

Installing SiLabs VCP Drivers for QSI Programmer for the JMRI Decoder Pro Version 2.2 using Windows

<http://maxrob.home.comcast.net>

The SiLabs Virtual Com Port Drivers (VCP) can be used with the QSI Programmer so that the JMRI Decoder Pro will recognize the Com Port the Programmer is on. To accomplish this, the best method is to remove the SiLabs USBXpress Drivers required by the QSI Solutions Programs and REPLACE them with the SiLabs VCP Drivers entirely! **Warning!** Make sure you have the latest versions of Q1A and Q2 Upgrade Programs and the Quantum CV Manager Programs so you can use these with the VCP Drivers. These Programs will NOW work with both the SiLabs USBXpress USB drivers and the SiLabs VCP drivers This means that you can replace the USB Drivers and now using one set of drivers for BOTH QSI Program AND JMRI Programs. Use following steps to uninstall USBXpress Drivers, Reconfigure the VCP Drivers Setup File, Install and Configure the VCP Drivers and Setup JMRI Decoder Pro and the QSI Programs for use with the QSI Programmer.

1.) Remove USBXpress Drivers for QSI Programmer.

Using the Add / Remove Programs from Control Panel, remove any SiLabs USB drivers or USBXpress Drivers installed for the QSI Programmer. If no drivers are present in the Control Panel, but the QSI Programmer is still working, then Uninstall QSI Programmer from Device Manager. To Open the Device Manager, right click on My Computer, choose Properties. Choose the Hardware Tab. Then Click the Device Manager Button. (Also available from the Control Panel, System Icon.)

With the QSI Programmer powered and connected with the USB cable, right click and choose uninstall. Then unplug the QSI Programmer USB cable.

