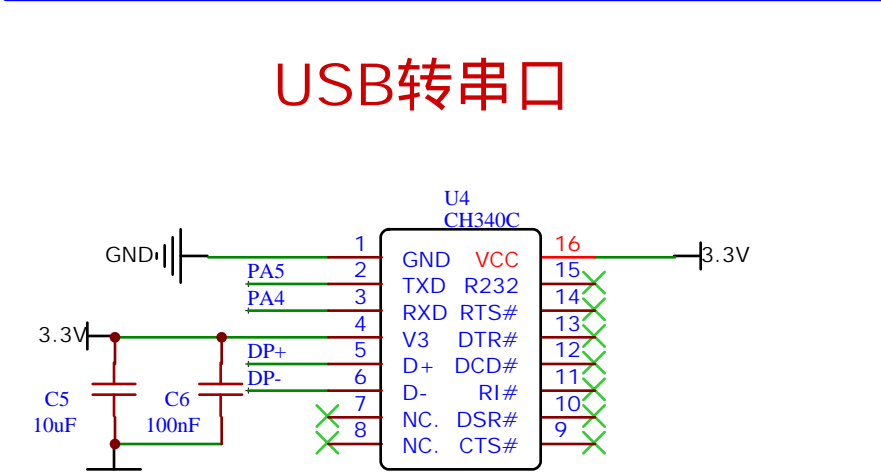


# TypeC接口

USB1  
TYPEC-304-BCP16

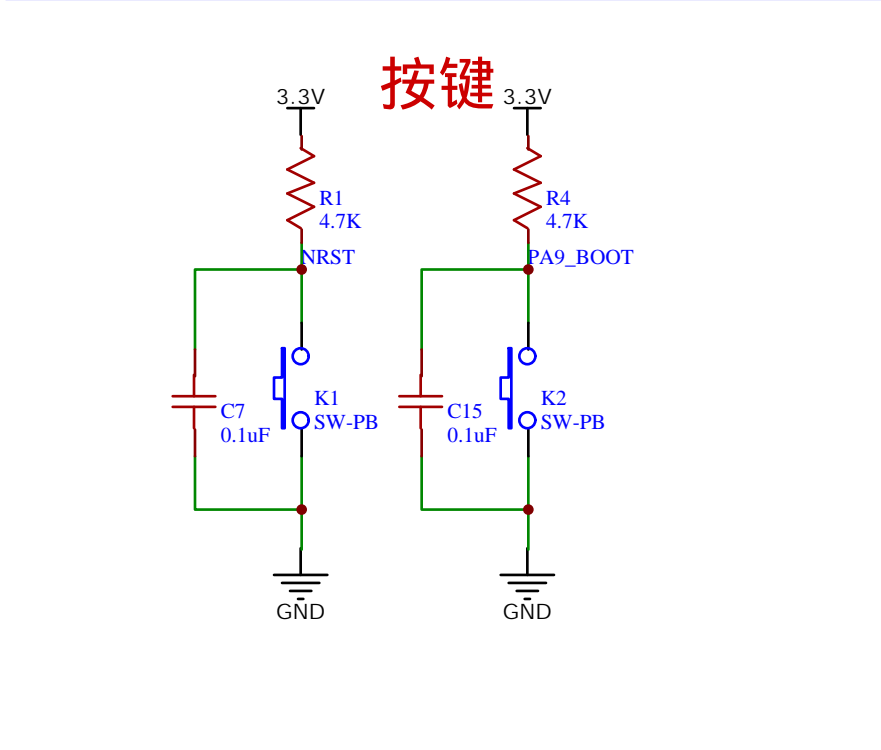
Pin connections and components:

