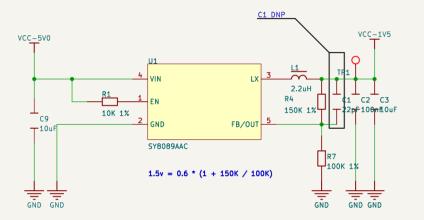
# Power Scheme

Sakura Pi RK3308B

### SY8089A

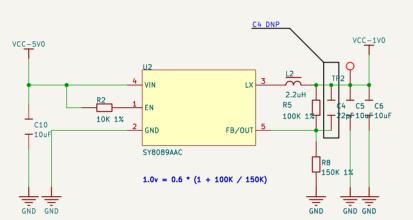
DRAM 1.5v / 2A OUTPUT



## SY8089A

CORE-LOGIC

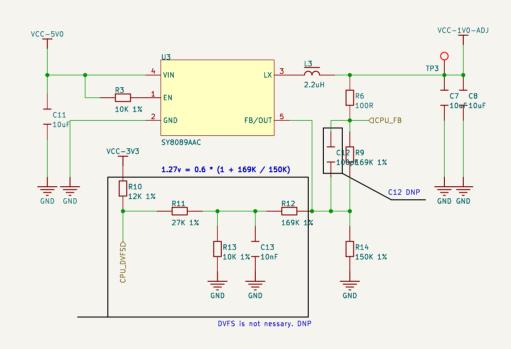
1.0v / 2A OUTPUT



### SY8089A

CPU-CORE 1.0-1.3

1.0 - 1.35v / 2A OUTPUT

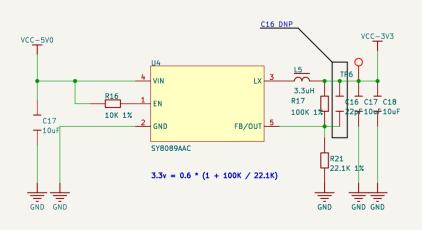


### CPU\_DVFS

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

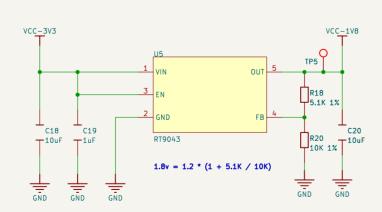
### SY8089A

3V3-10 3.3v / 2A OUTPUT



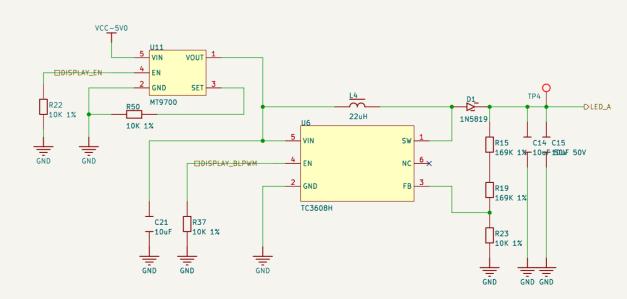
## TMI6030/RT9043

1V8-10 1.8v / 300mA OUTPUT



