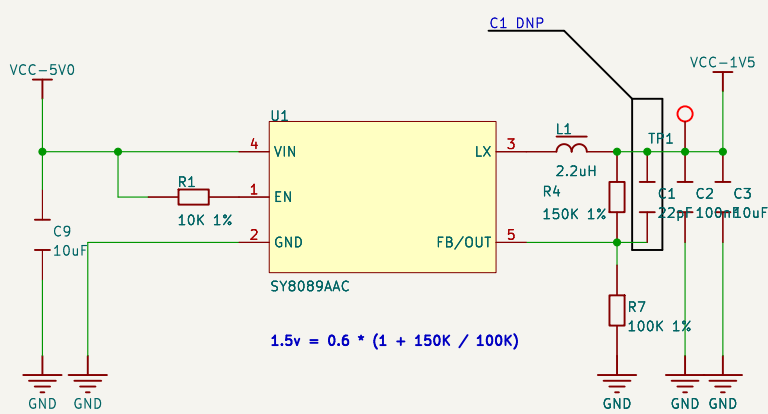


Power Scheme

Sakura Pi RK3308B

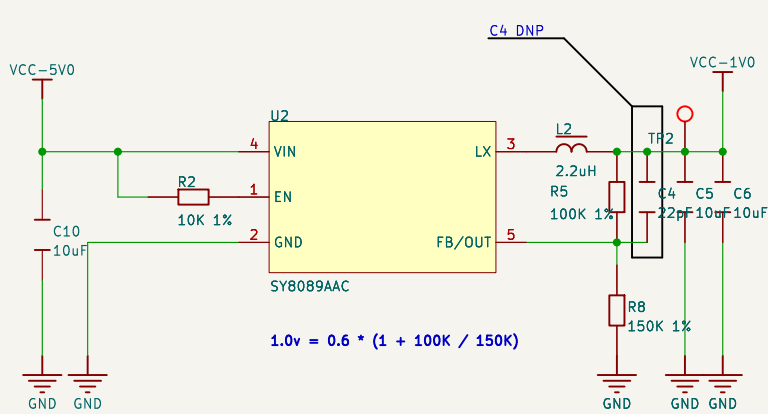
SY8089A

DRAM 1.5v / 2A OUTPUT



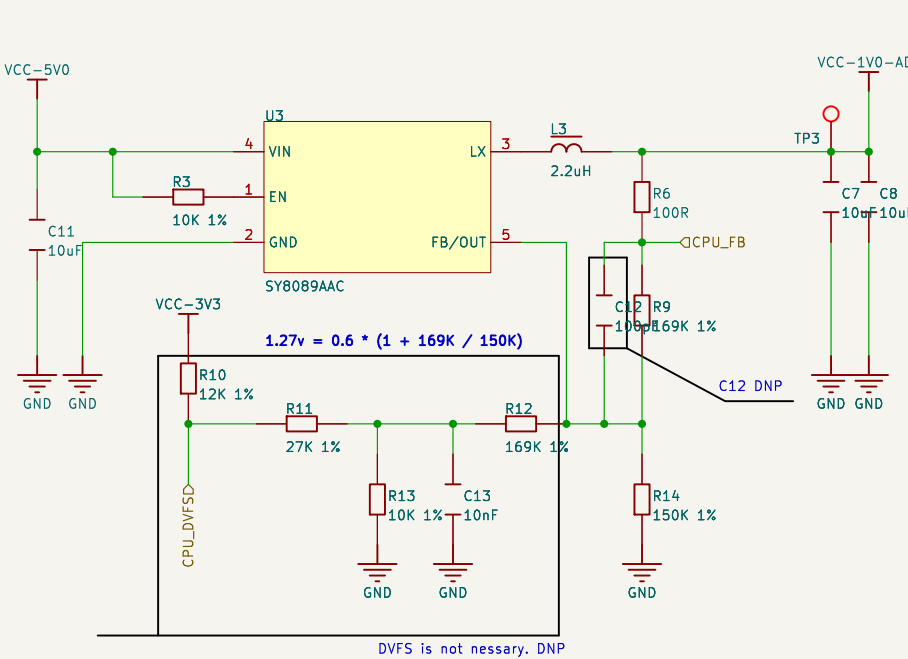
SY8089A

CORE-LOGIC 1.0v / 2A OUTPUT



SY8089A

CPU-CORE 1.0-1.35v / 2A OUTPUT

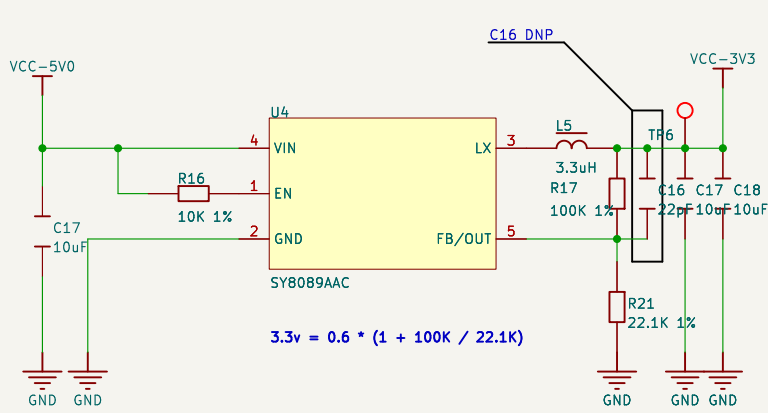


CPU_DVFS

Using CPU PWM output for interfering with the feedback cause the output voltage can be kept in the range of 1.0v to 1.35v

