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XH8290 **DS USB to Serial Adaptor**

Installation and User Guide

V2.1 – Last Updated on 19/05/10 by N.Saini – Copyright © 2010 – DSE Holdings Pty Ltd.

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The manufacturer warrants this product to be free from defects in materials or workmanship for a period of 12 months from the date of purchase.

If you choose to make a claim under this manufacturer's warranty in relation to any such defects in materials or workmanship during the period of this warranty please return the product to a Dick Smith store. We will then, at our option, either repair or replace the product, or refund your money and take back the product.

Our additional liability under the terms of this warranty does not extend beyond this, and we do not accept any additional liability under the terms of this warranty for consequential loss.

Please note, our liability under this manufacturer's warranty is subject to us being satisfied that a defect was caused by defective workmanship or materials, and was not caused by or substantially contributed to by other factors, or circumstances beyond our control, including (but not limited to) defective installation, maintenance or repair, alteration or modification of the product in a manner not recommended by the manufacturers or any neglect, misuse or excessive use.

Proof of Purchase

We recommend you keep your receipt in a safe place, as it will prove the commencement of the period of this warranty. If you wish to make a claim specifically under this manufacturer's warranty, you will be required to provide proof of purchase, typically your receipt.

Manual Versions

Date	Version	Author	Changes
06/12/2004	1.0	Leon K.	Original Version
24/04/2007	1.1	Parvez Khan.	Updated Specifications
04/05/2010	1.2	Navdeep Saini	Updated OS support

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1 Introduction

Thank you for purchasing the DS USB to Serial (RS232) adaptor. It is an adaptor, which allows you to effortlessly add legacy device support, via a serial port, to your PC or notebook. It complies fully with RS232 specifications.

1.1 Package Contents

Carefully unpack and remove the contents. If any of the following items are missing or damaged, contact the Dick Smith store you purchased the device from.

- XH8290 DS USB to Serial Adaptor
- DS Installation & Software CD
- User's Manual

1.2 Minimum System Requirements

- Minimum of a Pentium 75Mhz or equivalent
- Minimum of 16MB RAM
- Supported Operating System
 - Linux 2.4.x or above
 - MacOS 8.2 or above
 - Windows 98 / 98SE / Me / 2K / XP / Vista / 7
- Available USB port

1.3 Features & Specifications

- RS232 compliant supporting 300bps to 1Mbps baud rate
- Asynchronous Serial Data Transfer
- Full Handshaking & Modem Interface Signals
- 384 Byte Receive Buffer / 128 Byte Transmit Buffer
- Adjustable RX buffer timeout
- UHCI / OHCI / EHCI Host Controller Compliant
- USB 2.0 and USB 1.1 Compliant
- Full hardware assisted or X-ON/X-OFF handshaking
- Support for Event Characters and Line Break condition
- USB BUS Powered – No external power supply required
- Virtual COM Port Drivers for Linux, Macintosh and Windows 98, 98SE, ME, 2K, XP and 7.
- Uses FT232BM dedicated USB UART (VID: 0403 PID: 6001)

2 Installation Instructions

Note: Please have the driver included DS CD on hand when connecting the USB to Serial Adaptor to your computer. The CD contains the driver that is required for correct operation – please keep the CD in a safe location for future use.

Note: As of July 2006 Microsoft has discontinued support for Windows 98 and Windows Me. Microsoft is retiring support for these products because they are outdated and can expose customers to security risks. We recommend that customers who are still running Windows 98 or Windows Me upgrade to a newer, more secure operating system, such as Windows XP, Vista or Windows 7.

There is a driver provided on the CD for Windows 98SE/Me, it can be found at the following location on the CD drive **\Drivers\Windows**. The driver is provided 'as is' with **no additional support** from Dick Smith due to the fact that Windows 98/Me are 'retired' products and are no longer supported by Microsoft.

