# USB Driver Installation (Example on Windows 7)

1 - Connect a standard USB cable to the back panel then power on Xenophone.

2 - A message box will be displayed in the system tray of your desktop:

3 - If your PC is connected to the internet, your Windows will automatically download and install the required driver. If you don't have connection to the Internet or this method does not work for you follow step 4, otherwise follow step 10.

4- Click on the message area or related icon in the system tray to show the status window. Then click on **"skip obtaining driver software from Windows Update"** and close all windows.
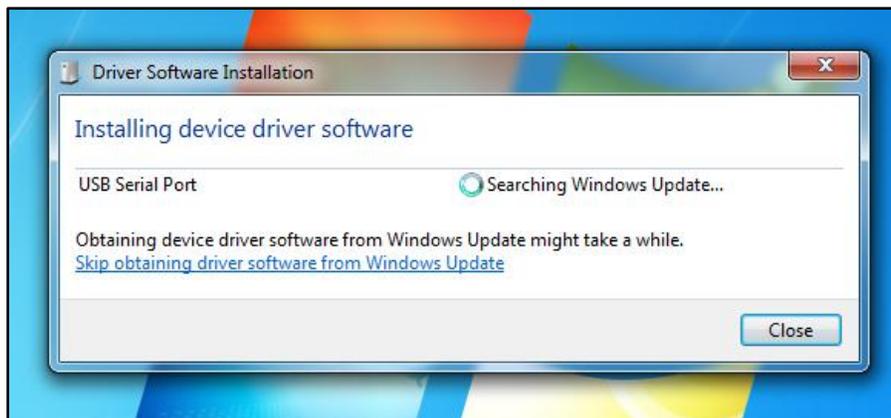

5- Download the latest VCP driver of Xenophone USB chip from this link:

http://www.ftdichip.com/Drivers/VCP.htm

At the moment of writing this document the latest version for 32/64bit Windows is "CDM v2.10.00 WHQL Certified". After downloading, extract the zip file to a folder.
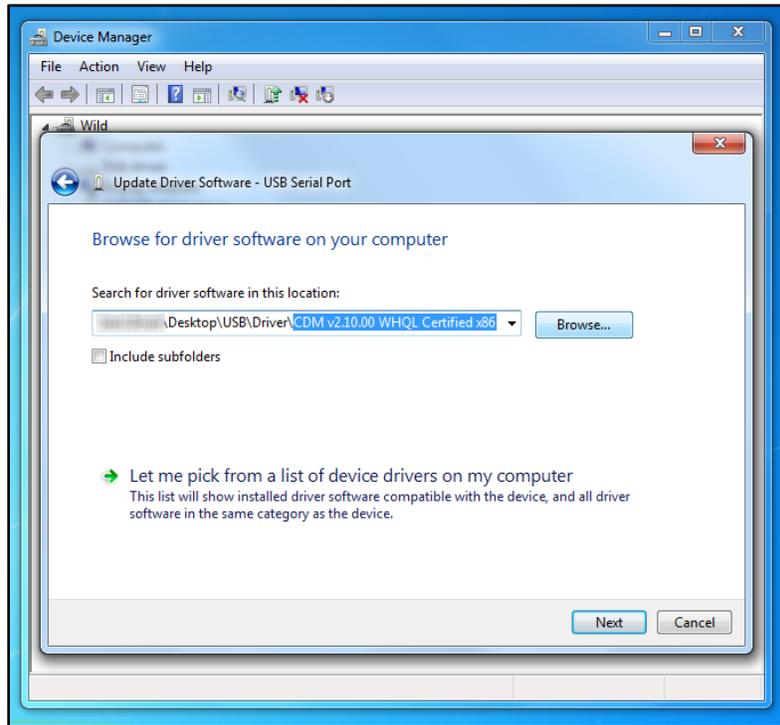
6- Open **Device Manager** (My Computer > Properties > Device Manager). Then right click on **USB Serial Port** (with warning icon) and select **Update Driver Software...**.
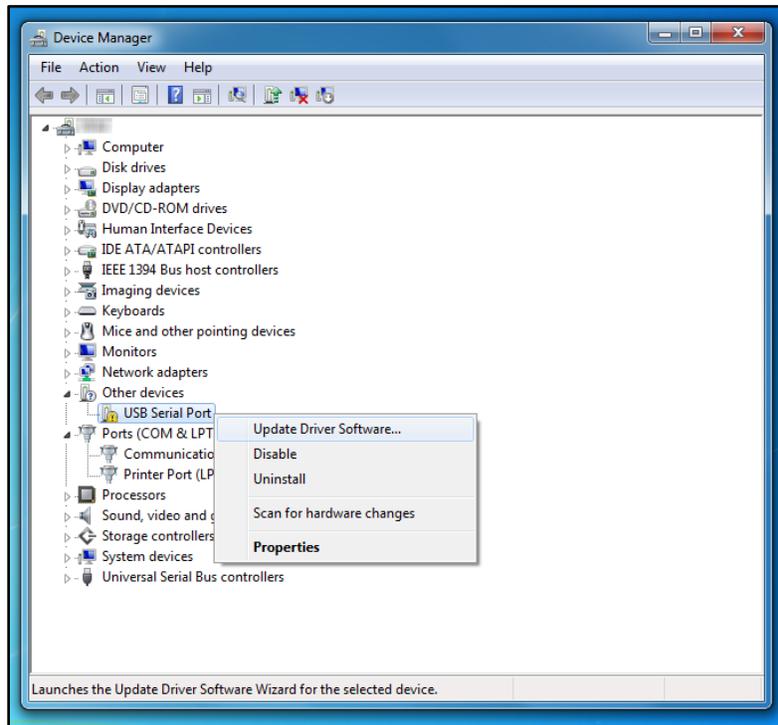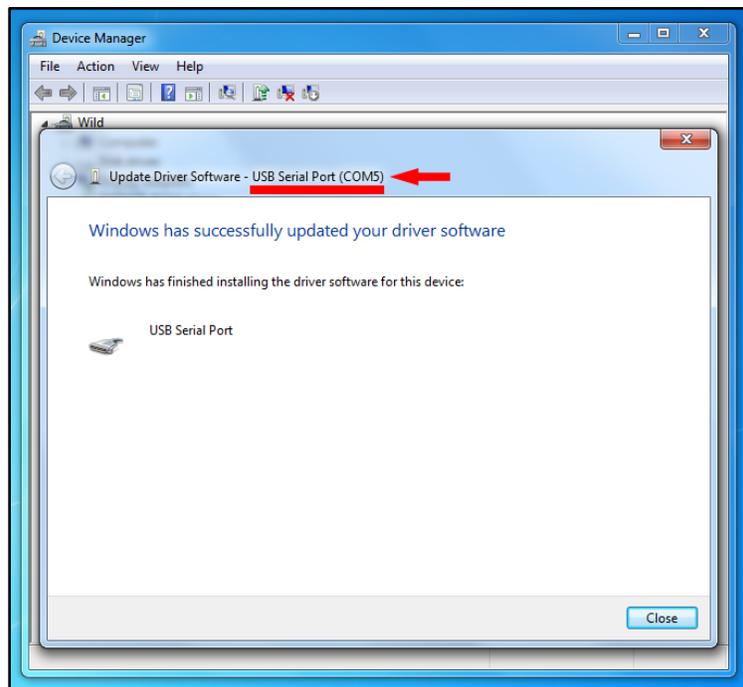
7- Select **Browse my computer for driver software**.
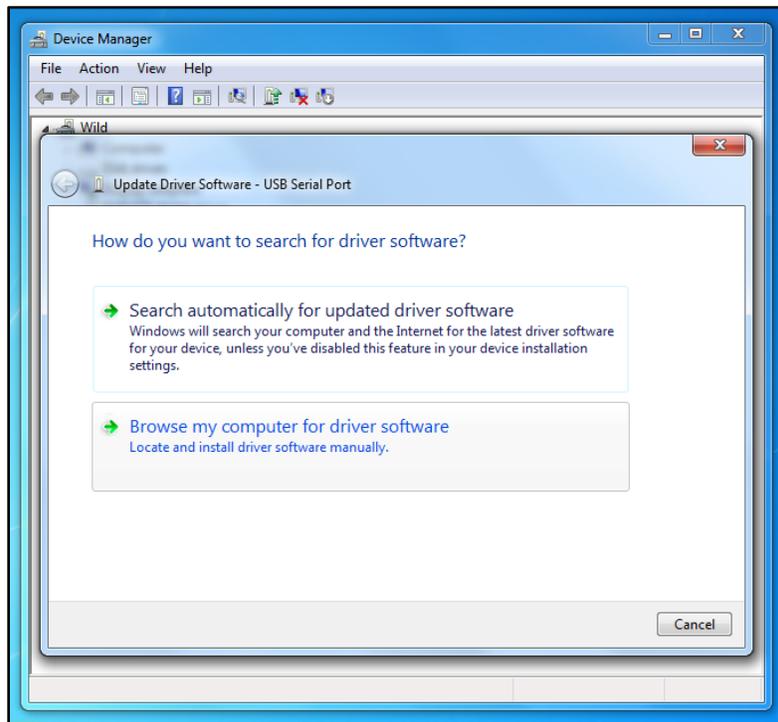
8- Click on **browse**, locate the folder of the driver (in step 4) and click the **Next**.
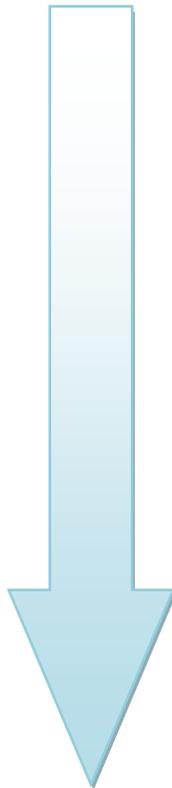

9- After a successful installation this window will be displayed. Remember the number of virtual COM port which is dedicated to your device. Here the number is 5 but it can be different on every PC.