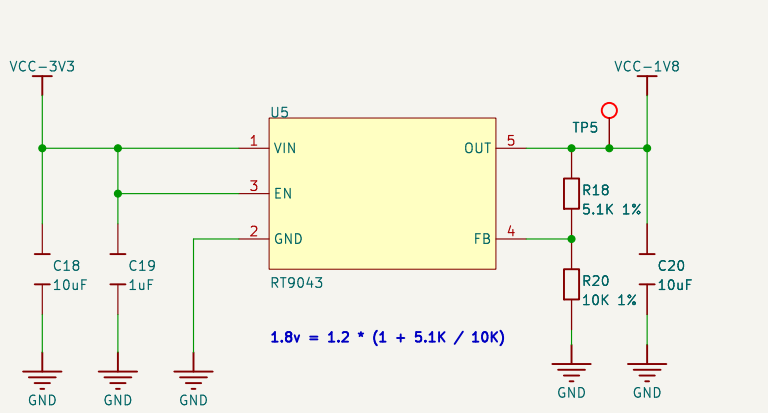
SY8089A

3V3-IO 3.3v / 2A OUTPUT



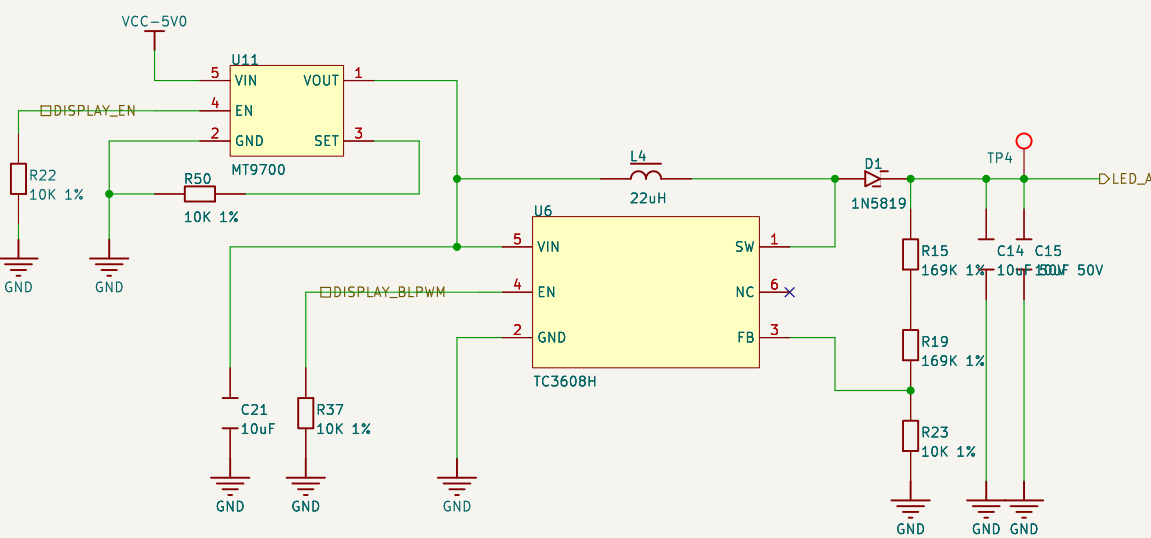
TMI6030/RT9043

1V8-IO 1.8v / 300mA OUTPUT

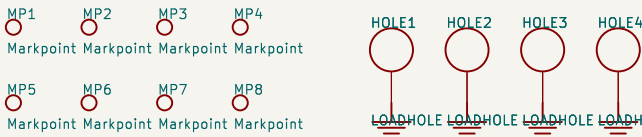
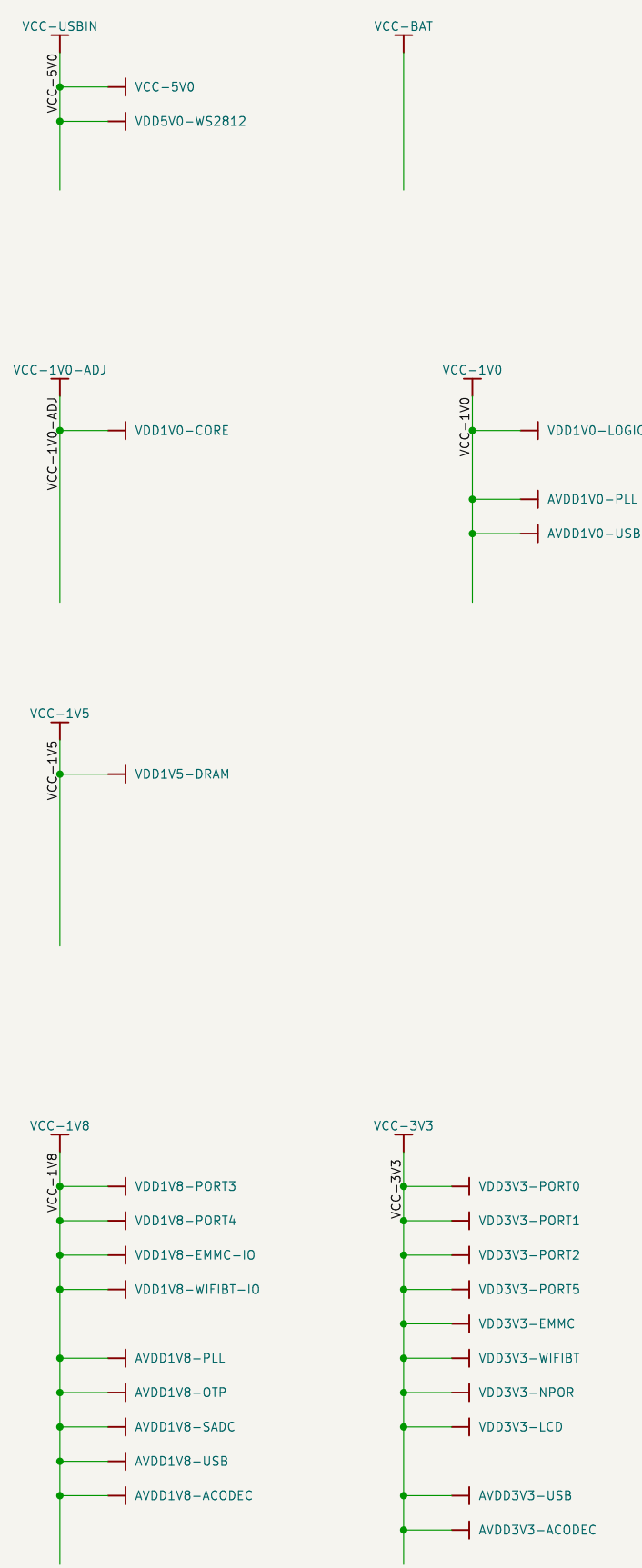


