

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

## Clocks Buttons



File: Clocks\_Buttons.kicad\_sch

## Memory



File: Memory.kicad\_sch

## Audio Video



File: Audio\_Video.kicad\_sch

## STM32



File: STM32.kicad\_sch

## Connections



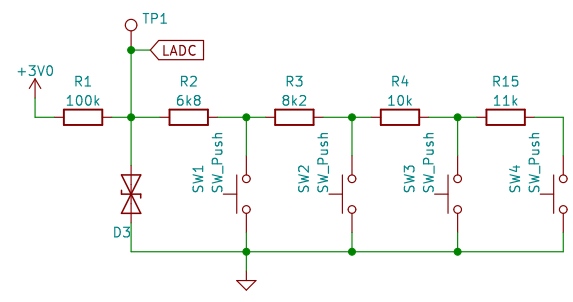
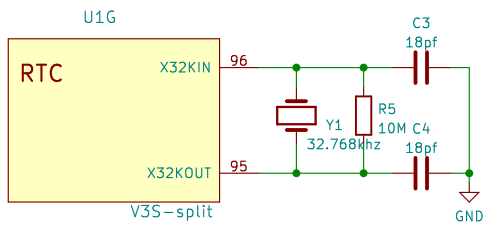
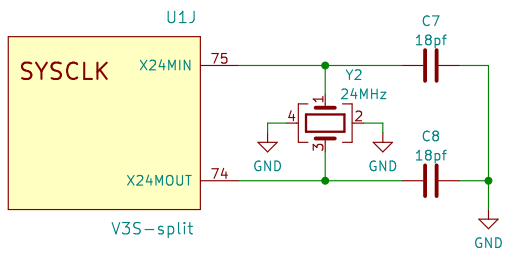
File: Connections.kicad\_sch

## Power



File: Power.kicad\_sch

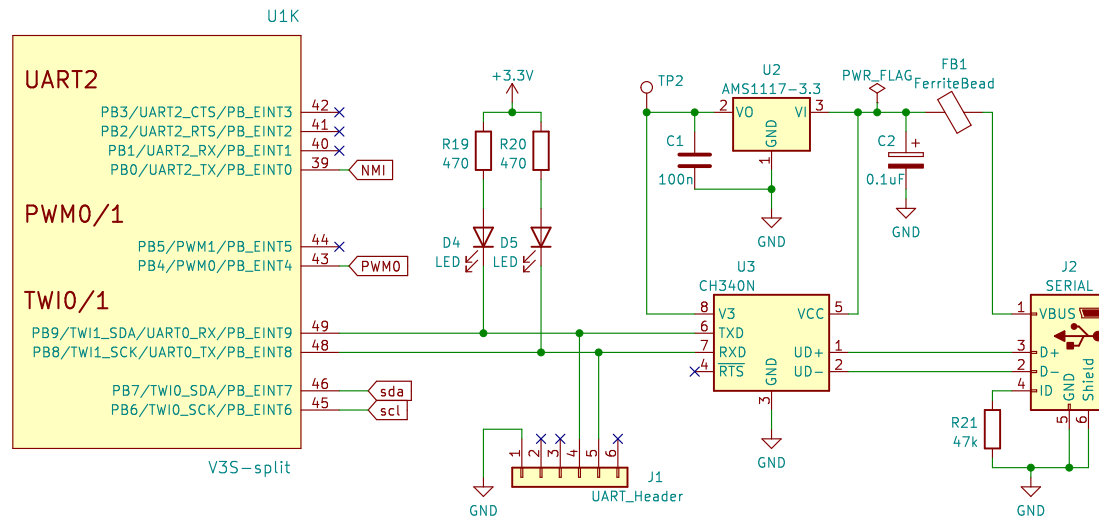
Sheet: /		
File: lb_mp1.kicad_sch		
<b>Title: OzzyBoard</b>		
Size: A3	Date: 2023-03-07	Rev: 0.9
KiCad E.D.A. kicad (6.0.8)		Id: 1/7



