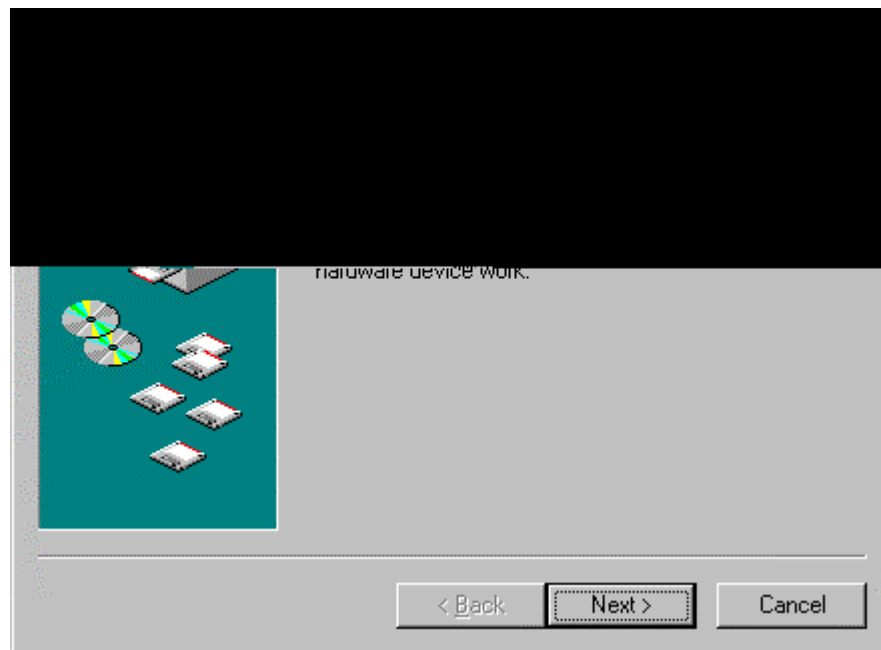# Installing FT8U232/245 devices under Windows 98

This note assumes that you are installing the drivers on to a clean system, i.e. one which on which FTDI's drivers have not been installed previously. If this is not the case then refer to the appendix A for guidance on uninstalling FTDI drivers before proceeding with installation.

If you have problems with installing your device please e-mail us at support@ftdi.co.uk and describe the stage that you have reached – for example you may have reached screen 3 but screen 4 reports that Windows cannot find a driver.

FTDI's evaluation boards should ship with a complete set of drivers on floppy disk. Users can also download http://www.ftdi.co.uk/support.htm. These should be unzipped onto a floppy disk before proceeding with installation.

Plug in your device. This should bring up a "Building Driver Information Database" followed by the Add New Hardware Wizard. Note that the screenshots show the installation of an FT8U232AM evaluation board. Installation of an FT8U245AM based device should be very similar.
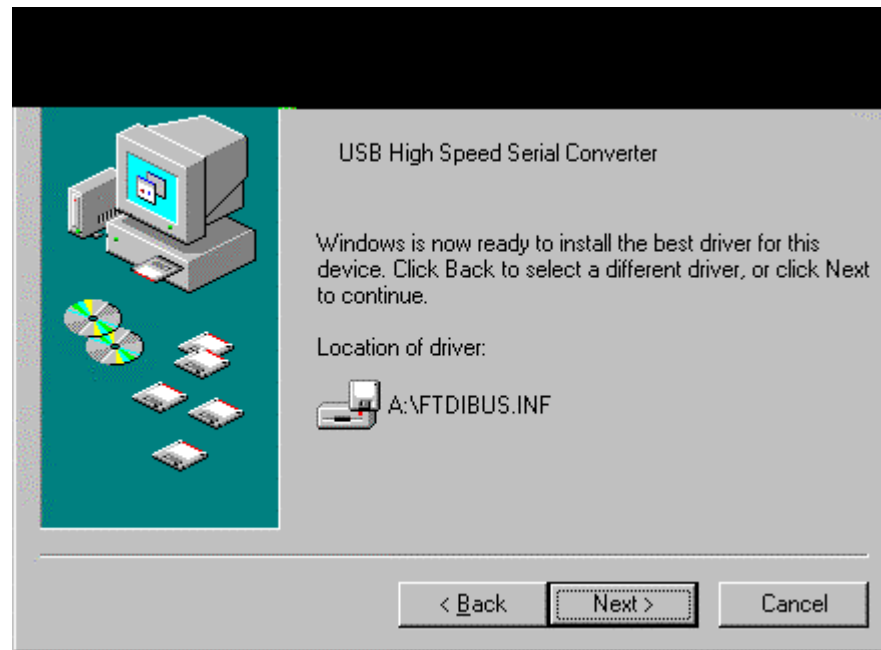
Screen 1

