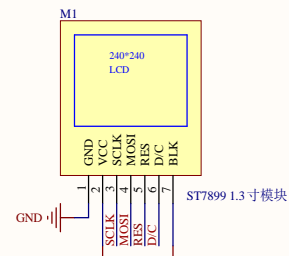
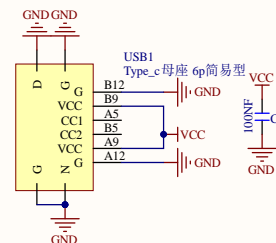
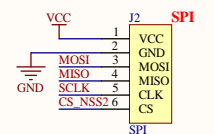
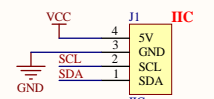
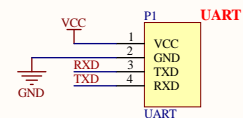
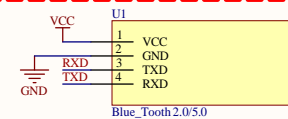


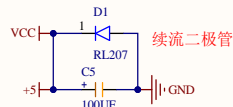
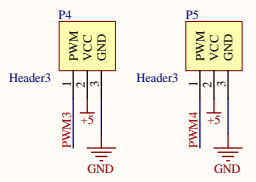
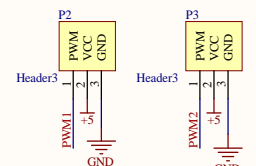
这个适合做毕业设计，不适合比赛！！



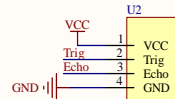
显示模块



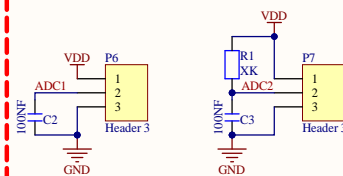
通信



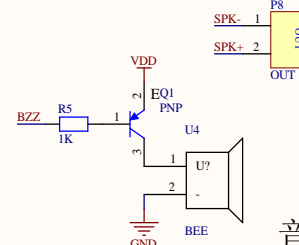
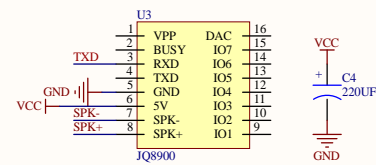
舵机



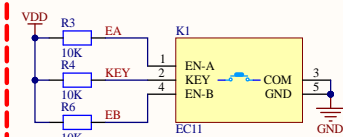
探测模块



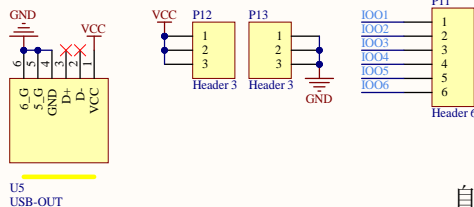
ADC输入 / DAC 输出



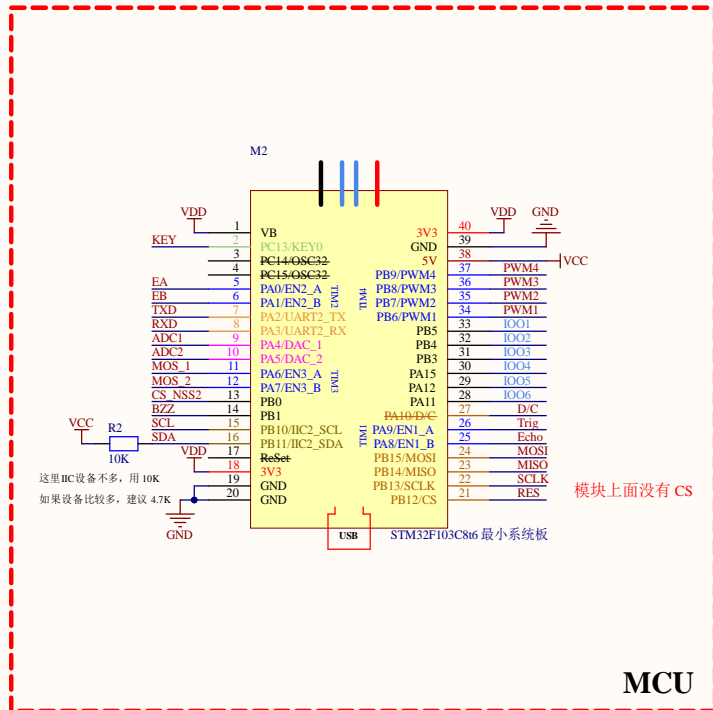
音频输出



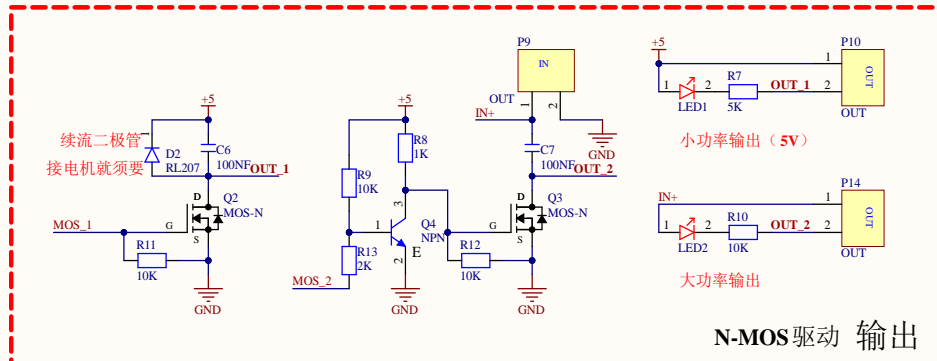
编码按键 输入



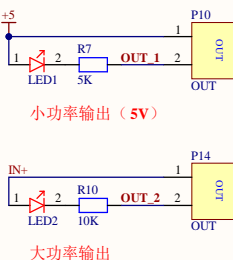
自由IO及USB



MCU




N-MOS驱动 输出



小功率输出 (5V)

大功率输出

Title: Simple.PrjPcb		Revision: V 1.0	
Date: 2022/1/16		Time: 21:37:42	
Size: A3	Author: 卡文迪许		
Sheet 1 of 1	Unit: 卡文迪许实验		
File: E:\PCB\Control\Simple-HardWare\Sheet.SchDoc			



The diagram illustrates the STM-32 Simple PCB layout, featuring a central STM32 microcontroller. Key components and their connections include:

- Microcontroller:** STM32, with pins labeled PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND.
- Power Management:** VCC, GND, and a 10K resistor connected to the microcontroller's VCC pin.
- Communication Interfaces:**
 - SPI:** CS, CLK, MISO, MOSI, RES, DC, BLK.
 - UART2:** TX, RX, and a 10K resistor connected to the TX pin.
 - Blue Tooth:** A module connected to the microcontroller.
- Display:** LCD, connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
- Audio:** SPEAK (Speaker), connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
- ADC:** A module connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
- Other Components:**
 - RL207:** A component connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
 - 2mm * 11mm 铜柱:** A component connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
 - USB:** A module connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
 - 舵机 (Servo):** A module connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
 - OUT1:** A module connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.
 - BZZ:** A module connected to the microcontroller's PA11, PA12, PA15, PB3, PB4, PB5, VCC, and GND pins.