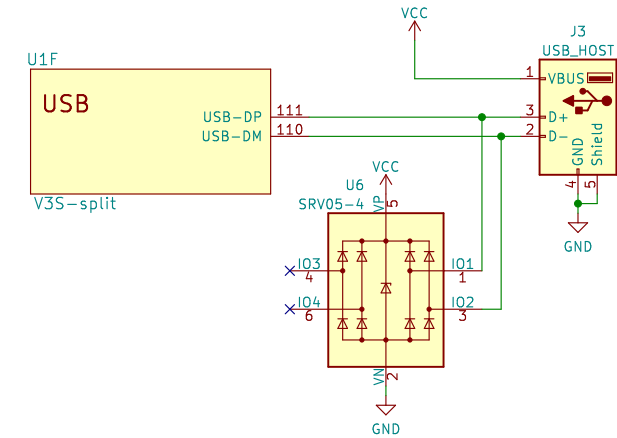
- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Sheet: /Clocks Buttons/ File: Clocks_Butons.kicad_sch		
Title: <b>OzzyBoard</b>		
Size: A4	Date: 2023-03-07	Rev: 0.9
KiCad E.D.A. kicad (6.0.8)		Id: 2/7

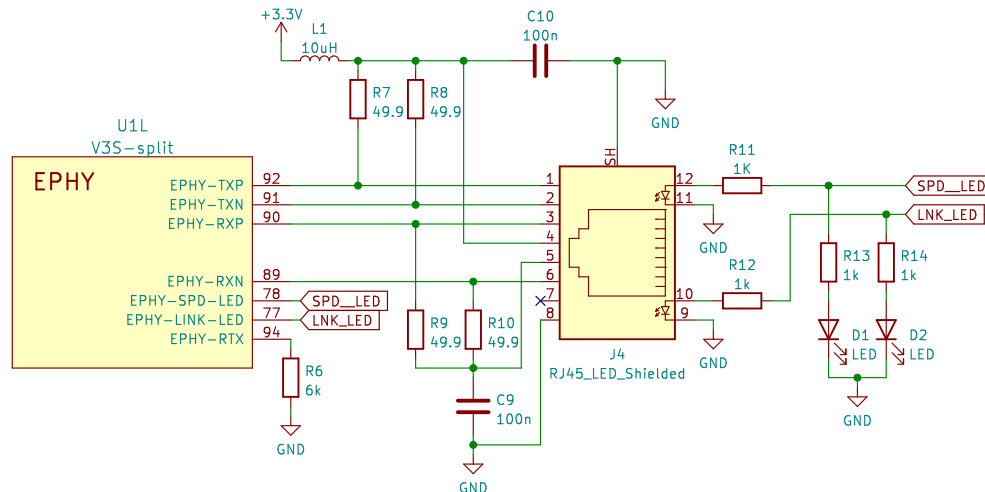
## I2C/PWM/Serial



## USB Host



## Eth PHY



Sheet: /Connections/  
File: Connections.kicad\_sch

**Title: OzzyBoard**

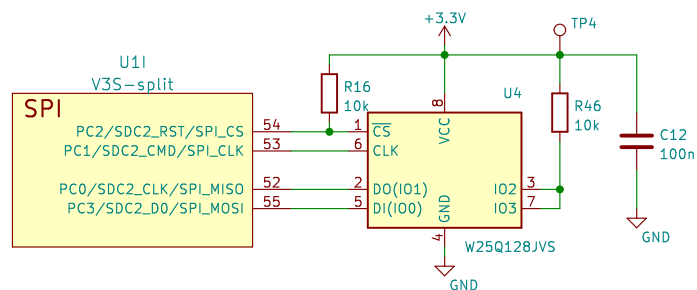
Size: A4 Date: 2023-03-07

KiCad E.D.A. kicad (6.0.8)

