

# USB TO SERIAL

#### CONVERTER

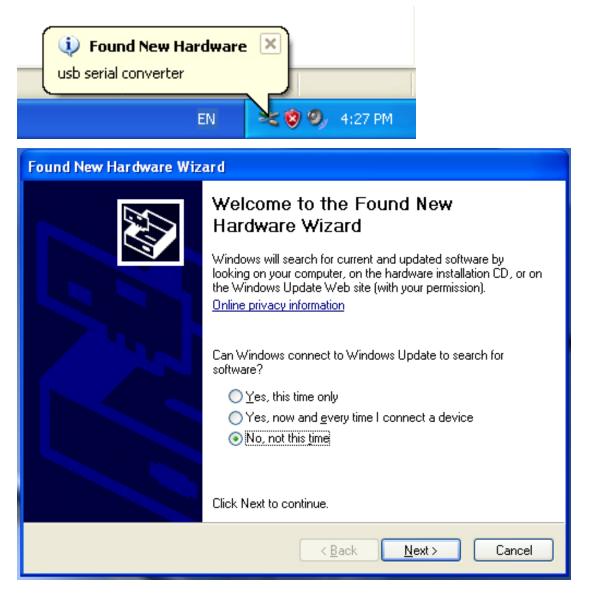


#### User Manual (DA-70156)

#### Windows XP Installation Guide

Step 1: Insert CD Driver of this product to the CD-ROM

Step 2: Connect the device to a spare USB port on your PC, and find new hardware wizard, please refer to the following chart:



Found New Hardware Wizard	
It is wizard helps you install software for:         usb serial converter         It your hardware came with an installation CD or floppy disk, insert it now.         What do you want the wizard to do?         Install the software automatically (Recommended)         Install from a list or specific location (Advanced)         Click Next to continue.	
< Back Next > Cancel	

Step 3: Select "No, not this time", click "Next" to continue.

Step 4: Select "Install from a list or specific location (Advanced)", click "Next" to continue.

Found New Hardware Wizard
Please choose your search and installation options.
<ul> <li>Search for the best driver in these locations.</li> </ul>
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
i:\ Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

Step 5: Select "Search removable media (floppy, CD-ROD...)", click "Next" to continue.

Found New Hardware Wizard	
Please wait while the wizard searches.	
usb serial converter	S.
	<back next=""> Cancel</back>

Step 6: Auto search for the corresponding driver in the CD.

Found New Hardware Wizard
Please select the best match for your hardware from the list below.
USB Serial Converter
Description Version Manufacturer Location
USB Serial Converter 2.2.4.0 FTDI i:\usb 2.0 to rs232 converter\w
₩ USB Serial Converter 2.2.4.0 FTDI i:\usb 2.0 to rs232 cable\win20
This driver is digitally signed. <u>Tell me why driver signing is important</u>
< Back Next > Cancel
ELECTROSÓN

Step 7: You will find two types of hardware wizard, one is for USB 2.0 TO RS232 Converter, another one is for USB 2.0 TO RS232 cable. Please choose the corresponding driver according to your product, click "Next" to continue.

Found New Hardware Wizard	
Please wait while the wizard installs the	e software
USB Serial Converter	
ftd2xx.dll To C:\WINDOWS\syswow6-	6 34
	< Back Next > Cancel

Step 8: The wizard has started installation and copy file to your system

Found New Hardware Wiz	ar d
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
	USB Serial Converter
	Click Finish to close the wizard.
	K Back Finish Cancel

Step 9: Click "Finish" to close the wizard.



Step 10: Find new com port.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard         Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).         Online privacy information         Can Windows connect to Windows Update to search for software?         Yes, this time only         Yes, now and every time I connect a device         No, not this time
	< Back Next > Cancel

Found New Hardware Wiza	ard
	This wizard helps you install software for: USB Serial Port If your hardware came with an installation CD or floppy disk, insert it now.
	<ul> <li>Install the software automatically (Recommended)</li> </ul>
	<ul> <li>Install from a list or specific location (Advanced)</li> </ul>
	Click Next to continue.
	<pre></pre>

Step 11: Select "No, not this time", click "Next" to continue.

