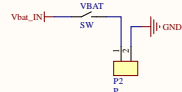
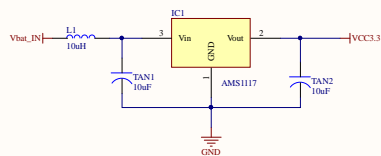


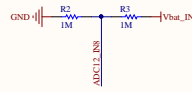
## 3.7锂电池输入



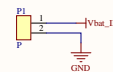
## 3.3V稳压



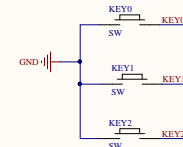
## 电池电压监控



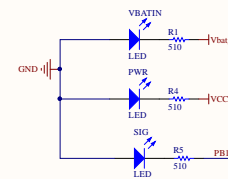
## 外部扩展供电



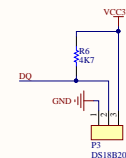
## 按钮



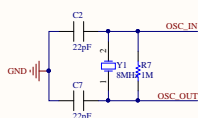
## 指示灯



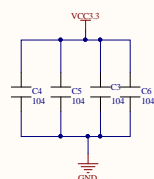
## 温度监控



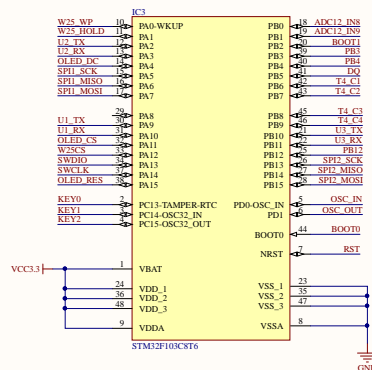
## 单片机晶振



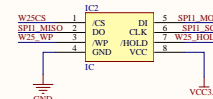
## 单片机滤波



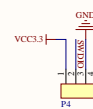
## STM32F103C8T6



## 拓展ROM



## SWD调试接口



## STM32F103C8T6基础板

16Pin FPC接口0.5mm间距,翻盖下接

DS18B20温度传感器直插卧倒

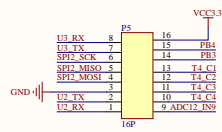
复位按钮用短接焊盘,其它贴片侧卧

PCB尺寸控制在45mm X 45mm之间

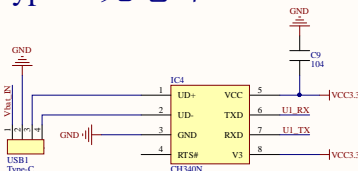
注意:需要关闭JTAG功能才能操作部分引脚

通过FPC拓展的器件不能使用基础板的电源进行功率供电!

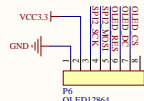
## 16P FPC外扩接口



## Type-C 充电 串口



## OLED12864



湖南工学院 机械创新实验室 庞碧璋

2021/10/18

Comment	Description	Designator	Footprint	LibRef	Quantity
22pF		C2	C 0603	电容	1
104		C3	C 0603	电容	1
104		C4	C 0603	电容	1
104		C5	C 0603	电容	1
104		C6	C 0603	电容	1
22pF		C7	C 0603	电容	1
104		C8	C 0603	电容	1
104		C9	C 0603	电容	1
AMS1117		IC1	SOT-223	AMS1117-3.3	1
IC		IC2	SOP-8	w25q16	1
STM32F103C8T6		IC3	LQPF48 7X7	stm32f103c8t6	1
CH340N		IC4	SOP-8	CH340N	1
SW		KEY0	SW SMD 3x6x2.5	弹簧开关	1
SW		KEY1	SW SMD 3x6x2.5	弹簧开关	1
SW		KEY2	SW SMD 3x6x2.5	弹簧开关	1
10uH		L1	L 0603	电感	1
P		P1	HEAD_1X2	1X2排针	1
P		P2	电池焊盘	1X2排针	1
DS18B20		P3	TO92	1X3排针	1
SWD		P4	MX1.25	1X4排针	1
16P		P5	FPC 0.5mm 16P	16P	1
OLED12864		P6	HEAD_1X8	1X8排针	1
LED	Typical INFRARED	PWR	LED 0603	LED	1
510	Resistor	R1	R 0603	Res	1
1M	Resistor	R2	R 0603	Res	1
1M	Resistor	R3	R 0603	Res	1
510	Resistor	R4	R 0603	Res	1
510	Resistor	R5	R 0603	Res	1
4K7	Resistor	R6	R 0603	Res	1
1M	Resistor	R7	R 0603	Res	1
10K	Resistor	R8	R 0603	Res	1
10K	Resistor	R9	R 0603	Res	1
10K	Resistor	R10	R 0603	Res	1
SW		RST	SW SMD 3x6x2.5	弹簧开关	1
LED	Typical INFRARED	SIG	LED 0603	LED	1
10uF		TAN1	TAN 0805	极性电容	1
10uF		TAN2	TAN 0805	极性电容	1
Type-C		USB1	USB Type-C	1X4排针	1
SW		VBAT	拨动开关 9X3.5X3	开关	1
LED	Typical INFRARED	VBATIN	LED 0603	LED	1
8MHz	Crystal Oscillator	Y1	OSC SMD	晶振	1