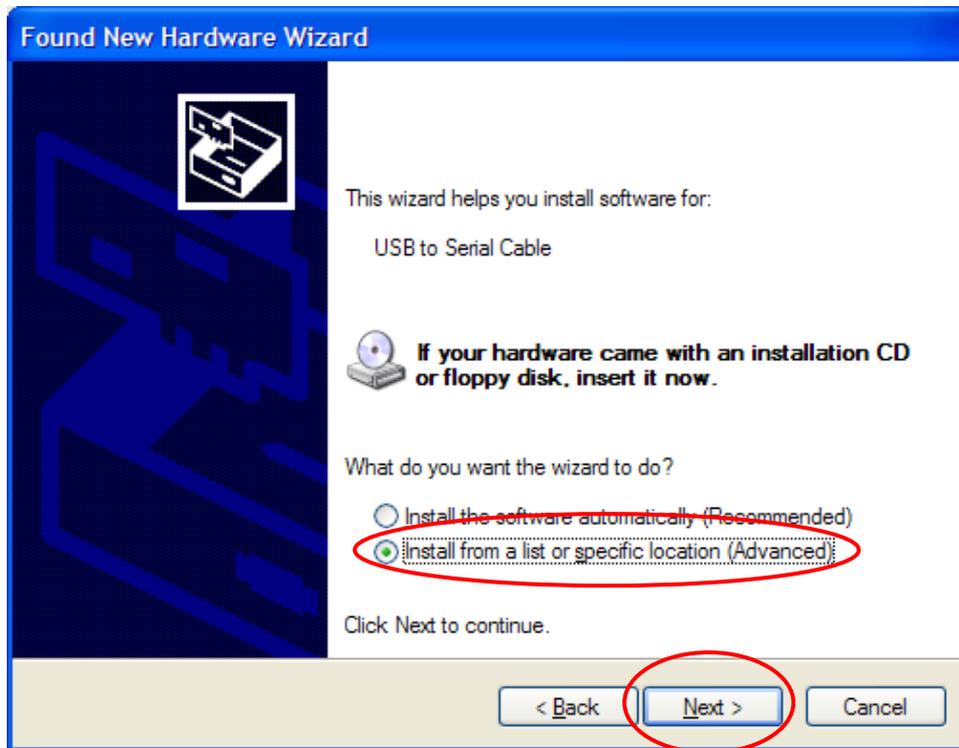
2.1 Microsoft Windows 2000 / XP

1. Insert the DS CD into your CDROM drive, an *Autoplay* menu will appear. As you will need to tell Windows where to locate the driver files, you may close the *Autoplay Menu* using the [X] located at the top-right corner.
2. Ensure there is no device attached to the adaptor and connect it to an available USB port on your computer. Windows will then inform you that a new device has been found and the **New Hardware Wizard** will appear. If you are running Windows XP with Service Pack 2, please select **No, not this time** and click **Next** to continue. Otherwise please go to Step 3 as shown below.