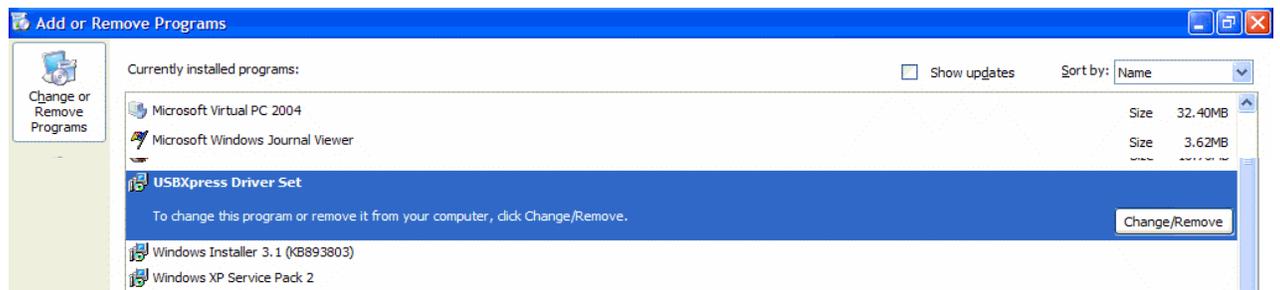


Figure 1 – Add/Remove Programs

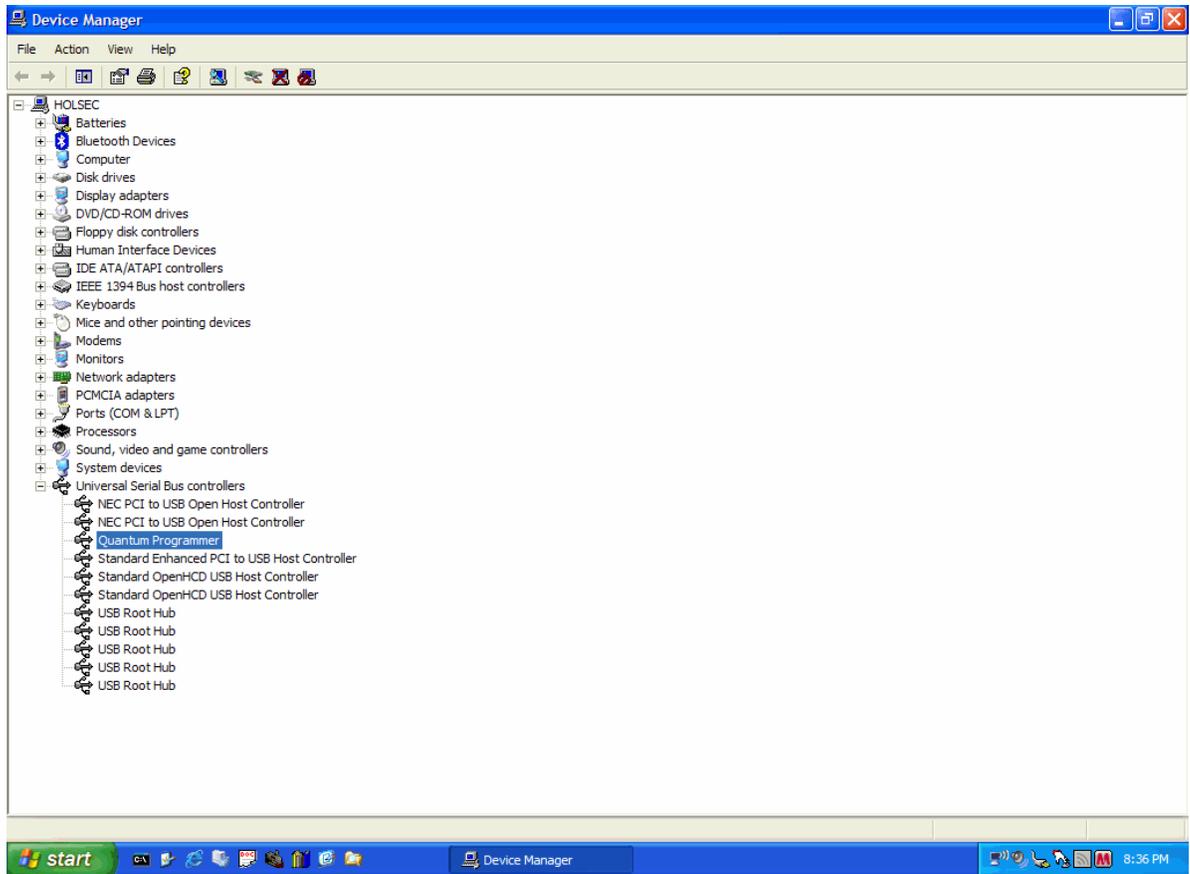


Figure 2 – Device Manager

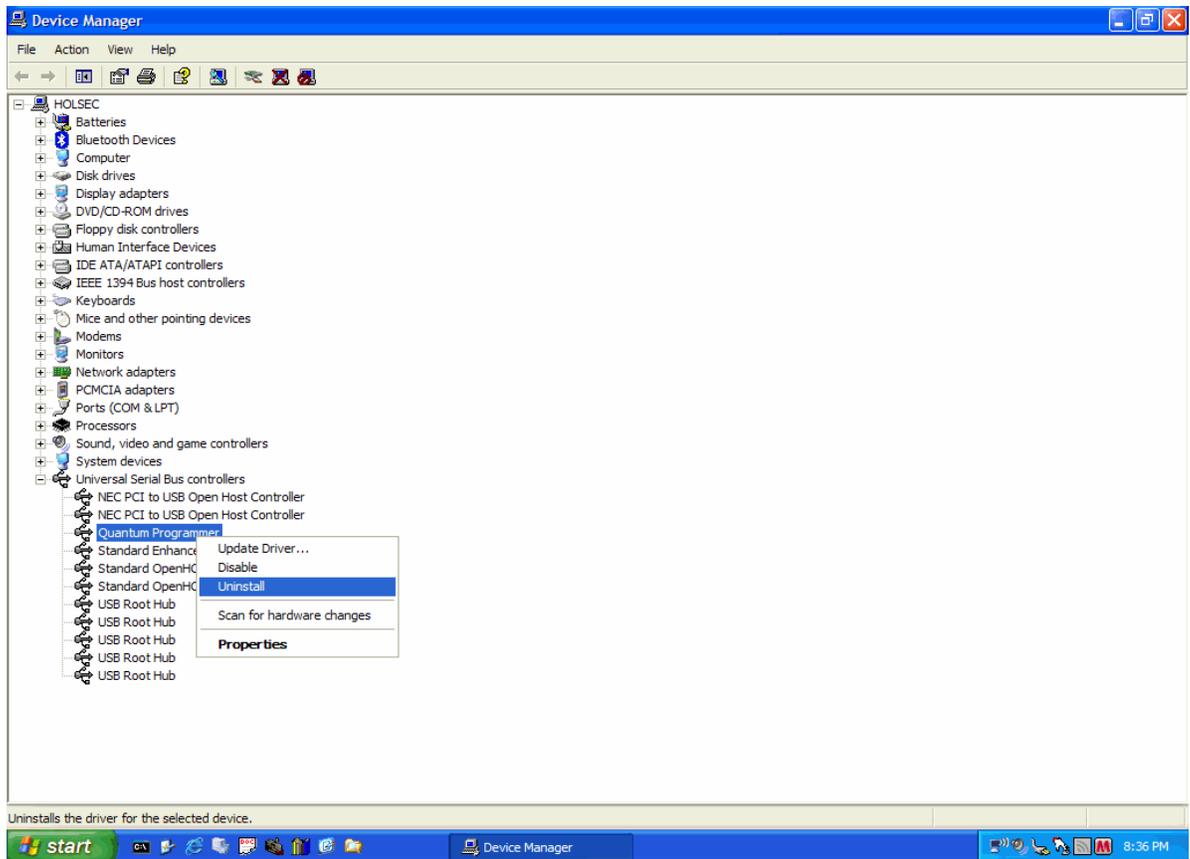


Figure 3 – Quantum Programmer after right click

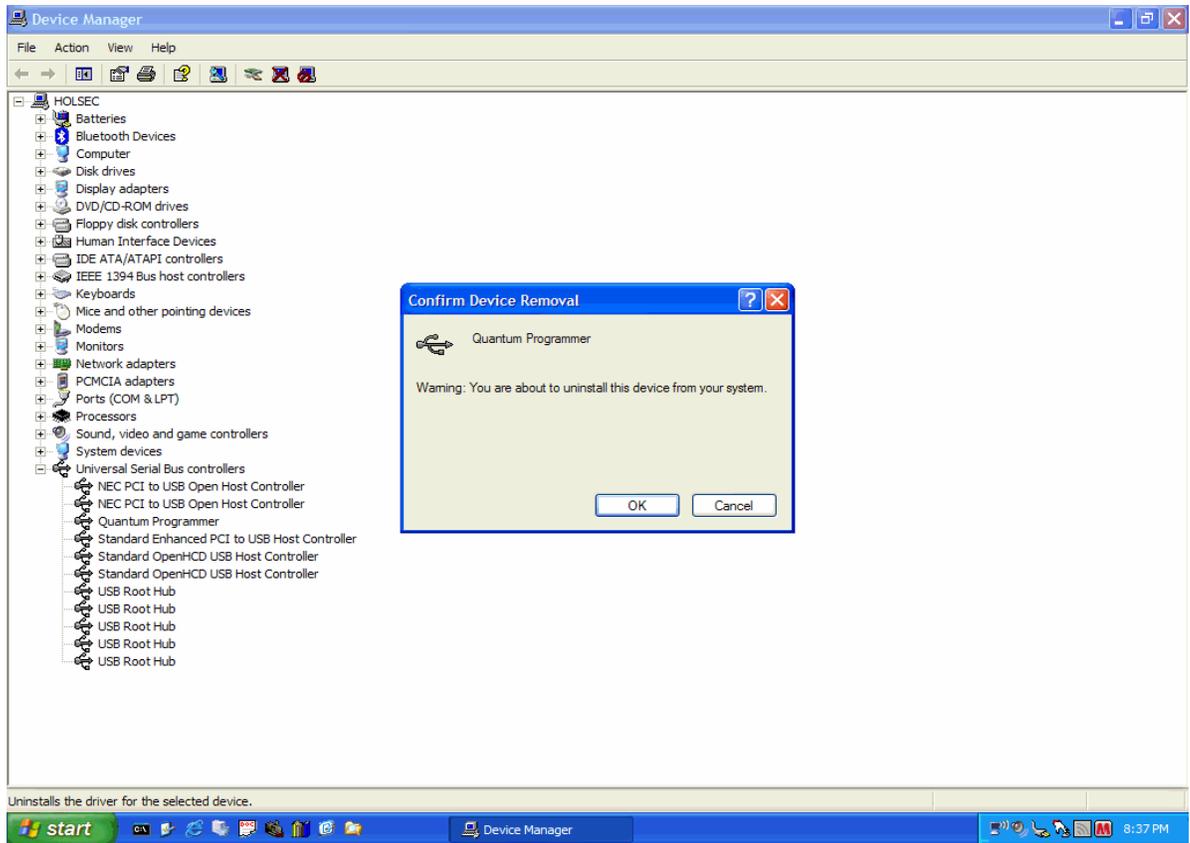


Figure 4 – Confirm Removal of Quantum Programmer

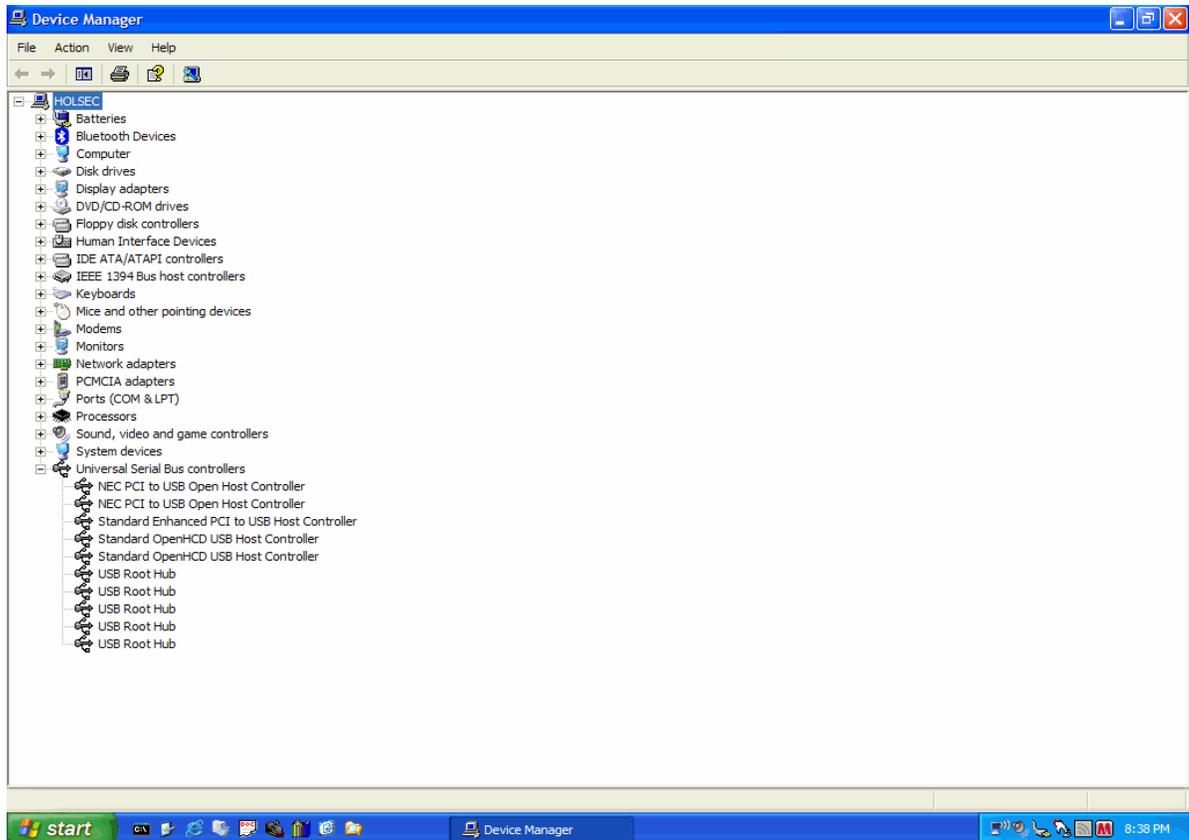


Figure 5 – Device Manager with Programmer Removed

- 2.) Download and Unzip CP210x_VCP_Win2K_XP_S2K3.zip from <http://www.silabs.com>
From the CP210x_VCP_Win2K_XP_S2K3 folder run CP210x_VCP_Win2K_XP_S2K3.exe using the default settings. Open the SiLabs folder created by the install. Expand the MCU folder, and then expand the CP210X folder. Click on the folder named Windows_2K_XP_S2K3_Vista.
In this folder is a file named slabvcp.inf.

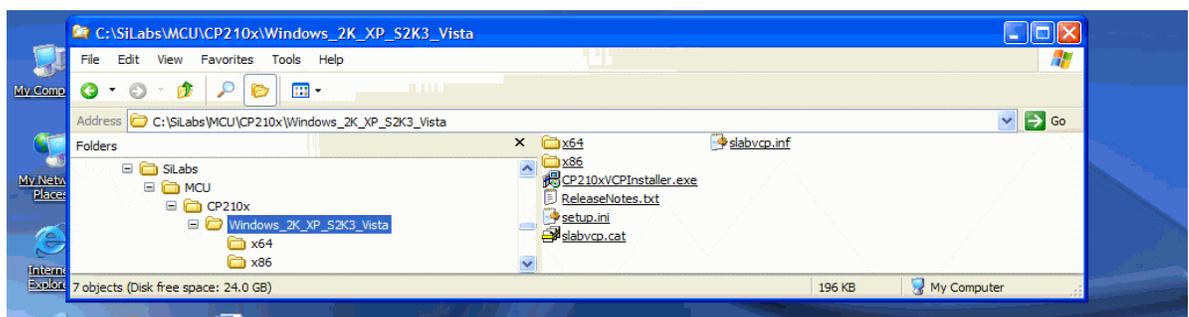


Figure 6 – Location of slabvcp.inf

Open this file with notepad. This can be done by right clicking on the file and choosing Open. Using edit / find from the menu, you can type in the Find What box: PID
You will find 5 entries with the following: PID_EA60
Change EA60 to 8208 on all five entries. All 5 instances should now look like this: PID_8208
Be careful not to change or remove any other entries that PID is part of.
Click file, save on the open notepad. Close notepad.
This change will allow the VCP drivers to see the SiLabs Chip inside of the Programmer.
(A copy of this file can be downloaded from the location you got these instructions from. If you use this file, replace the original slabvcp.inf with this version)

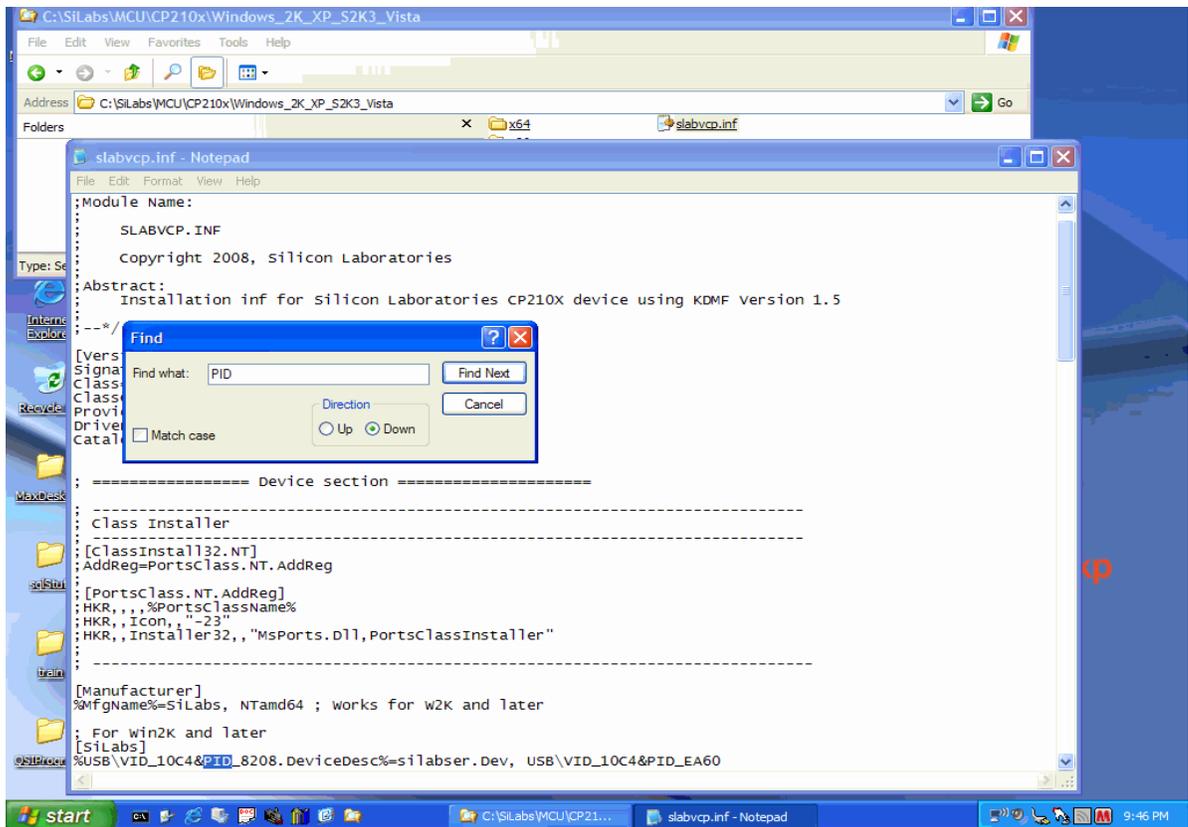


Figure 7 – Modification of slabvcp.inf

- 3.) Execute CP210xVCPInstaller.exe from the same folder that slabvcp.inf is in. Use the default settings and click install from the CP210X USB to UART Bridge Driver install Window. Choose "Continue Anyway" button, IF you get the Windows Driver Warning "...has not passed the Hardware Compatibility Logo Testing".

