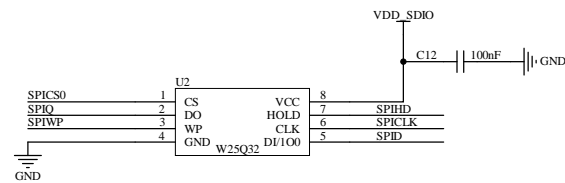
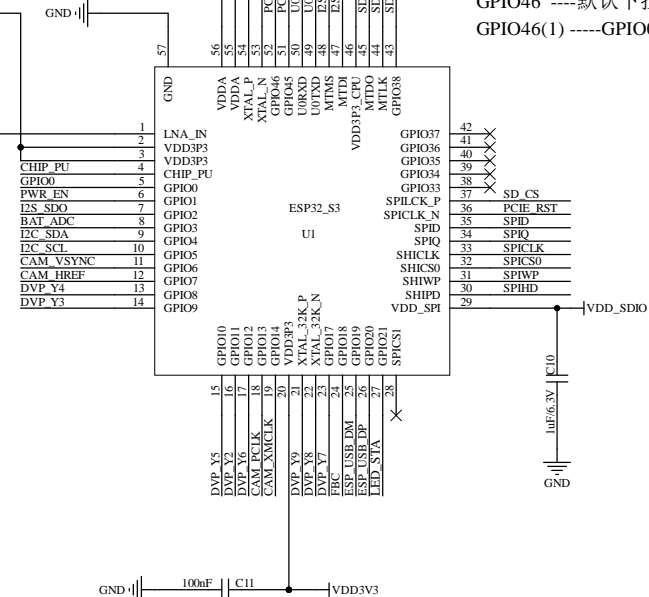
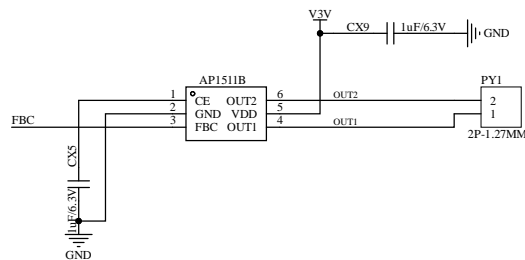
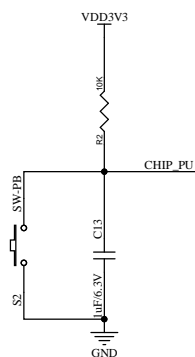
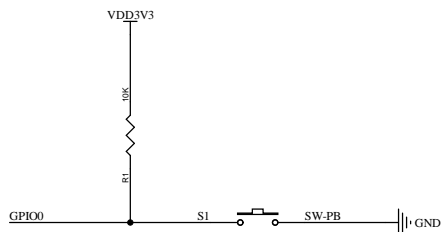
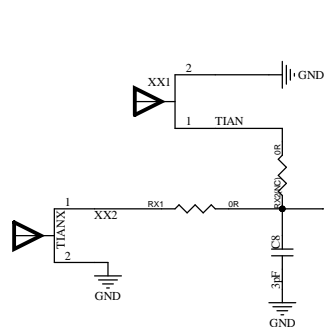
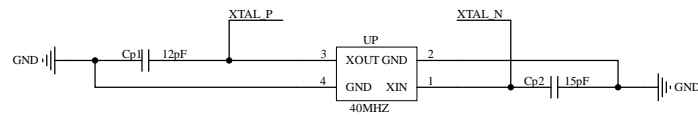
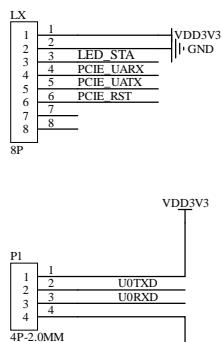