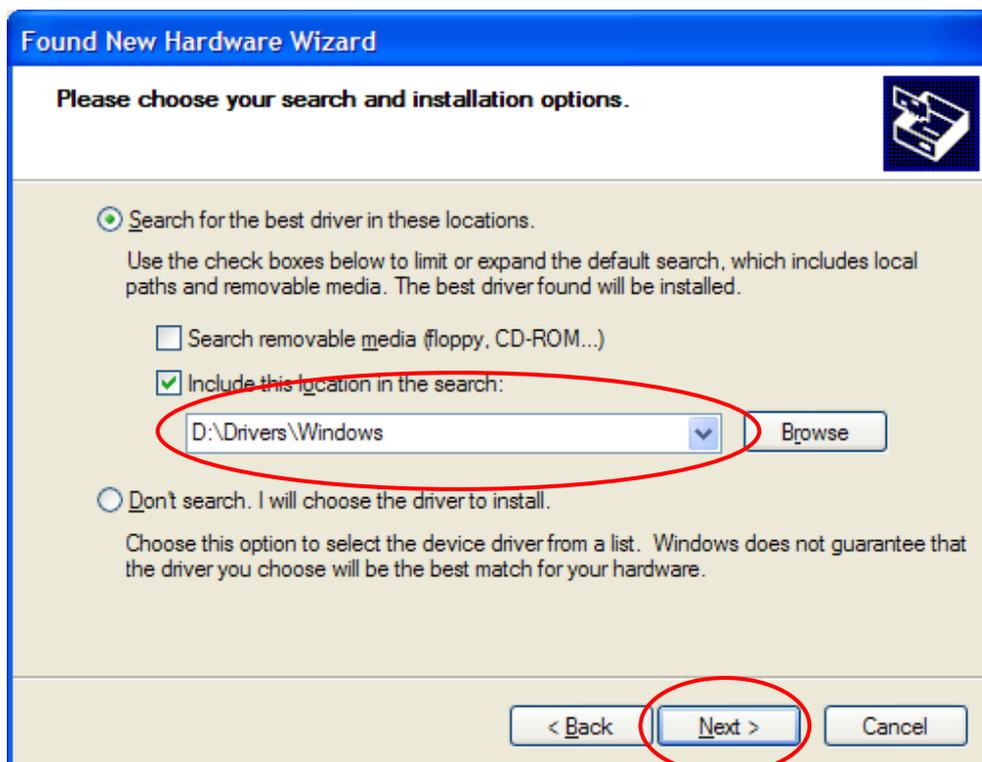


Note: After successfully completing the **New Hardware Wizard**, Microsoft Windows 2000 and XP will detect the device once more and display the Wizard again. This is normal as Windows enumerates the device twice. Each time, the Wizard requires the same information – each time, please complete the Wizard as outlined below.

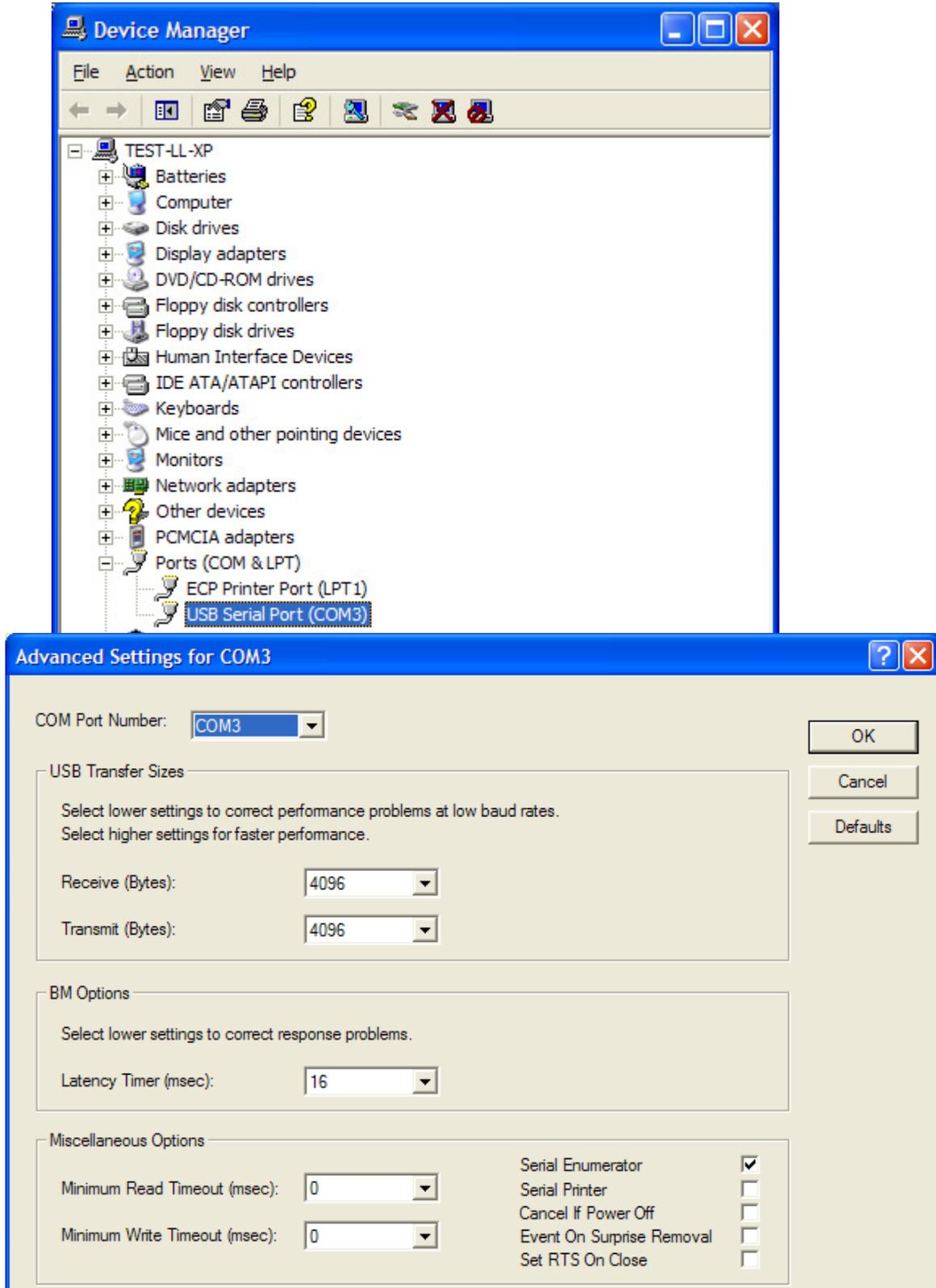
3. Please select the radio button that allows Windows to **Install from a List or specific location (Advanced)** and click **Next** to continue.