- Left side pins: 16 (GND), 15 (GND), 14 (GND), 13 (GND)
- Right side pins and connections:
  - B8: GND
  - B7: DP- (GND)
  - B6: DP+ (GND)
  - B5: R6 (5.1K) to +5V
  - B4A9: +5V
  - B1A12: GND
  - A8: GND
  - A7: DP- (GND)
  - A6: DP+ (GND)
  - A5: R7 (5.1K) to +5V
  - A4B9: +5V
  - A1B12: GND



GND

USB转串口



# 合泰主控芯片

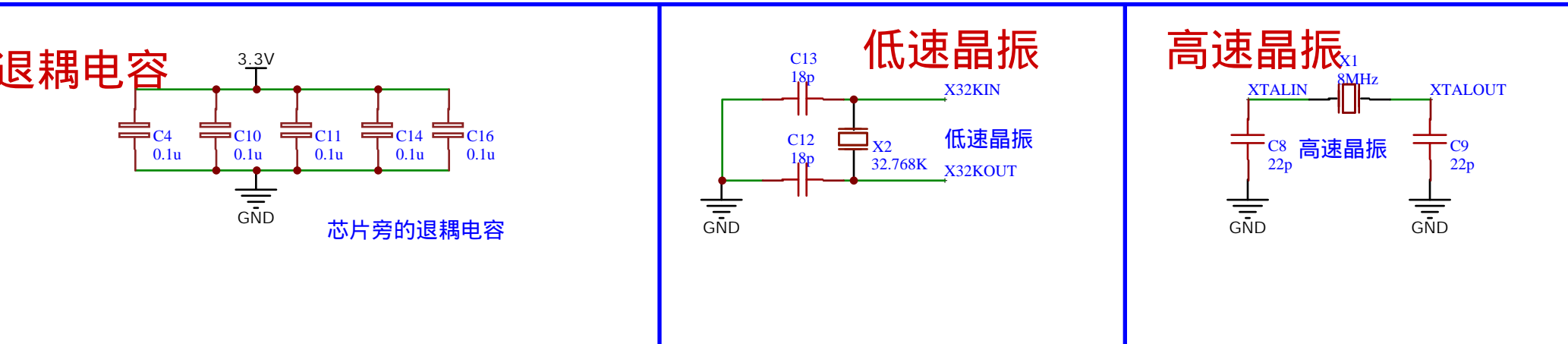
U1  
HT32F52352

H2  
X6511WV-24H-C30D60

H1  
X6511WV-24H-C30D60

C1  
2.2uF

调试口



电容

3.3V

C4 0.1u

C10 0.1u

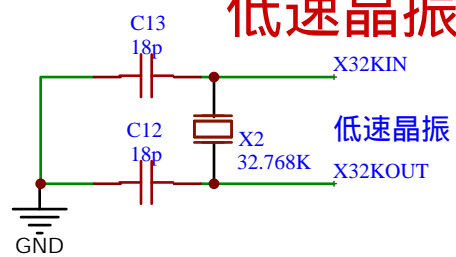
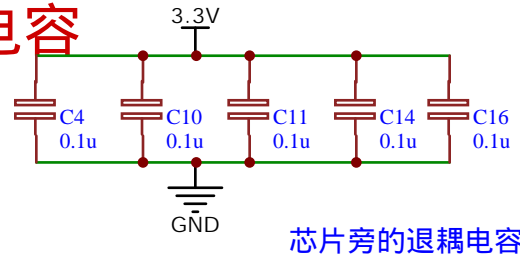
C11 0.1u

C14 0.1u

C16 0.1u

GND

芯片旁的退耦电容

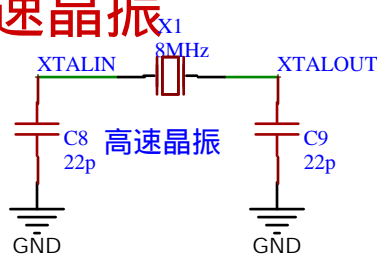


### 速晶振

XTALIN 8MHz XTALOUT

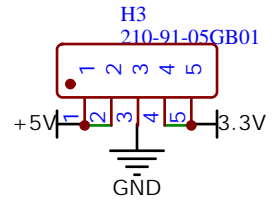
C8 22pF 高速晶振 C9 22pF

GND GND



## 稳压模块

The diagram shows a voltage regulation module (LDO1 SC662K-3.3V) with three pins: 1 (GND), 2 (VOUT), and 3 (VDD). The input is +5V connected to pin 3, with a 1uF capacitor (C2) to ground. The output is pin 2 connected to +3.3V, with a 1uF capacitor (C3) to ground. Pin 1 is connected to ground.