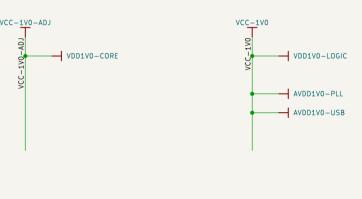
### TC3608H

DISPLAY-BG 21v / 20mA OUTPUT

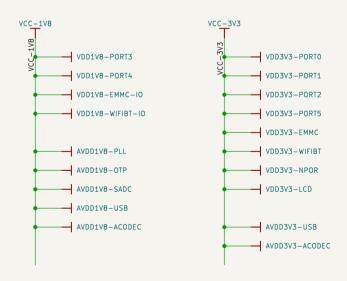


# Power Tree

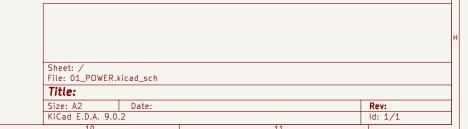












# CPU Core Sakura Pi RK3308B

PIN R3 default as FLASH\_SEL function

Voltage

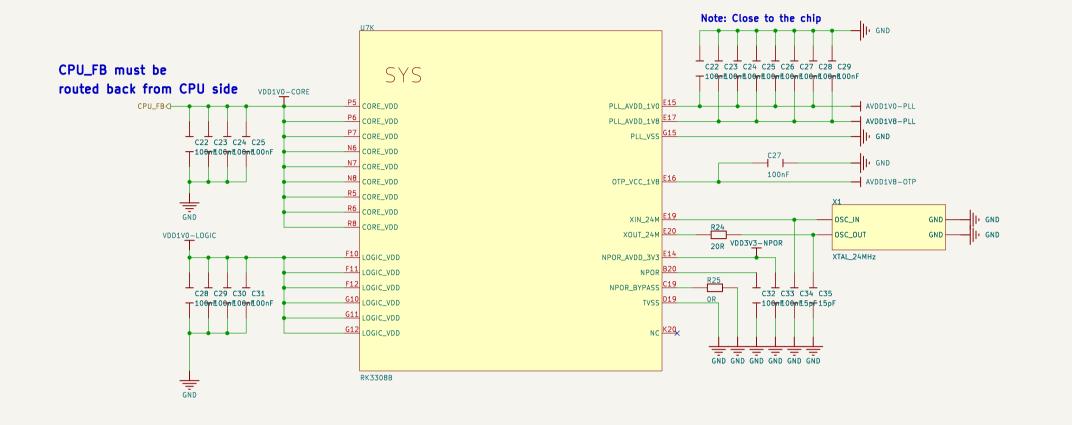
1.8v

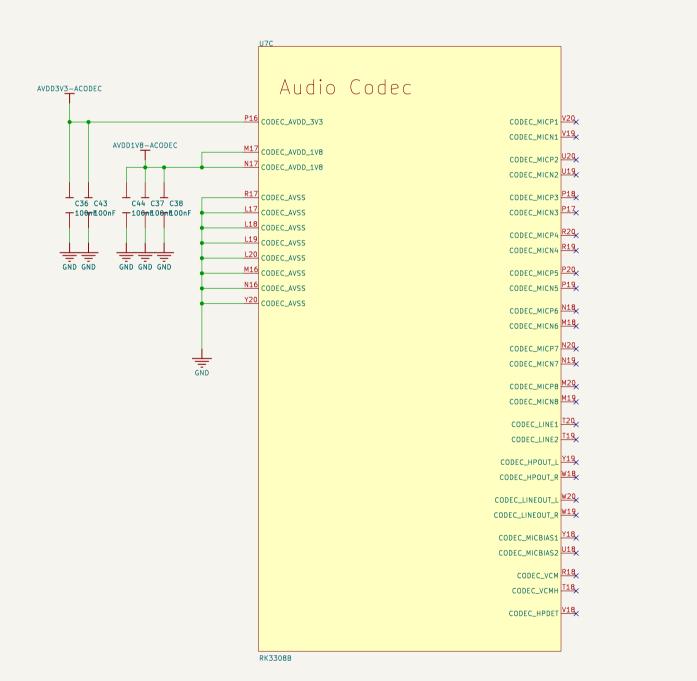
3.3v

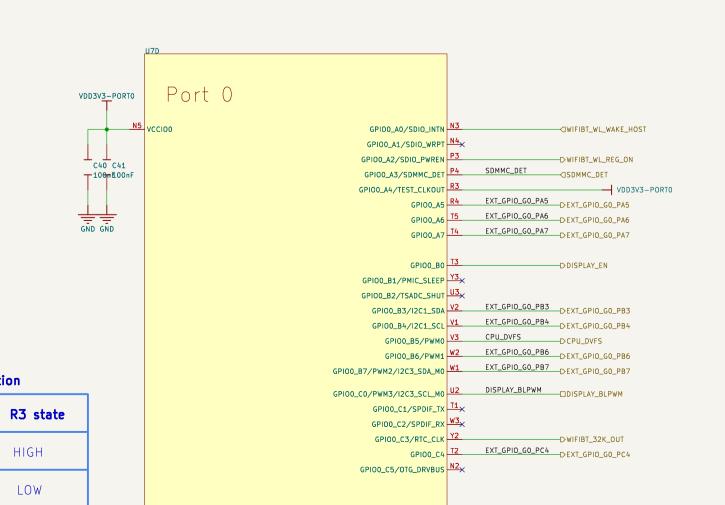
Speed

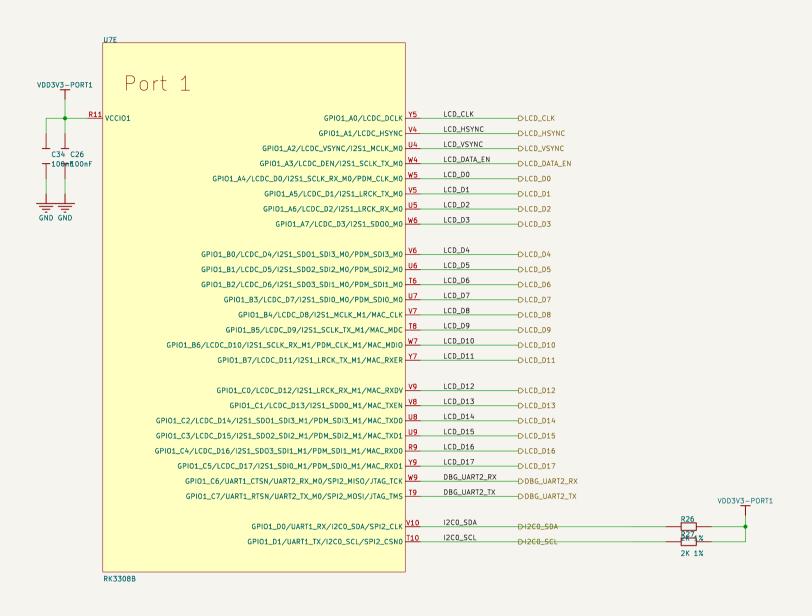
HS200

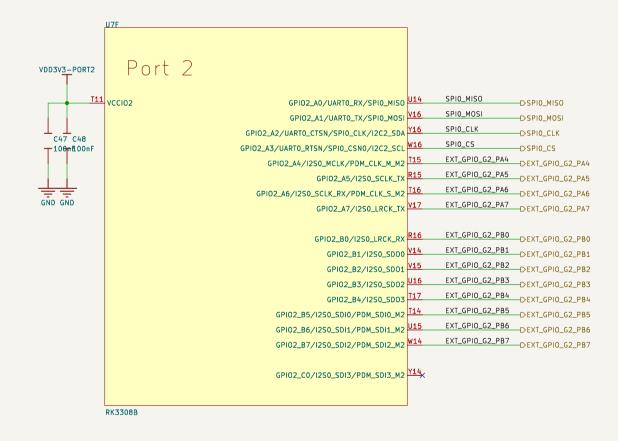
MMCHS













	GND	
Н7	vss	J5
Н8	vss	J13
H9	vss	K1
H10	vss	J12
H11	vss	14.0
H12	vss	10
113	vss	10
17	vss	17
L/ 10	vss	V17
10	vss	K16
10	vss	K15
κ7	vss	K14
K8	vss	K13
K9	vss vss vss	K12
(10	vss vss	N11
(11	vss vss	N10
11	vss vss	N9
12	vss vss	M15
13	vss vss	M14
14	vss vss vss	M13
15	vss vss vss	G13
.16	vss vss vss	D11
М4	vss vss	C17
M5	vss vss	C13
М6	vss vss	E13
м7	vss vss	C11
м8	vss vss	E12
м9	vss vss	E11
110	vss vss	C7
111	vss vss	C6
112	vss vss	E9
12	vss	C4
213	vss vss	N1
214	vss	E18
215	vss	E5
P8	vss	D20
P9	vss	G9
10	vss	H17
11	vss	G8
₹14	vss	E1
R7	vss	G14
T7	vss vss	D12
J17	vss	G3
Y1	vss	A1
112	vss	A4
113	vss	F13
114	vss	A9
115	vss	F2
16	vss	F14
D2	vss	F15
К3	vss vss	B8
120	vss	B11
	RK3308B	
		G