Select Next.

High Speed USB Controllers for serial and FIFO applications

Screen 2

Select Next.

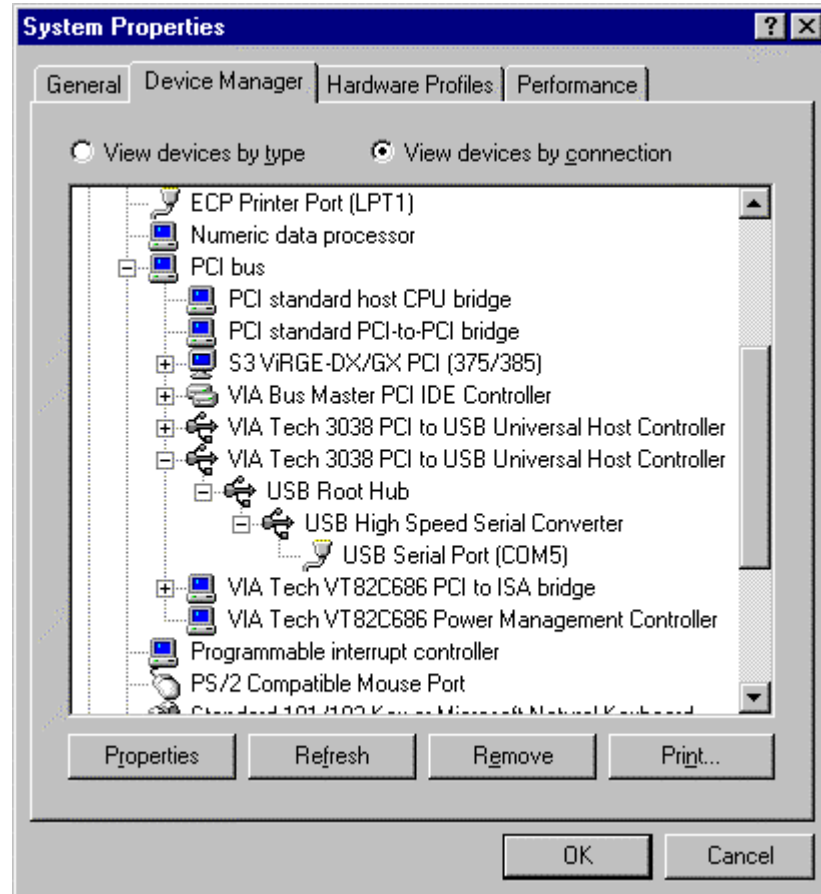**Screen 3**

Screen 4

Select next.

Screen 5

Select Finish.

