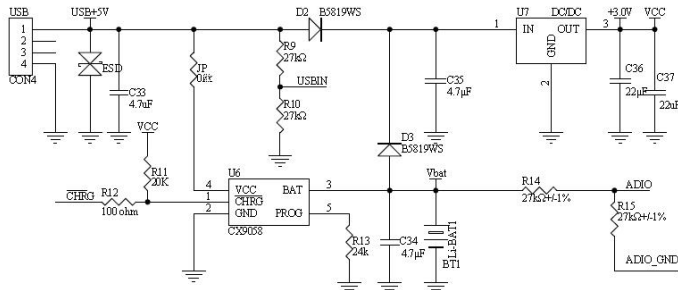# B022 circuit description

Power Section

When connecting with 5V USB, the USBIN will send charging signal to MCU. The CHRG of Charging IC will send Charging status signal to check whether it's in charging or charged fully. The USB to recharge the battery at the same time, also responsible for the device power supply; only disconnect with USB, the battery will supply power to device. ADIO and DIO_GND interfaces are sampling to battery power by the MCU, when low battery, MCU low-pressure reminds are given.
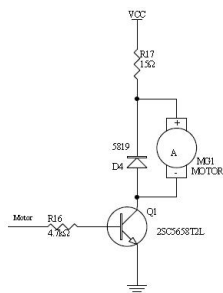
EEPROM circuit
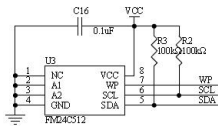
Using IIC connection, Responsible for store all data.
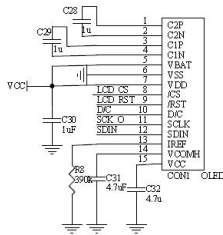
Press Sensor
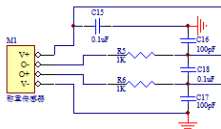
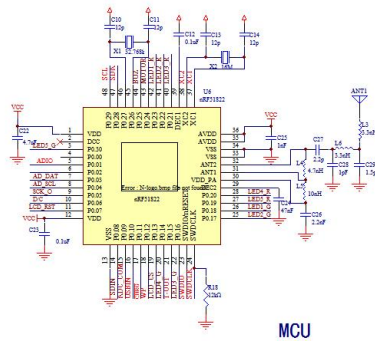Output Voltage signal

The motor control system

Controlled by MCU triode working condition control the motor vibration condition .

OLED

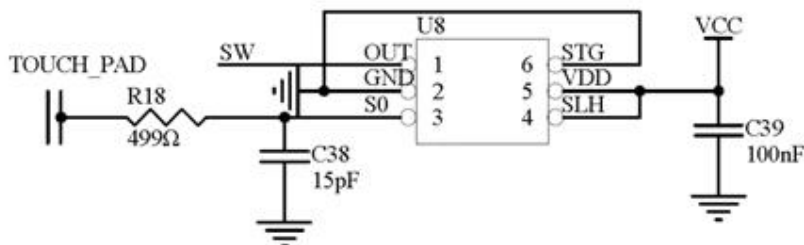MCU control the display content.

Master Control

MCU receive and send out all control commands (include RF work). 32.768 kHz supply the clock sequence to Master Control; 32MHz supply 32 MHz to the Dominant Frequency, for run the underlying protocol and RF frequency doubling. Details refer to Master IC specification.
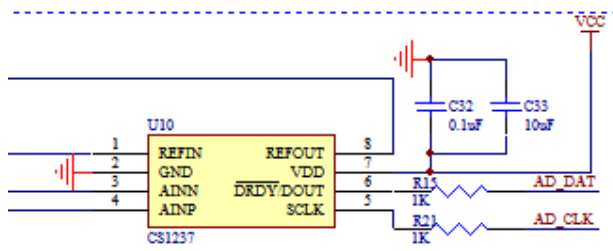
information of Bluetooth Module as below

RF module model:	nRF51822
Modulation:	GFSK
Frequency:	2402MHz- 2480MHz
Channel:	40
Antenna Gain	0dBi

Switching System

Use Touch way to control the switch, For OLED displays to switch.

VCC

U10

1	REFIN	REFOUT	8
2	GND	VDD	7
3	AINN	$\overline{DRDY}$/DOUT	6
4	AINP	SCLK	5

CS1237

C32 0.1uF   C33 10nF

R15 1K   AD_DAT

R21 1K   AD_CLK

Use IIC communicate to MCU.