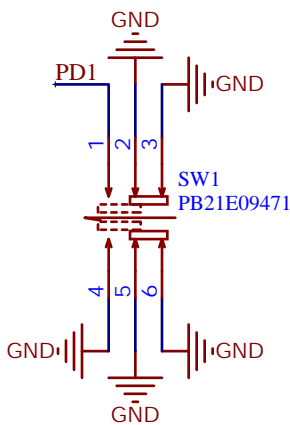
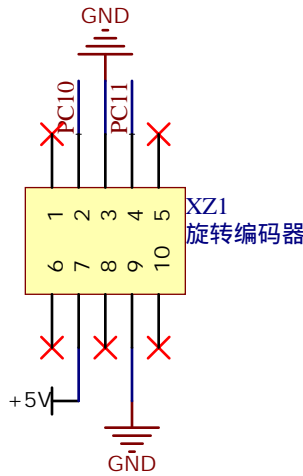


The left diagram illustrates a USB Type-C to Type-A connection. The USB Type-C connector (USB2 TYPEC-304-BCP16) is connected to the USB Type-A connector (USB直连芯片). The connections are as follows:

- USB Type-C Pin 8 (SBU2) to USB Type-A Pin 8 (SBU1)
- USB Type-C Pin 7 (DN2) to USB Type-A Pin 7 (DN1)
- USB Type-C Pin 6 (DP2) to USB Type-A Pin 6 (DP1)
- USB Type-C Pin 5 (CC2) to USB Type-A Pin 5 (CC1)
- USB Type-C Pin 4 (VBUS) to USB Type-A Pin 4 (VBUS)
- USB Type-C Pin 3 (GND) to USB Type-A Pin 3 (GND)
- USB Type-C Pin 2 (SBU1) to USB Type-A Pin 2 (SBU1)
- USB Type-C Pin 1 (DN1) to USB Type-A Pin 1 (DN1)
- USB Type-C Pin 0 (DP1) to USB Type-A Pin 0 (DP1)
- USB Type-C Pin 9 (A8) to USB Type-A Pin 9 (A8)
- USB Type-C Pin 10 (A7) to USB Type-A Pin 10 (A7)
- USB Type-C Pin 11 (A6) to USB Type-A Pin 11 (A6)
- USB Type-C Pin 12 (A5) to USB Type-A Pin 12 (A5)
- USB Type-C Pin 13 (A4) to USB Type-A Pin 13 (A4)
- USB Type-C Pin 14 (A3) to USB Type-A Pin 14 (A3)
- USB Type-C Pin 15 (A2) to USB Type-A Pin 15 (A2)
- USB Type-C Pin 16 (A1) to USB Type-A Pin 16 (A1)

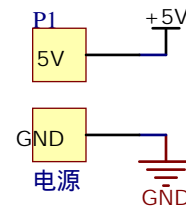
The right diagram illustrates a USB Type-C to Type-A and Type-B connection. The USB Type-C connector is connected to the USB Type-A connector (USB直连芯片) and the USB Type-B connector (XZ1 旋转编码器). The connections are as follows:

- USB Type-C Pin 8 (SBU2) to USB Type-A Pin 8 (SBU1)
- USB Type-C Pin 7 (DN2) to USB Type-A Pin 7 (DN1)
- USB Type-C Pin 6 (DP2) to USB Type-A Pin 6 (DP1)
- USB Type-C Pin 5 (CC2) to USB Type-A Pin 5 (CC1)
- USB Type-C Pin 4 (VBUS) to USB Type-A Pin 4 (VBUS)
- USB Type-C Pin 3 (GND) to USB Type-A Pin 3 (GND)
- USB Type-C Pin 2 (SBU1) to USB Type-A Pin 2 (SBU1)
- USB Type-C Pin 1 (DN1) to USB Type-A Pin 1 (DN1)
- USB Type-C Pin 0 (DP1) to USB Type-A Pin 0 (DP1)
- USB Type-C Pin 9 (A8) to USB Type-A Pin 9 (A8)
- USB Type-C Pin 10 (A7) to USB Type-A Pin 10 (A7)
- USB Type-C Pin 11 (A6) to USB Type-A Pin 11 (A6)
- USB Type-C Pin 12 (A5) to USB Type-A Pin 12 (A5)
- USB Type-C Pin 13 (A4) to USB Type-A Pin 13 (A4)
- USB Type-C Pin 14 (A3) to USB Type-A Pin 14 (A3)
- USB Type-C Pin 15 (A2) to USB Type-A Pin 15 (A2)
- USB Type-C Pin 16 (A1) to USB Type-A Pin 16 (A1)



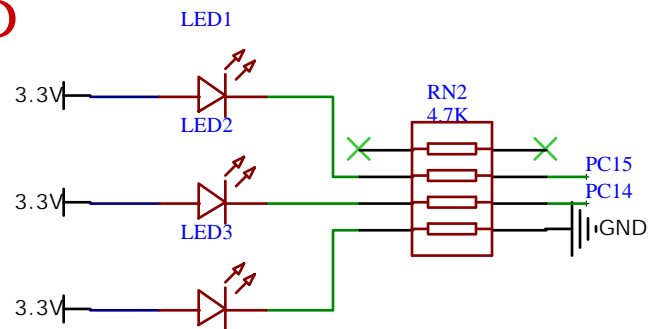
# 电池接线的端子

The diagram illustrates the connection of a power source to a component. It features two yellow rectangular boxes. The top box is labeled 'P1' and '5V' and is connected to a '+5V' terminal. The bottom box is labeled 'GND' and '电源' and is connected to a 'GND' terminal.



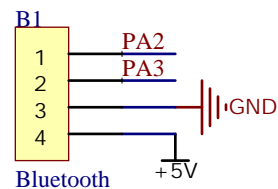
# LED

The diagram shows three LEDs, LED1, LED2, and LED3, each connected to a 3.3V supply. The LEDs are connected to a common ground. The LEDs are connected to a 4.7K resistor network (RN2) which is connected to PC15 and PC14. The ground connection is labeled GND.



# 蓝牙

The diagram shows a yellow rectangular component labeled 'B1' with four pins numbered 1 to 4. Pin 1 is connected to a line labeled 'PA2'. Pin 2 is connected to a line labeled 'PA3'. Pin 3 is connected to a ground symbol labeled 'GND'. Pin 4 is connected to a line labeled '+5V'.

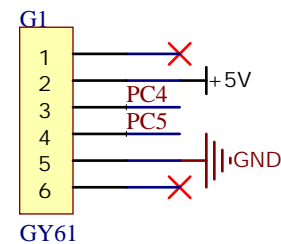


# 陀螺仪

Diagram illustrating the pin connections for the GY-61 module:

- Pin 1: G1 (Red X)
- Pin 2: PC4
- Pin 3: PC5
- Pin 4: +5V
- Pin 5: GND
- Pin 6: (Red X)

GY61



# 电池接线的端子

The diagram illustrates the connection of a power source to a component. It features two yellow rectangular boxes. The top box is labeled 'P1' and '5V' and is connected to a '+5V' terminal. The bottom box is labeled 'GND' and '电源' and is connected to a 'GND' terminal.