

立诚软硬件外包

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Title

bullet_lock_V1

Size

A

Document Number

Block Diagram

Rev

r0.1

Date:

Sunday, August 21, 2022

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Revision

V1	2022.8.18	创建第一个版本



立诚科技
LICHENG TECHNOLOGY

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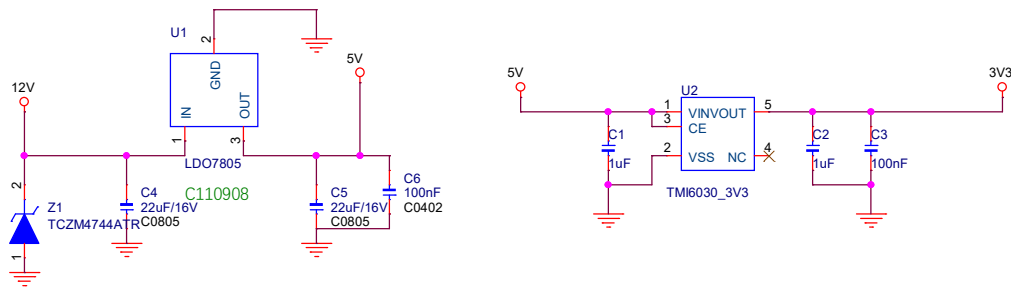
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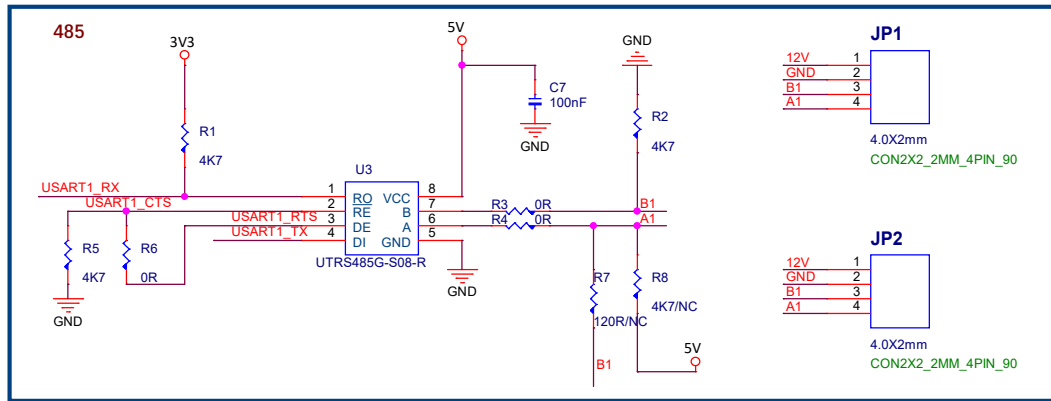
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接485串口

USART1_CTS >>> USART1_CTS [4]
 USART1_RTS >>> USART1_RTS [4]
 USART1_TX >>> USART1_TX [4]
 USART1_RX >>> USART1_RX [4]