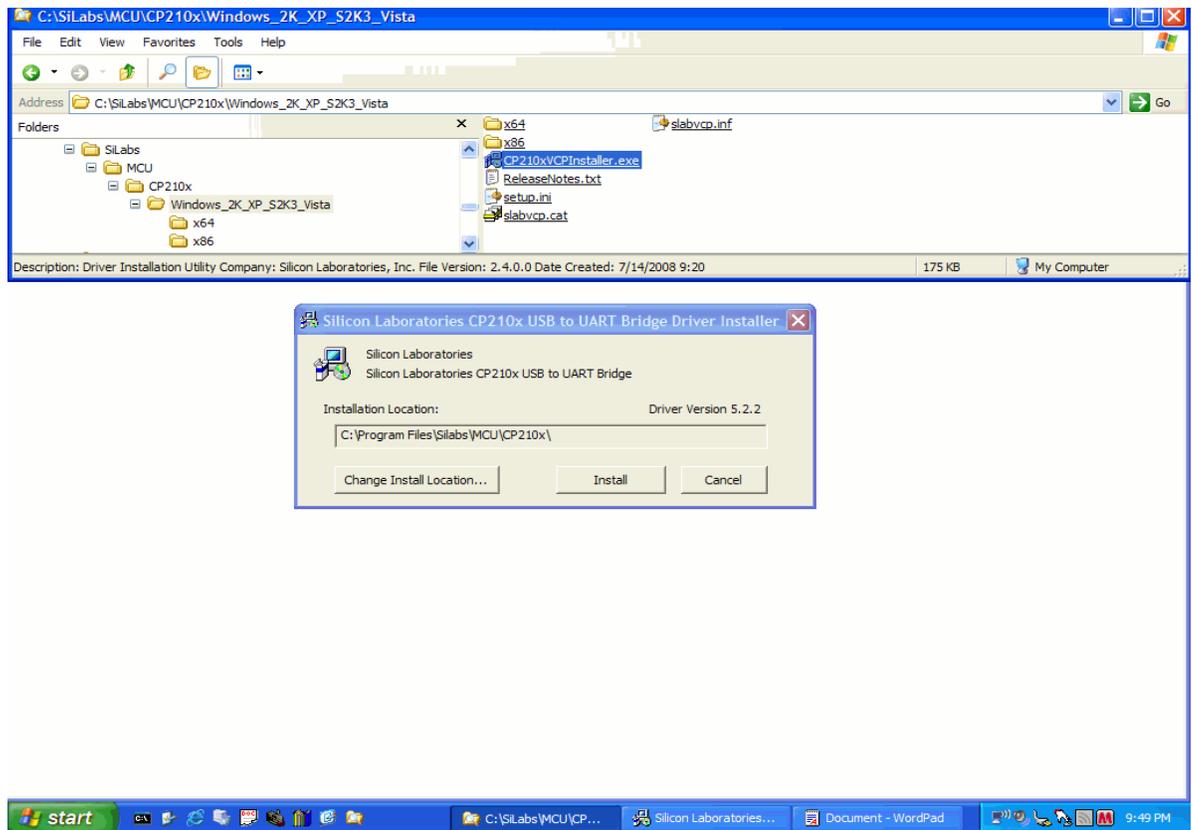


Figure 8 – CP210X Installer

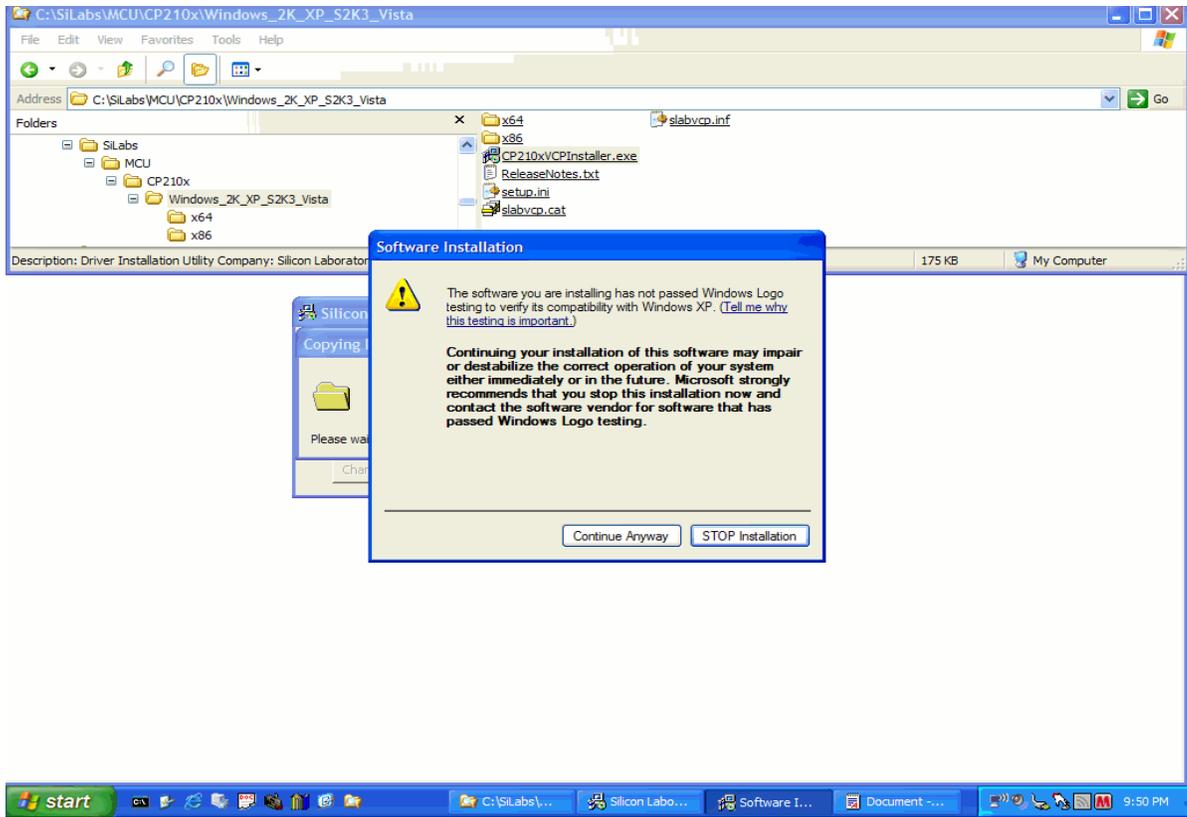


Figure 9 – Windows Logo Warning

- 4.) The Virtual Com Port will NOT show up in the device manager until you plug in the QSI Programmer and configure it to use the SiLabs VCP Drivers.

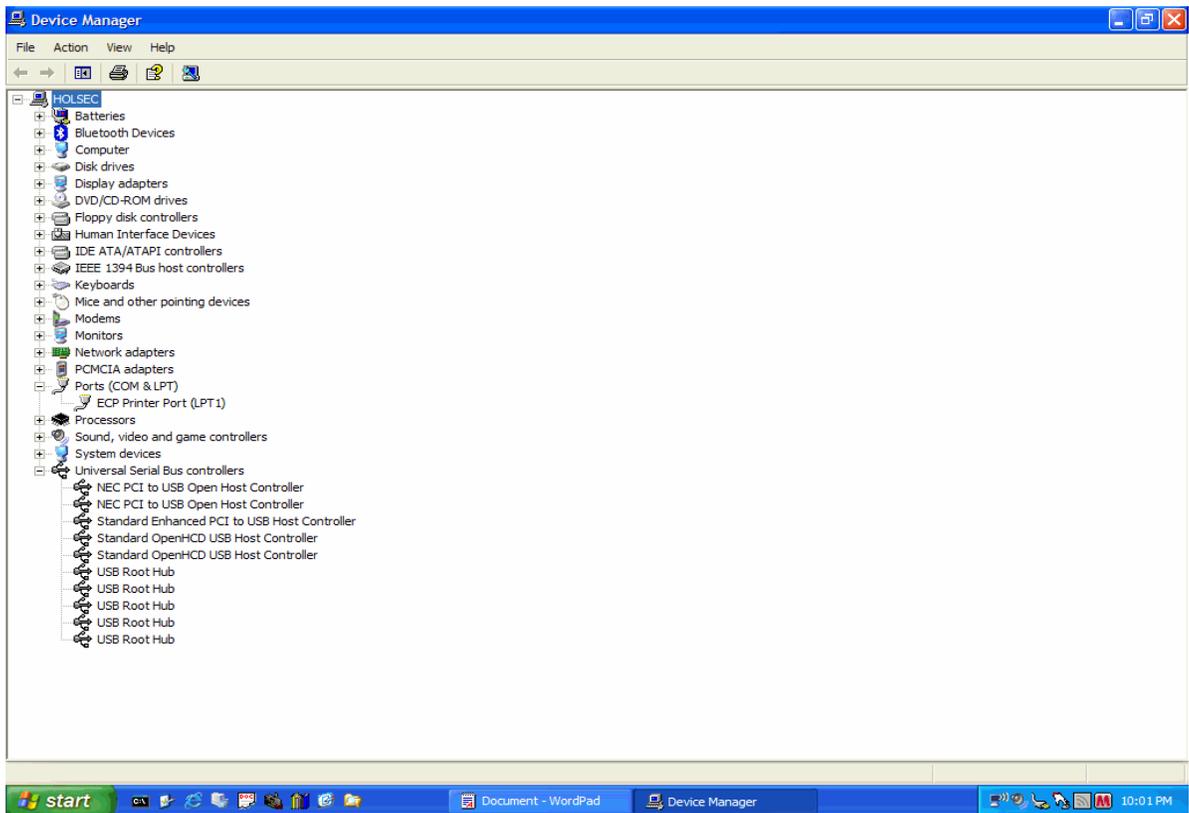


Figure 10 – Device Manager with Quantum Programmer Removed

With the Power Cable connected and powering the QSI Programmer, plug it in to the USB port of your computer.
The "Found New Hardware Window" should open, if you have successfully removed all of the USBXpress Drivers.
Choose "NO" to search Update Site for Drivers. Then Click Next.

