# USB Programmer
# Windows-7 Installation

**Version: 1.0**

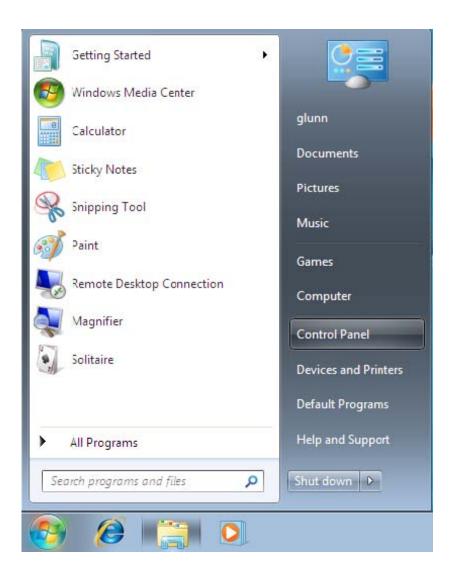

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### 1. Installing Drivers

To install drivers for USB device under Windows 7, follow the instructions below:
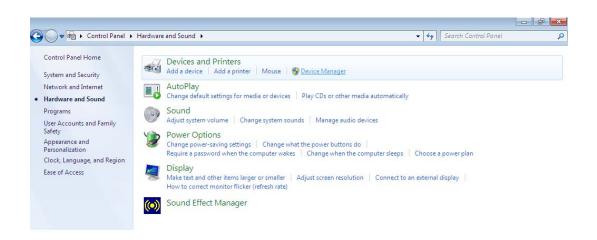Connect the device to a spare USB port on your PC.
If there is an available Internet connection, Windows 7 will silently connect to the
Windows Update website and install any suitable driver it finds for the device. If the
automatic installation takes place there is no need to continue with the procedure
outlined below. If no suitable driver is automatically found then the following
procedure should be followed. Press the Windows start button to bring up the start
menu and select "Control Panel".

3



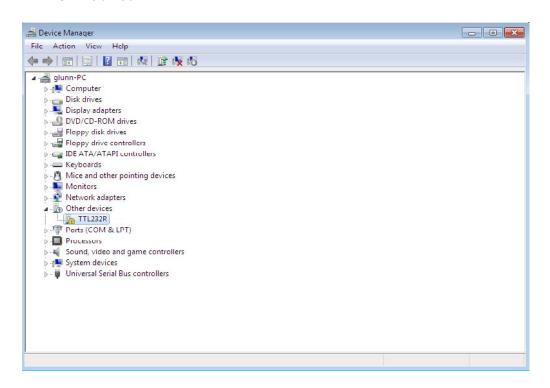From the Control Panel window select Hardware and Sound



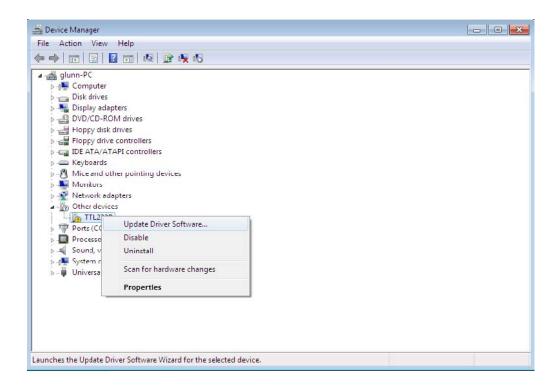At the next screen select Device Manager

3

In the Device Manager window there will be a device under Other Devices with a yellow warning symbol to indicate a problem ie no driver installed. The text next to

this device will depend on the device attached. In this example the device was a TTL232R device.
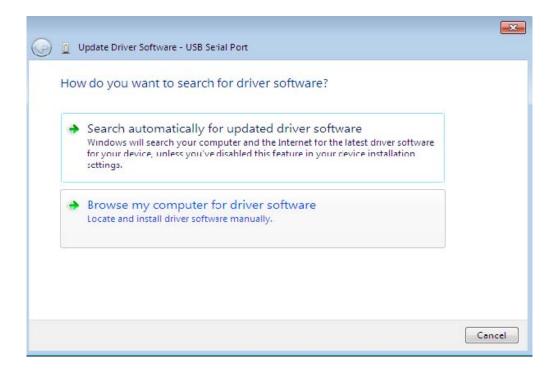
Right click on the other device (TTL232R in this example) to bring up a menu as shown below.