螺丝孔 3.3mm

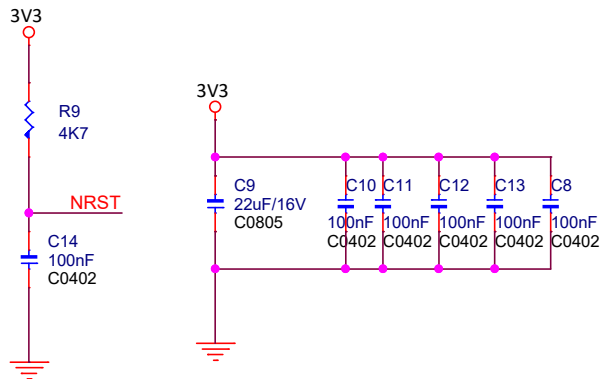
H1 1 Dr11

H2 1 Dr11

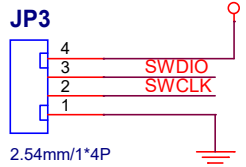
H3 1 Dr11

H4 1 Dr11

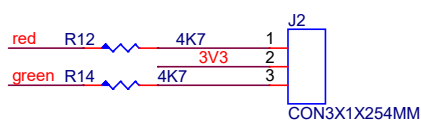
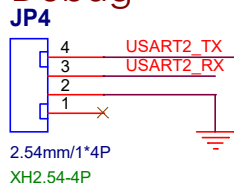
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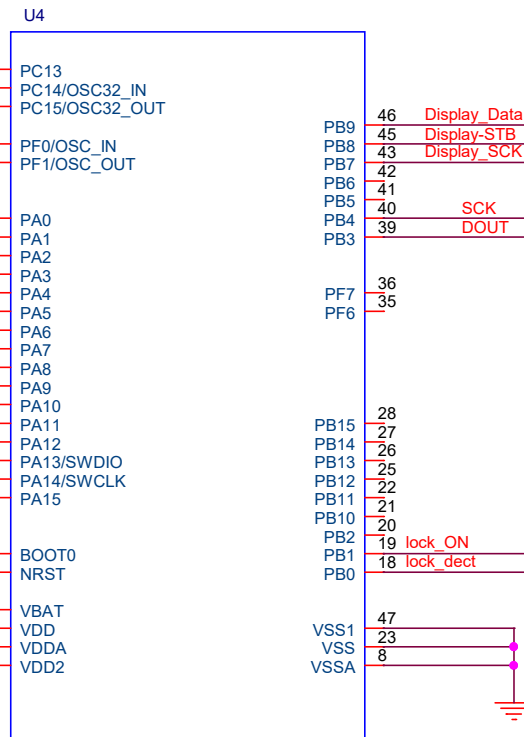
烧录