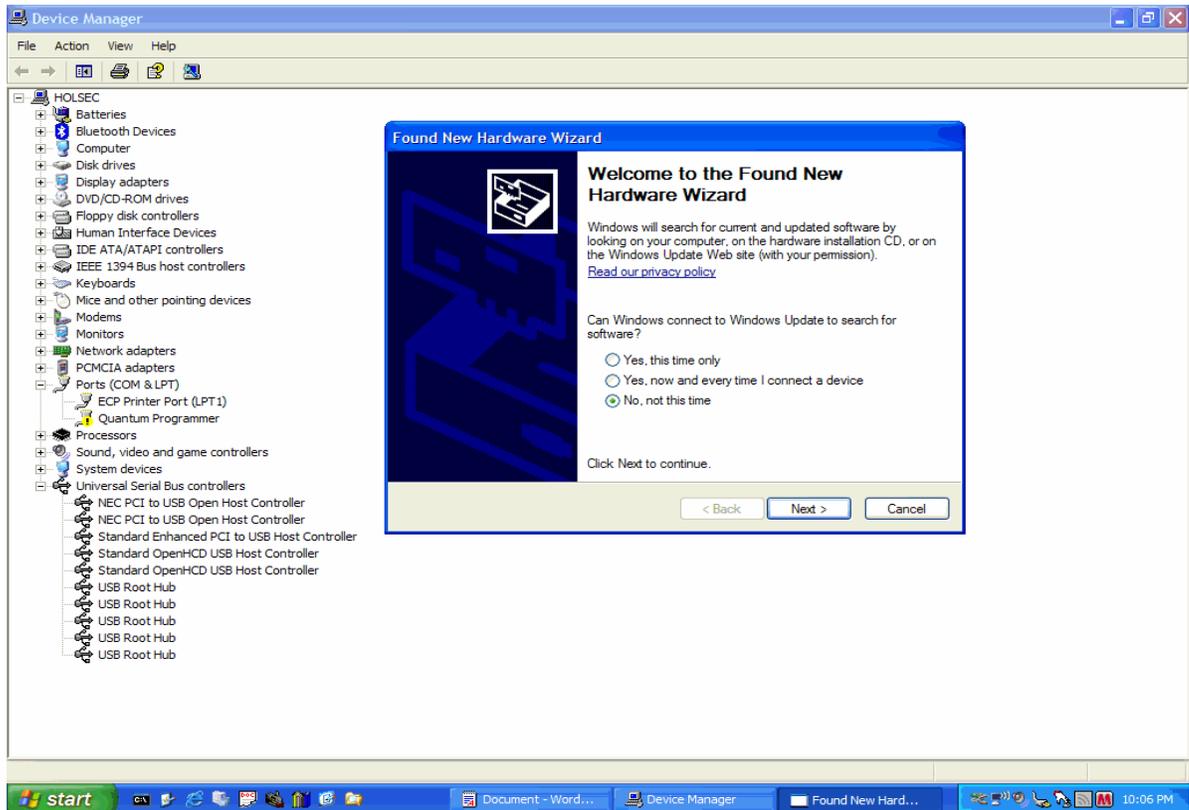


Figure 11 – New Hardware Found

Choose the default "Install Software Automatically"(recommended) setting and click Next. Choose Continue Anyway Button if you get the Windows Driver Warning "...has not passed the Hardware Compatibility Logo Testing". Drivers will finish installing. Choose Finish when drivers are installed. You might get an information "balloon" from the notification area, by the clock that the Hardware is installed and ready to use.

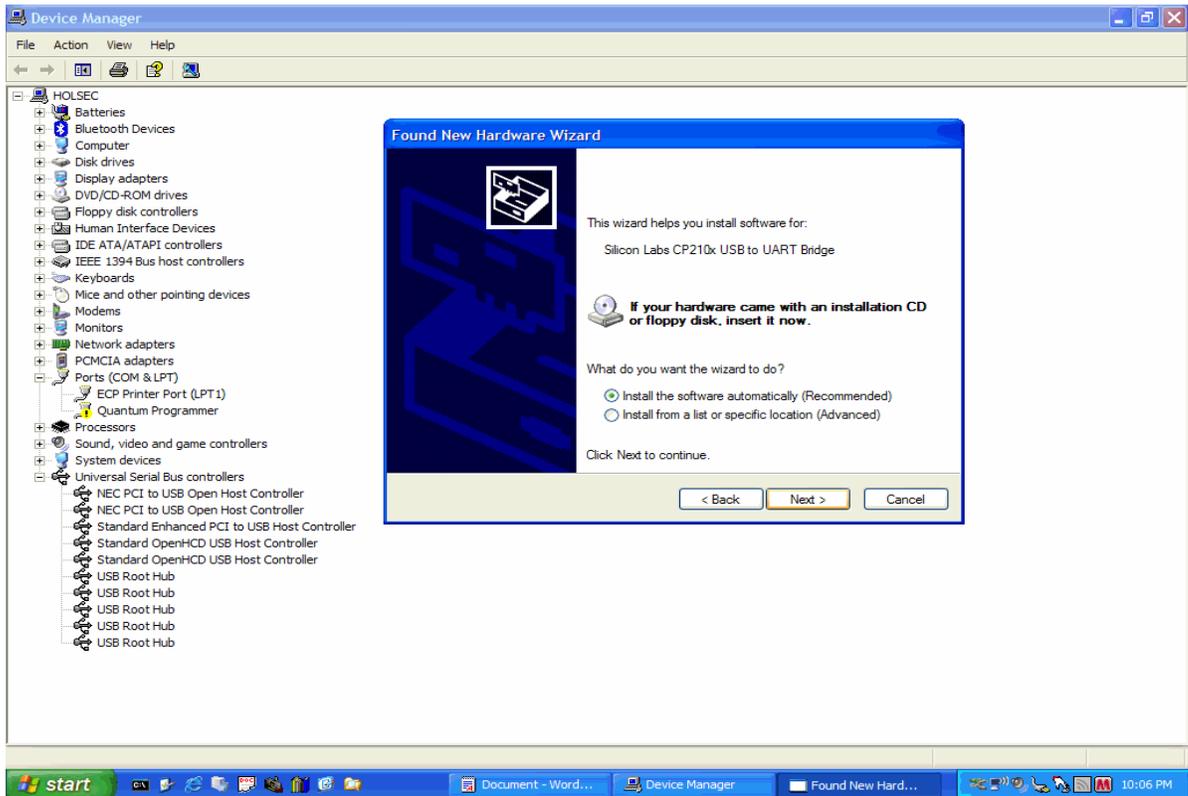


Figure 12 – Hardware Wizard set to Automatically Install

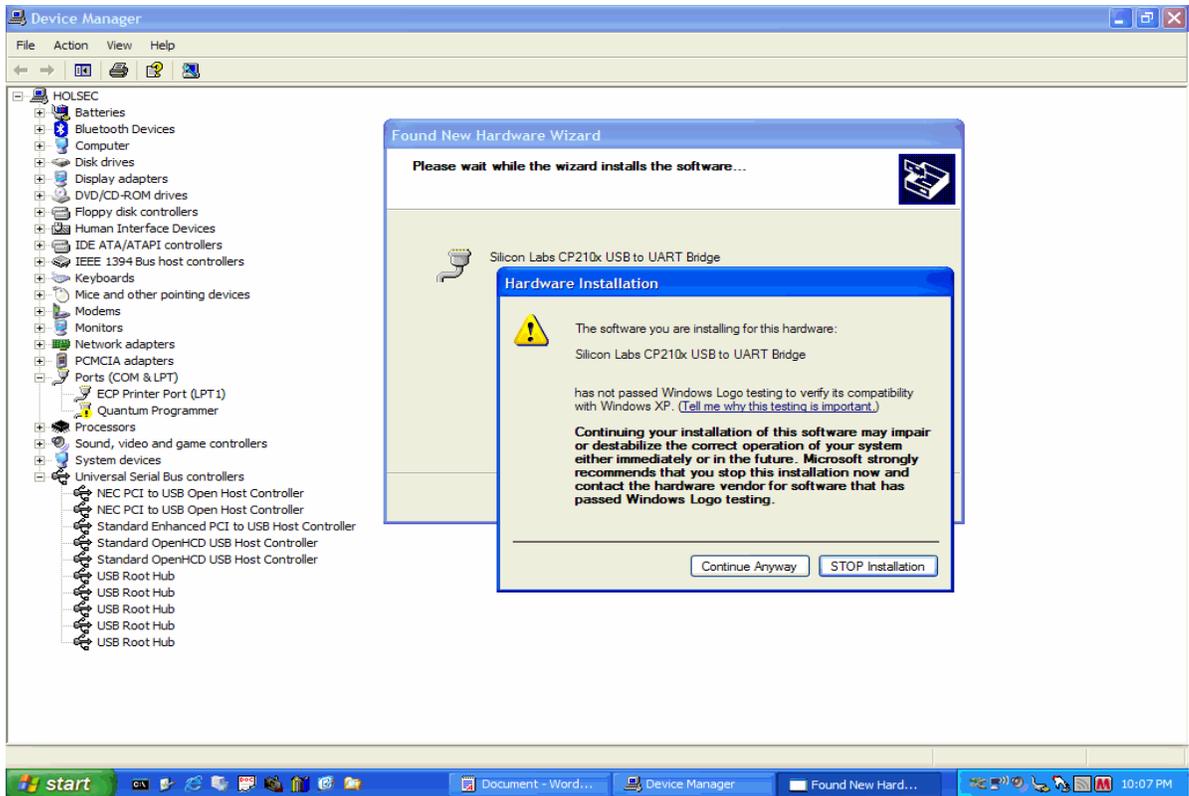


Figure 13 – Windows Logo Warning

- 5.) Open Device Manager and confirm that the SiLabs Virtual Com Port is installed in the ports section. The driver will assume the first available Com Port. (Normally 2 or 3) (On this test machine it found Port 8 as the first Available.) What Ever port is found should show up in the Preferences Window of the JMRI Decoder Pro.