High Speed USB Controllers for serial and FIFO applications

To confirm that the installation has completed successfully look under Device Manager of the System Properties screen. The device should have installed as a USB Serial Port (COMx) attached to USB High Speed Serial Converter.
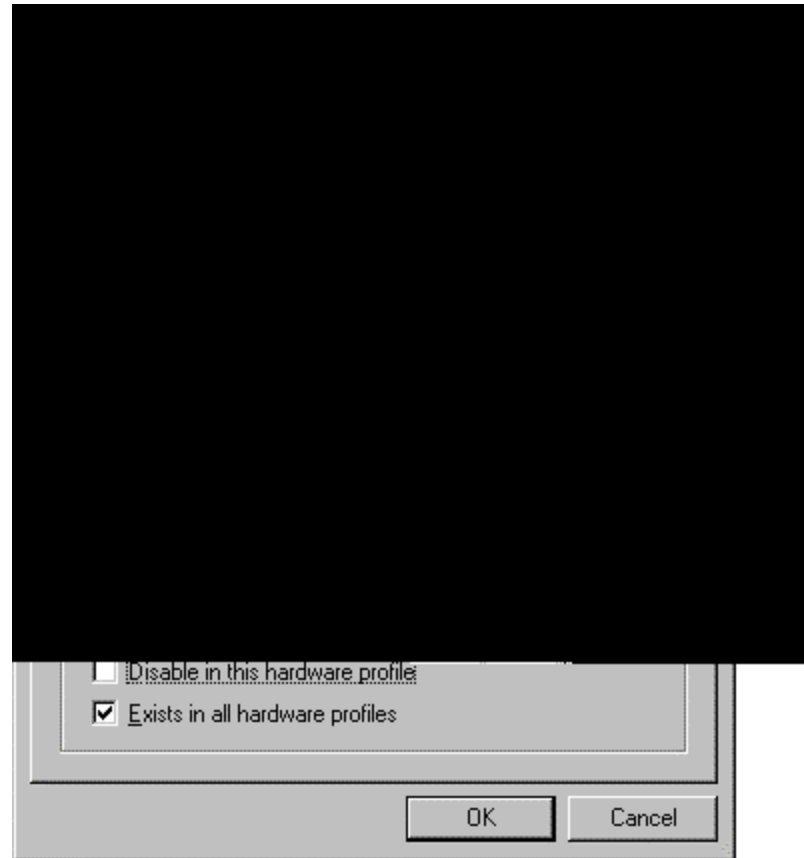
Screen 6

High Speed USB Controllers for serial and FIFO applications

To change the virtual COM port properties select the USB Serial Port and then Click Properties. The allows you to change serial port properties such as baud rate, data bits etc. Of particular use is the ability to change the COM port which is assigned to your device.
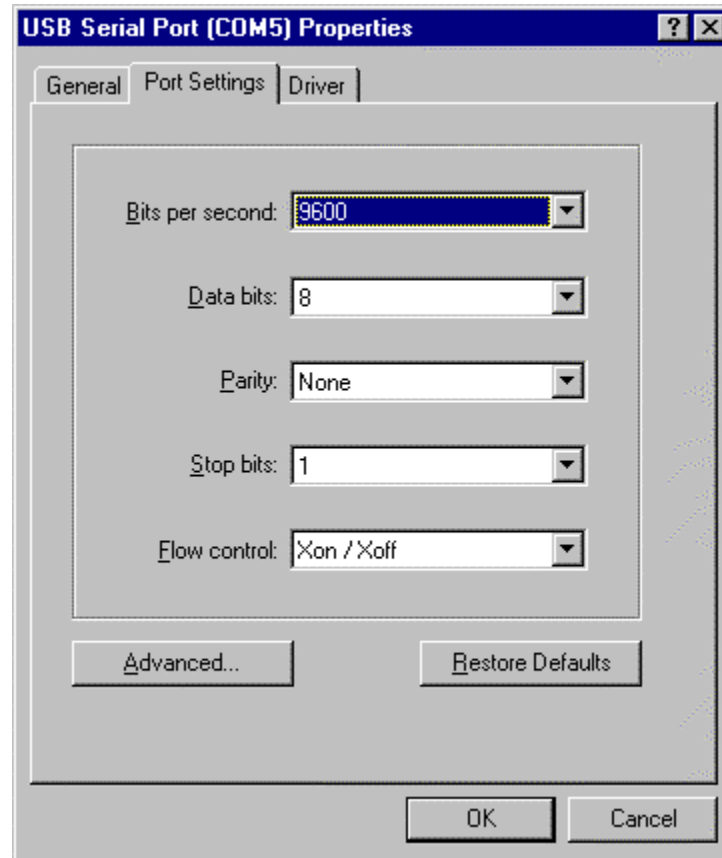
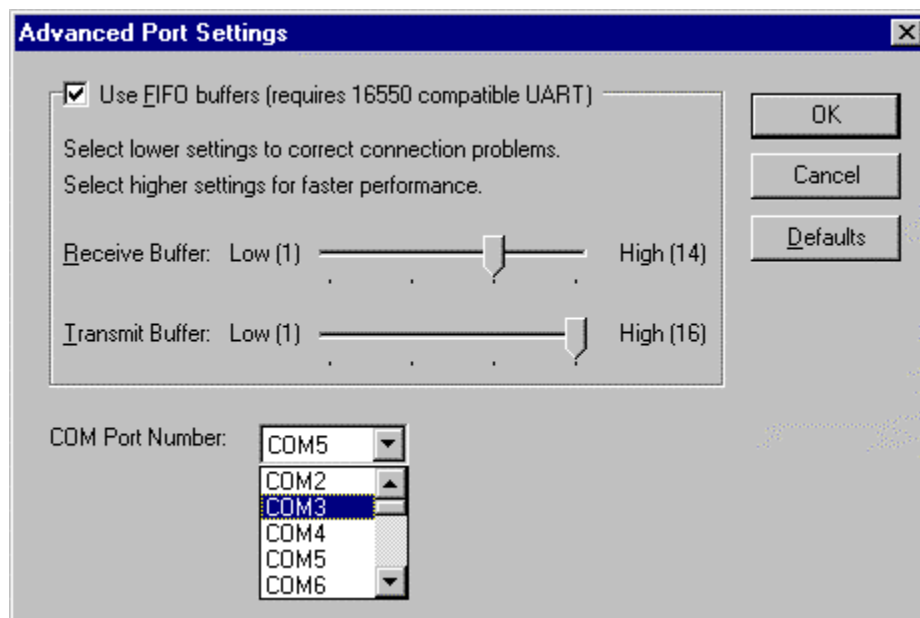**Screen 7**

