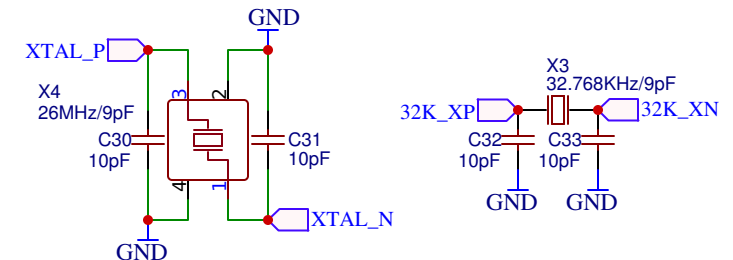
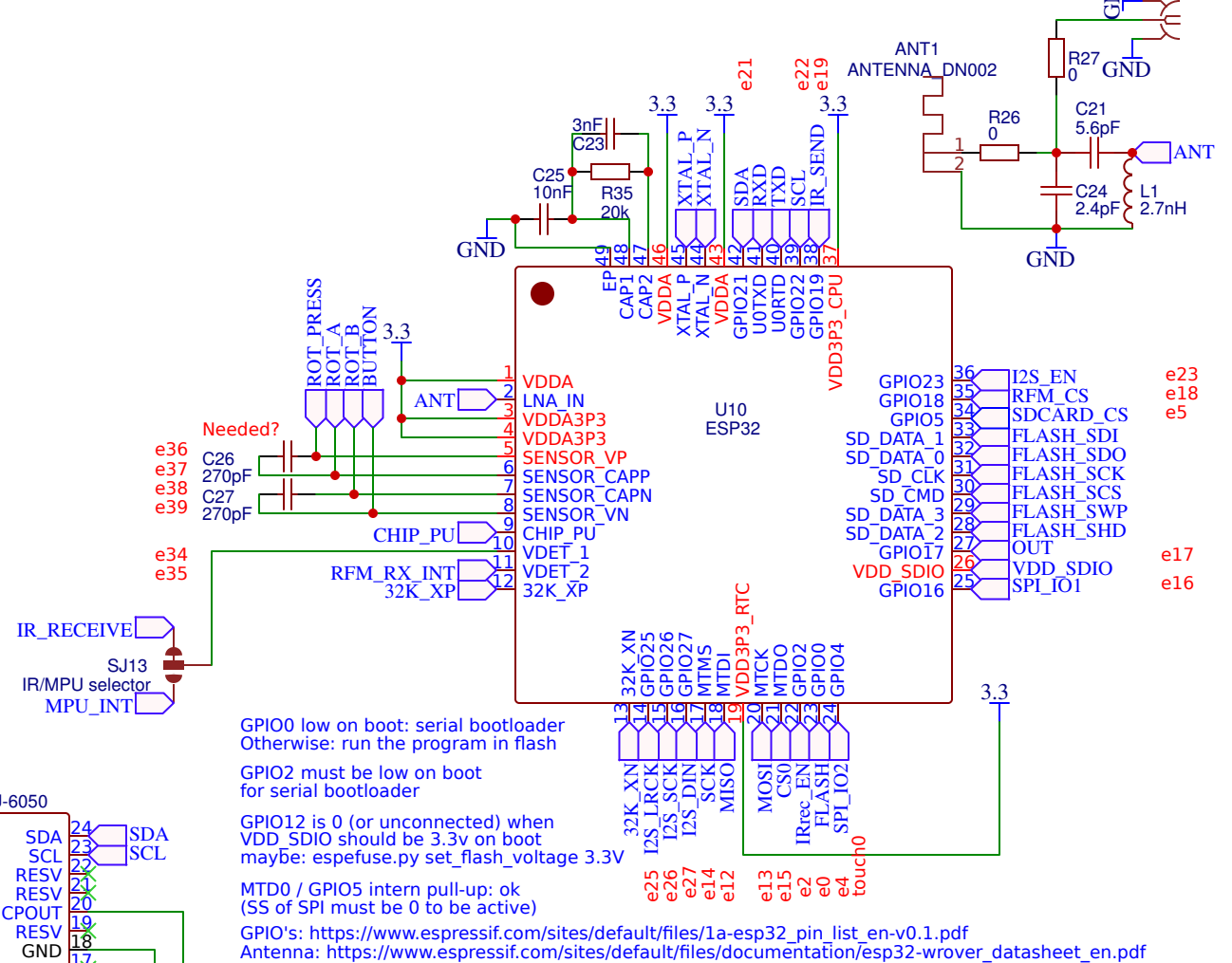
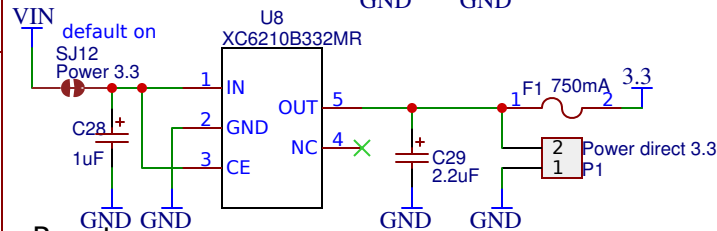