TC3608H

DISPLAY-BG 21v / 20mA OUTPUT

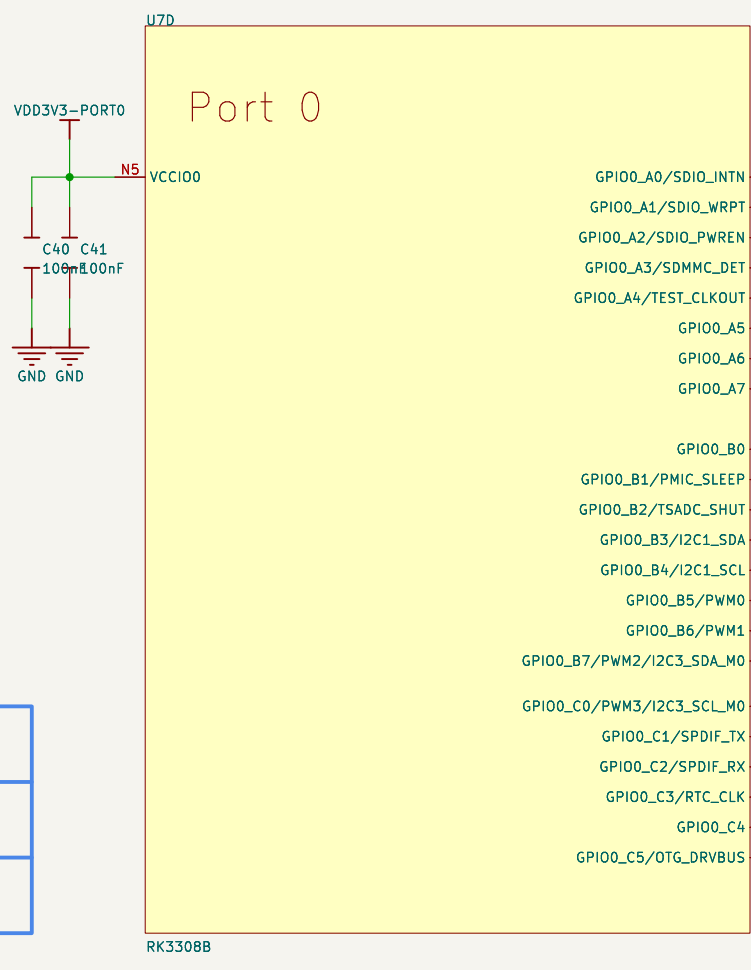
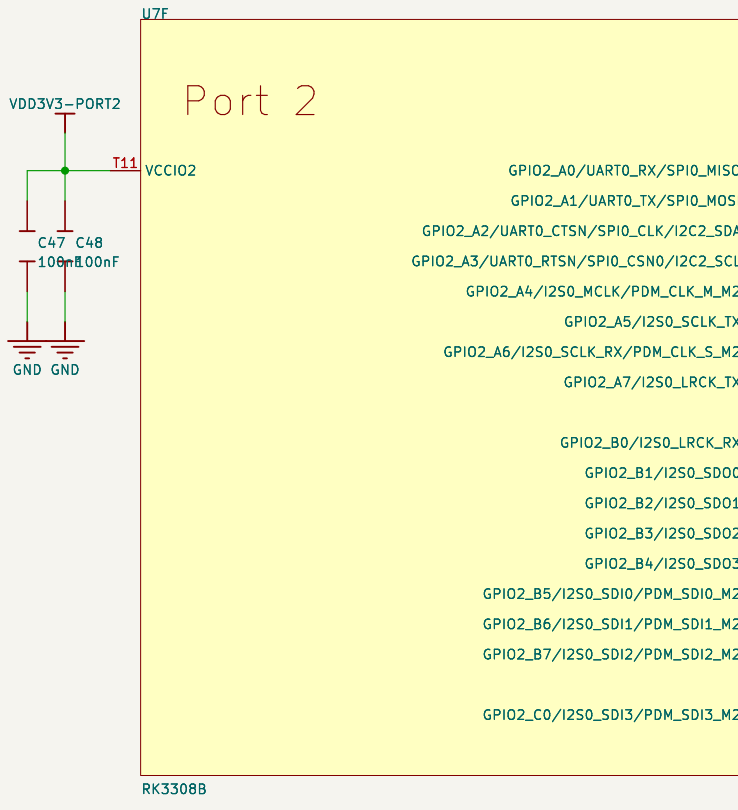
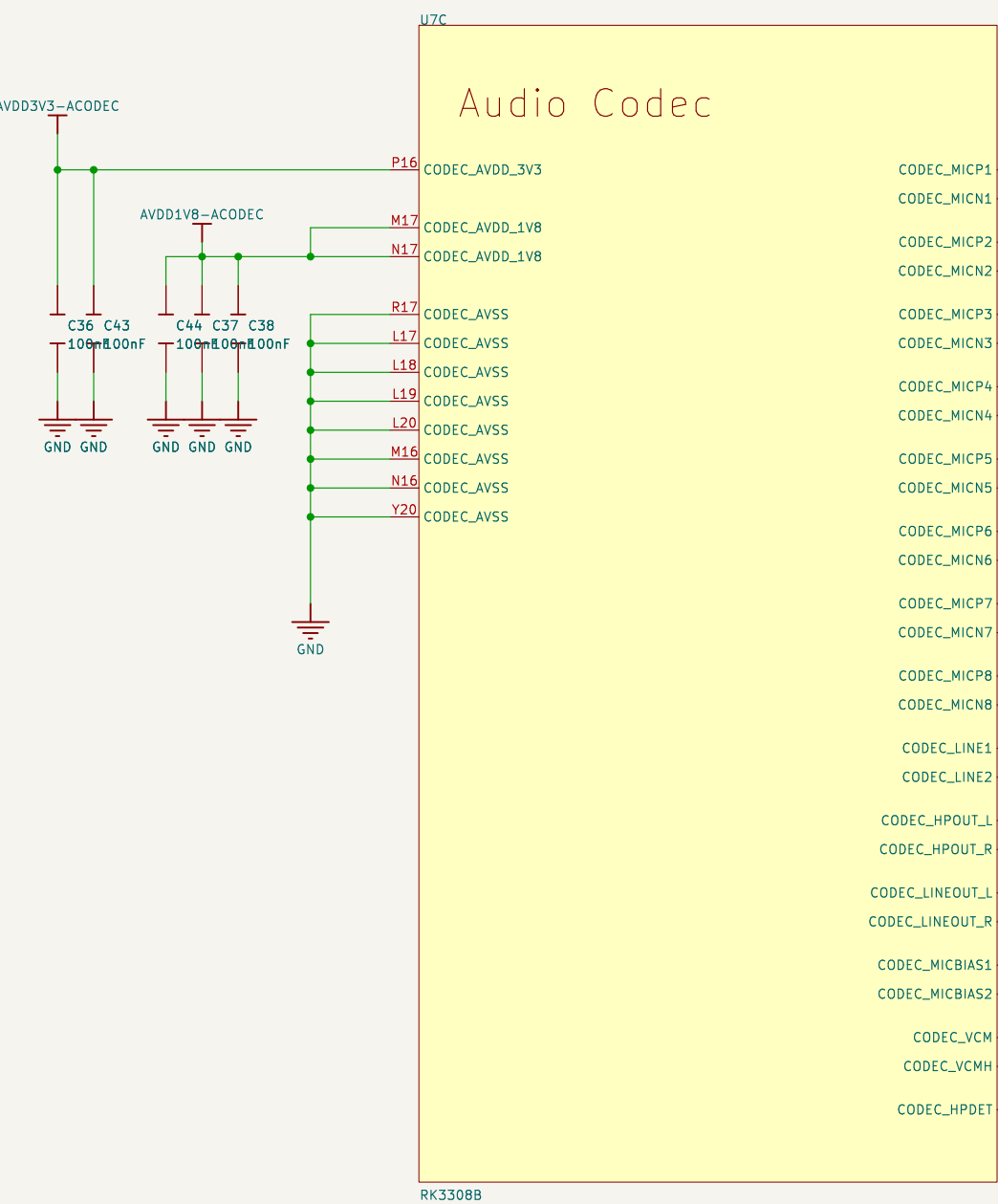
