

## **Circuit Description**

1. U1-S3C2440AL is master controller of the sound box, the X2 is generated the 16.9344MHz clock signal to it, and X1 is generated the 32.768kHz clock signal as clock frequency. The IC U6, U7, U8 are memory chip as internal memory, and the SD card as external memory of circuit.
2. The M1-LEA-4S is the GPS module, it is used receiving the GPS signal and to encode as data signal before send to MCU.
3. The M2-GL-8A is the bluetooth module with CSR chip, it can transmit and receive the external data signal via wireless bluetooth technology with from 2402MHz to 2480MHz frequency band, for example GPS data, audio signal and so on.
4. All circuit work voltage is DC 12V, supply by car with DC 12 voltage battery, and the local circuit work voltage is 5V or 3.3V, be converted by power circuit system.