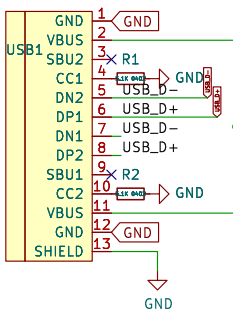


2x 5.1K Resistors on the CC pins will = 5V@1.5A  
this is the recommended default config for type-c

TYPE-C-31-M-12

## USB/POWER



D1 NEEDS to be 500mA hold current  
1N4002W  
500mA hold current  
1A trip  
6V trip

Only fit cBP1 if you have selected an  
alternate voltage regulator  
TLV75533PDBVR does not require cBP1.

Make sure C3 is close to pin 45 of RP2040

These decoupling capacitors are meant  
to be put close by each 3.3V pin of the RP2040

Make sure C10 is close to pin 44 of RP2040

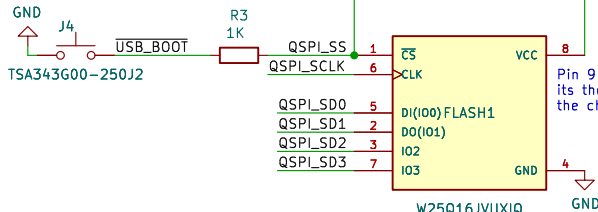
supposedly the rp2040  
supports SPI-2 flash  
but I haven't tried it.

Would assume you could just  
not connect SD2 and SD3 for non QSPI

this is for factory testing  
always pull this to ground

Make sure the flash chip you  
have selected supports 3.3V  
power or adjust the design.

## Flash



Im pretty sure a lot of these W25QXXX Chips are pin compatible  
Dont quote me on that

Im unsure if the RP2040 can function with flash larger than 128Mb

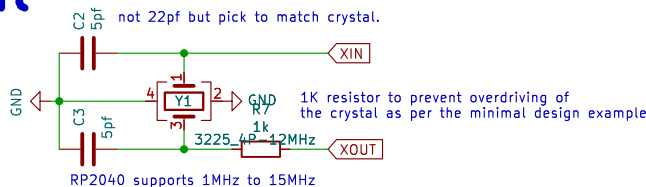
GD25Q40CE1GR is NOT Compatible  
you need GD25W16\* needs to be a multiple of 8 atleast for circuitpython.

(Ive not confirmed if GD25W16 works I just  
Have some boards with GD25Q40CE1GR and they dont work)