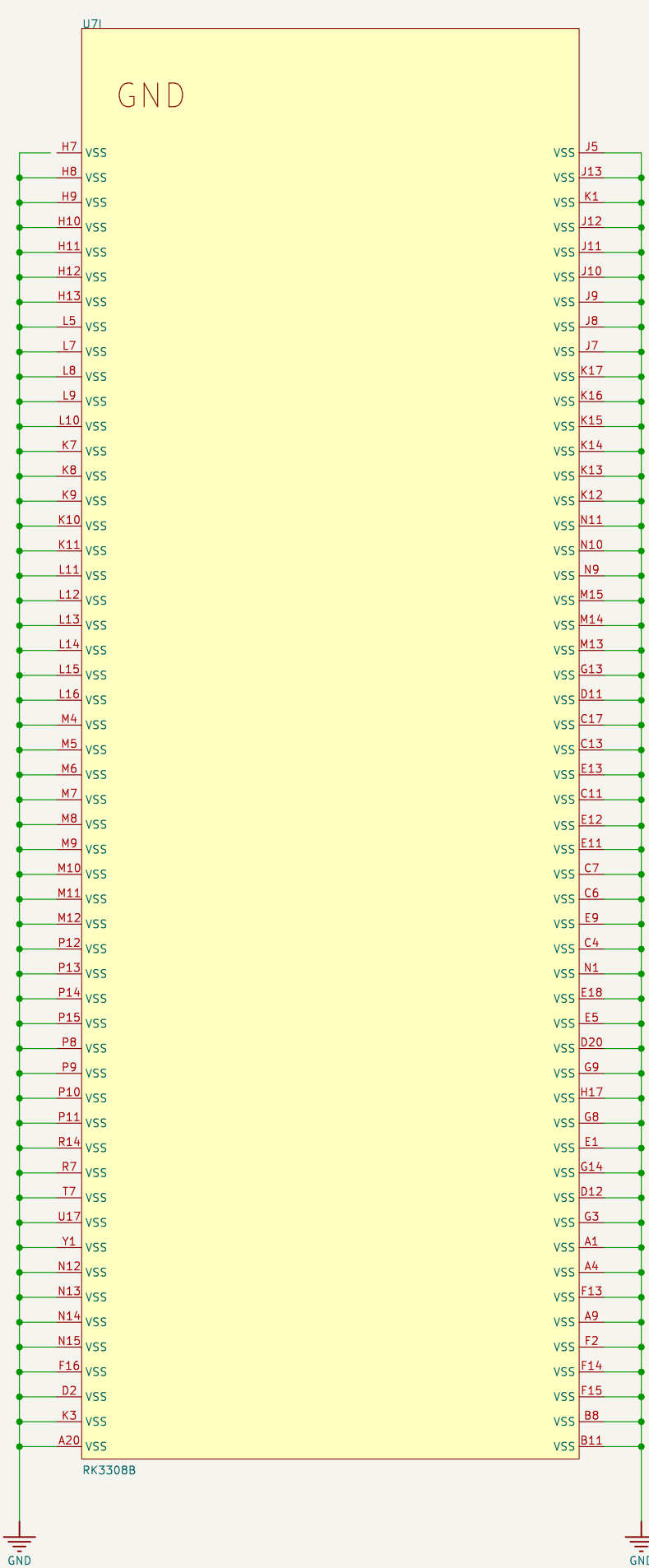
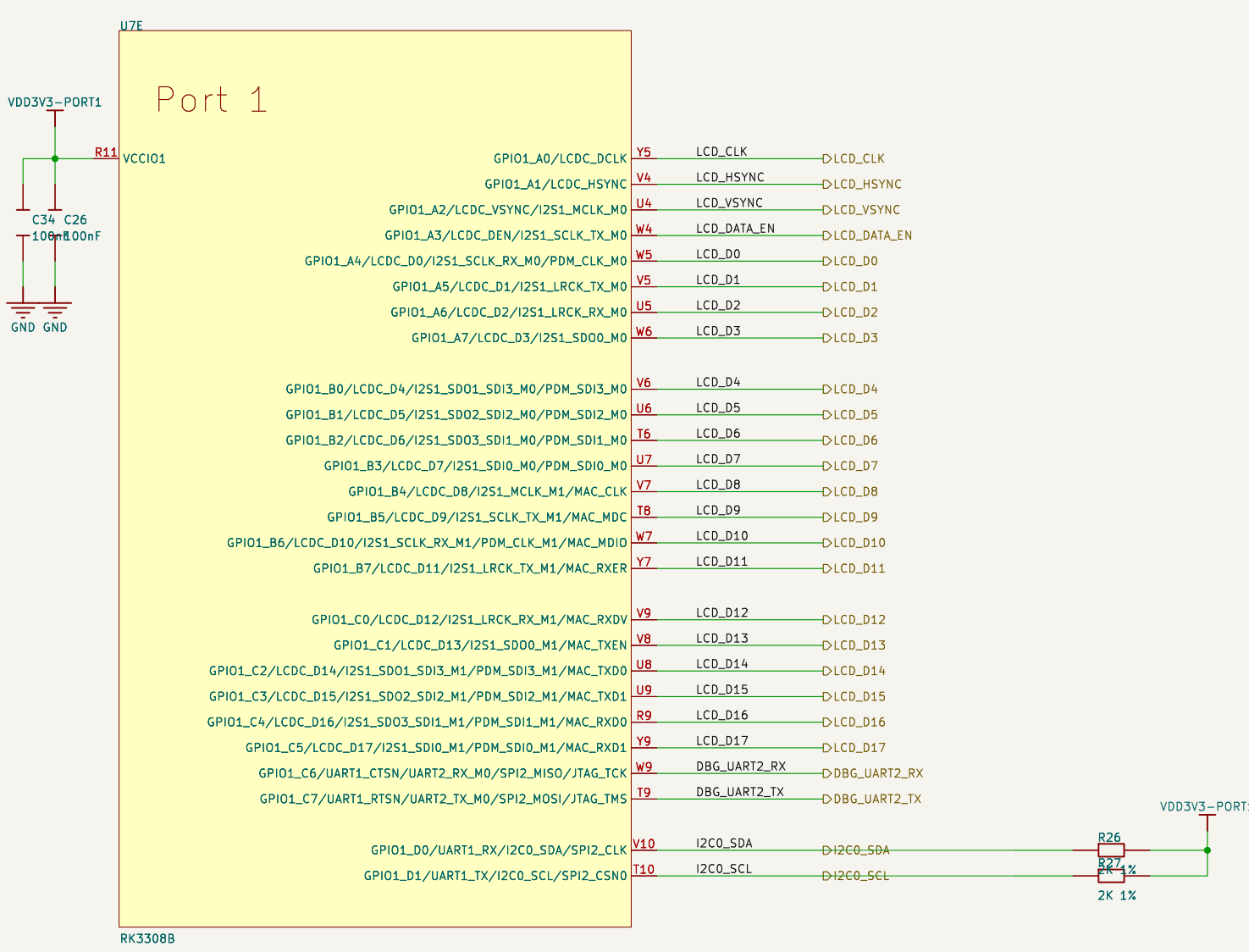
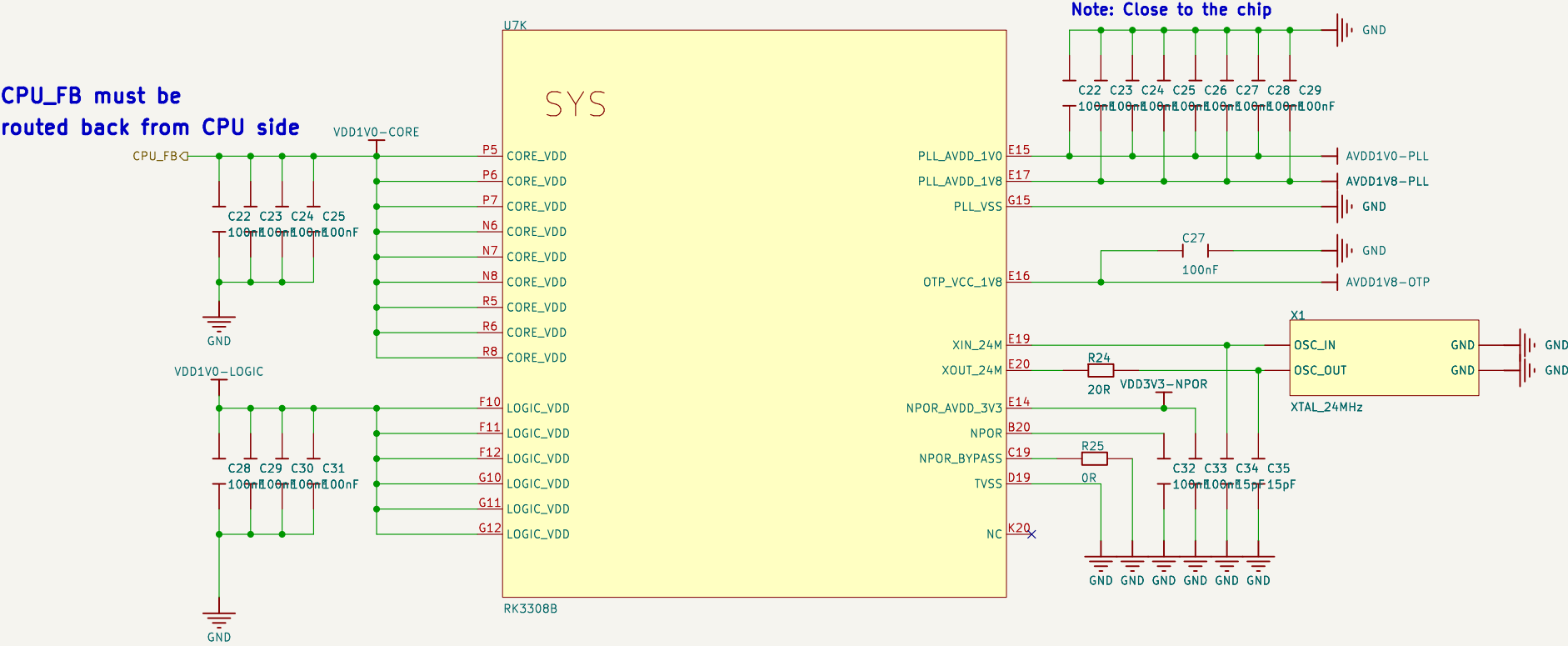