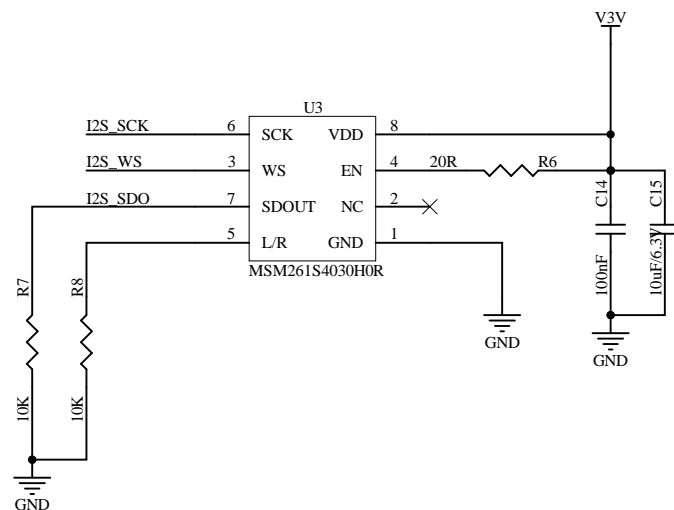
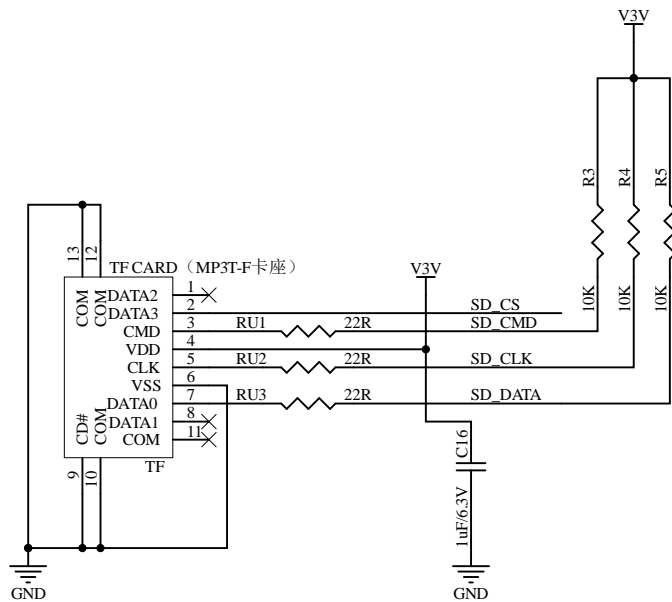
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Figure 1 shows the pin connections for the ATmega328P microcontroller. The pins are arranged in two rows. The top row includes BAT\_ADC, GPIO0, U0TXD, U0RXD, and CHIP\_PU. The bottom row includes ESP\_USB\_DM, ESP\_USB\_DP, and PWR\_EN. Each pin is represented by a trapezoidal symbol with its name inside, connected to a horizontal line representing the pin.



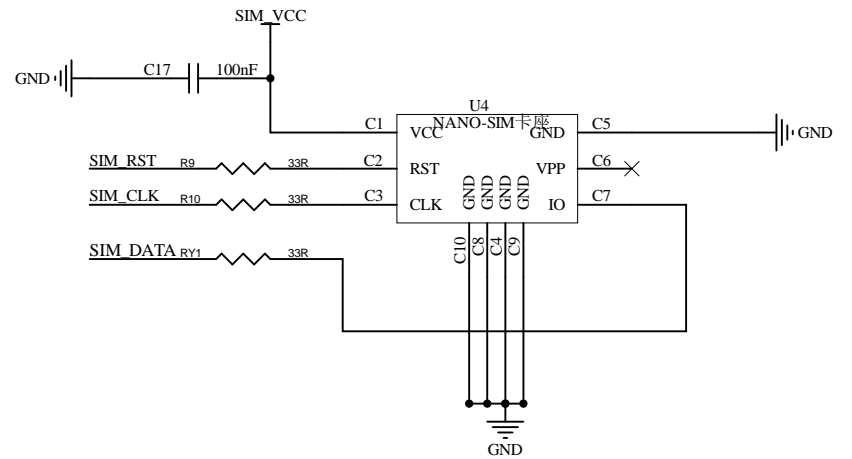
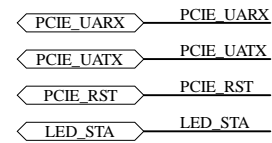
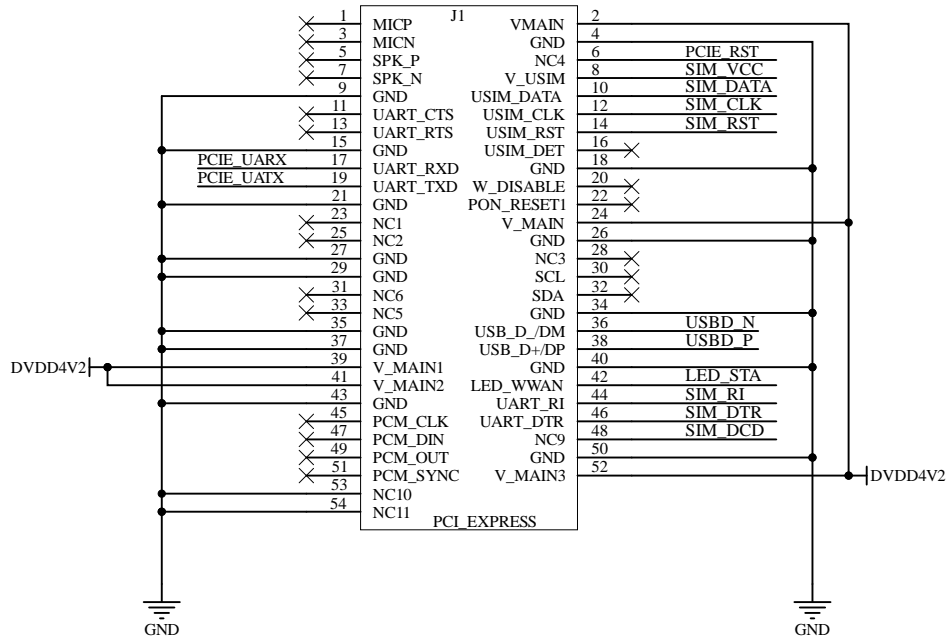
GPIO0	---默认上拉
GPIO45	---默认下拉
GPIO46	---默认下拉
GPIO46(1)	----GPIO0(0) 不可使用

