

StreamPunch Pro Firmware Update Procedure

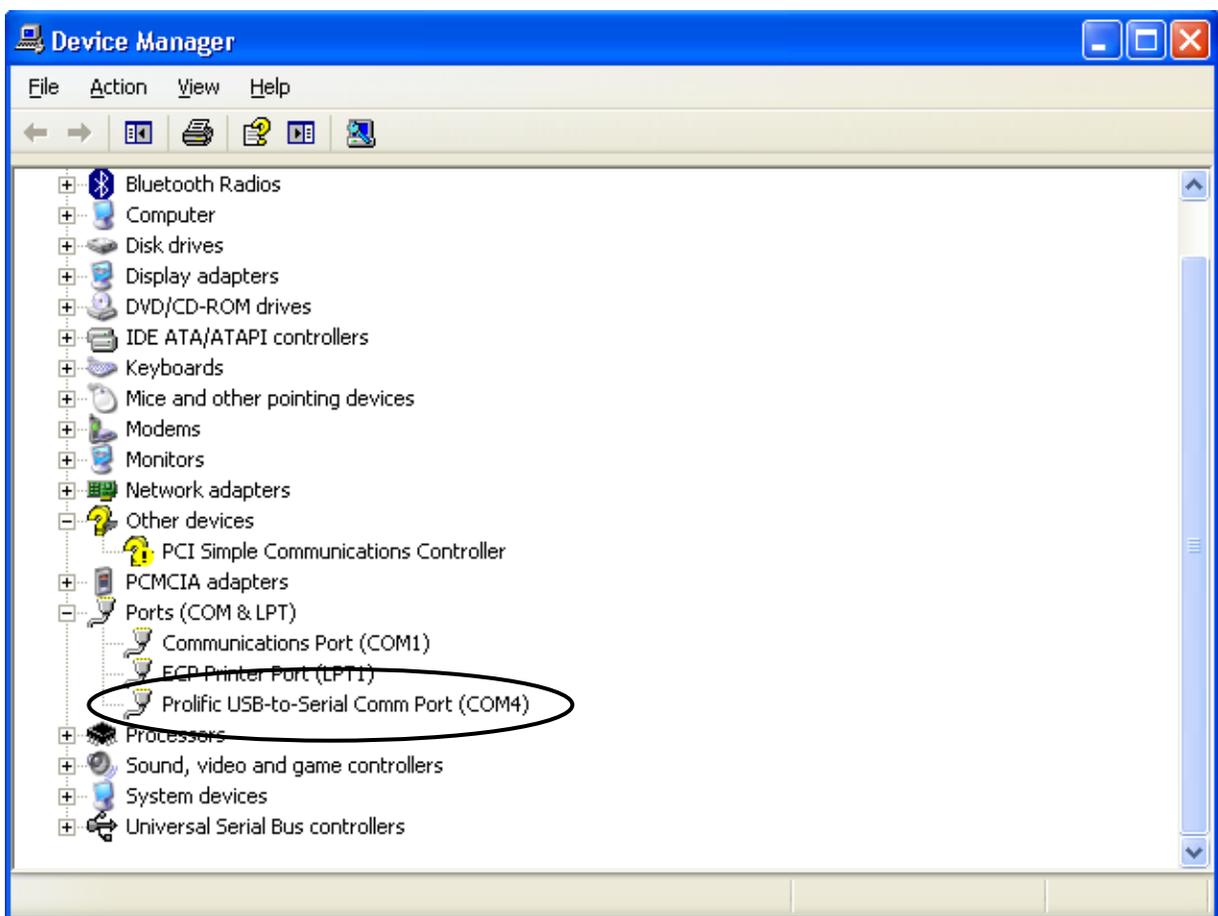
Tools Required*:

1. USB to DB9 Serial Port Adapter cable.
2. DB9 female to DB9 female null modem crossover cable.
3. PC with USB port and HyperTerminal or Tera Term (v3.1.3 or later) software.
4. New firmware for installation.

* Items 1 & 2 can be obtained as a kit from the StreamPunch Pro parts catalog.