Step 12: Select "Install from a list or specific location (Advanced), click "Next" to continue.

Please choose your search and installation options.         Image: Search for the best driver in these locations.         Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.         Image: Search removable media (floppy, CD-ROM)         Include this location in the search:         Image:
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.  Search removable media (floppy, CD-ROM)  Include this location in the search:
Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

Step 13: Select "Search removable media (floppy,CD-ROM...)",click "Next" to continue.

Found New Hardware Wizard	
Please wait while the wizard searches	
USB Serial Port	
	<pre>K Next &gt; Cancel</pre>

Step 14: Auto search for the corresponding driver in the CD.

Found New Hardware Wizard	
Please select the best match for your hardware from the list below.	
USB Serial Port	
Description Version Manufacturer Location	
📑 USB Serial Port 2.2.4.0 FTDI i:\usb 2.0 to rs232 converter\win200	
WUSB Serial Port 2.2.4.0 FTDI i:\usb 2.0 to rs232 cable\win2000_xr	
This driver is digitally signed. <u>Tell me why driver signing is important</u>	
< Back Next > Cancel	
ELECTROSON	

Step 15: Choose one type of the driver for your product, click "Next" to continue.

Found New	Found New Hardware Wizard	
Please wa	ait while the wizard installs the software	
Ţ	USB Serial Port	
	FTLang.dll To C:\WINDOWS\system32	
	< Back Next > Cancel	

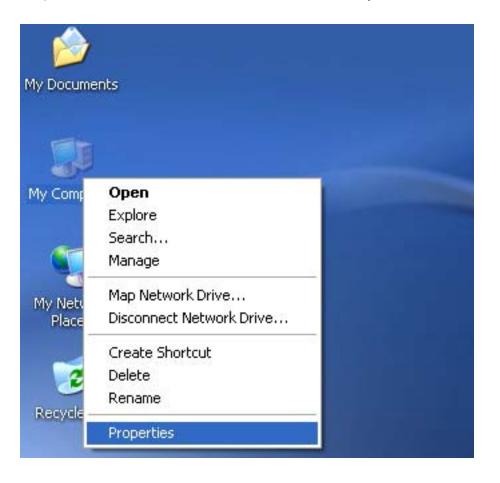
Step 16: The wizard has started installation and copy file to your system .

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: USB Serial Port
	< Back Finish Cancel
	-

Step 17: Installation completed, click "Finish" to close the wizard.



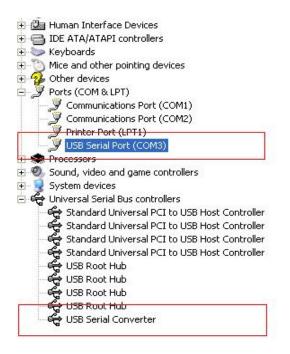
Step 18: Your new hardware is installed and ready to use.



Step 19: If you want to see it, right click "my computer", and then click "Properties".

		itic Updates	Remote
General Com	nputer Name	Hardware	Advanced
D. T. H			
Device Manager			12 12 12
		the hardware device evice Manager to cl	
	f any device.		
		Device Ma	anager
		Device in	
Drivers			
	ing lets you make	e sure that installed o	trivore aro
🖾 compatible v	with Windows. W	indows Update lets	you set up
how Window	ws connects to W	/indows Update for	drivers.
Drive	er Signing	Windows L	Indate
Dive	aroigning		puare
Hardware Profiles			
			and share
	dware configurati	vay for you to set up ons.	and store
~	-		
		Hardware	Profiles
		Indidinaio	Tomos