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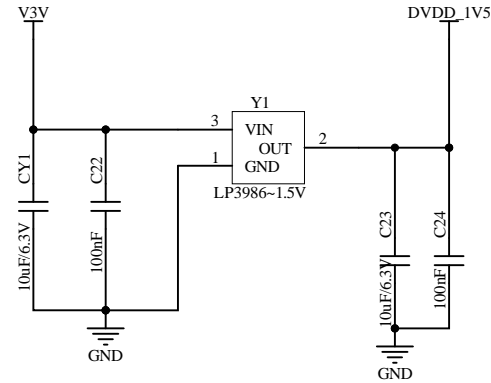
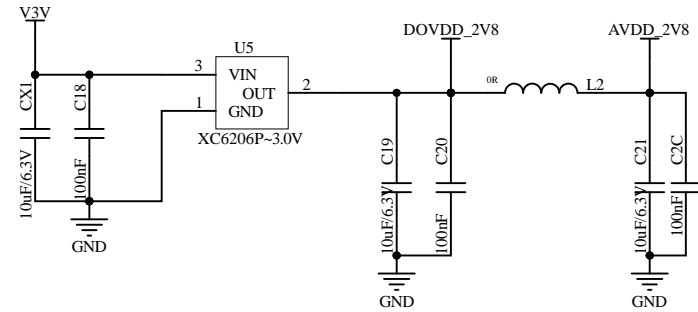
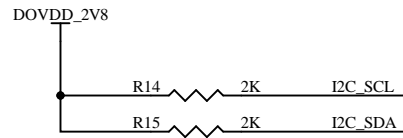
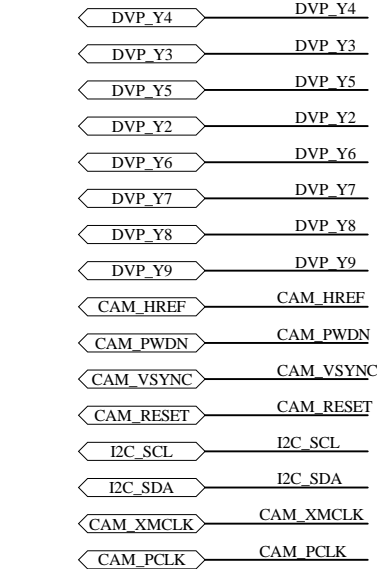
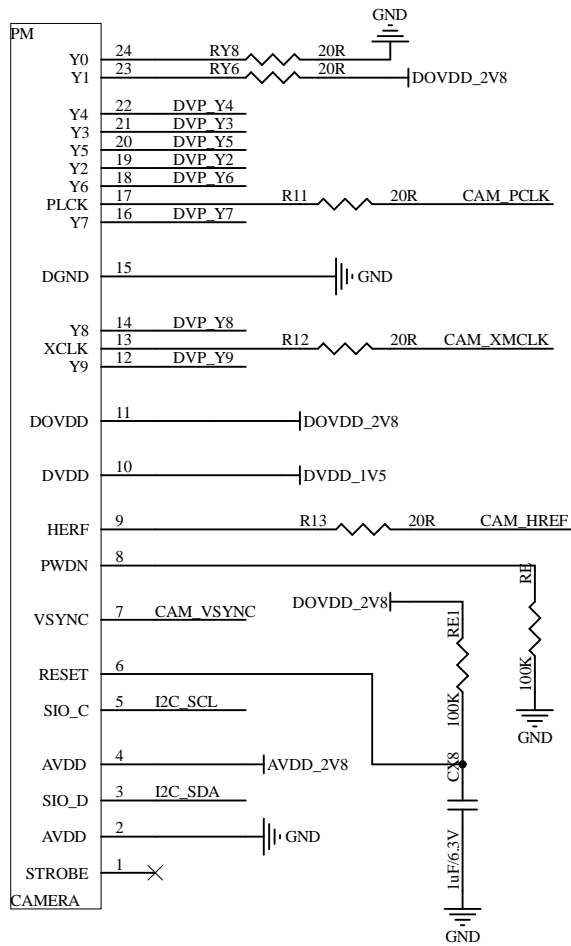


SD_CS	SD_CS
SD_CMD	SD_CMD
SD_CLK	SD_CLK
SD_DATA	SD_DATA
I2S_SCK	I2S_SCK
I2S_WS	I2S_WS
I2S_SDO	I2S_SDO

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PWR\_EN PWR\_EN  
BAT\_ADC BAT\_ADC  
GPIO0 GPIO0  
U0TXD U0TXD  
U0RXD U0RXD  
CHIP\_PU CHIP\_PU  
ESP\_USB\_DM ESP\_USB\_DM  
ESP\_USB\_DP ESP\_USB\_DP

电池升压

USB降压模块

VV\_BAT----电池

充电IC

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