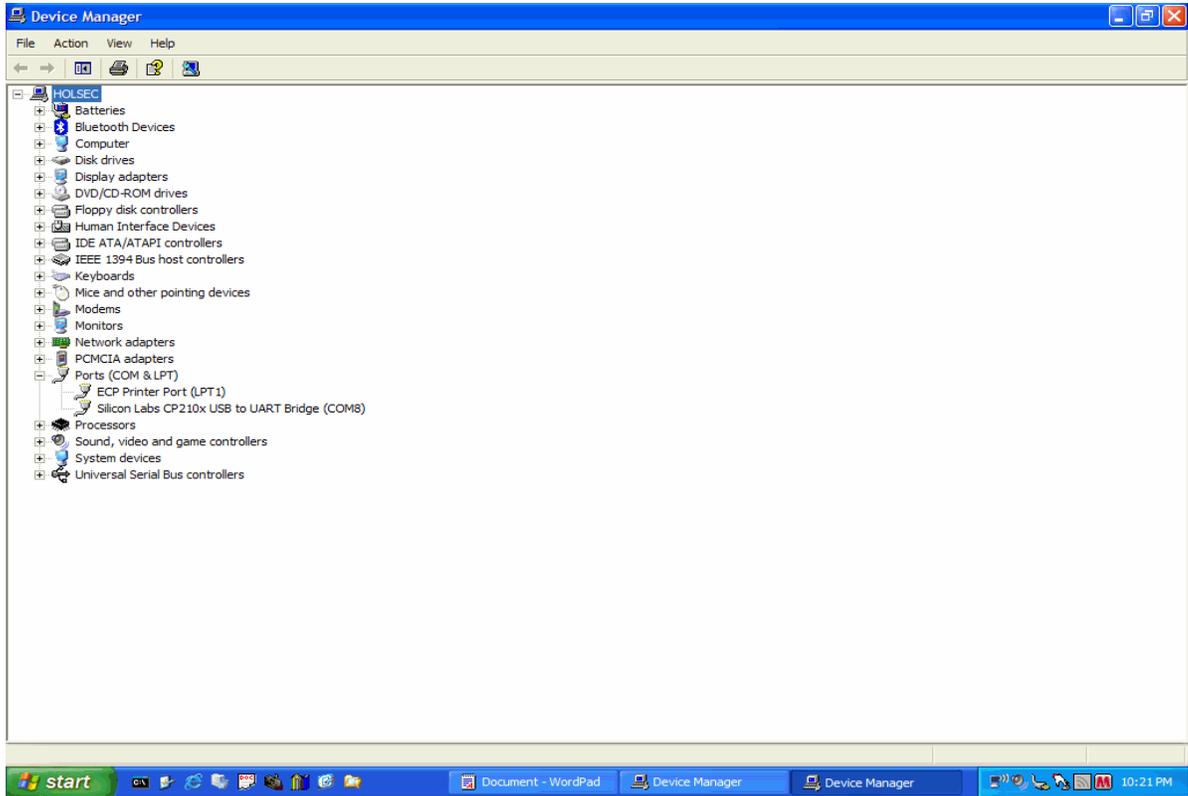


Figure 14 – SiLabs Virtual Com Port (note port number)

(You can change the port by using the Advanced Button on the Ports Tab available from the properties window of the VCP. Make sure not to choose a Com Port already in use.)