This the From the displayed menu select "Update Driver Software..."
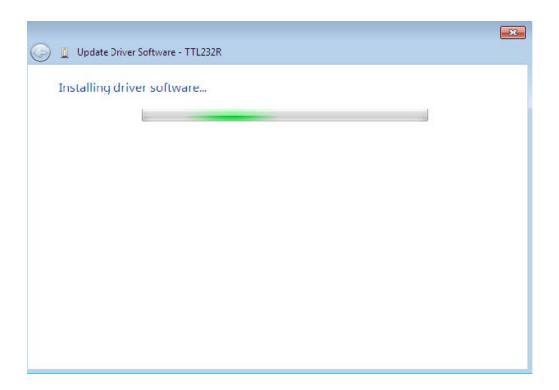This then displays the option for an automatic search or a manual search.
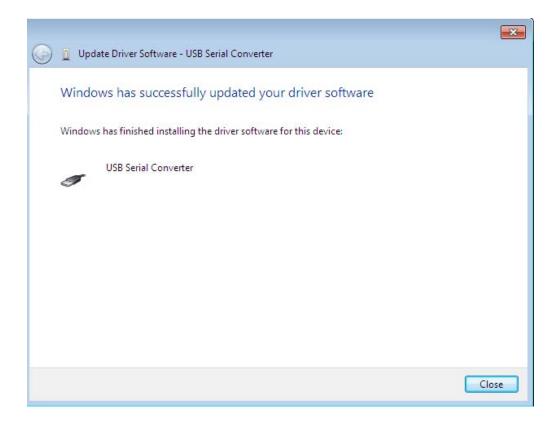
Select the second option to browse manually.



In the address box put the exact location where the drivers have been saved to. This may be on a CD or in a folder on the PC. It is not necessarily the exact same location as shown in the screenshot. The drivers could have been saved anywhere of the users choosing. After entering the address select "NEXT" to start the installation.
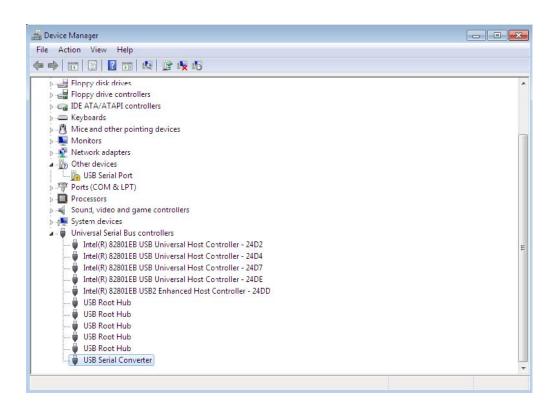
When the installation has finished a completion screen is displayed.



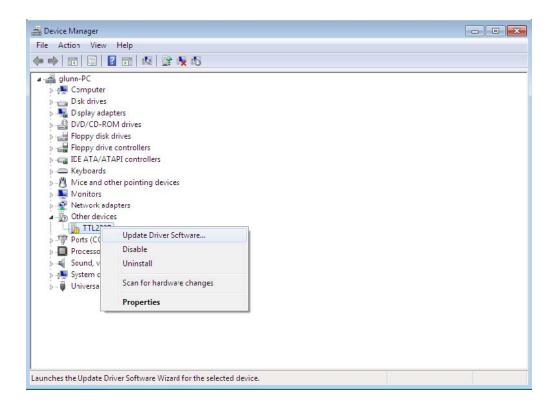Press Close to close this window and go back to the Device Manager Window.

The Device Manager will still show a device under Other Devices but in addition to this there is a new entry under Universal Serial Bus Controllers indicated in the screenshot above as the USB Serial Converter. This indicates the bus layer of the driver is installed. Installing the Virtual Com Port layer of the driver is almost a repeat of the last few steps.
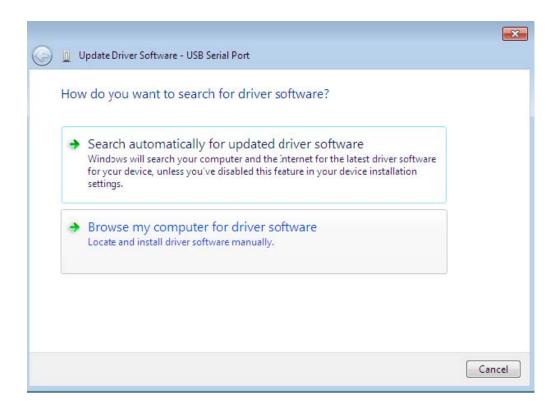
Right click on the other device (TTL232R in this example) to bring up a menu as shown below



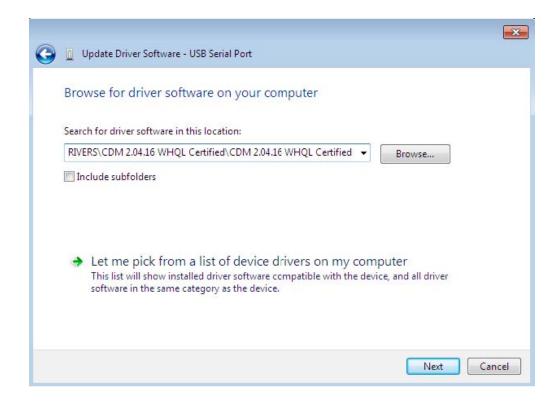From the displayed menu select "Update Driver Software..."
This then displays the option for an automatic search or a manual search.