Select Port Settings.

High Speed USB Controllers for serial and FIFO applications

Screen 8

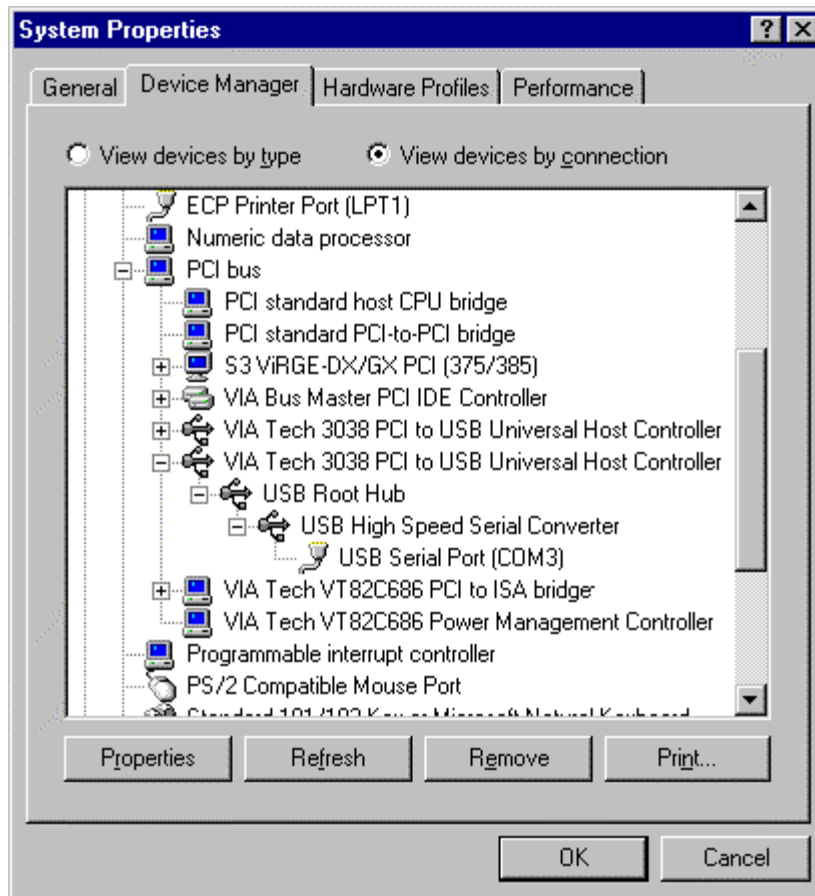Select Advanced.