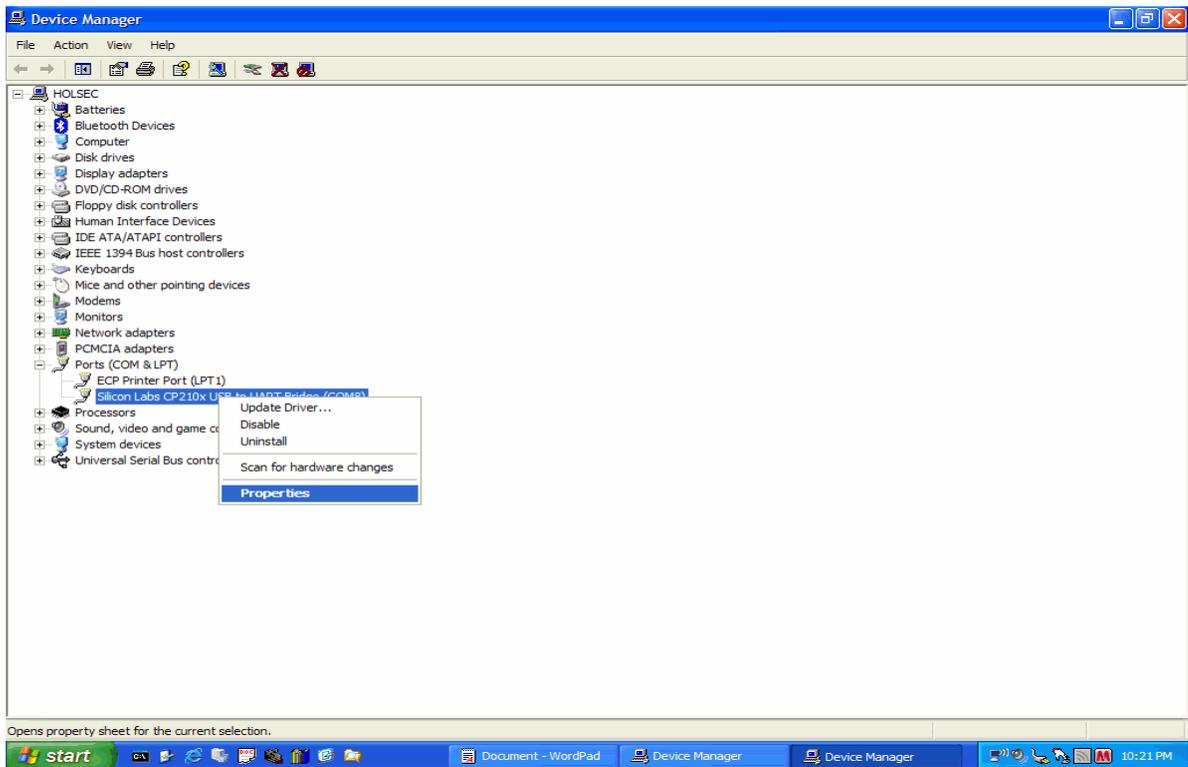


Figure 15 – Right Click Menu on the Virtual Port

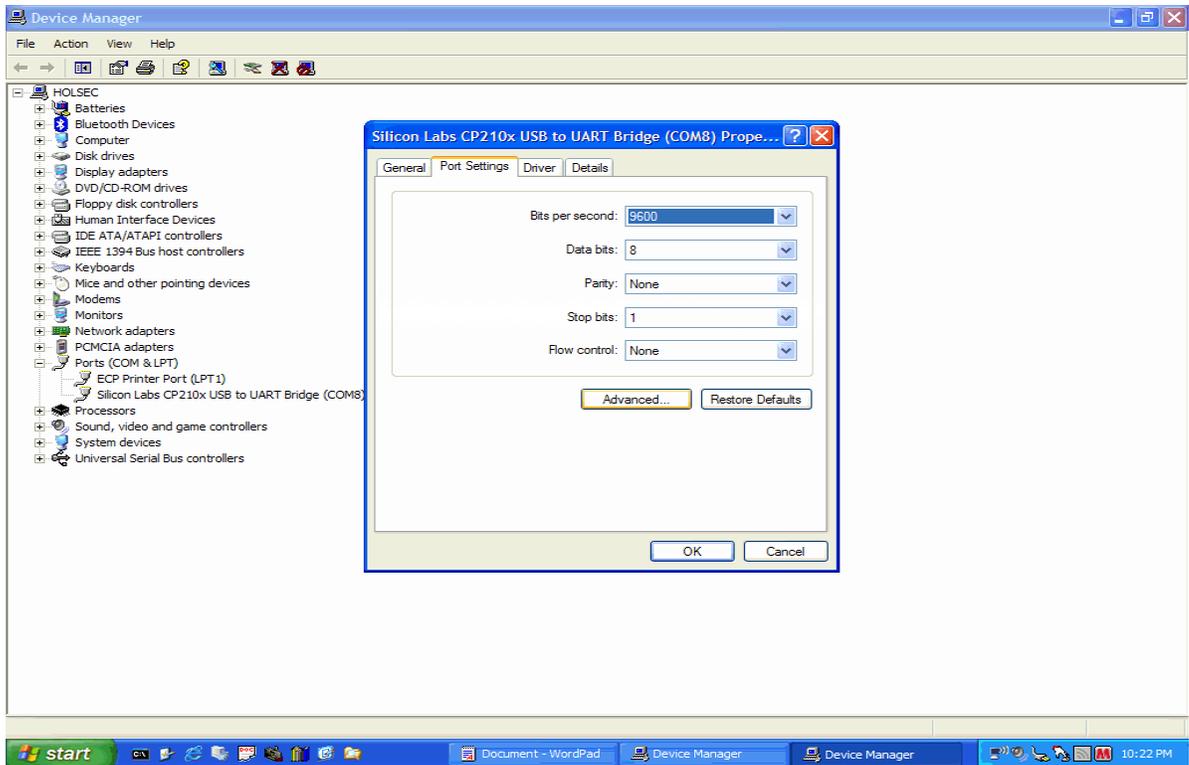


Figure 16 - Virtual Com Port Options for Port Settings

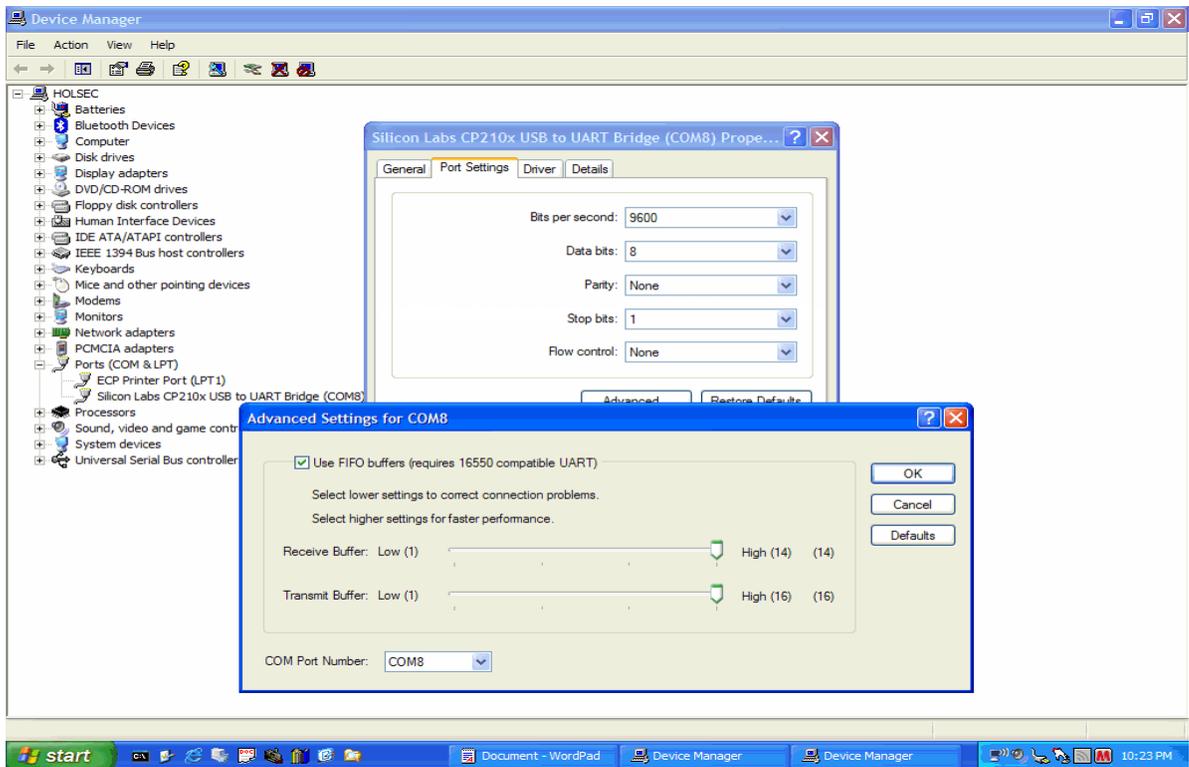


Figure 17 – Advanced Settings for Virtual Port

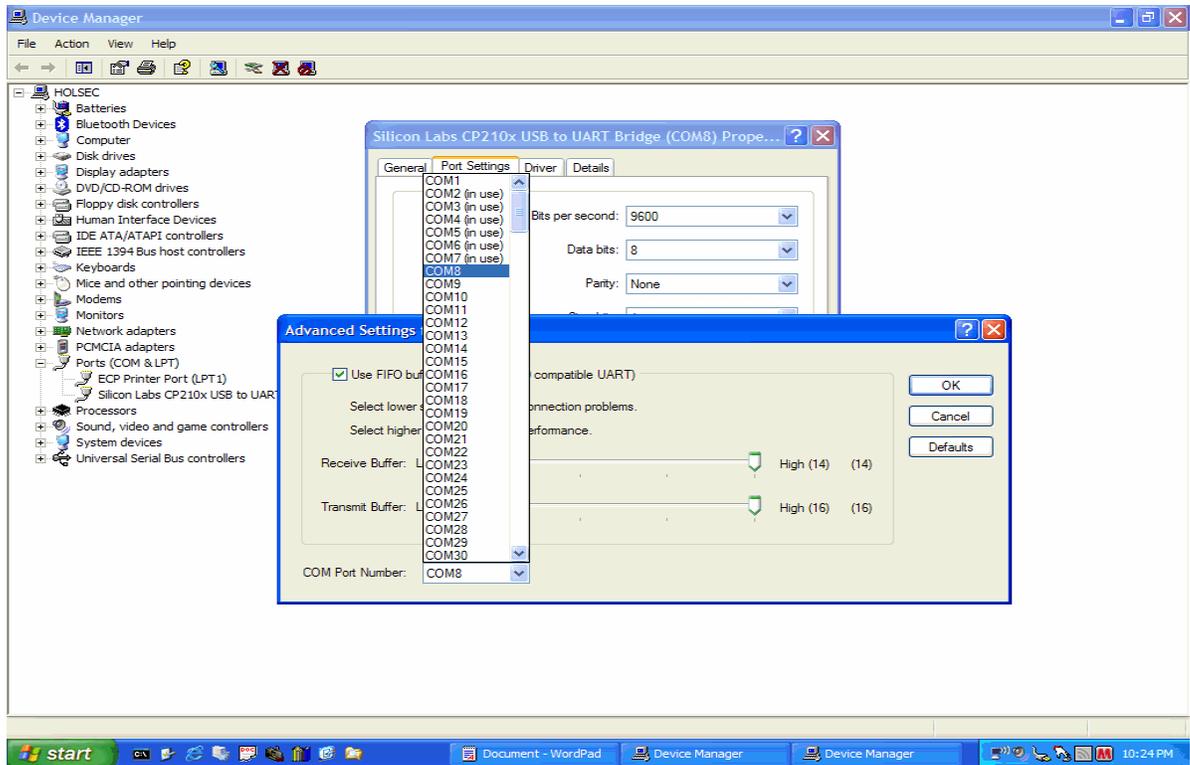


Figure 18 – Com Port Settings

- 6.) Using the preferences option of JMRI Decoder Pro, choose QSI Programmer and the Com Port that the VCP is using.