10- Open **Devices and Printers** (Start Menu > Devices and Printers). If you did all the steps correctly **XENOPHONE** must be listed here in **Unspecified** group.
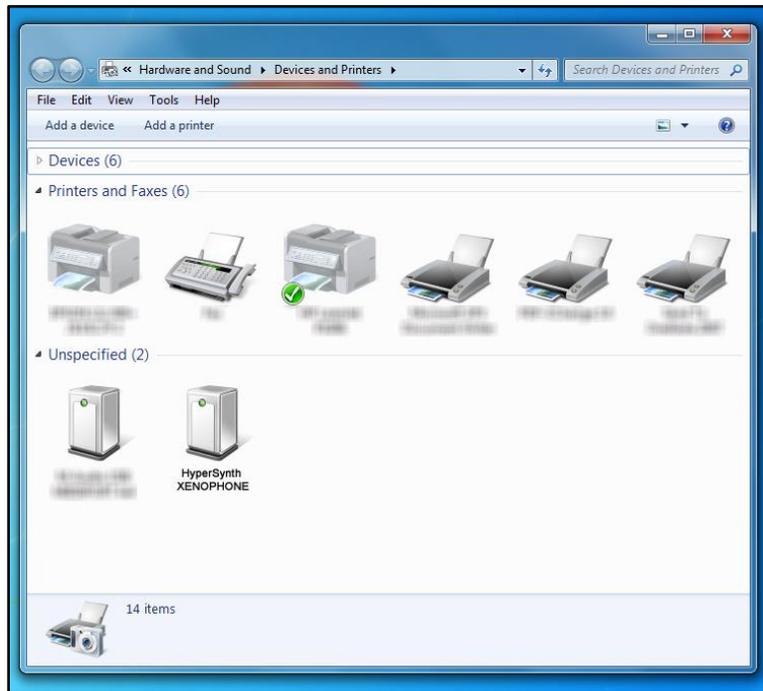
It is done!

Updating Firmware

Before performing update Xenophone's USB driver must be installed. you also need a terminal application for uploading the firmware file to your device. First download and extract **CoolTerm**:
http://freeware.the-meiers.org/CoolTermWin.zip

Then download "**baudrates.zip" and** extract it. Place "**baudrates.ini"** inside the same directory in which the CoolTerm application resides:
http://www.hypersynth.com/xenophone/download/baudrates.zip

Step By Step instructions

1-Download the latest firmware of your device and extract it:
http://www.hypersynth.com/xenophone/download.html

2- Power off Xenophone. Make sure USB cable is connected and CoolTerm is not running then **HOLD [Latch] BUTTON** while powering your device on. When you see the following message, release the **[Latch]** button. In this case the device enters OS programming mode and waits for incoming data and **latch LED** turns on:
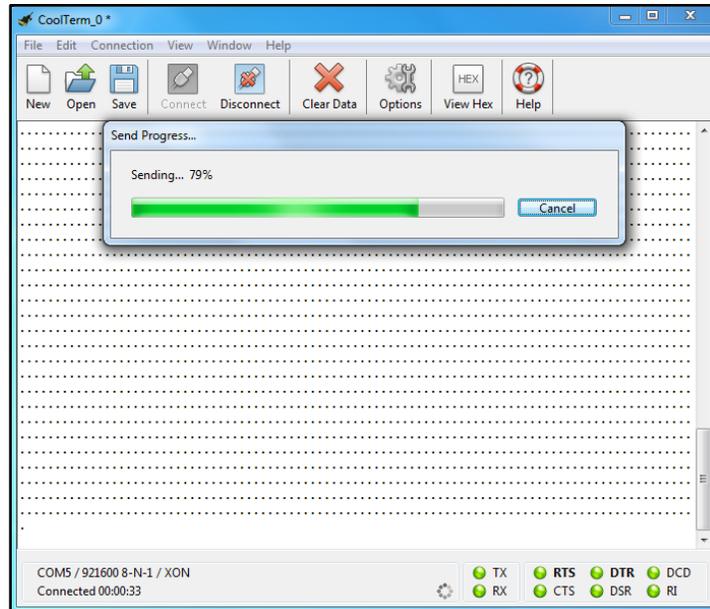