Select the second option to browse manually.
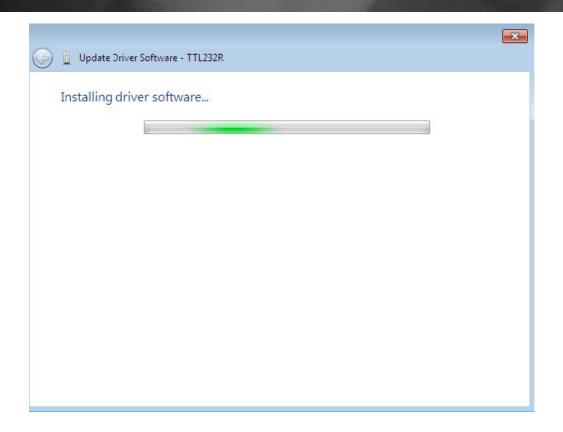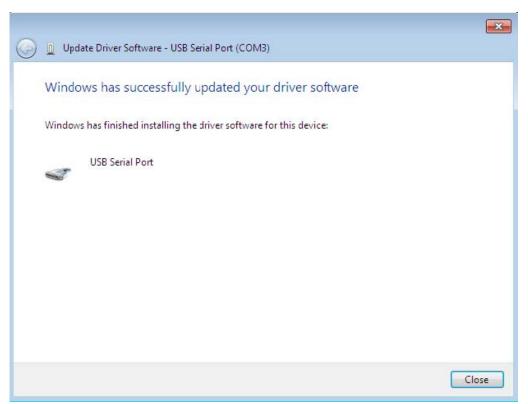
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In the address box put the exact location where the drivers have been saved to. This may be on a CD or in a folder on the PC. It is not necessarily the exact same location as shown in the screenshot. The drivers could have been saved anywhere of the users choosing.

After entering the address select "NEXT" to start the installation.

This time the Device Manager does not have a TTL232R entry under Other Devices but does show entries under Universal Serial Bus Controllers and Ports (COM & LPT). The above screen shot displays a correct installation. The device is now ready to use on COM3.

NOTE: Not all devices will install to COM3. The COM port allocation is determined by the installation wizard on the basis of the next free com port as designated in the PC registry.

## 2. Uninstalling FTDI Devices

With the release of Microsoft Windows 7, the FTDI uninstaller has been rendered unusable due to Windows Resource Protection preventing the executable from deleting driver files and associated registry values. Windows 7 will only allow the system itself to modify files and registry values in these locations.

Devices can be removed using the Device Manager by simply right-clicking on the mouse and selecting "Uninstall".This will delete the associated registry entries for that device only. Windows 7 provides an automatic method to delete driver files via a check box to "Delete the driver software for this device" on the uninstall dialog box.





This stage is done twice. Once for the device under Ports(COM & LPT) and once for the device under Universal Serial Bus Controllers.

Windows 2000, XP and Server 2003 do not have this check box, so driver files and OEM INF and PNF files must be removed manually or by using a custom application.

Some points to note about the new un-installation method:

- In the case of FT2232 / FT4232 devices, a composite device is also installed. This can also be removed by right-clicking and selecting "Uninstall". There is no option to delete the driver files when doing this as the driver for the composite device is a native Windows driver.
- If the VCP driver has been installed, the COM port driver should be uninstalled before the bus driver. If the bus is removed first, the COM port will no longer appear in the Device Manager.
- If the files are deleted while other installed devices still require them those devices will not work correctly. This can be fixed by right clicking the device and selecting "Reinstall Driver" which will replace the missing files.
- If a device to be uninstalled is not connected to the PC, the device can still be removed by setting the device manager to show phantom devices . This also allows a virtual COM port to be uninstalled if the bus layer has been removed first.

### 3. Troubleshooting

### 3.1 Windows 7 shows a warning that the driver is not certified

If the driver is not certified then a pop up window such as shown below will be displayed.



If you are certain of the source of the driver the warning can be ignored and you can continue installation by selecting "Install this driver software anyway".

### 3.2 Driver will not install on Windows 7 x64

Windows 7 x64 OS will only allow certified drivers to be installed.

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