BYONICS

TinyTrak SMT Owner's Addendum
Version 2.0
## http://www.byonics.com/tinytrak/ttsmt.php
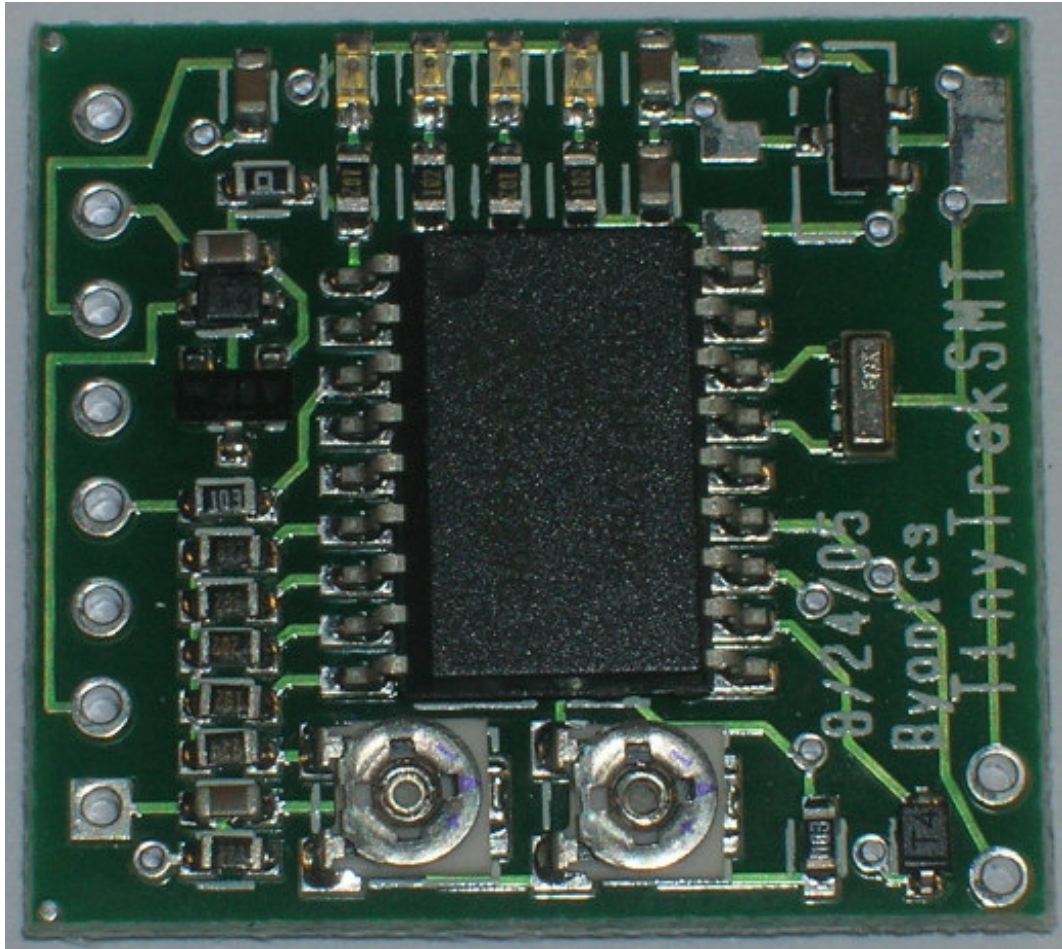
Overview

TinyTrak SMT is a surface mount version of the popular TinyTrak3 GPS Encoder. It is a built device, 1" x 0.925" and 0.16" tall, with 4 LEDs, 2 pots, and there are no connectors, but rather 8 holes spaced 0.1" apart for connections to power, radio, and serial. TinyTrak SMT is programmed with the latest version of the TinyTrak or WXTrak firmware, and uses the same configuration software.   This document is meant to be an addendum to the TinyTrak3 User's Manual, available at http://www.byonics.com/tinytrak. It will cover items specific to TinyTrak SMT only. All other information can be found in the TinyTrak3 User's Manual, and it is expected that all users will download that document.