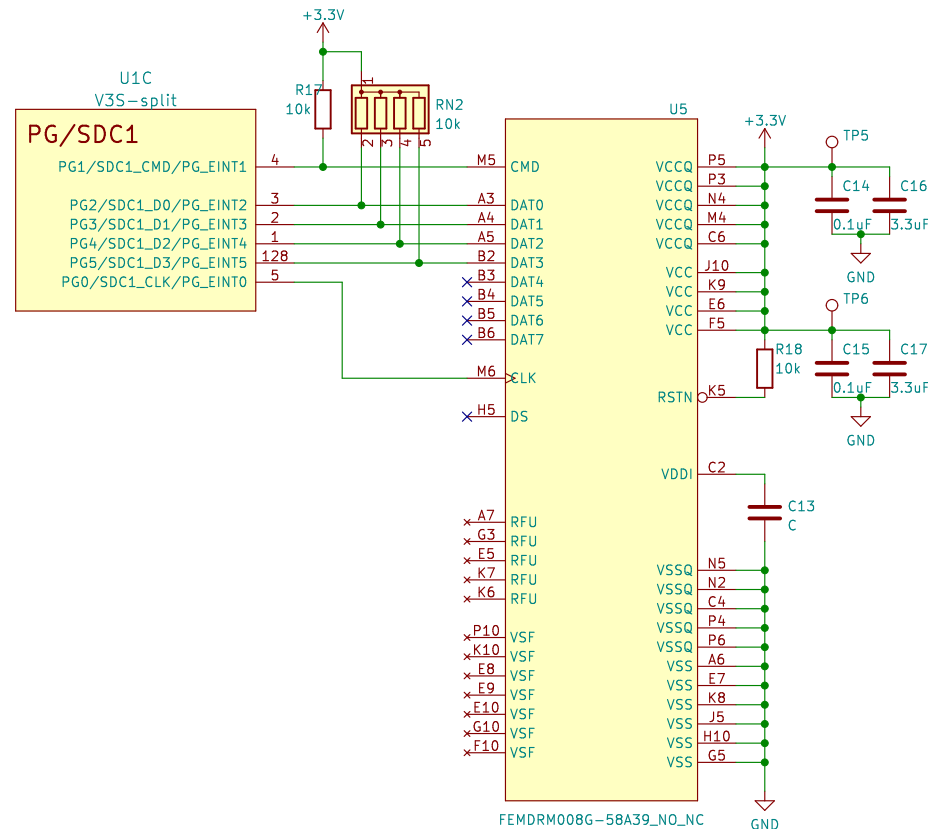
**Rev: 0.9**

Id: 3/7

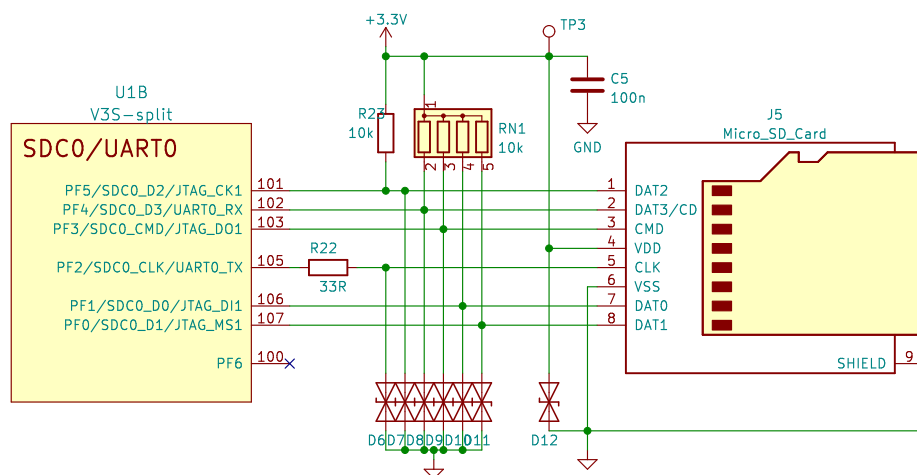
# SPI NOR Flash



# eMMC



# SD Card



Sheet: /Memory/  