Power Tree



CPU Core

Sakura PI RK3308B

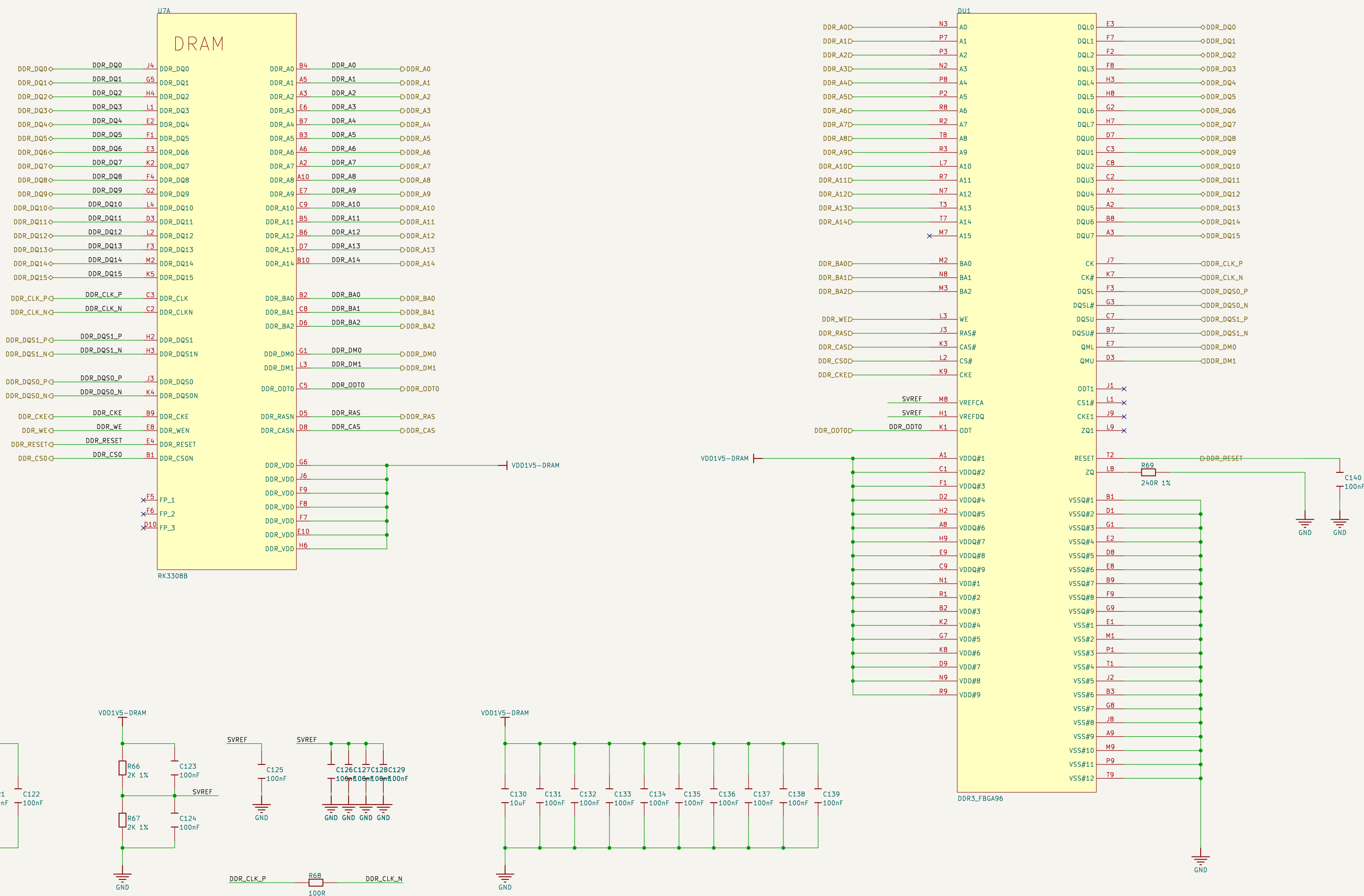


PIN R3 default as FLASH_SEL function

Speed	Voltage	R3 state
HS200	1.8v	HIGH
MMCHS	3.3v	LOW

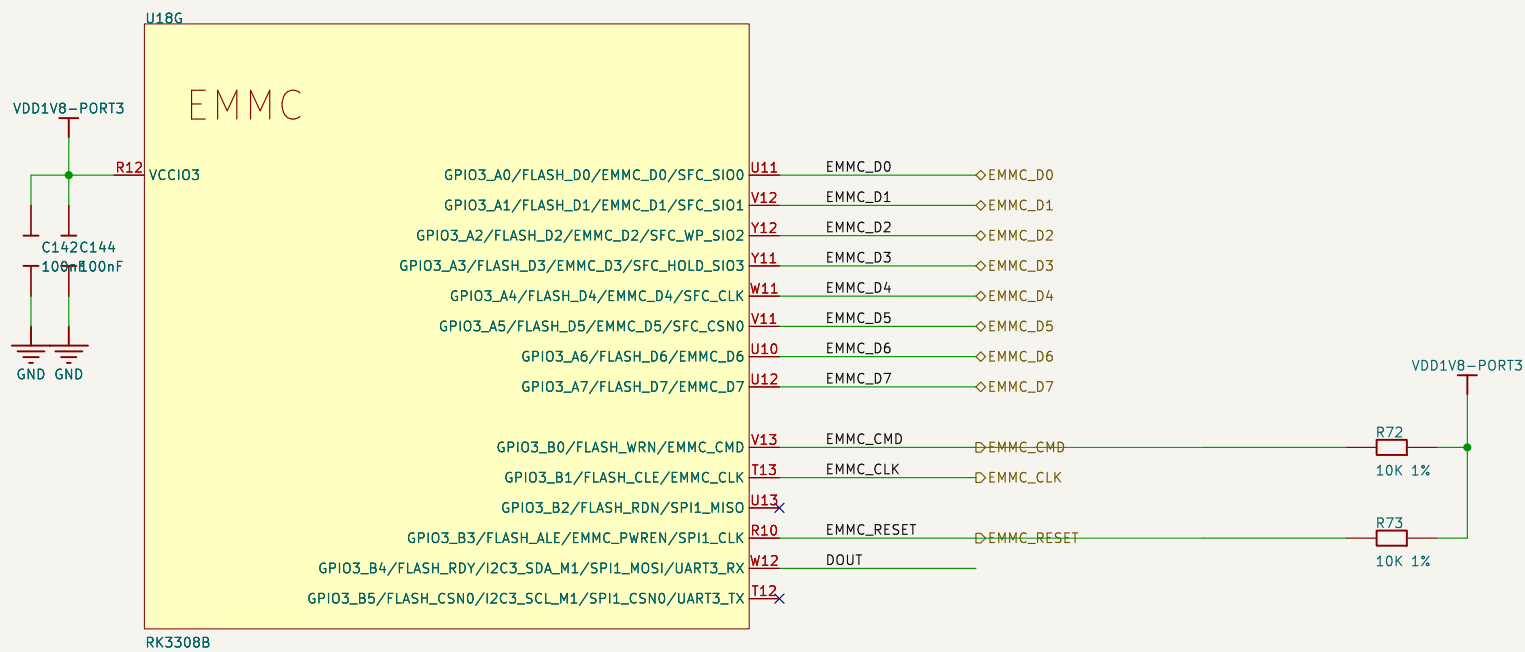
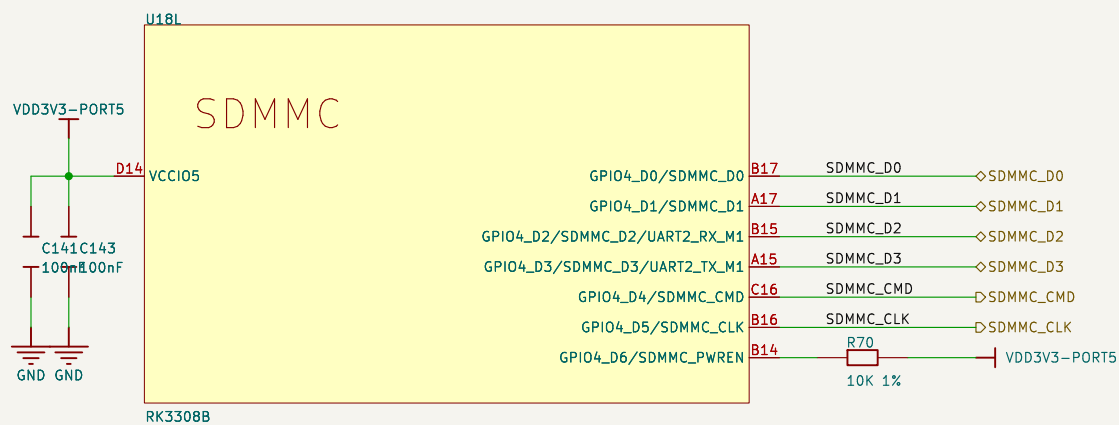
