hard disk. The driver is now available in disk image (.dmg) format. Run the installer by double clicking on the FTDIUSBSerialDriver.dmg icon.

00	Install FTDIUSBSerialDriver Kernel Extension	
	Welcome to the FTDIUSBSerialDriver Kernel Extension Installer	
<ul> <li>Introduction</li> <li>Read Me</li> <li>Select Destination</li> <li>Installation Type</li> <li>Installing</li> <li>Finish Up</li> </ul>	Welcome to the Mac OS X Installation Program. You will be guided through the steps necessary to install this software.	
	Go Back Continue	)

1. Click Continue to proceed with the installation and follow the instructions on screen. When the installation is complete, reboot the computer.

0 0	Install FTDIUSBSerialDriver Kernel Extension
	Install Software
<ul> <li>Introduction</li> <li>Read Me</li> <li>Select Destination</li> <li>Installation Type</li> <li>Installing</li> <li>Finish Up</li> </ul>	The software was successfully installed
	Click Restart to finish installing the software.

- 2. When the computer has rebooted, plug in the device. If the device is installed properly, you will see entries in the /dev directory:
  - /dev/cu.usbserial-xxxxxxxx

/dev/tty.usbserial-xxxxxxx

where xxxxxxx is either the device's serial number or, for unserialized devices, a location string that depends on which USB port your device is connected to. Note that for FT2232C devices port A is denoted by the serial number appended with "A" and port B is designated by the serial number appended with "B"./dev can be accessed through the Terminal application. The Terminal application can be launched by selecting Go > Applications > Utilities > Terminal. Type the following lines in the Terminal window to produce the file list:

cd /dev ls-l

If you run the application System Preferences and select Network (Go > Applications > System Preferences > Network), you should see the text "New Port Detected".



3. Click OK and select Network Port Configurations from the Show list. The new port can be enabled from this screen by checking the On box and clicking Apply Now.

14 I			2	
ihow All Dis	splays Soun	d Network	Startup Disk	
	Lo	cation: 🛛	Automatic	•
		Show:	Network Port Config	gurations 😜
	On Por	t Configura	tions	
On Pr ■ u ♥ In ♥ Ba		Port Configurations usbserial-1822 Internal Modem Built-in Ethernet		New Edit Delete Duplicate
				(?

4. At this point, it is possible to exit Network and use the device as a COM port. If you wish to set the device up a a modem for an Internet connection, select the new port from the Show list to display the window below. Please note that the FT2232C device has two ports available and these must be configured separately.

how All Displays	Sound Netwo	ork Startup	Disk		
	Location: Show:	Automat	ic 1-1822		•
	PPP	TCP/IP	Proxies	Modem	)
Ser	rvice Provider:	_			(Optional)
A	Password:				
Teleph Alter	hone Number: mate Number:				(Optional)
		Checki access	password ing this box a this Internet ptions)	llows all user account with Dial N	s of this computer to out entering a password. ow

5. Entries for this screen are specific to the Internet account for each user. If you do not know the required details, contact your Internet service provider.

## Uninstalling FTDIUSBSerialDriver

To remove the drivers from Mac OS X, the user must be logged on as root. Root is a reserved username that has the privileges required to access all files.

Start a Terminal session (Go > Applications > Utilities > Terminal) and enter the following commands at the command prompt:

cd /System/Library/Extensions

rm -r FTDIUSBSerialDriver.kext

The driver will then be removed from the system.

To remove the port from the system, run the application SystemPreferences and select Network. Selecting Network Port Configurations from the Show menu will display the port as greyed out. Select the uninstalled port and click Delete. Confirm the deletion to remove the port.

Location: Automatic	
Show: Network Port Config	urations 🔹
connecting to a network.	
On Port Configurations	
Minternal Modem	New
Built-in Ethernet	Edit
	Delete
	Duplicate
	Dupircate

## Troubleshooting

How do I know what my deviceID is?

Launch the System Profiler utility, or Apple System Profiler for earlier versions of OS X. This can be accessed by going to the Finder and selecting Applications from the Go menu, then open the Utilities folder.

Select USB under Hardware in the pane to the left and then select the appropriate device from the USB Device Tree. In the screen shot below (from OS 10.3), the device has a deviceID given by: Vendor Name: FTDI

Prioduct ID: 24577 (\$6001)

A Vendor Name of FTDI is equivalent to a Vendor ID of 1027 (\$0403).

	System Profile
Andy's eMac	10/01/2005 08:32
Contents	USB Device Tree
Anoy sevac Contents W Hardware Memooy PCI/ACP Cards ATA SCSI USB FireWire AirPort Card Moderns W Software Applications Extensions Network Logs	USB Device Tree USB Bus VUSB Bus VUSB Bus VUSB c>> Serial Apple Optical USB Keyboard USB c>> Serial USB High-Speed Bus USB +=> Serial: Vendor Name: FTDI Speed: Up to 12 Mb/sec Product ID: 24577 (56001) Bus Power (mA): 100

If the device does not work after installing the driver, it is likely to be because the PID is not supported by the driver. If this is the case, contact FTDI Support with the PID that needs to be added to the driver. If the VID is not 0x0403, it is likely that the device is not an FTDI device and we cannot support it.

The device does not appear in the /dev directory or the text "New

Port Detected" is not displayed in SystemPreferences-Network

FTDIUSBSerialDriver does not support your deviceID (VID and PID). Disable the EEPROM so that the device reverts to its default deviceID, then replug.

To get support for your deviceID built into FTDIUSBSerialDriver, contact FTDI quoting your deviceID and a description of your device.

# The device cannot be accessed even though the deviceID is supported in FTDIUSBSerialDriver

An ownership or permissions problem is preventing the system from making the device accessible. Check that the driver is owned by root and wheel. The most common symptom is the group for FTDIUSBSerialDriver is not wheel. To change the group, login as root and perform the following script in a Terminal window (Go > Applications > Utilities > Terminal):

cd /system/library/extensions

chgrp -R wheel FTDIUSBSerialDriver.kext

Reboot for the change to take effect.