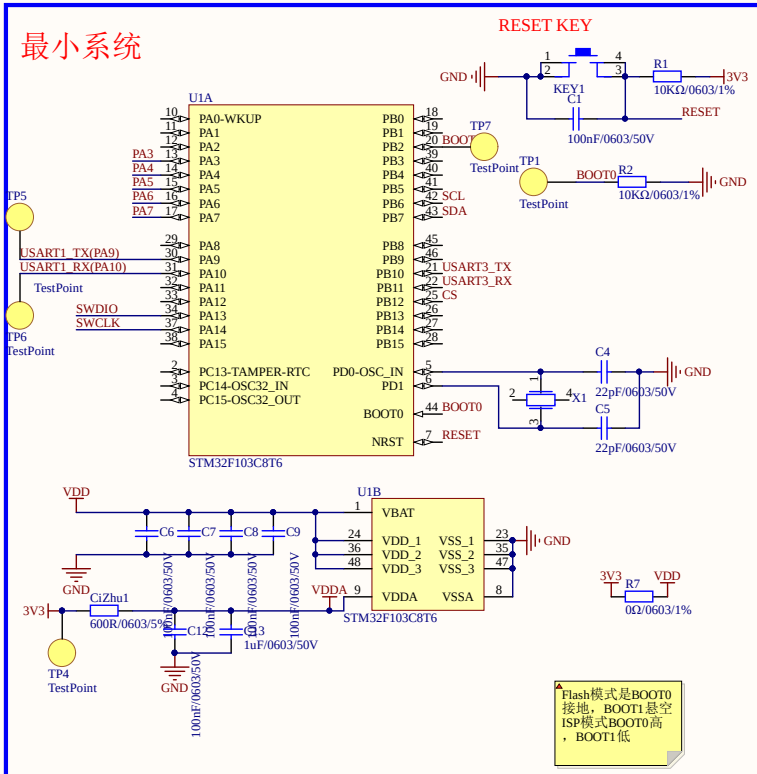
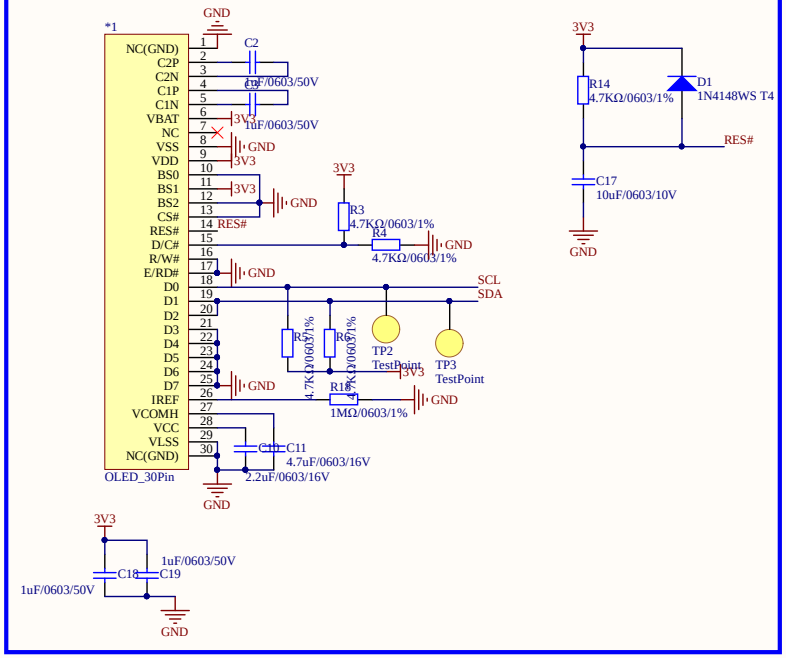
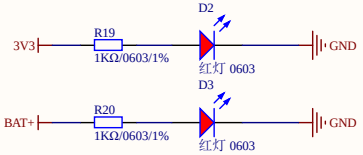
最小系统