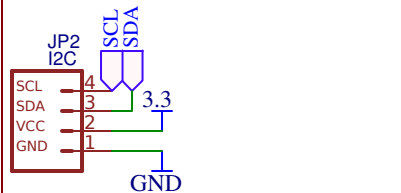
The diagram shows the USB2 Micro USB connector and its internal components. The connector pins are labeled: GND, ID, MTN4, MTN3, D+, D-, VBUS, MTN2, and MTN1. The internal components include a Shottky diode D2, a MOSFET Q3 (AO3401A), a resistor R3 (10k), and a power extension connector P2 (2 1). The power extension connector is labeled "Power Ext 2.8-6.5V". A red text annotation "missing ESD from USB w" is present.



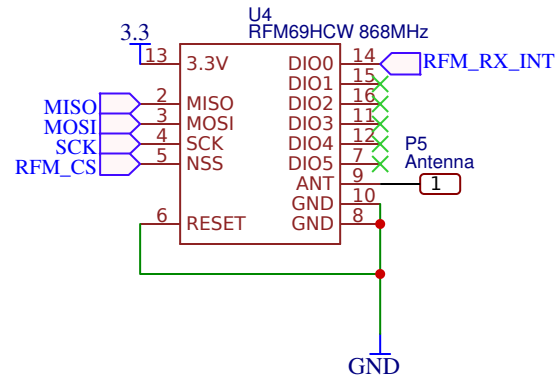
26 or 40MHz supported  
<https://esp32.com/viewtopic.php?t=1940>

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## I2C Connector

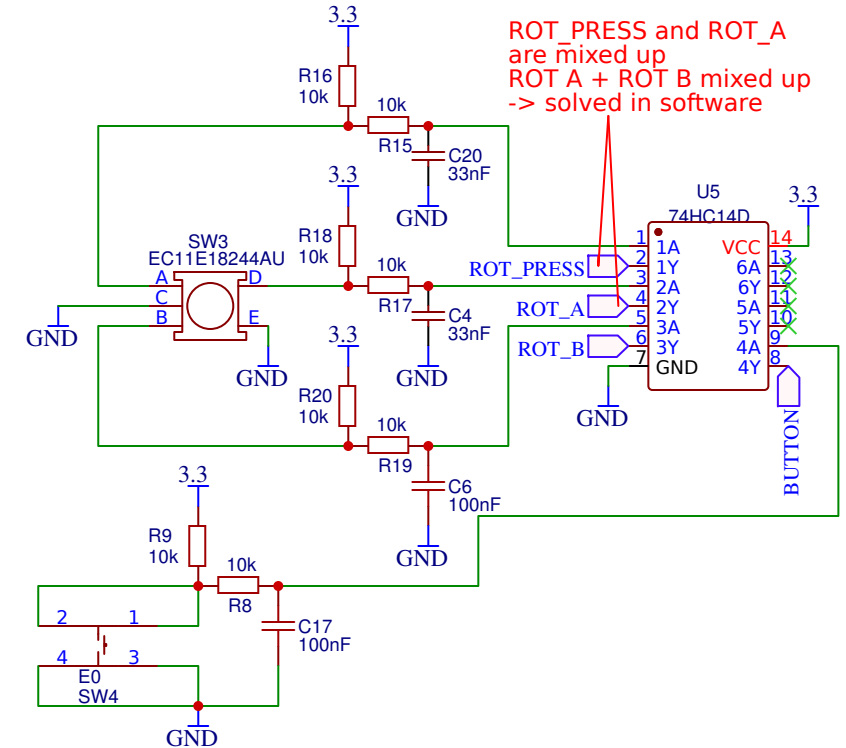


## RFM69 (SPI)



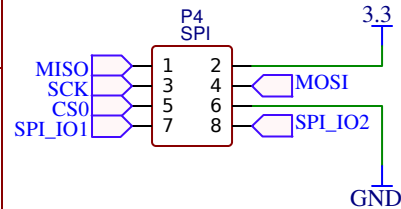
## Rotary Button (debounced)

