

Circuit Description

1. The 2G mobile phone have bluetooth function option inside, the bluetooth is a wireless data transmission function, and the radio frequency is from 2402 to 2480MHz with GFSK modulation. The uplink frequency band is from 824MHz to 849MHz for GSM850, the uplink frequency band is from 1850MHz to 1910MHz for GSM1900. The work voltage is 3.7VDC, provided by battery
2. The RF interface of MT6253 communicates with the RF analog circuitry. This RF interface performs gain controls of Power amplifier (PA) using digital control signals. The circuit functions of the MT6253 quadband GSM I/Q demodulator consists of four LNAs, an I/Q Demodulator, a local Oscillator VCO, baseband I/Q channel filters with stepped gain amplifiers (baseband back-end) and a 3-wire bus for various mode controlling. The final RF power amplifier is SKY77542 .The DC voltage and current supplied into the power amplify module (PAM) is typical 3.5V and 200mA.
3. There are mainly three parts in the circuit: IC1, IC2, Antenna with matching network. IC2 integrates RF, Baseband, Power Management Unit , and is driven by 26MHz crystal oscillator. IC1 is a transmit and receive front—end module with integrated power amplifier. The matching network includes three components: L1, C1, C2, which effect output power of IC1.