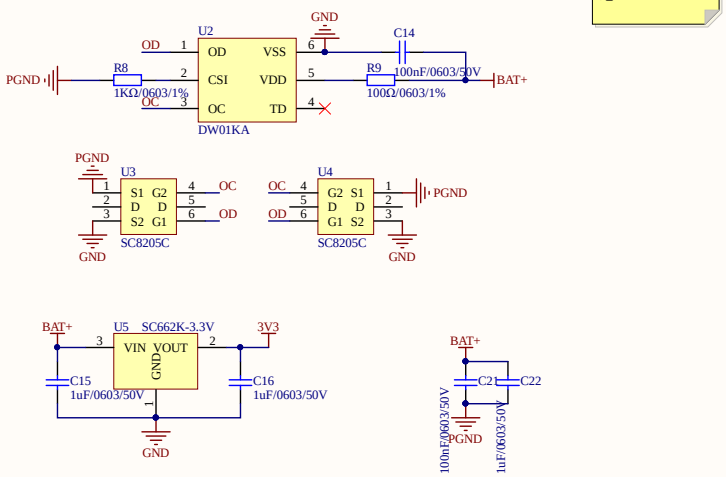
OLED



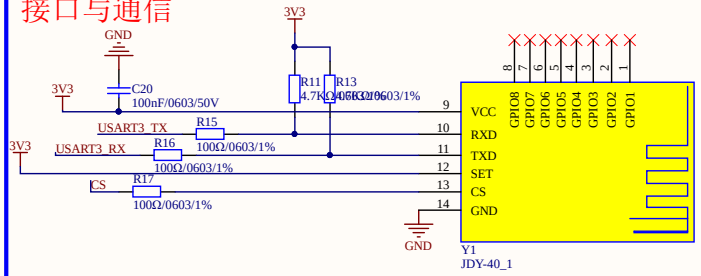
指示灯



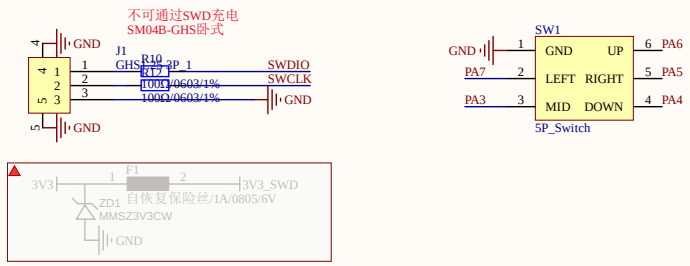
充电保护+降压



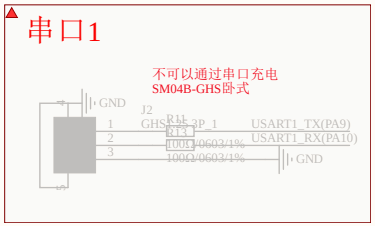
接口与通信



SWD



串口1



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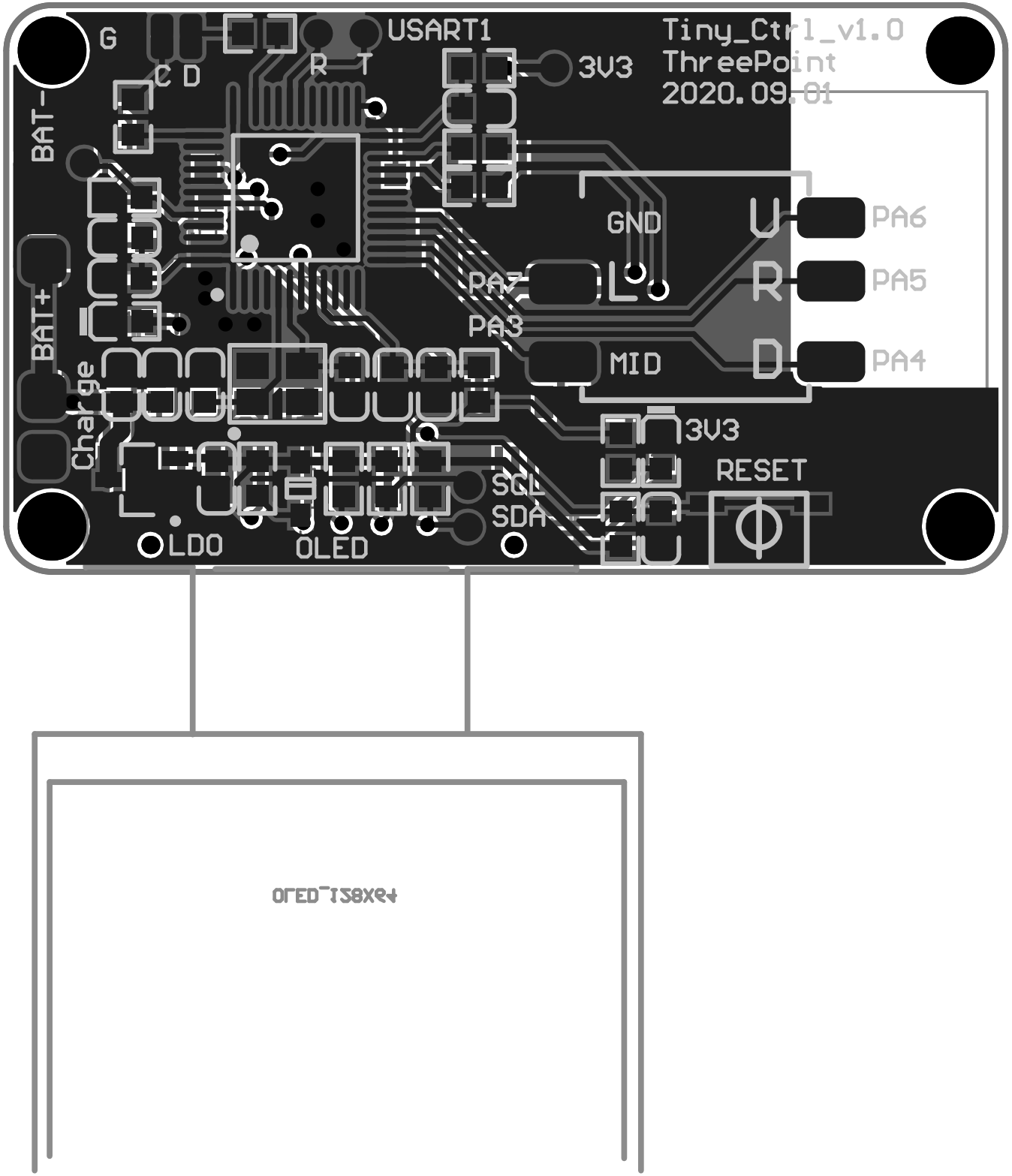
Date: 2021/06/29	Sheet of	
File: C:\Users\...\DIY_Watch_Hardware.SchDoc	Drawn By:	