<https://hackaday.com/2015/12/09/embed-with-elliott-debounce-your-noisy-buttons-part-i/>  
<https://www.allaboutcircuits.com/projects/how-to-use-a-rotary-encoder-in-a-mcu-based-project/>

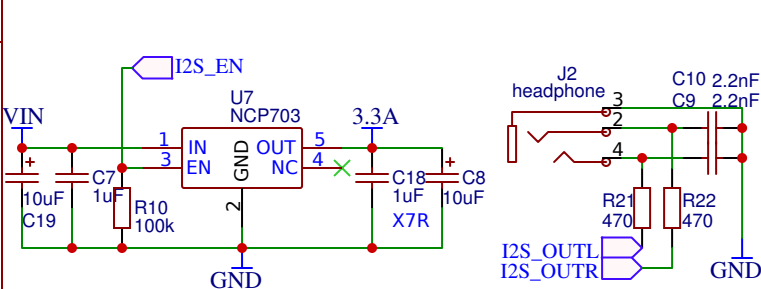


ROT\_PRESS and ROT\_A are mixed up  
 ROT A + ROT B mixed up  
 -> solved in software

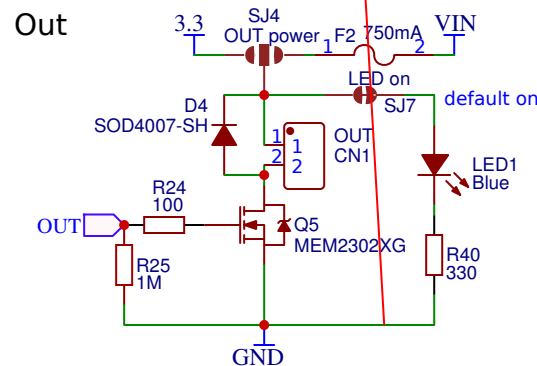
## SPI Connector



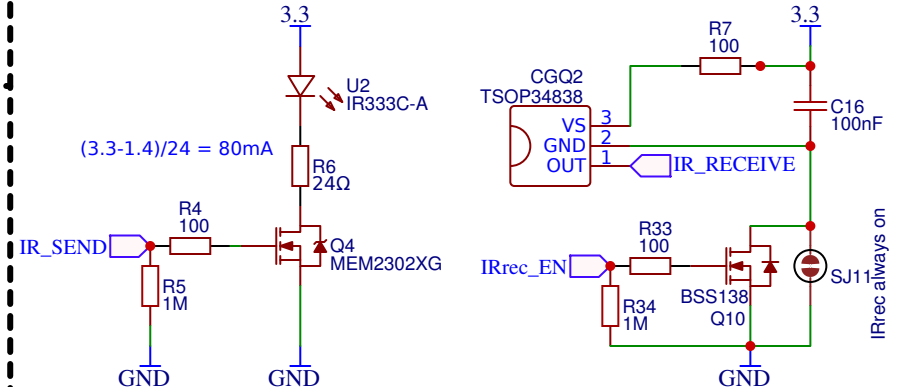
## I2S



## Out

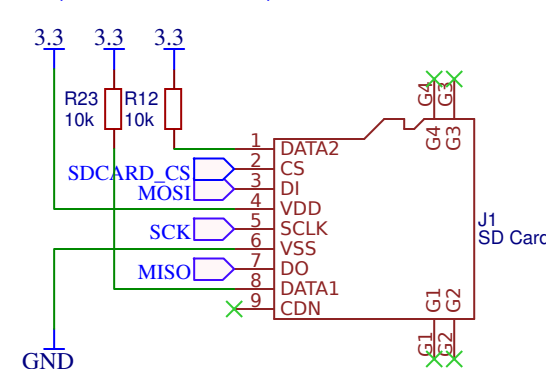


## Infrared



## Micro SD card

Pullups on all unused data pins



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