4. When prompted for the location, please specify `D:\Drivers\Windows` (replacing `D:\` with your cd-rom drive letter if different) and click **Next** to continue.

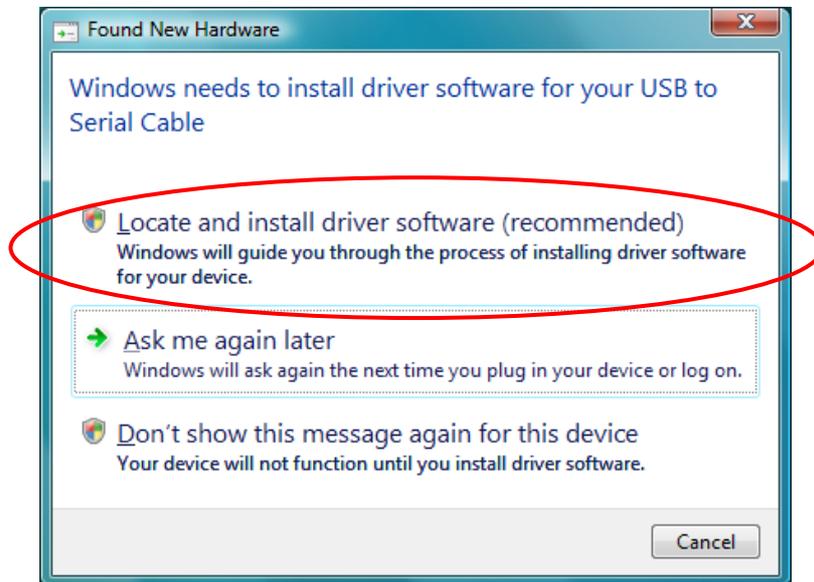


5. The DS USB to Serial Adaptor should now be successfully installed. If required, the **Windows Device Manager** can be used to select a different COM port as well as adjust the transmission block size, latency timeout and various miscellaneous options.