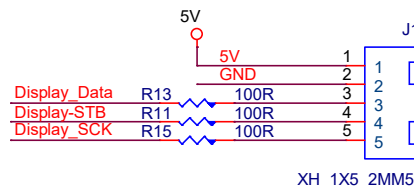
Debug



红绿双色灯

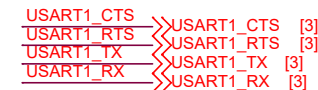


STM32F051C8T6



4位8段数码管

接485串口



压力传感器



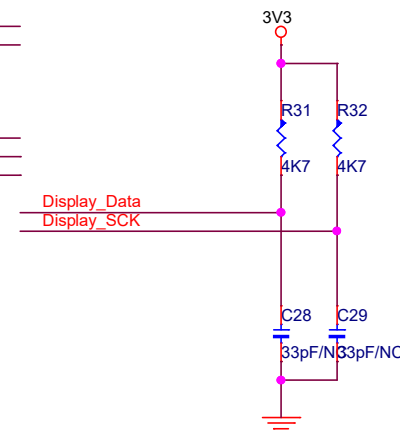
开锁和锁状态检测



状态指示灯



数码管

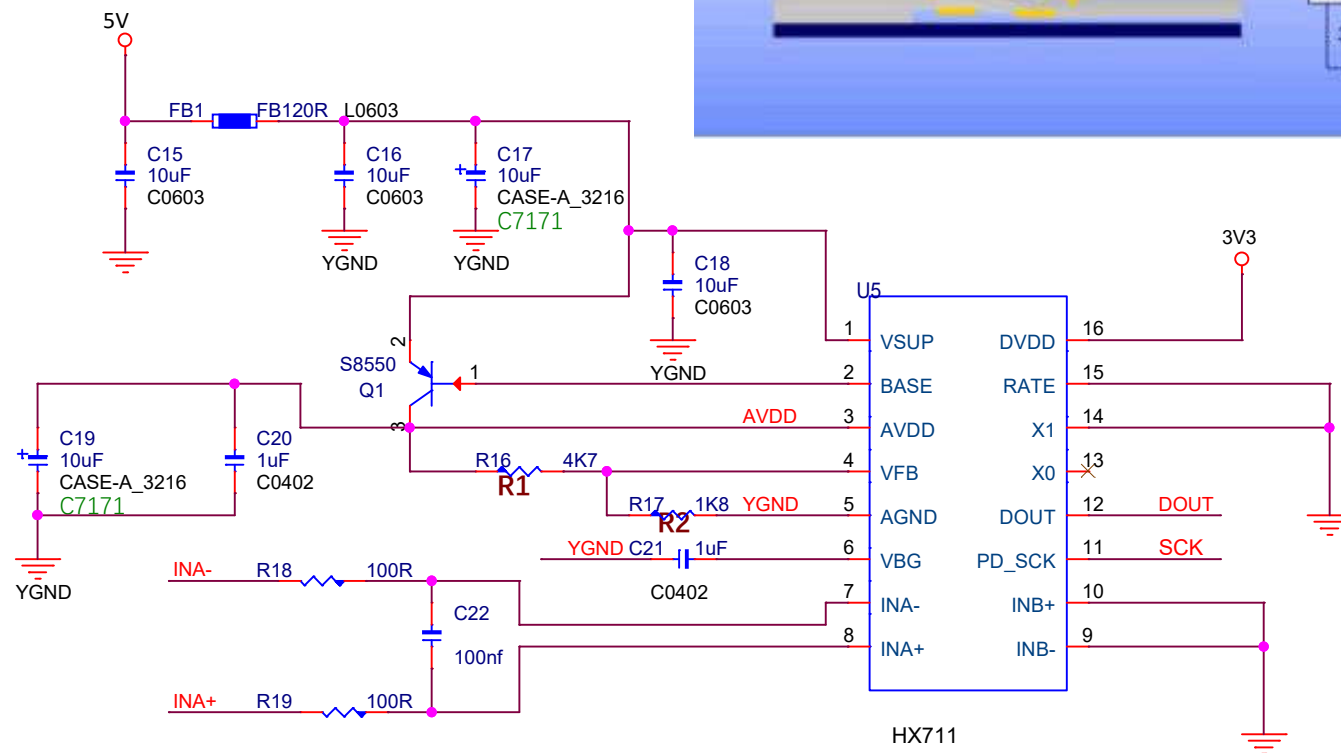
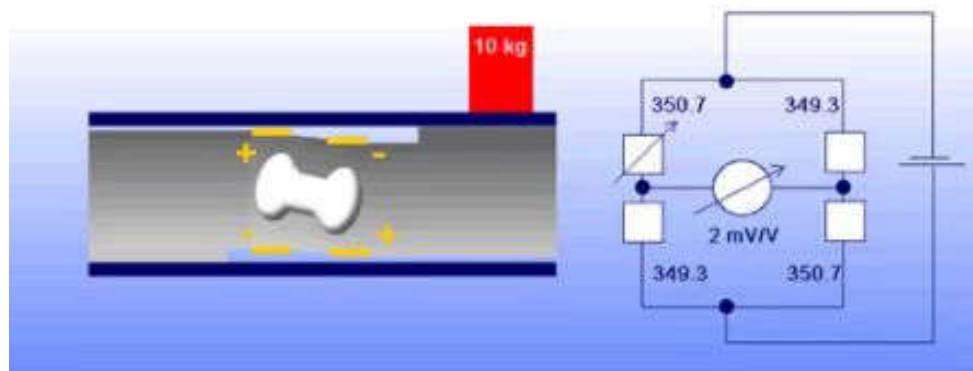


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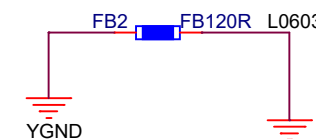
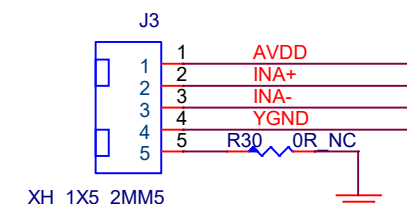
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压力传感器

DOUT [4]
SCK [4]



桥式传感器



HX711
C43656

VBG=1.25V

$$AVDD = \frac{R1+R2}{R2} VBG = 4.514V$$

重量传感器规格: 满量程: $AVDD \times 2mV = 2 \times 4.514 = 9.023mV$
OUT $\pm 2mV/V$
此项目重量传感器标称: 35KG