DRAM 1 x 16Bit 512MB

Sakura Pi RK3308B

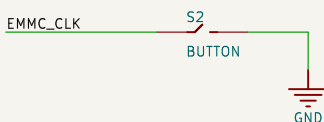


Onboard Storage

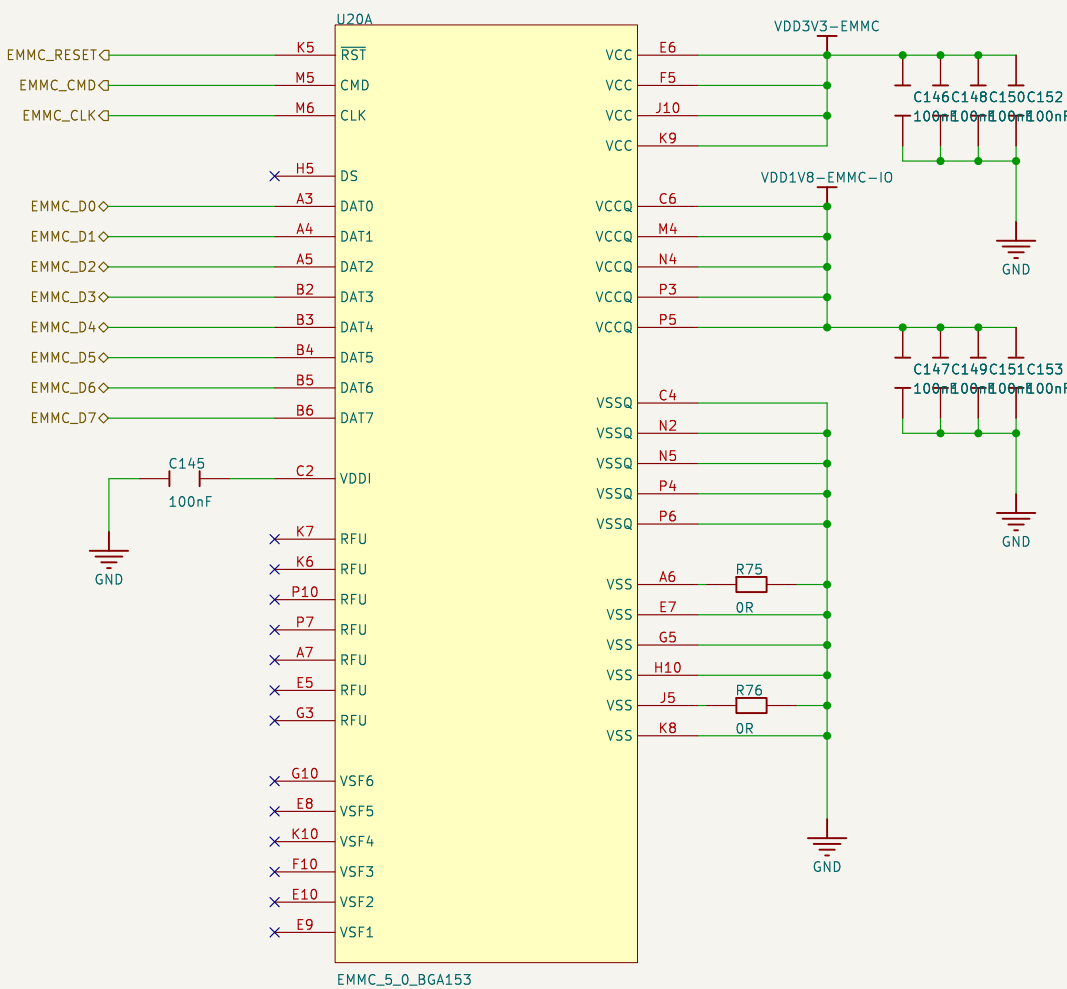
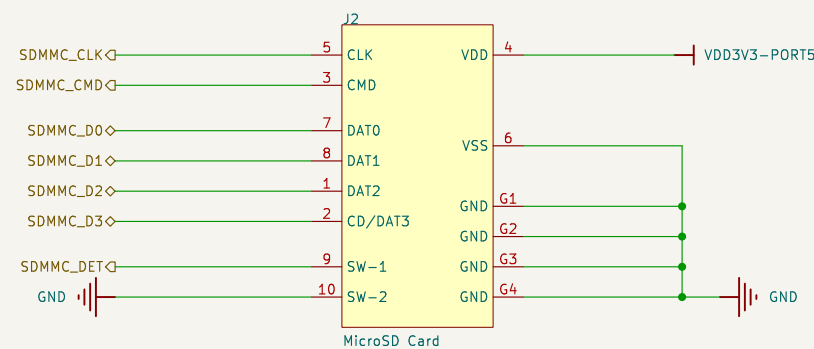
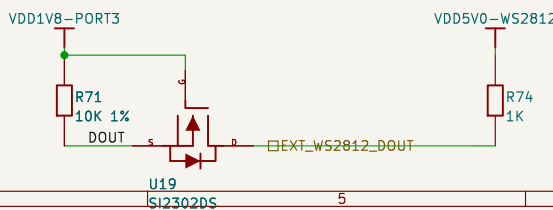
Sakura Pi RK3308B