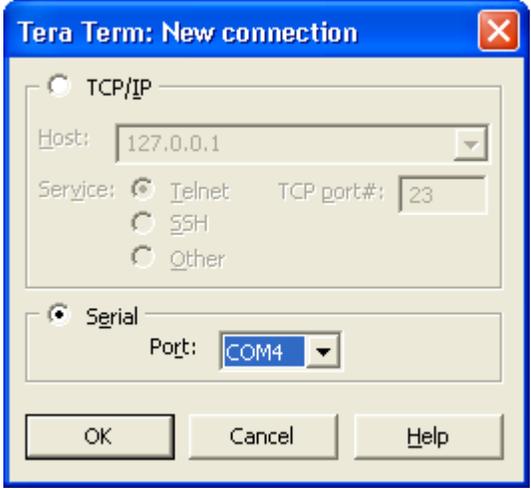
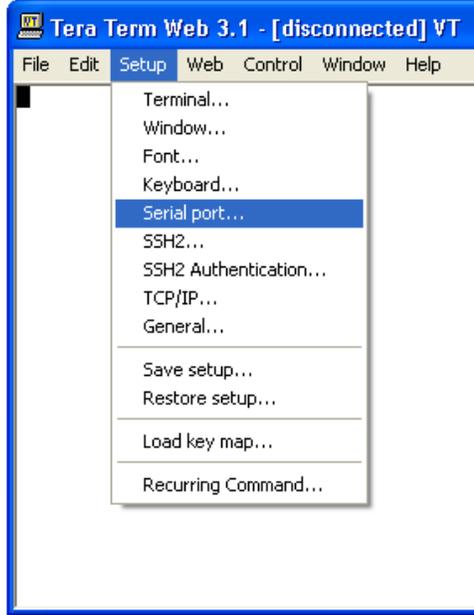
Upgrade Procedure:

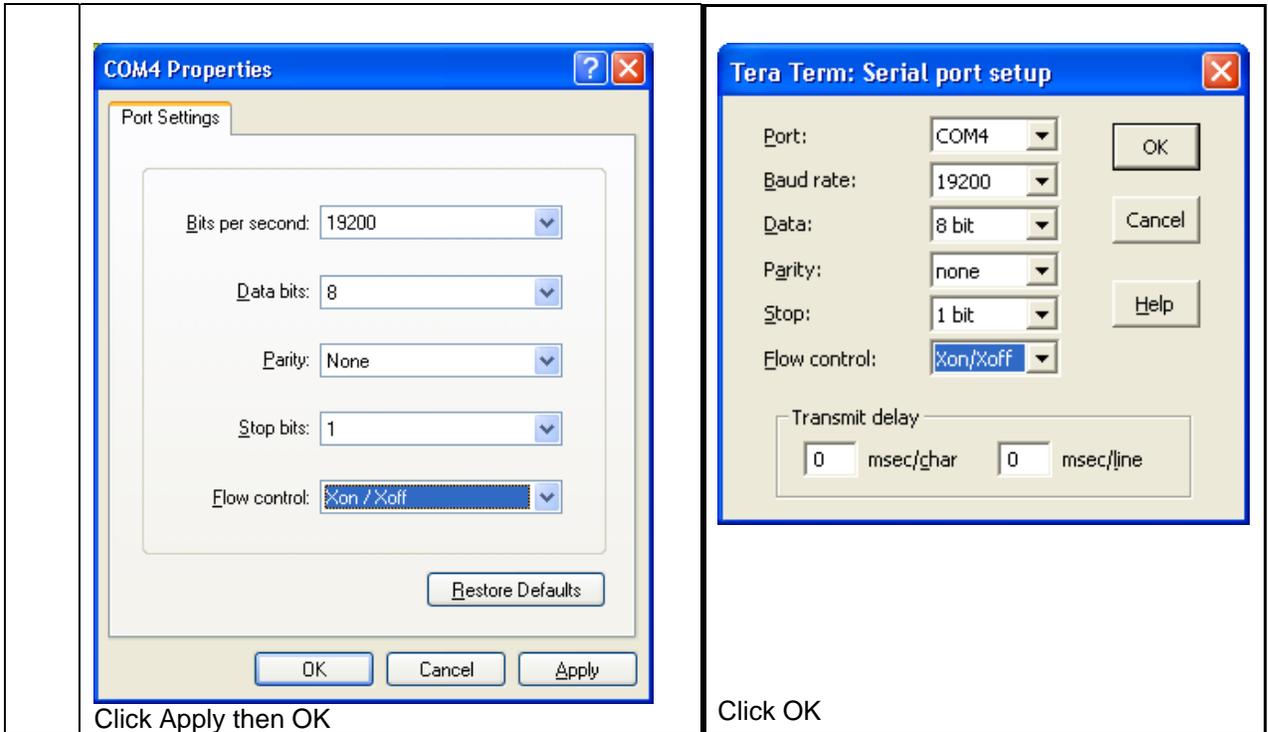
- 1) Attach the male end of the 'USB to DB9 Serial Adapter' to one end of the null modem cable.
- 2) Connect the USB adapter to the computer and after installing the USB adapter driver software, open the windows Device Manager tab on your system as shown below. Expand the Ports (COM & LPT) settings to determine which COM port the USB to Serial Port Adapter is using and make a note of it.



