

BYONICS

TinyTrak4 Firmware Manual

Version 0.6

<http://www.byonics.com/tinytrak4>

This manual explains how to update the firming in the Byonics TinyTrak4. Firmware can be downloaded from the TinyTrak4 website above, and programmed into a TinyTrak4 with a terminal program, and a female to female null modem adapter or cable (available from www.byonics.com)

- Download **Tera Term Pro ver 2.3** from <http://tinyurl.com/hc1w> or any other location. This is a free terminal program for Windows, and is known to work well. Other terminal programs may also be used, if they have the ability to upload a file in **binary mode**.
- Start TeraTermPro.
- Select "**Setup**" then "**Serial Port**" and select correct com port and **19200** baud, click **OK**.
- Connect the TinyTrak4 Serial Port (J2) to a computer serial port with a female to female null modem adapter or cable.
- Power up the TinyTrak4.
- It should send a **?**
- You have about 1 second to send back a **b** or **B**.
- If you make it, it responds with **TinyTrak4 v1.2b >**
- If you don't make it, it runs the current code, if any. Cycle power and try again. If you have to, hold the **b** key down while powering up the TT4.
- You can send a **v** or **V** to confirm you are in the bootloader. It will respond with the version again.
- It will then send another **>**.
- You send a **s** or **S** to begin to send a new TT4 firmware file.
- It will respond with nothing.
- In Term Term Pro, Select "**File**" and "**Send File**".
- Check the **Binary** option box at the bottom left of the send file screen.
- Select the proper file you want to send (ending with .TT4) and then **Open**.
- It should respond with many **.** (period) as it is updating.
- It should finally end with a ***** (asterisk) to show the update was complete
- After that you can either type **x** or **X** to run the new code,
- Or just cycle power and don't press **b** this time.
- The LEDs should flash and cycle as you go through the above modes.

After uploading the Tracker firmware, you should run the TinyTrak4 Tracker Config program to set your settings.