MASK Button



WS2812 Level Shift

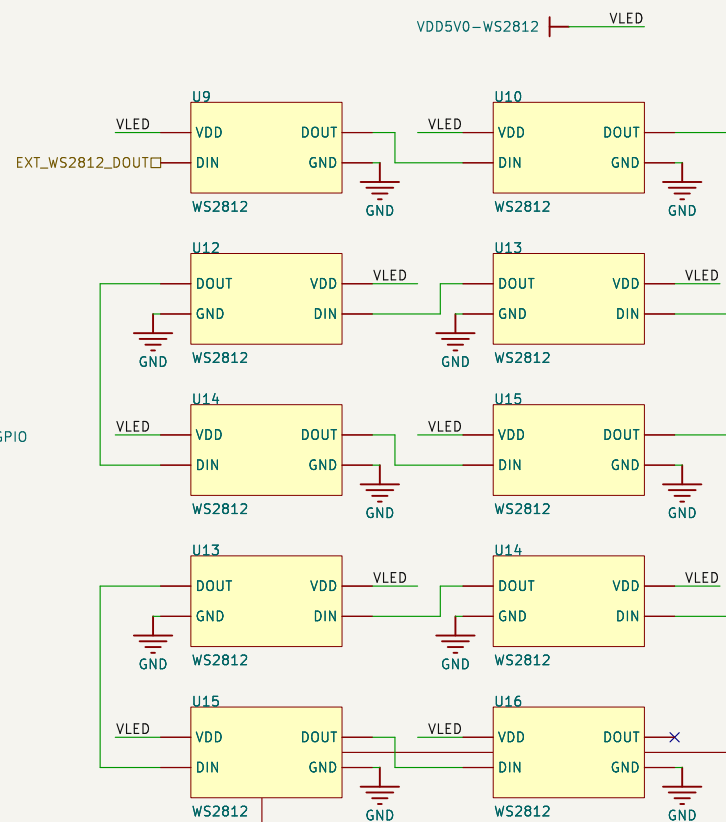
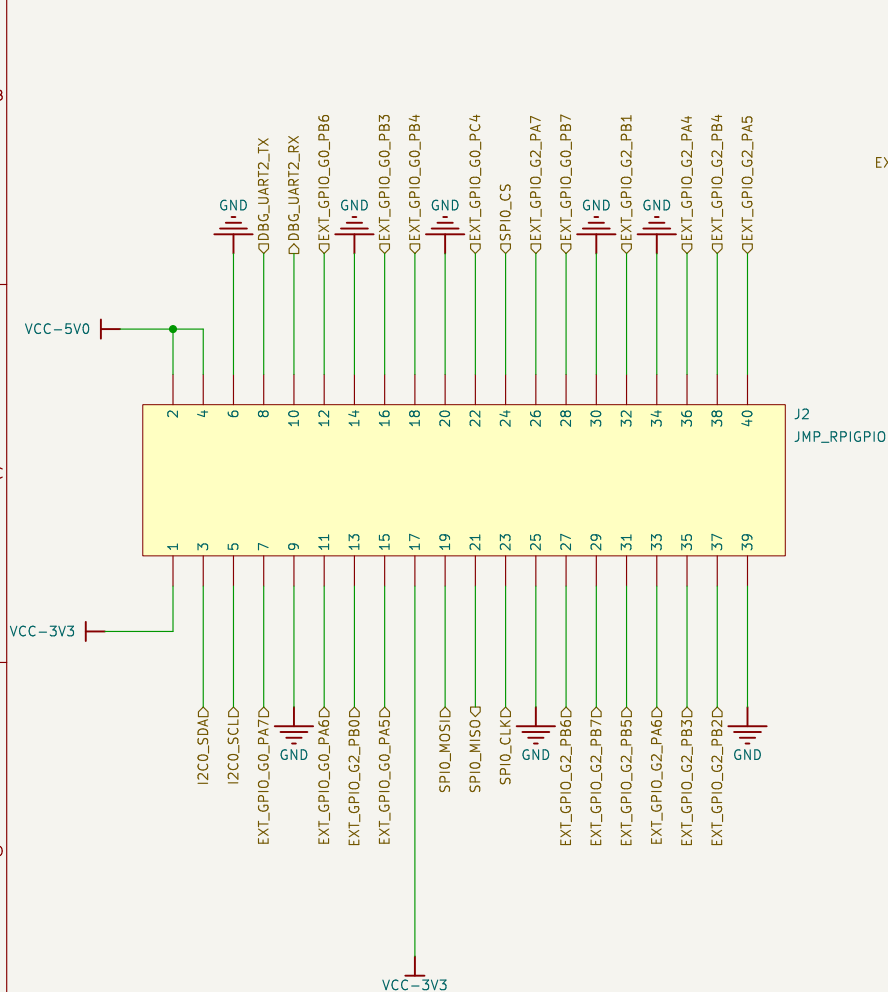


A6 / J5 0R resistors are used to switch the eMMC version configuration.