<https://datasheets.raspberrypi.com/rp2040/hardware-design-with-rp2040.pdf>

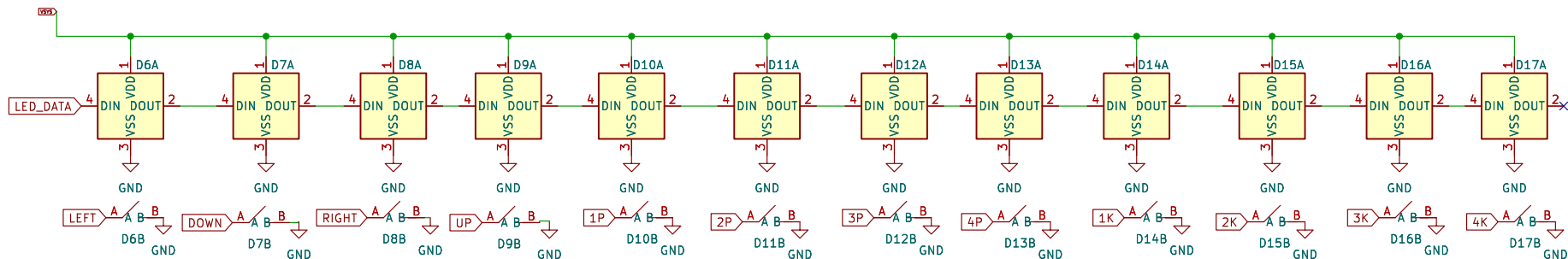
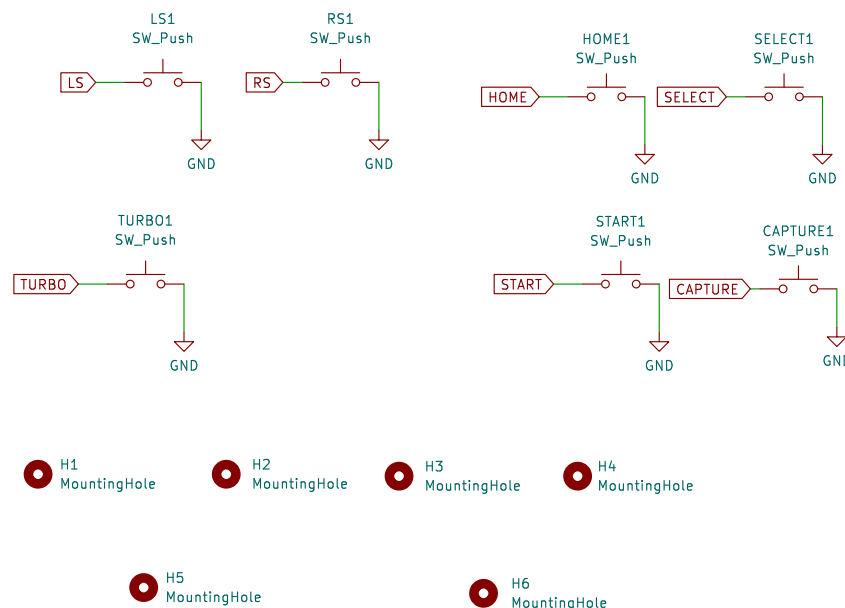
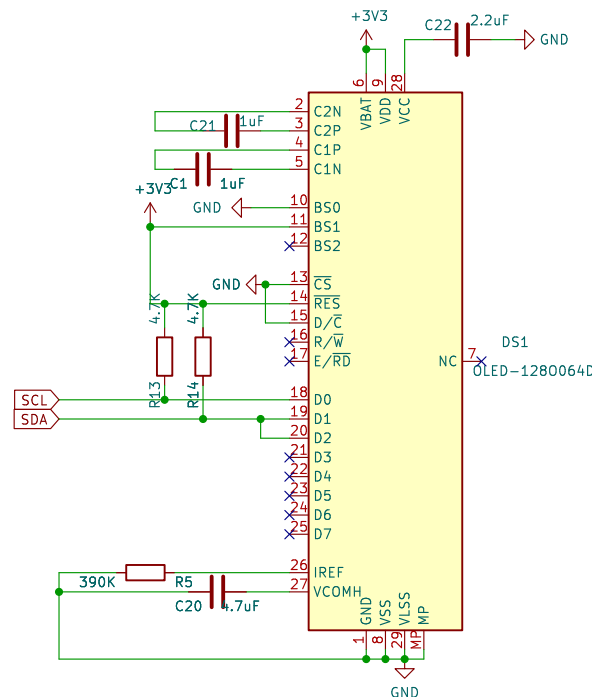
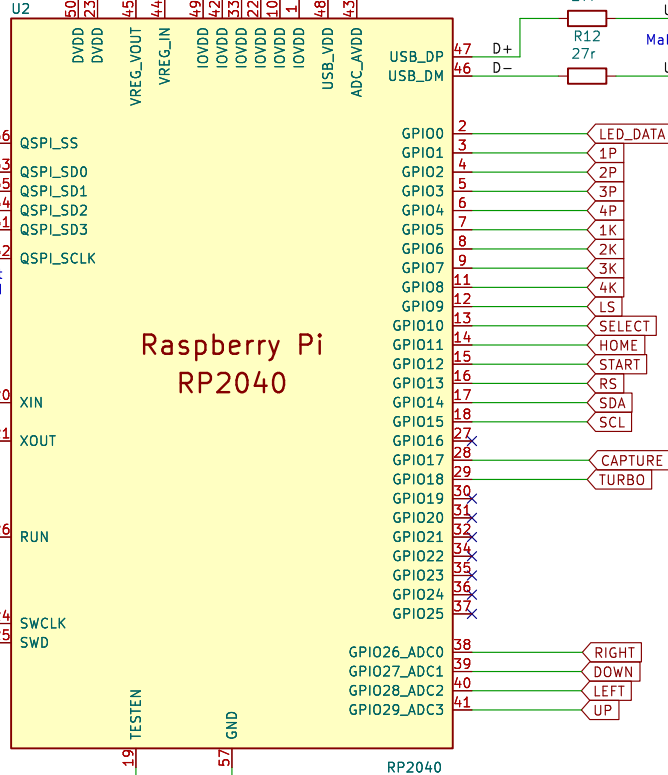
On page 13 you can learn more details of what flash is supported

## Crystal



RP2040 supports 1MHz to 15MHz

## Raspberry Pi RP2040



xinole electronics CO.,LTD

Sheet: /  
File: FightingBox-XLL-Mini.kicad\_sch

**Title: INNEX FightingBoard v1.0**

Size: A3 Date: 2023-03-02

KiCad E.D.A. kicad 7.0.5-0

Rev:

Id: 1/1