Circuit Description

The U2 provides the 1.8V for the Module and the RF front end . This converter is powered from a Li-polymer battery , C2 is a 10uF ceramic capacitor and is on the input to U2 to provide stability.

C4 is a 10uF output capacitor that smoothes the output from U2.

U2 also has an active low shutdown pin , CE.

The main on-off circuit comprises the Module's PIO3 and PIO9, R7, R12, D1, R15, R10, R11, and the MFB(multi- function button) switch , SW3.

To prevent the demodulation of the Bluetooth or GSM RF envelope, a simple inductive/capacitive filter, L1/C7/C8.

The battery charger is based on the LTC4054-4.2 Lithium-ion charger(U3). LTC4054 has a VCC input for the power source , an output to the battery, a GND, a programming pin, and a charge status open-drain output pin.

The design holds two LEDs: red LED,D2 ; blue LED,D3

These are driven by the transistor. VT1 and VT2.