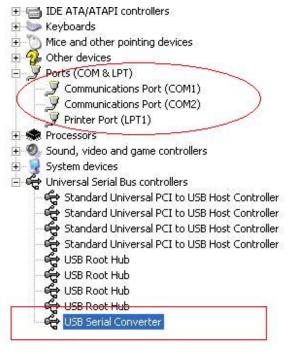
Step 20: Select "Device Manager" in the "Hardware" of the interface "System Properties", click it, you can see the hardware devices installed on your computer, please refer to the following chart:

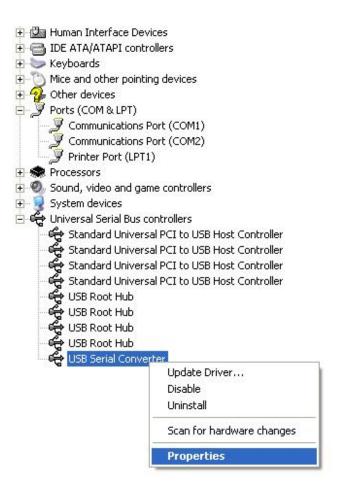


Step 21: Installation finished.

#### Remarks:

After installation, if you can see "USB Serial Converter" from the "Device Manager", but can't see "USB Serial Port (COM3)", please continue next steps.



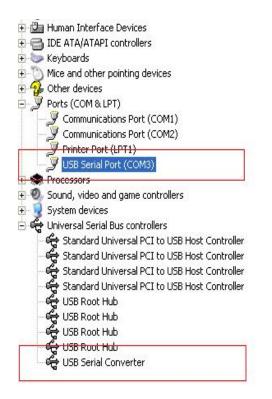


Step A: Right click "USB Serial Converter", and then click "Properties".

General Advar	Power Management Driver	
	Serial Converter n ettings to override normal device configuration	
☑ Load V	СР	

Step B: Select "Load VCP" in the "Advanced", click "OK".

Step C: Move out USB TO RS232 on your computer. Connect the device to an old USB port on your PC again, now it is ok, please refers to the following chart:



#### Congratulations, installation is successful.

#### **Remove Driver**

1, Open the drivers of this product, please refer to the below chart :



2 , Double click "FTClen.exe", it appears the following interface

🌾 FTDI Clean Utility V1.0	- ×
<b>FTDI</b> Chip	
VID (Hex)	[]
PID (Hex)	Clean System Exit
Status: Ready	

3  $\cdot$  click "Clean System", it appears the following interface :

Vini FTI	😰 FTDI Clean Utility V1.0	-	×
Information			
•	isconnect all FTDI devices from the PC		
	FTDI -		
	PID (Hex)		
	Windows XP		
	Status: Ready		

4 · Disconnect USB 2.0 To rs232 device from the pc · click "ok" it appears the following interface, then click "Yes"

		👷 FTDI Clean Utility V1.0	_ ×
Confirm		×	
?	You are about t Do you want to	o uninstall all FTDI drivers for VID 0x0403 and all PIDs. continue?	
		<u>Y</u> es <u>N</u> o	
		FTDI -	Clean System
		PID (Hex)	Exit
		Windows XP Status: Ready	

5, please click "No" to uninstall driver

Un FT	📅 FTDI Clean Utility V1.0	- ×
Confirm	you want to cancel driver uninstallation?	
	FTDI +	Clean System
	PID (Hex)	Exit
	Windows XP Status: Ready	

6, When Uninstall is completed, please click "Exit" to terminate the uninstall application.

🥡 FTDI Clean Utility V1.0	-	×
<b>FTDI</b> Chip		
VID (Hex)		1
PID (Hex)	Exit	1
Windows XP Status: System clean completed		

#### Mac OS X Installation Guide

#### 1 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.

#### 2 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.

000	Install FTDIUSBSerialDriver Kernel Extension
	Welcome to the FTDIUSBSerialDriver Kernel Extension Installer
<ul> <li>Introduction</li> <li>Read Me</li> <li>Select Destinat</li> <li>Installation Tyte</li> <li>Installing</li> <li>Finish Up</li> </ul>	
	Go Back Continue

Click Continue to proceed with the installation and follow the instructions on screen.

When the installation is complete, reboot the computer.