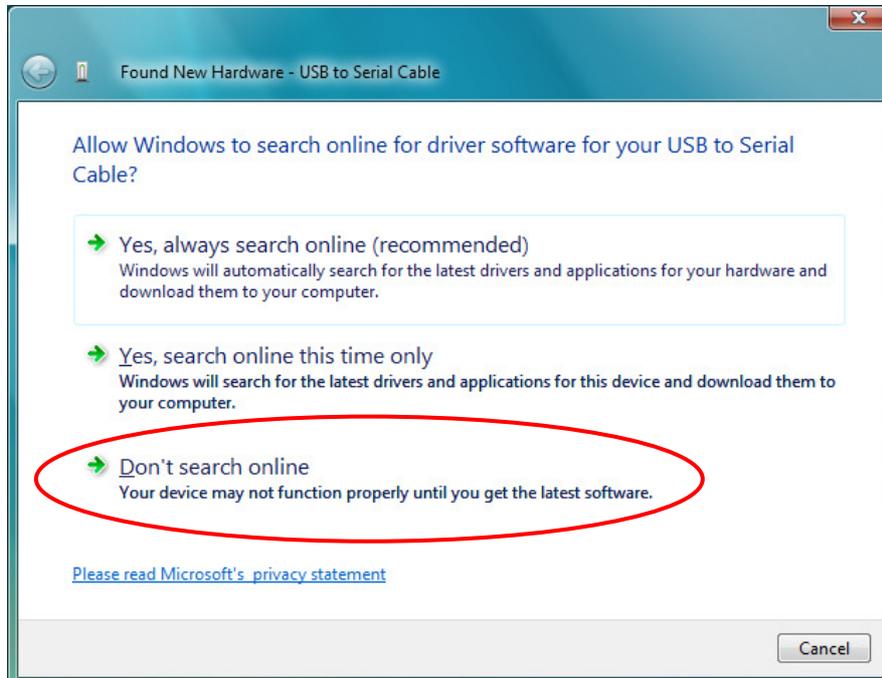


2.2 Microsoft Windows Vista

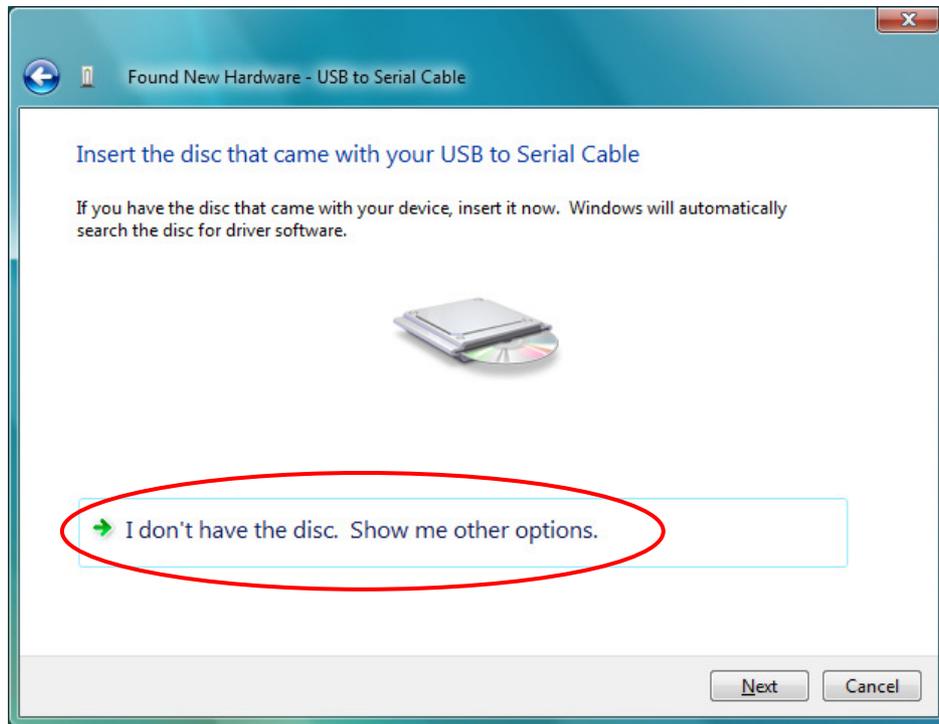
1. Ensure there is no device attached to the adaptor and connect it to an available USB port on your computer. Windows will then inform you that a new device has been found and the **Found New Hardware** wizard will appear. Select **Locate and install driver software**.