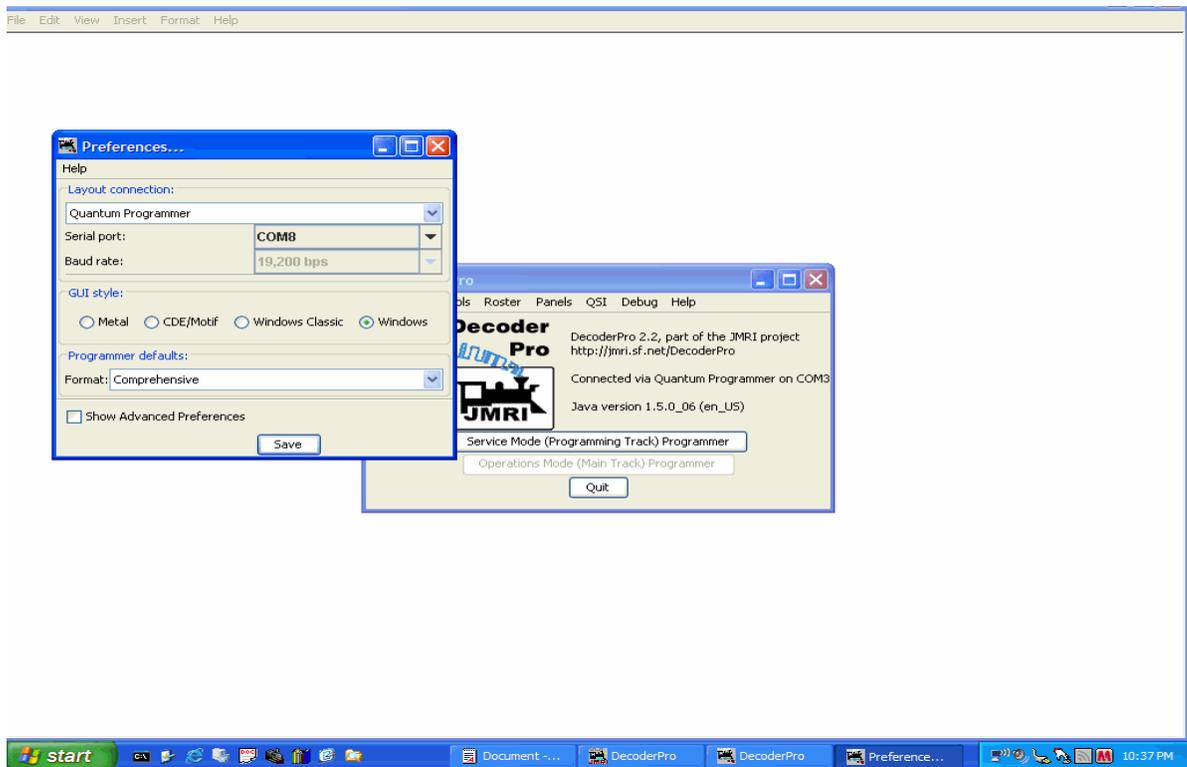


Figure 19 – Decoder Pro Preferences with QSI chosen

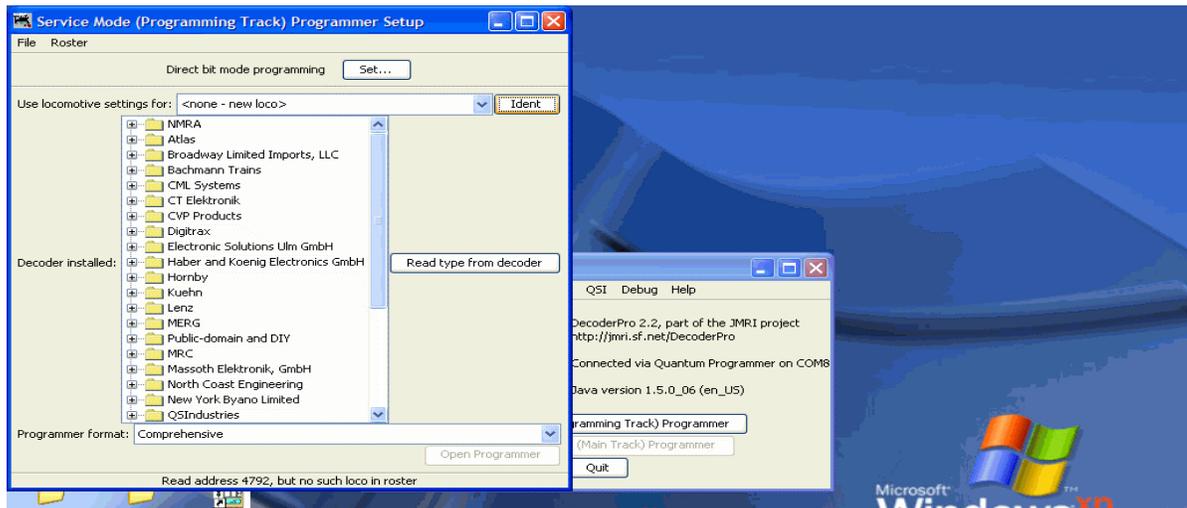


Figure 20 – Reading Loco Address from QSI version 7 Chip

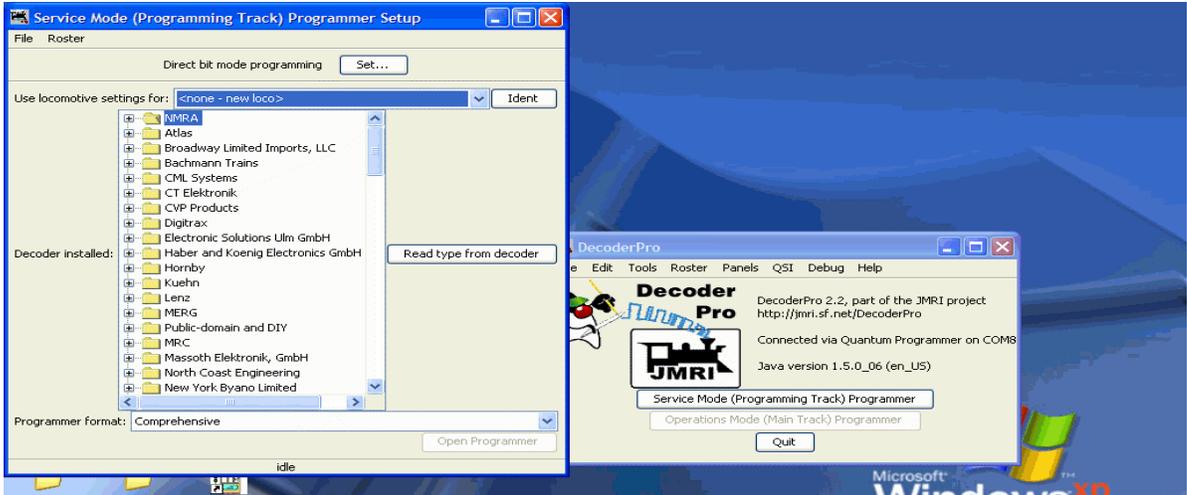


Figure 21 – Idle before Read to Locate Loco in Roster

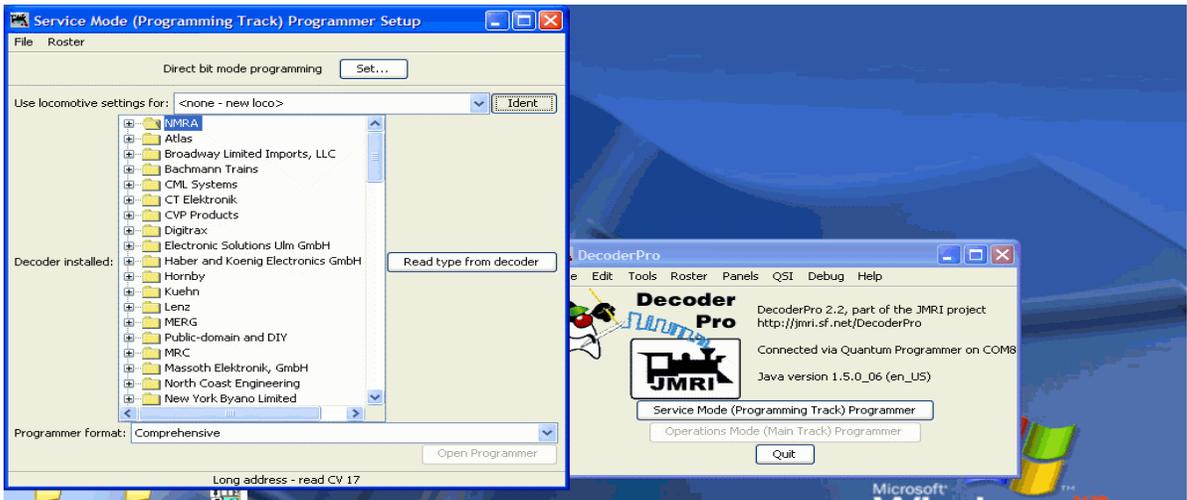


Figure 22 – Reading Loco and searching Roster

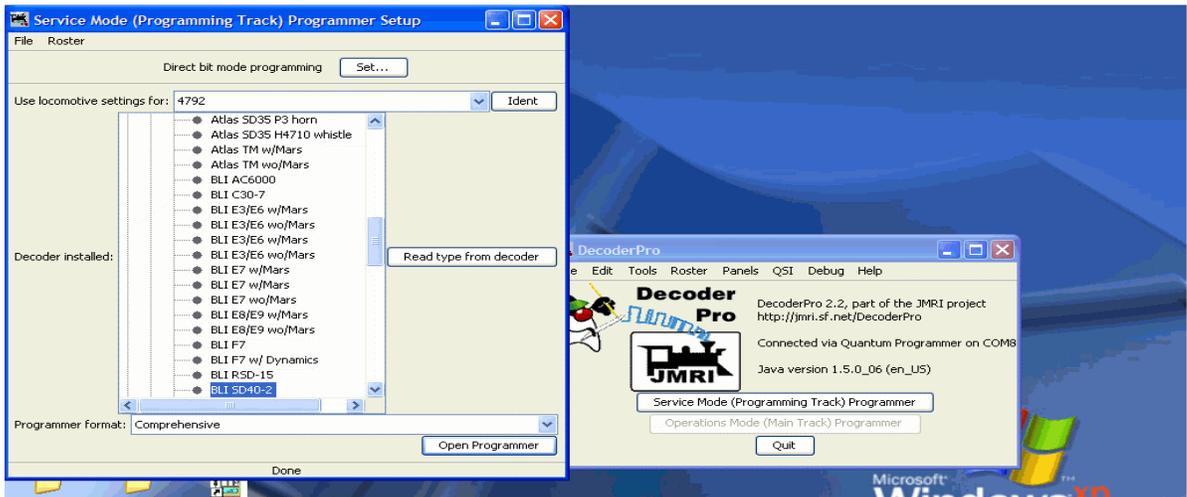


Figure 23 – Loco found in Roster and Identified

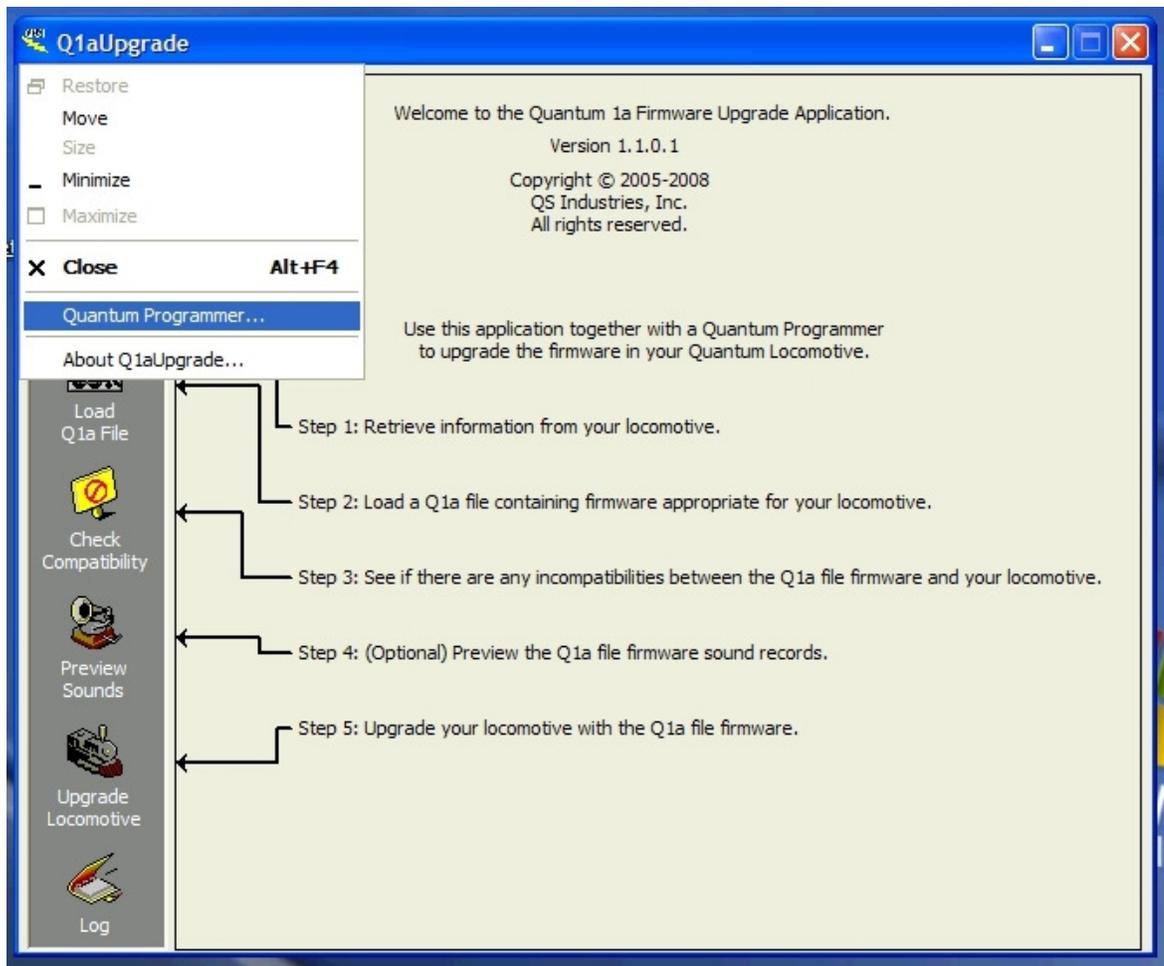


Figure 24 - Choose Menu from Icon at top left corner