3-Run **CoolTerm > Options**, select your device COM port, set baud rate to **921600** and enable **XON**. Click **OK** then **Connect**.
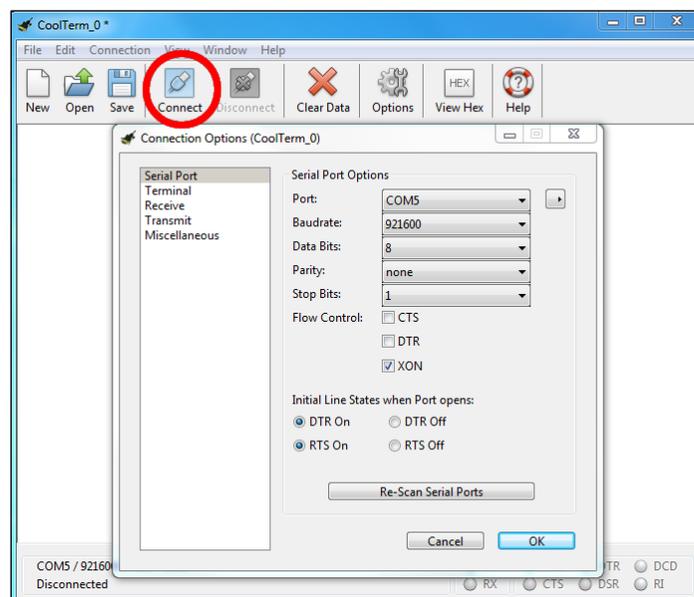
4-Select **Connection > Send Textfile** and locate your device firmware (***.hex**).

CoolTerm starts sending at the same time you must see activities on your device display too:

5-After a successful update Xenophone **must restart itself** and start up normally.

If you encounter any problem in above method or the display is stuck while receiving, disconnect the link and power off your device then begin from step 1.

Remember: Firmware update is only available via USB port which is faster and safer than using the common method via MIDI interface. The update mechanism that Xenophone uses is **Fail-Safe**. There is no way that your device gets damaged during an unsuccessful update process. The boot loader area of the internal flash memory is **write-protected** at the factory. But it is recommended that you **DO NOT** power off your device, shutdown PC, disconnect USB cable or disconnect serial link during data transferring.
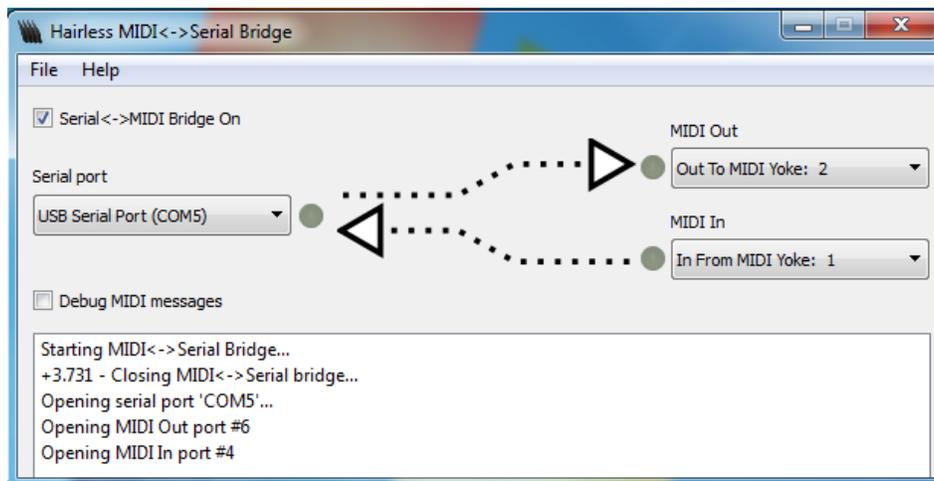
MIDI Over USB

Before using this feature Xenophone's USB driver must be installed. For enabling this feature you should set **[MIDI Over USB = On]** in Xenophone global menu. You also need two applications:

1- **A Virtual MIDI port** (Freeware: http://www.midiox.com/zip/MidiYokeSetup.msi)
2- **MIDI<>Serial bridge** (Freeware: http://projectgus.github.io/hairless-midiserial)

After downloading and installation, run **hairless-midiserial** then**:**

1- Select your device COM port
2- Choose two different Virtual MIDI ports for **MIDI OUT** and **MIDI IN.**

Now [MIDI Yoke: 2] represents **Xenophone's MIDI OUT** and [MIDI YOKE: 1] represents **Xenphone's MIDI IN**.

While using MIDI OVER USB the standard hardware MIDI ports will be disabled in Xenophone.

If you encounter any problems, or you have suggestions for future revisions, don't hesitate to contact our technical support at: Support@hypersynth.com

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