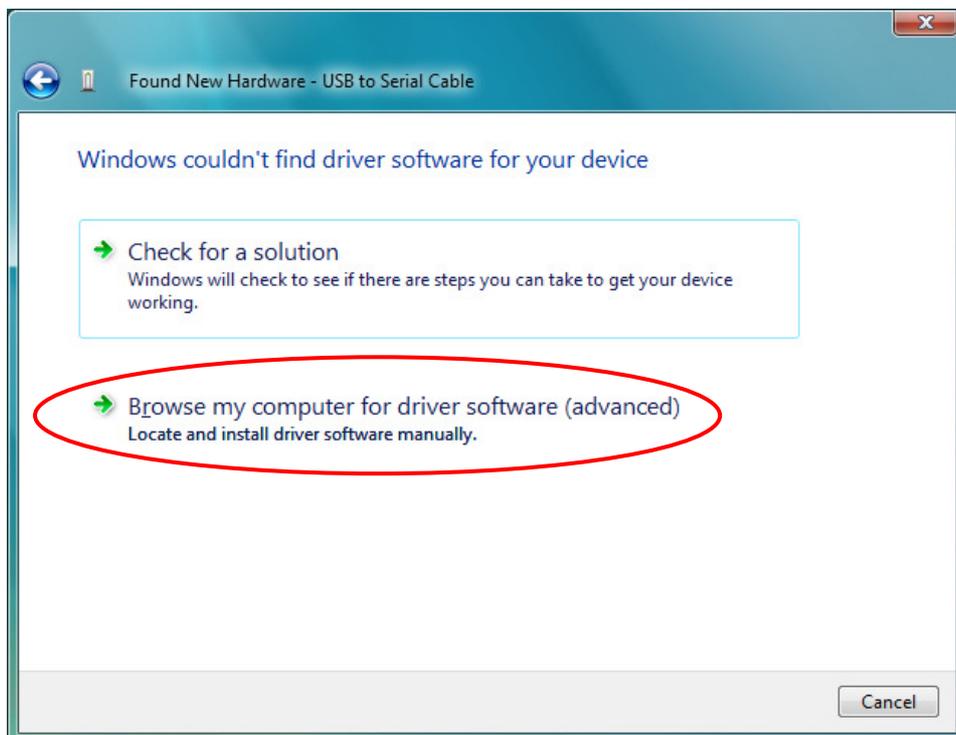
3. Please select **Don't search online**.