Type	A6 Installed	J5 Installed
eMMC 5.0	Yes	Yes
eMMC 4.x	No	No

GPIO Pins

Sakura Pi RK3308B



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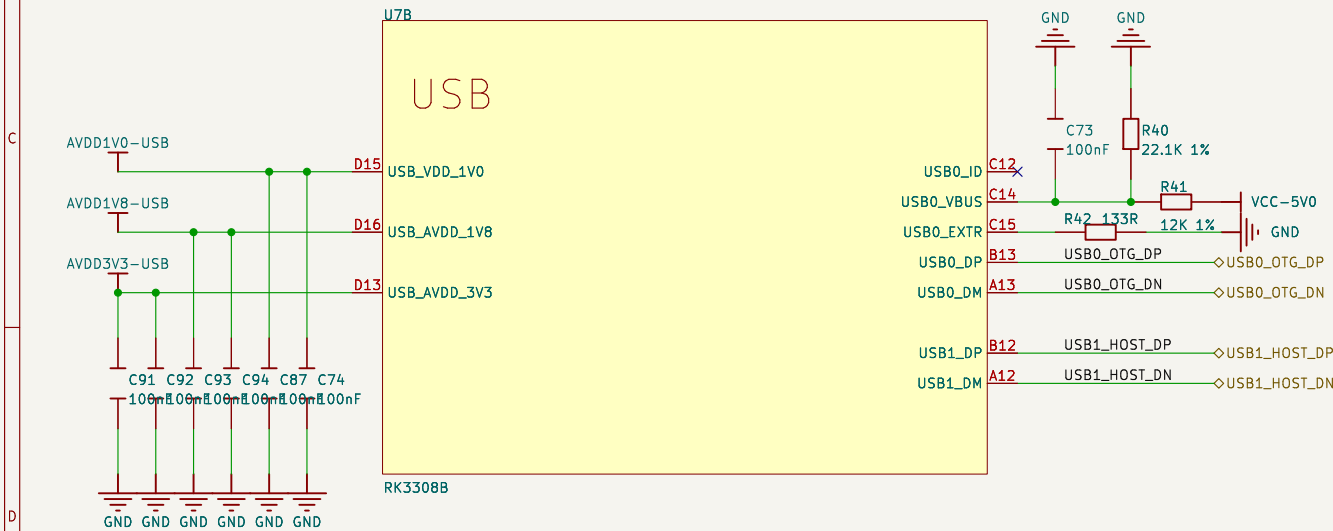
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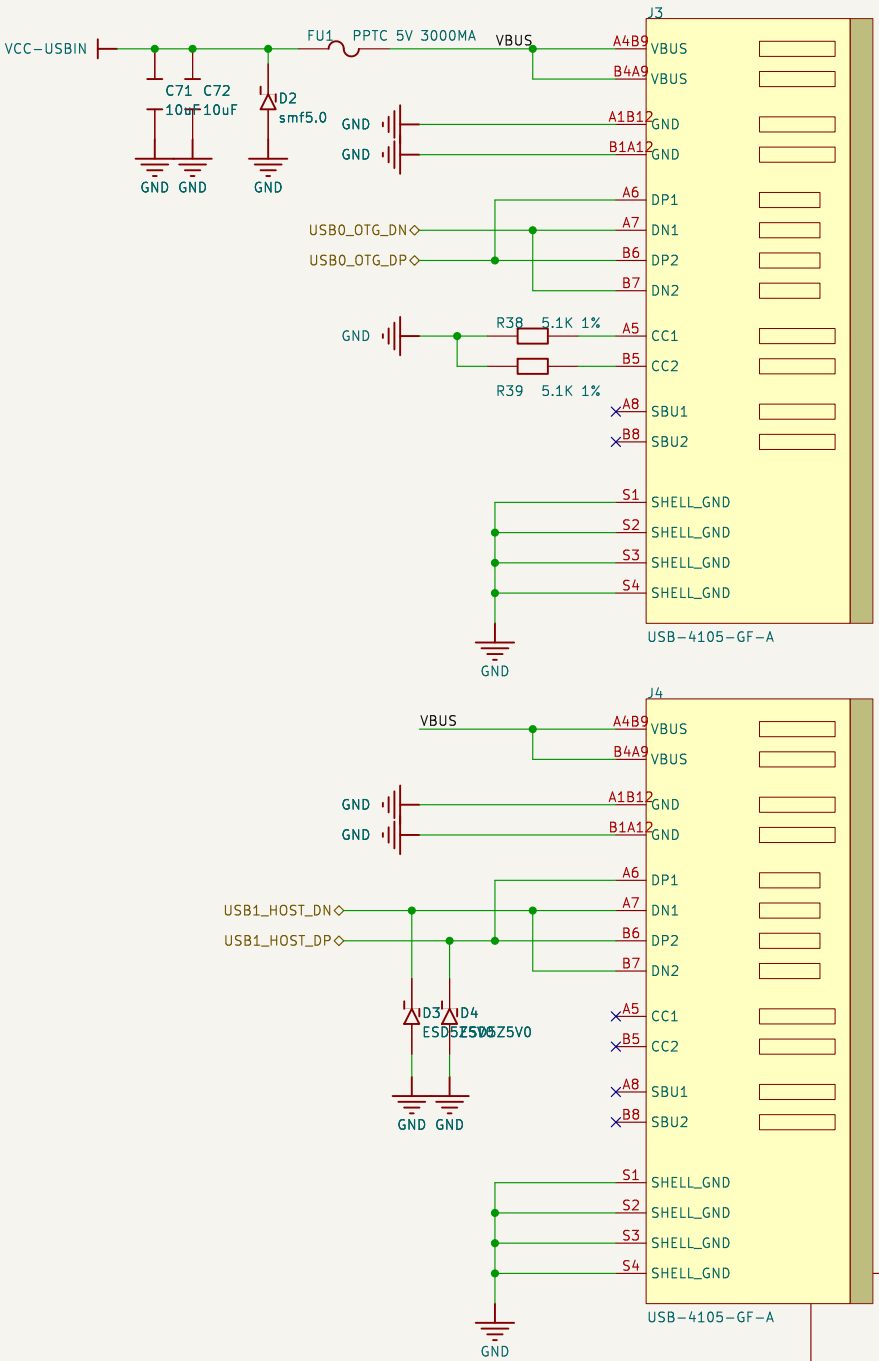
Rev:
Id: 1/1

USB OTG & Host

Sakura Pi RK3308B



Note: Type-C 5v Power In



Sheet: /		
File: 06_USB.kicad_sch		
Title:		
Size: B	Date:	Rev:
KiCad E.D.A. 9.0.2		Id: 1/1

Sakura Pi RK3308B

1	LEDK
2	LEDA
3	GND
4	VCC
5	R0
6	R1
7	R2
8	R3
9	R4
10	R5
11	R6
12	R7
13	G0
14	G1
15	G2
16	G3
17	G4
18	G5
19	G6
20	G7
21	B0
22	B1
23	B2
24	B3
25	B4
26	B5
27	B6
28	B7
29	GND
30	CLK
31	DISP_EN
32	HSYNC
33	VSYNC
34	DAT_LEN
35	NC
36	GND
37	TOUCHPA
38	TOUCHPA
39	TOUCHPA
40	TOUCHPA
51	SHELL_GN
52	SHELL_GN

VDD3V3-LCD

Title:

Rev:
Id: 1/1

Wireless WiFi & BT

Sakura Pi RK3308B