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-xxxxxxx

/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".



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.

0 0	Network	$\bigcirc$
1 <b>(</b>		
Show All Displays	Sound Network Startup Disk	
	Location: Automatic	
Drag	ck a configuration to make it active. I configurations into the order you want to try them when necting to a network.	
On		
<ul><li>✓</li></ul>	usbserial-1822 Internal Modem New	
	Delete	
	Duplicate	
		?
Click the lock	to prevent further changes. Assist me Apply Nov	v

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.

0	Network	(
ow All 🕴 Displays So	und Network Startup Disk	
	ocation: Automatic	;
	Show: usbserial-1B22	+
	PPP TCP/IP Proxies	Modem
	PPP ICP/IP Proxies	Modern
Service	Provider:	(Optional)
Αςςοι	nt Name:	
	assword:	
Telephone	Number:	
Alternate	Number:	(Optional)
		llows all users of this computer to account without entering a password.
		?

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.

#### 3 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.

00	Network	Ο
Show All	Displays Sound Network	
	Location: Automatic Show: Network Port Configurations Check a configuration to make it active.	•
	Drag configurations into the order you want to try to connecting to a network.	them when
	On       Port Configurations         usbserial-1B22         ✓       Internal Modem         ✓       Built-in Ethernet	New Edit Delete Duplicate
		(?)
Click 1	the lock to prevent further changes.	e) Apply Now

#### 4 How do I know what my deviceID is?

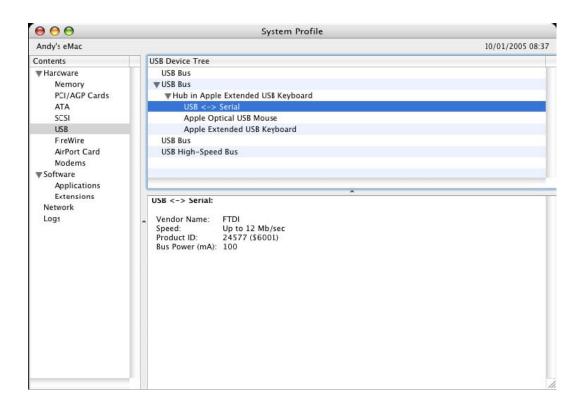
Launch the System Profiler utility, or Apple System Profiler for earlier versions of OS X. This can be accessed by going to the Finder and selecting Applications from the Go menu, then open the Utilities folder.

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).



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.

#### Windows CE Installation Guide

#### 1 Welcome to the Windows CE Installation Guide

The purpose of this MANUAL is to provide users of USB 2.0 To RS232 with a simple procedure for installing drivers for their devices on PDAs and targets running Windows CE 4.2 and later.

#### 2 Installing Devices

The VCP drivers emulate a standard COM port. These can be communicated with in the same manner as any other COM port on the PC.

- ftdi\_ser.dll the VCP driver file
- FTDIPORT.inf user changeable file to allow devices with custom VID and PID combinations to be installed

. Copy all of the unzipped files to the \\Windows directory on the PDA.

. If the PDA requires a host adaptor (e.g. USB host cable, presentation pack or Compact Flash host card), make sure that it is connected and installed **before** proceeding.

. Connect the RS232 device to a host USB port on the PDA. This will provide a dialog box to direct Windows CE to the driver files.

. Type the full name of the VCP driver file into the dialog box as shown below. If the file name is incorrect, the driver will not be found and the device will not function.

. The device installation is now complete.

ß	🖁 Unidentified USB D 🗱 ┥ 12:04	
۲	Sunday, June 01, 2003	
	Unidentified USB Device	
	Enter the name of the device driver for this device. For information, see the device manufacturer's documentation.	
	ftdi_ser.dll	
	OK Cancel	
Ta C# Sh	3 1 2 3 4 5 6 7 8 9 0 - = b q w e r t y u i o p [ AP a s d f g h j k l ; ' ift z x c v b n m , . / + láü``\	
		-

The device installation is now complete.