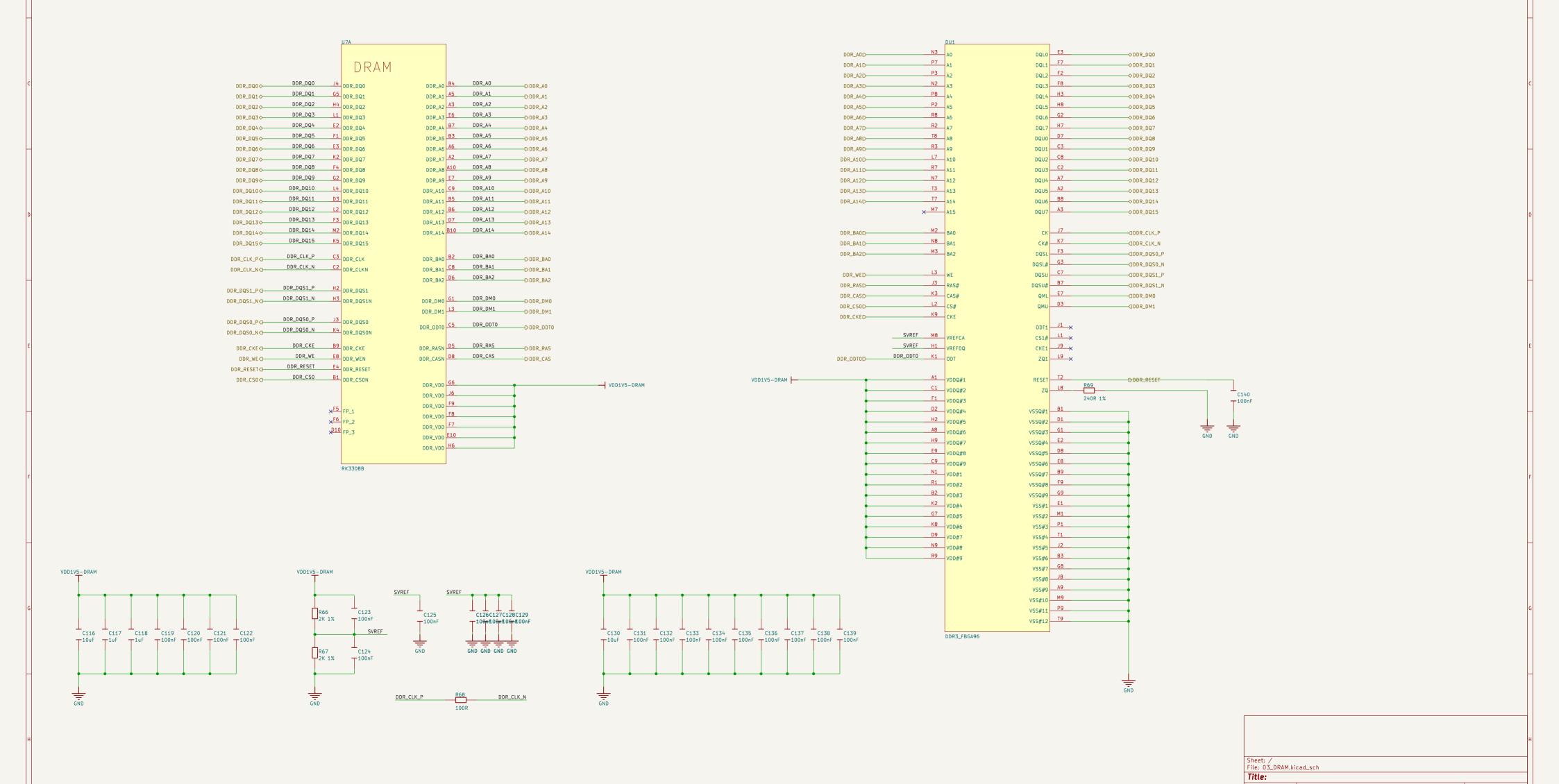
Sheet: /
File: 02\_CORE.kicad\_sch

Title:

