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 & LPT1) settings to determine which COM port the USB to Serial Port Adapter is using and make a note of it.

🖳 Device Manager	
<u>File Action View Help</u>	
Bluetooth Radios Computer Source Disk drives Display adapters DVD/CD-ROM drives DVD/CD-ROM d	
Communications Port (COM1) Communications Port (COM1) Prolific USB-to-Serial Comm Port (COM4) Characteristics Characteri	
 Processors Sound, video and game controllers System devices Universal Serial Bus controllers 	>

- 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 <u>http://www.ayera.com/teraterm/</u>.

Follow the steps below depending on the application used.

	HyperTerminal	Tera Term
7)	When the following screen appears, input any name in the Name Box, choose the default icon (Red and Yellow Telephone) and click OK.	When the following screen appears select the Serial radio button and change the port to the one noted in step 2).
	Connection Description Image: New Connection Enter a name and choose an icon for the connection: Name: StreamPunch Pro Icon: Icon:<	Tera Term: New connection TCP/IP Host: 127.0.0.1 Service: Telnet TCP port#: 23 SSH Other Service: Telnet TCP port#: 23 SSH Other Serial Port: COM4 Melp
	to the one noted in step 2). Connect To StreamPunchPro Enter details for the phone number that you want to dial: Country/region: United States (1) Area code: 555 Phone number: Connect using: COM1 OK Cancel	Serial Port from the Setup menu.
9)	Change to the following settings: Bits per second 19200 Data Bits 8 Parity None Stop Bits 1 Elow Control Xon / Xoff	Change to the following settings: Bits per second 19200 Data Bits 8 Parity None Stop Bits 1 Elow Control Xon / Xoff

COM4 Properties	Tera Term: Serial port setup
Port Settings Bits per second: 19200 Data bits: 8 Parity: None Stop bits: 1 Elow control: Xon / Xoff Restore Defaults OK Click Apply then OK	Port: COM4 Baud rate: 19200 Data: 8 bit Parity: none Stop: 1 bit Flow control: Xon/Xoff Transmit delay 0 msec/ghar 0 msec/line

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>o execute the new downloaded code or display code <V>ersion
BOOTLOADER>
```

	HyperTerminal	Tera Term
11)	 Uploading firmware: a) From the Hyper Terminal Task bar select: Transfer>Send Text File. 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. c) Select the appropriate StreamPunch Pro firmware file named *_Boot.hex 	 Uploading firmware: a) From the Tera Term menu select: File>Send File. 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. c) Select the appropriate StreamPunch Pro firmware file named *_Boot.hex
12)	Once the Open button is selected, the HyperTerminal screen will start to upload the latest firmware version. BOOTLOADER> Downloading This number increments during upload	Once the Open button is selected, the screen below will appear and the Bytes transferred number will increment as the latest version firmware uploads. Tera Term: Send file Filename: Pro_0101_Boot.HEX Bytes transfered: 5500 Close Pause Help

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.