- 3) Ensure the StreamPunch Pro is powered off.
- 4) Remove the plastic cover from the 9 pin connector on the back of the StreamPunch Pro and connect the other end of the null modem cable to this 9 pin connector.
- 5) Turn on the StreamPunch Pro.
- 6) Launch Windows Application **Hyper Terminal** or **Tera Term**. Hyper Terminal is typically accessed through Programs>Accessories>Communications>HyperTerminal and is pre-installed on Windows 95/98, NT, 2000 and XP. Tera Term is a free emulation client that works on Windows 95/98, 2000, 2003, XP, Vista & 7. Use version 3.1.3 or later, which can be downloaded from <http://www.ayera.com/teraterm/>.

Follow the steps below depending on the application used.

	HyperTerminal	Tera Term																				
7)	<p>When the following screen appears, input any name in the Name Box, choose the default icon (Red and Yellow Telephone) and click OK.</p> 	<p>When the following screen appears select the Serial radio button and change the port to the one noted in step 2).</p> 																				
8)	<p>When the following screen appears change the port to the one noted in step 2).</p> 	<p>When the following screen appears, select Serial Port from the Setup menu.</p> 																				
9)	<p>Change to the following settings:</p> <table border="0"> <tr> <td>Bits per second</td> <td>19200</td> </tr> <tr> <td>Data Bits</td> <td>8</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> <tr> <td>Flow Control</td> <td>Xon / Xoff</td> </tr> </table>	Bits per second	19200	Data Bits	8	Parity	None	Stop Bits	1	Flow Control	Xon / Xoff	<p>Change to the following settings:</p> <table border="0"> <tr> <td>Bits per second</td> <td>19200</td> </tr> <tr> <td>Data Bits</td> <td>8</td> </tr> <tr> <td>Parity</td> <td>None</td> </tr> <tr> <td>Stop Bits</td> <td>1</td> </tr> <tr> <td>Flow Control</td> <td>Xon / Xoff</td> </tr> </table>	Bits per second	19200	Data Bits	8	Parity	None	Stop Bits	1	Flow Control	Xon / Xoff
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10) After pressing <ENTER> the following text should appear in the session window:

```

Bootloader Ver.: A1
Begin downloading .hex file or enter a command listed below in <>:
<G> execute the new downloaded code or display code <V>ersion
BOOTLOADER>

```

	HyperTerminal	Tera Term
11)	<p>Uploading firmware:</p> <p>a) From the Hyper Terminal Task bar select: Transfer>Send Text File.</p> <p>b) Navigate to the folder that contains the file to boot load. Typing *.hex in file box will list the hex files in that folder.</p> <p>c) Select the appropriate StreamPunch Pro firmware file named *_Boot.hex</p>	<p>Uploading firmware:</p> <p>a) From the Tera Term menu select: File>Send File.</p> <p>b) Navigate to the folder that contains the file to boot load. Typing *.hex in file box will list the hex files in that folder.</p> <p>c) Select the appropriate StreamPunch Pro firmware file named *_Boot.hex</p>
12)	<p>Once the Open button is selected, the HyperTerminal screen will start to upload the latest firmware version.</p> <pre> BOOTLOADER> Downloading .. 0xF00000← </pre> <p>This number increments during upload</p>	<p>Once the Open button is selected, the screen below will appear and the Bytes transferred number will increment as the latest version firmware uploads.</p>

13) Once complete the screen will show the following.

```
Successful download of StreamPunch Professional  
Ver.: 01.01  
Begin downloading .hex file or enter a command listed below in <>:  
<G>o execute the new downloaded code or display code <V>ersion  
BOOTLOADER>
```

14) Press "V" (Upper Case) to verify the firmware version number.

```
BOOTLOADER>V  
StreamPunch Professional  
Ver.: 01.01  
BOOTLOADER>
```

15) Once the upgraded version has been verified, shut off the StreamPunch Pro, disconnect the Null Modem cable, and turn on the StreamPunch Pro.