File: Memory.kicad\_sch

**Title: OzzyBoard**

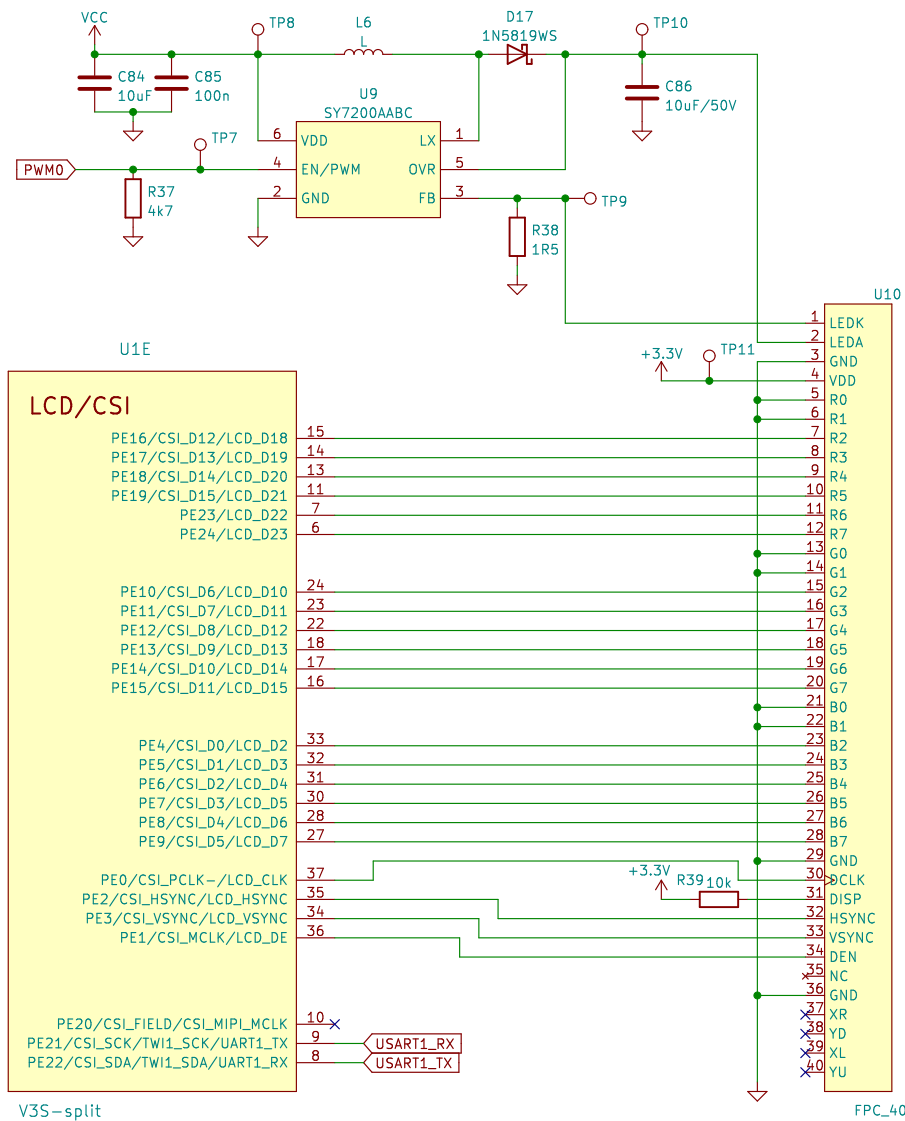
Size: A4 Date: 2023-03-07

KiCad E.D.A. kicad (6.0.8)