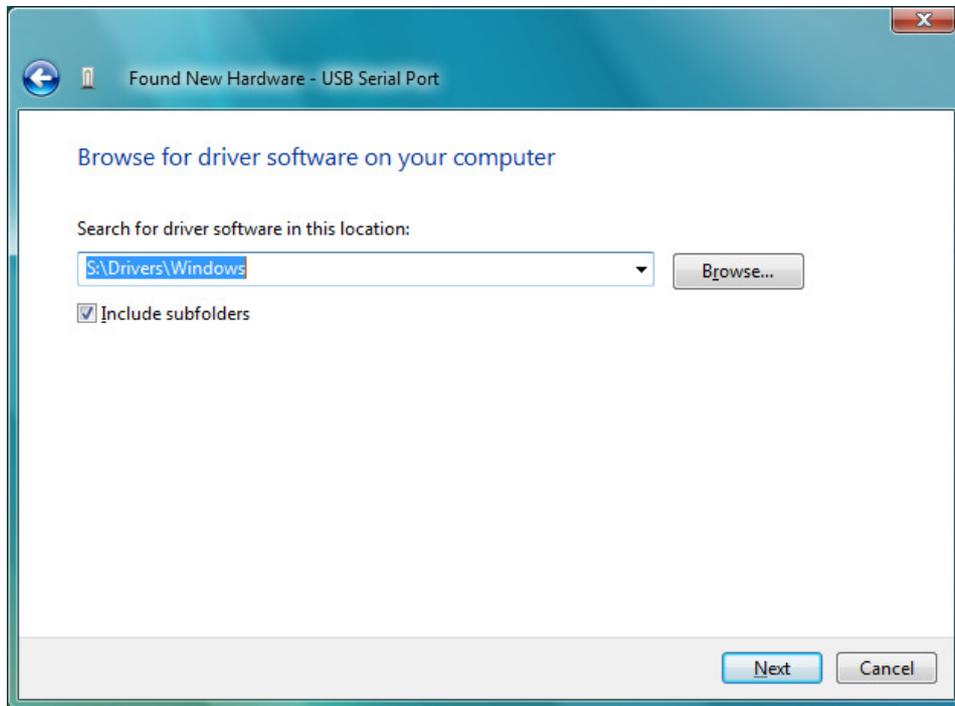
4. Please insert the disc provided included with the product. Windows will now automatically install the drivers. If the drivers fail to install select ***I Don't have the disc. Show me other options.***



5. Please select ***Browse my computer for driver software (advanced)***



- When prompted for the location, please specify `D:\Drivers\Windows` (replacing `D:\` with your cd-rom drive letter if different) and click **Next** to continue.



- The DS USB to Serial Adaptor should now be successfully installed. If required, the **Windows Device Manager** can be used to select a different COM port as well as adjust the transmission block size, latency timeout and various miscellaneous options.

Note: After successfully completing the **New Hardware Wizard**, Microsoft Windows will detect the device once more and display the Wizard again. This is normal as Windows enumerates the device twice. Each time, the Wizard requires the same information – each time, please complete the Wizard as outlined above.

2.3 Microsoft Windows 7

Microsoft Windows 7 has built in drivers for this device and should automatically install the drivers once plugged in. In case the driver is corrupted or will not install, insert the provided driver disc and point the device manager to `D:\Drivers\Windows` (replacing `D:\` with your cd-rom drive letter if different).

2.4 Macintosh Installation

Supported versions of MacOS are 8, 9 and OSX. The folder `D:\Drivers\Mac` contains the installers for the driver.

```
MacOS89_USBSerial.sit.hqx      - MacOS8 and MacOS9 Driver
MacOSX_USBSerial.pkg.hqx      - MacOSX Driver
```

1. Expand the appropriate archive, then run the installer by double clicking on the `FTDIUSBSerialDriver.pkg` icon. When the installation is complete, please reboot the computer.
2. Once 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-xxxxxxxx
```

Where `xxxxxxxx` is the device's serial number.

3. If you open **System Preferences** and select **Network**, you should see the text "New Port Detected" and "usbserial-xxxxxxxx-port", you can then setup the parameters for a serial connection.

2.5 Linux Installation

Supported Linux versions are 2.4 through 2.6. The USB subsystem (modules `ohci-hcd` and `ehci-hcd`) has been included with the standard Linux kernel sources since version 2.3.40 and the required USB-to-Serial driver in kernels 2.4 and above.

Once the USB to Serial Adaptor has been connected, the Linux `lsusb` command can be used to verify that the following entry is present:

```
0103:6001 Future Technology Devices International, Ltd. 8-
bit FIFO
```

Please note that when using the 2.4.x (and above) kernel drivers, the DS USB to Serial Adaptor enumerates as `/dev/ttyUSB0`.

Please visit our wevbsite (www.dicksmith.com.au for Australia and www.dicksmith.co.nz for New Zealand) from time to time as the most up-to-date drivers and manuals will be posted there.