Screen 9

Then click the drop down arrow on COM Port Number and scroll to the required COM port. Select OK. Please ensure that you do not select a COM port which is in use. Note this is particularly useful for programs, such as HyperTerminal, which only work with COM1 through to COM4.

When you return to the Device Manager Screen you will have see that the USB Serial Port installation has been changed to COM3.

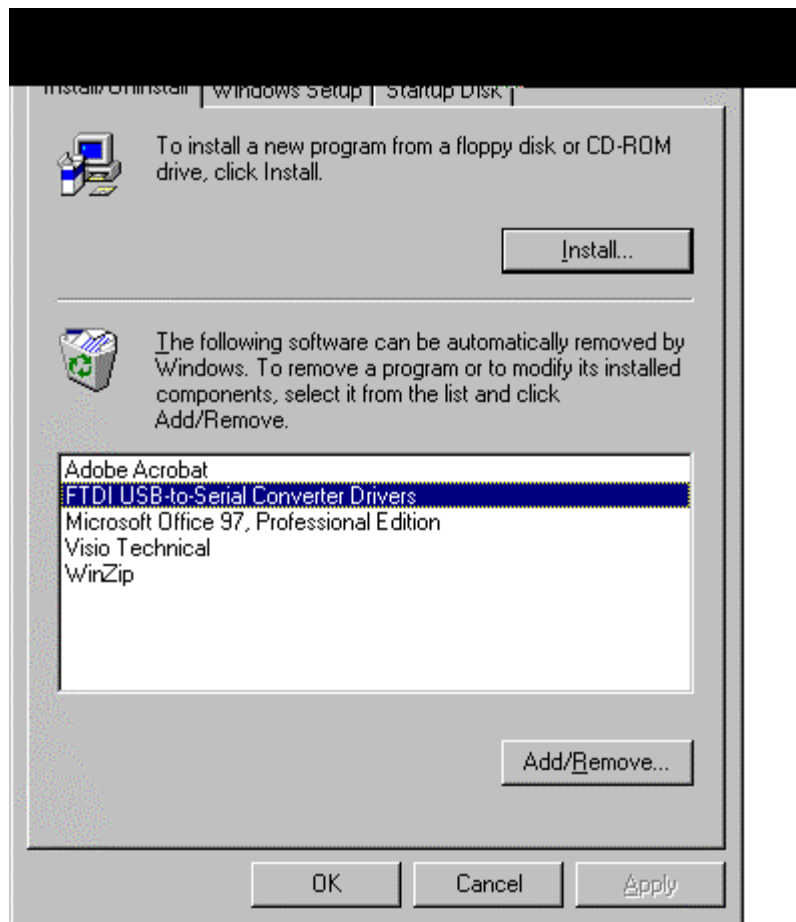**Screen 10**

Appendix A – Uninstalling

To uninstall the drivers unplug the device and Select Add/Remove Software under the Control Panel. Select FTDI USB to Serial Converter then Add/Remove.

Note – the file ftdiunin.ini is used to store the VID and PID of the device which you are looking to uninstall. This file contains the following entry