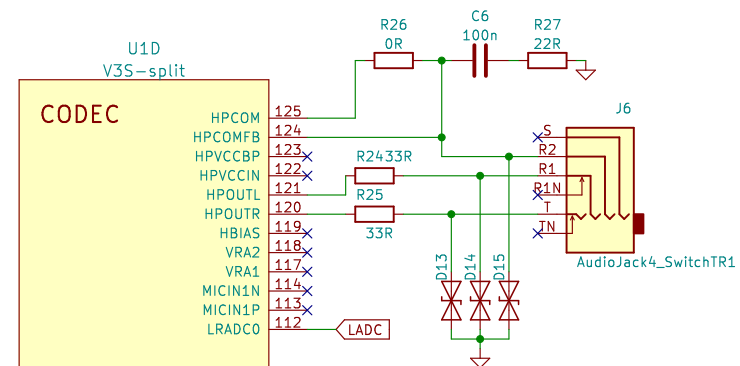
**Rev: 0.9**

Id: 4/7

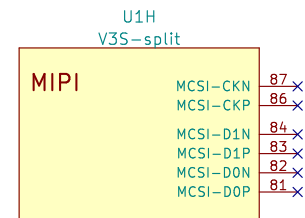
## LCD 40 pins



## Audio jack



# Camera



Sheet: /Audio Video/  
File: Audio\_Video.kicad\_sch

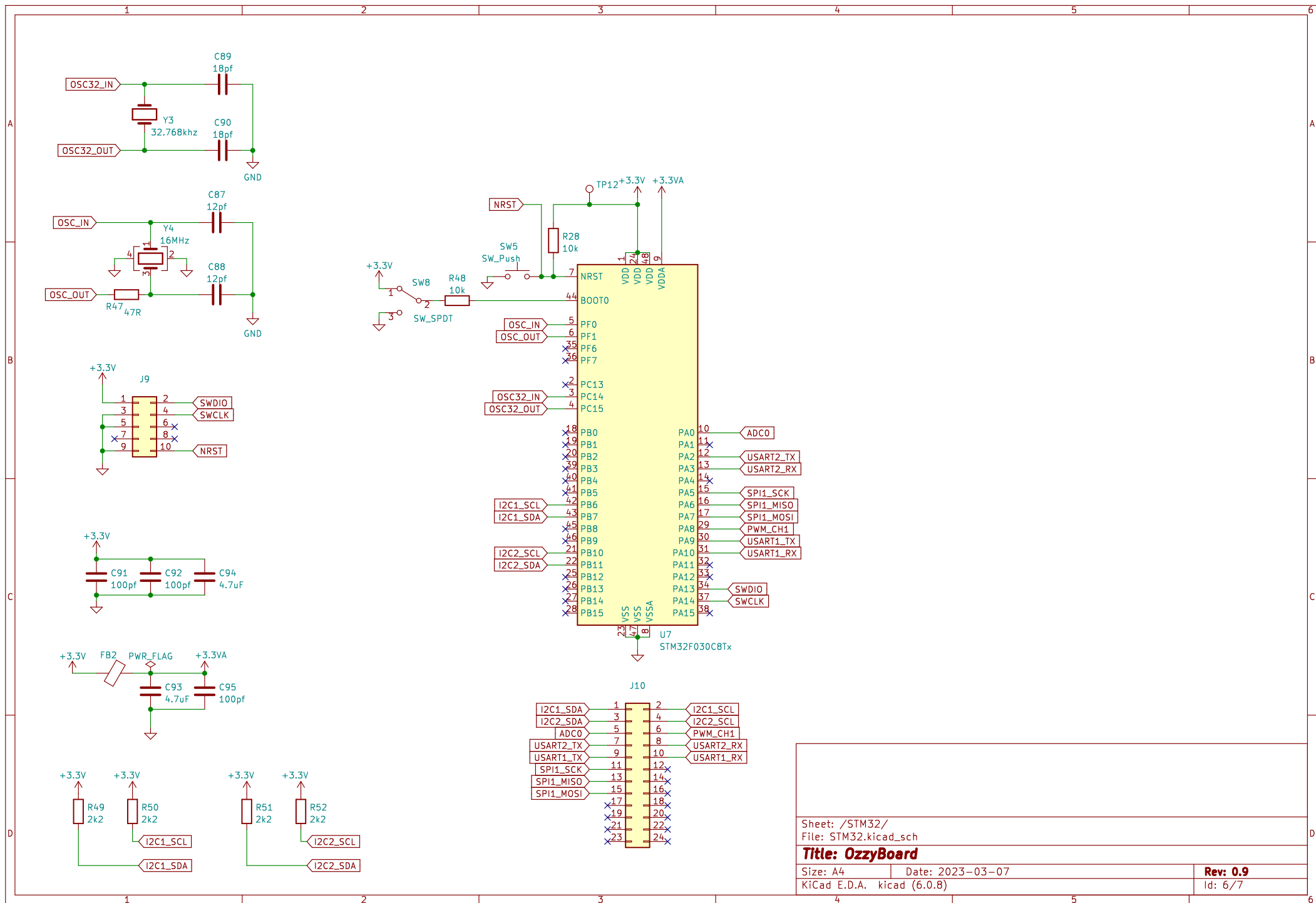
**Title: OzzyBoard**

Size: A4	Date: 2023-03-07
----------	------------------

KiCad E.D.A.	kicad (6.0.8)
--------------	---------------

Rev: 0.9

Id: 5/7



# Decoupling

The diagrams illustrate the placement of decoupling capacitors for various power planes in a PCB layout. Each diagram shows a power plane (Vcpu, Vsys, Vio, Ephy-vdd, Ephy-vc, Vcc-rtc, Vcc-mcs1, Vcc-pil, Vram, Vcc-pe, Avcc) connected to a ground plane. Capacitors are placed at specific locations, with values ranging from 10uF to 100nF. The locations are marked by numbers (e.g., 2-3, 0-1, 4, 5, 6, 7 for Vcpu; 0-5, 6, 7, 8-11 for Vram).