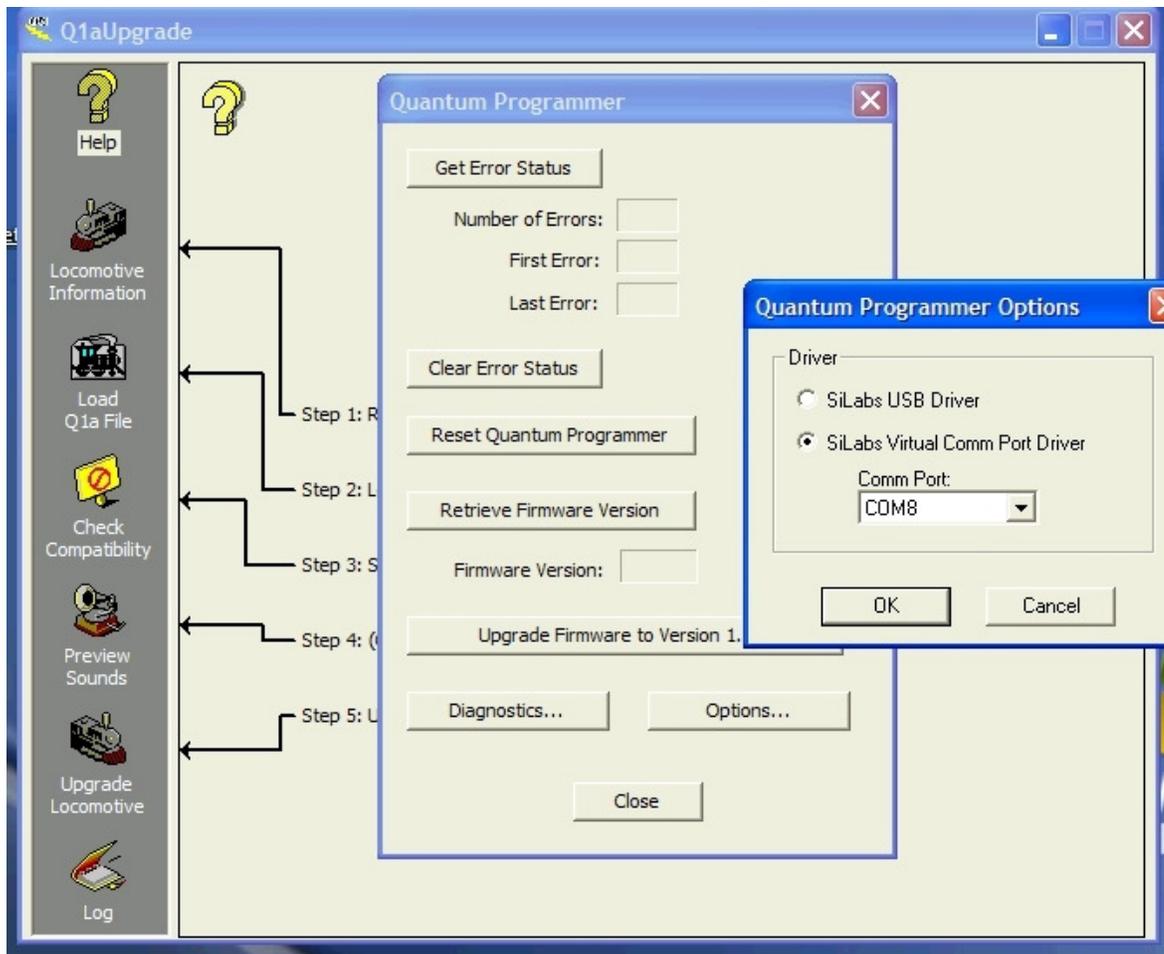


Figure 25 - After clicking Quantum Programmer, choose option button and configure choice of VCP Driver and Port Number

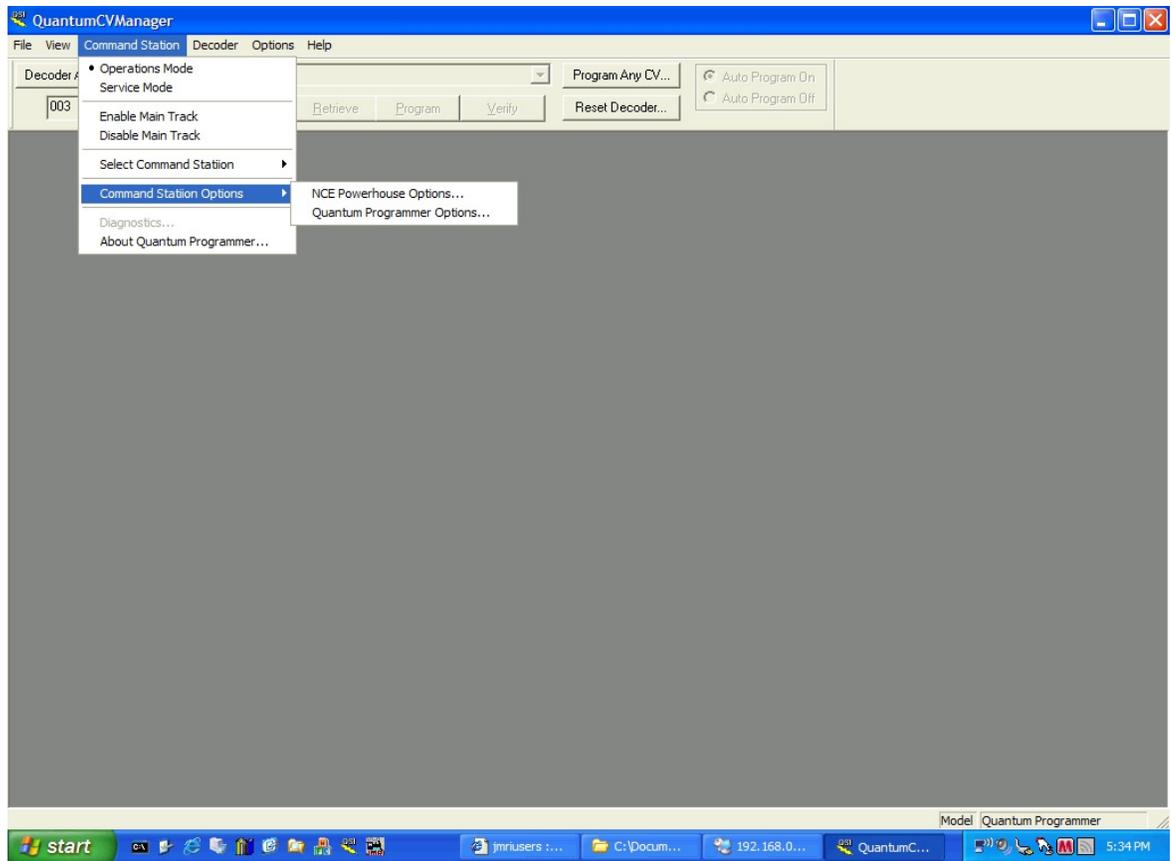


Figure 26 - Choose Command Station, Command Station Options then Choose Quantum Programmer Options

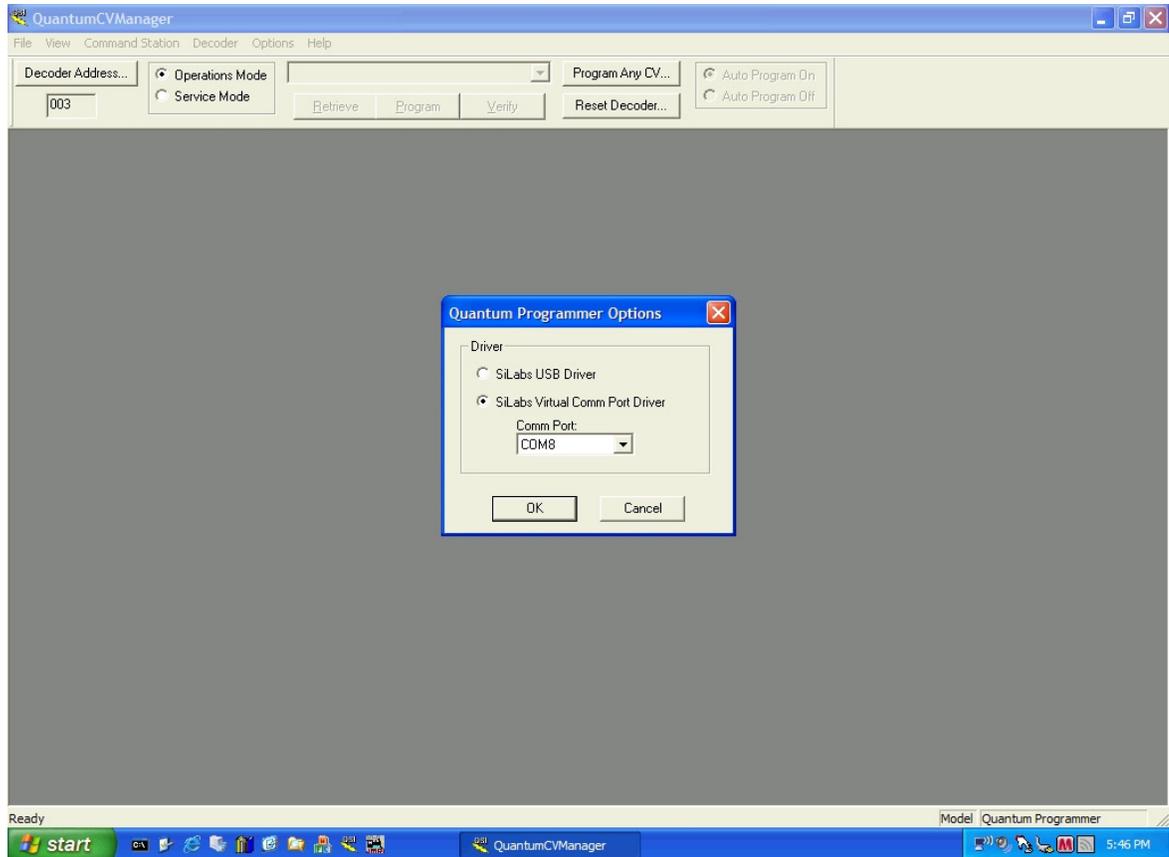


Figure 27 - Configure Choice of Virtual Driver and Port Number

[Download JMRI Decoder Pro Version 2.2 Here](http://jmri.sourceforge.net)
<http://jmri.sourceforge.net>

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