G
C D
R T
USART1
3V3
Tiny_Ctrl_v1.0
ThreePoint
2020.09.01
BAT-
BAT+
Charge
GND
PA7
PA3
MID
U
R
D
PA6
PA5
PA4
3V3
RESET
SCL
SDA
LDO
OLED

Comment	Description	Designator	Footprint	LibRef	Quantity
OLED_30Pin		*1	OLED_0.96-30P-P0.7	OLED_30Pin	1
100nF/0603/50V	贴片电容	C1, C6, C7, C8, C9, C	LC-0603_C	0603 100nF (104) 10	9
1uF/0603/50V	贴片电容	C2, C3, C13, C15, C1	LC-0603_C	0603 1uF (105) 10% 5	8
22pF/0603/50V	贴片电容	C4, C5	LC-0603_C	0603 22pF (220) 5% 5	2
2.2uF/0603/16V	贴片电容	C10	LC-0603_C	0603 2.2uF (225) 10%	1
4.7uF/0603/16V	贴片电容	C11	LC-0603_C	0603 4.7uF (475) 10%	1
10uF/0603/10V	贴片电容	C17	LC-0603_C	0603 10uF (106) 10%	1
600R/0603/5%	电阻_磁珠	CiZhu1	0603_R	Cizhu	1
1N4148WS T4	二极管	D1	LC-SOD-323	SOD-323 1N4148WS	1
红灯 0603	发光二极管	D2, D3	LC-0603_LED_S1	0603 红灯	2
GHS1.25 3P_1	卧式	J1	SM03B_GHS卧式	GHS1.25 3P_1	1
KEY	开关	KEY1	SW_SMD_4P	KEY_1	1
10KΩ/0603/1%	贴片电阻	R1, R2	LC-0603_R	0603 10KΩ (1002) 1%	2
4.7KΩ/0603/1%	贴片电阻	R3, R4, R5, R6, R11, R	LC-0603_R	0603 4.7KΩ (4701) 1	7
0Ω/0603/1%	贴片电阻	R7	LC-0603_R	0603 0Ω (0R0) 1%	1
1KΩ/0603/1%	贴片电阻	R8, R19, R20	LC-0603_R	0603 1KΩ (1001) 1%	3
100Ω/0603/1%	贴片电阻	R9, R10, R12, R15, R1	LC-0603_R	0603 100Ω (1000) 1%	6
1MΩ/0603/1%	贴片电阻	R18	LC-0603_R	0603 1MΩ (1004) 1%	1
5P_Switch	5向开关	SW1	5Position_Switch	5P_Switch	1
TestPoint		TP1, TP2, TP3, TP4, T	TestPoint	TestPoint	7
STM32F103C8T6	ARM	U1	LQFP-48_7x7x05P	STM32F103C8T6	1
DW01KA	锂电池保护芯片	U2	SOT-23-6	DW01KA	1
SC8205C	二合一MOS	U3, U4	SOT-23-6	SC8205C	2
SC662K-3.3V	LDO	U5	SOT-23-3L	SC662K-3.3V	1
无源贴片晶振	25M/3225	X1	SMD-3225_4P	XTAL_4	1
JDY-40_1	串口透传无过孔	Y1	JDY-401 -No via	JDY-40_1	1