Interfacing

The following diagrams show how TinyTrak SMT can be interfaced to the radio, GPS, and power.
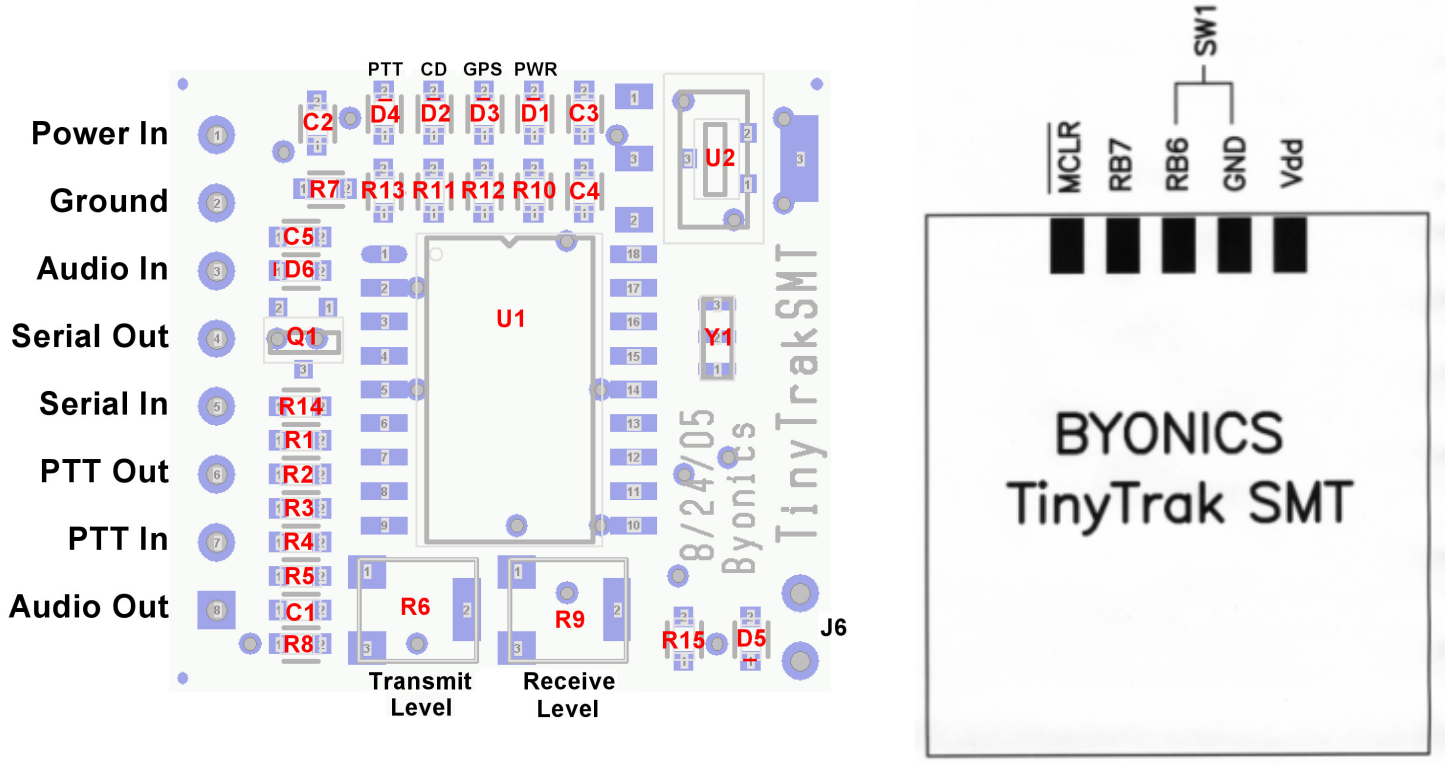
The pads on the bottom are used to program firmware into the TinyTrak SMT, and also used for the SW1 connection. The following chart corresponds connections on the TinyTrak SMT to connections on the TinyTrak3.

TinyTrak SMT	TinyTrak3
Power In	J1 pin 7, and J3 pin +
Ground	J1 pin 6, J2 pin 5, and J3 pin -
Audio In	J1 pin 5
Serial Out	J2 pin 3
Serial In	J2 pin 2
PTT Out	J1 pin 3
PTT In	J1 pin 8
Audio Out	J1 pin 1
J6	J6
RB6 & GND (back of TinyTrak SMT)	J5, and J1 pin 4 (SW1)

Notes

- R8 is included on TinyTrak SMT. If you are using a mobile radio, or a Kenwood handheld, it may need to be removed. It is located on the edge of the board, near the Audio Out pin. It can be removed with tweezers and a light touch of a soldering iron.