Device=VID_0403&PID_6001

If you have changed the VID and PID using FTDI's E2PROG utility – you will need to change this entry in this file to match the new VID and PID or Add/Remove will not match the files.
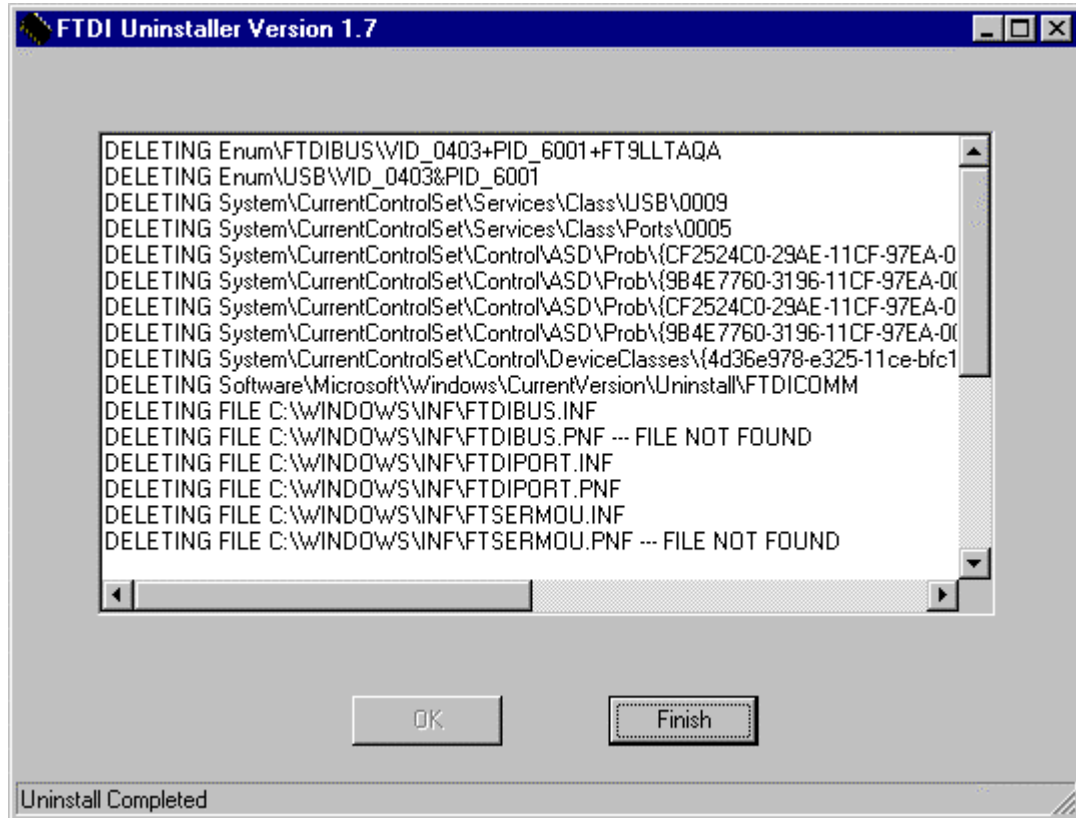
Screen 11

High Speed USB Controllers for serial and FIFO applications

Select OK to Delete the drivers and the following should scroll across the uninstaller window.

Screen 12

If there are problems with uninstall – for example if there are difficulties with installing the device again then please do the following. Run uninstall as described above. Run regedit and check for entries which match the VID and PID of your device under

HKEY_LOCAL_MACHINE -> Enum -> USB

For example, if you are uninstalling an FT8U232AM evaluation board using FTDI's generic VID and PID the entry will be VID_0403&PID_6001. If you are not using FTDI's generic VID and PID the values you look for will be your company's own VID and PID. If an entry exists then delete it.

Appendix B - Problems

What if you see the following screen?

Screen 12

The most common reason for this is that the VID and PID values in the INF files do not match those of the hardware. If you have changed the VID and PID of the product using FTDI's E2PROG utility then you need to add entries in the INF files to match the new VID and PID.

This is relatively straightforward, consisting of copying each line which contains FTDI's generic VID and PID and altering the copied line to match your own values. Note that it is worth leaving our generic values in the original line because these are needed to match the device when it first comes up prior to programming. See the document ser200.pdf for details on running the E2PROG utility.

These changes should be carried out to the ftduport.inf and ftdibus.inf files. An example where the user VID=1234 and the user PID=5678, from the file ftdiport.inf, is

%VID_0403&PID_6001.DeviceDesc%=FtdiPort232,FTDIBUS\COMPORT&VID_0403&PID_6001

should become

%VID_0403&PID_6001.DeviceDesc%=FtdiPort232,FTDIBUS\COMPORT&VID_0403&PID_6001
%VID_1234&PID_5678.DeviceDesc%=FtdiPort232,FTDIBUS\COMPORT&VID_1234&PID_5678