**Vcpu**

Location	Capacitor	Value
2-3	C11	10u
0-1	C23	1u
4	C29	100n
5	C36	100n
6	C41	100n
7	C46	100n

**Vsys**

Location	Capacitor	Value
0-1	C18	10u
4	C24	1u
5	C30	1u
6	C37	100n
7	C42	100n
8	C47	100n

**Vio**

Location	Capacitor	Value
0-1	C19	10u
4	C25	1u
5	C31	100n
6	C38	100n

**Ephy-vdd**

Location	Capacitor	Value
0-1	C20	1u

**Ephy-vc**

Location	Capacitor	Value
0-1	C28	1u

**Vcc-rtc**

Location	Capacitor	Value
0-1	C34	100n

**Vcc-mcs1**

Location	Capacitor	Value
0-1	C44	100n

**Vcc-pil**

Location	Capacitor	Value
0-1	C48	100n

**Vram**

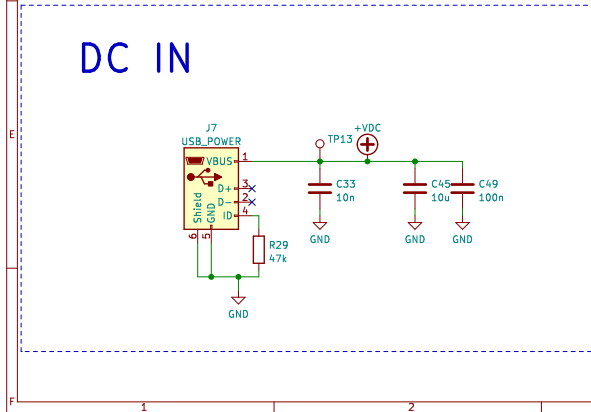
Location	Capacitor	Value
0-5	C21	10u
6	C26	1u
7	C32	100n
8	C39	1u
9	C43	100n

**Vcc-pe**

Location	Capacitor	Value
0-1	C22	100n
2	C27	100n

**Avcc**

Location	Capacitor	Value
0-1	C35	100n
2	C40	10u

[illegible]