那么每KG产生的压差就是: $9.023 \div 35 = 0.2578mV$
也就是说1kg的重量, 产生0.2578mV



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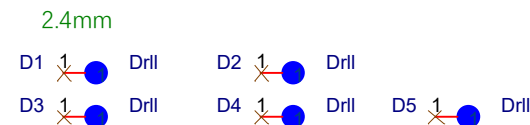
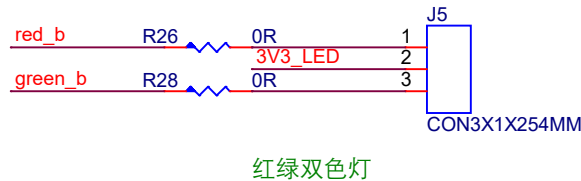
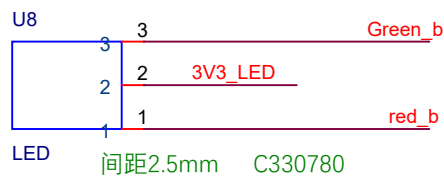
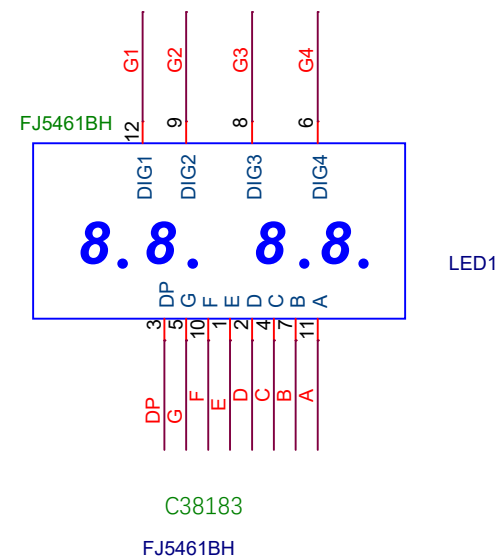
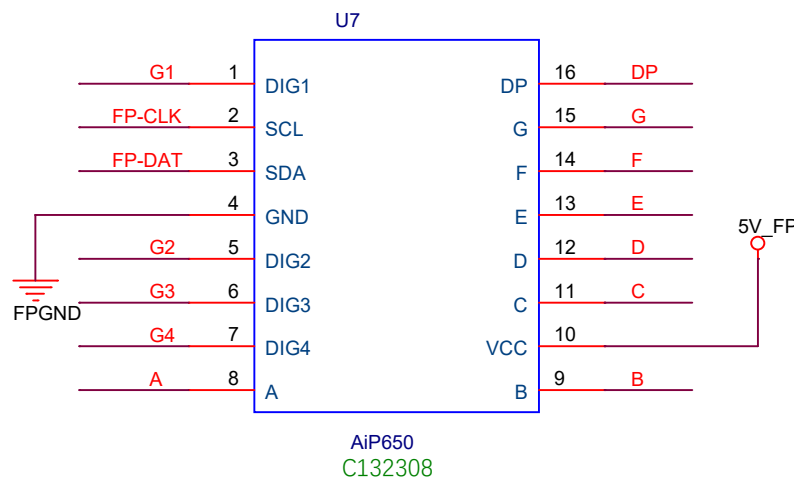
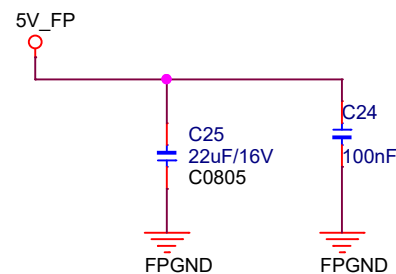
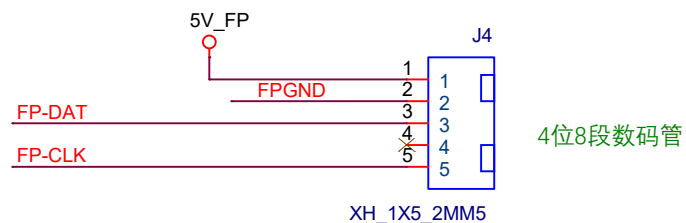
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