Size: A1 Date: Rev:
KiCad E.D.A. 9.0.2 Id: 2/1

# DRAM 1 x 16Bit 512MB

Sakura Pi RK3308B

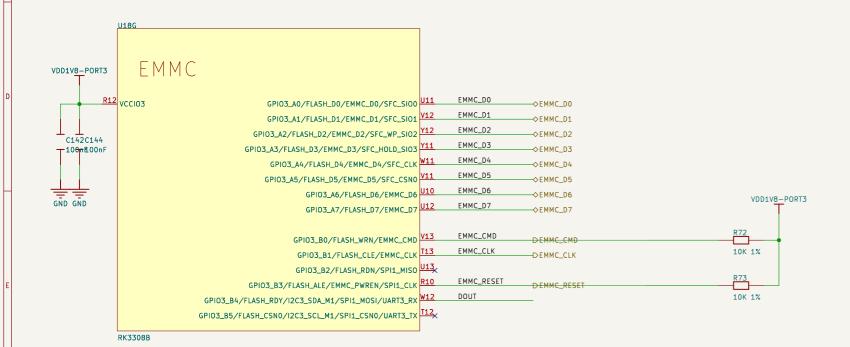


Size: A2 Date: KiCad E.D.A. 9.0.2

## Onboard Storage

Sakura Pi RK3308B





**MASK Button** 

BUTTON

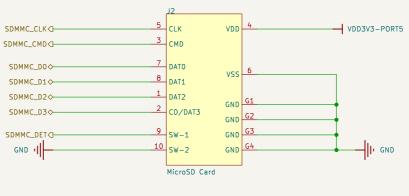
EMMC\_CLK

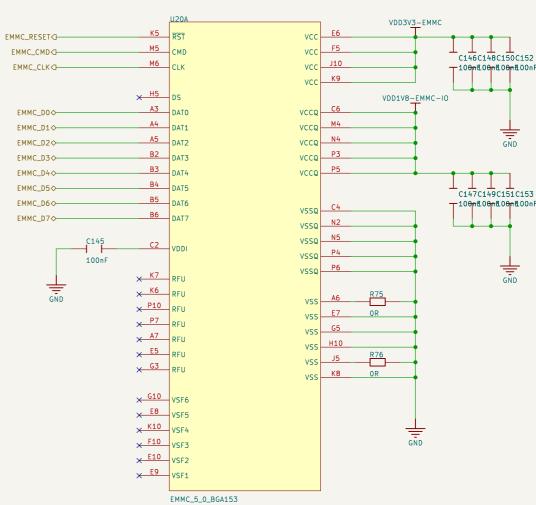
WS2812 Level Shift

VDD5V0-WS2812

VDD1V8-PORT3

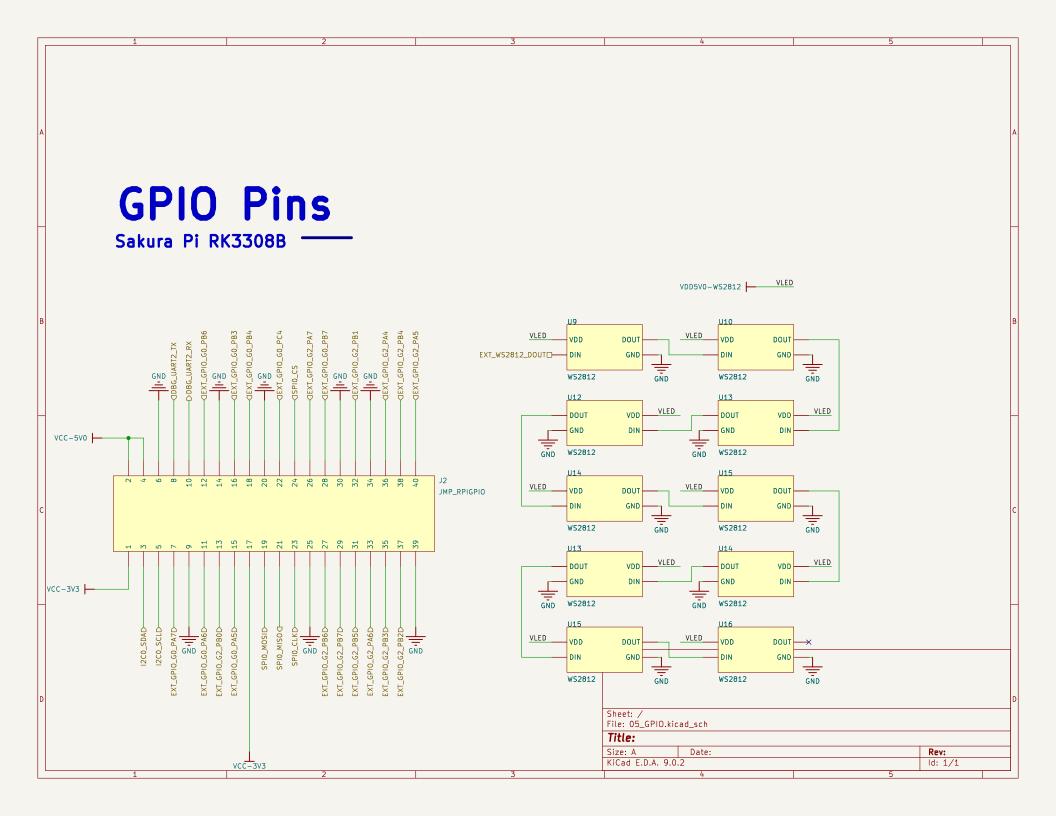
R71 10K 1%





## A6 / J5 OR resistors are used to switch the eMMC version configuration.

Туре		A6 Installed	J5 II	nstalled			
eMMC 5.0		Yes	,	Yes			
eMMC 4.x		No		No			
	Shee File:	t: / 04_STORAGE.kicad_	,				
Title:							
		: A3 Date:			Rev:		
	KiCa	d E.D.A. 9.0.2			ld: 1/1		
6			7		. 8		

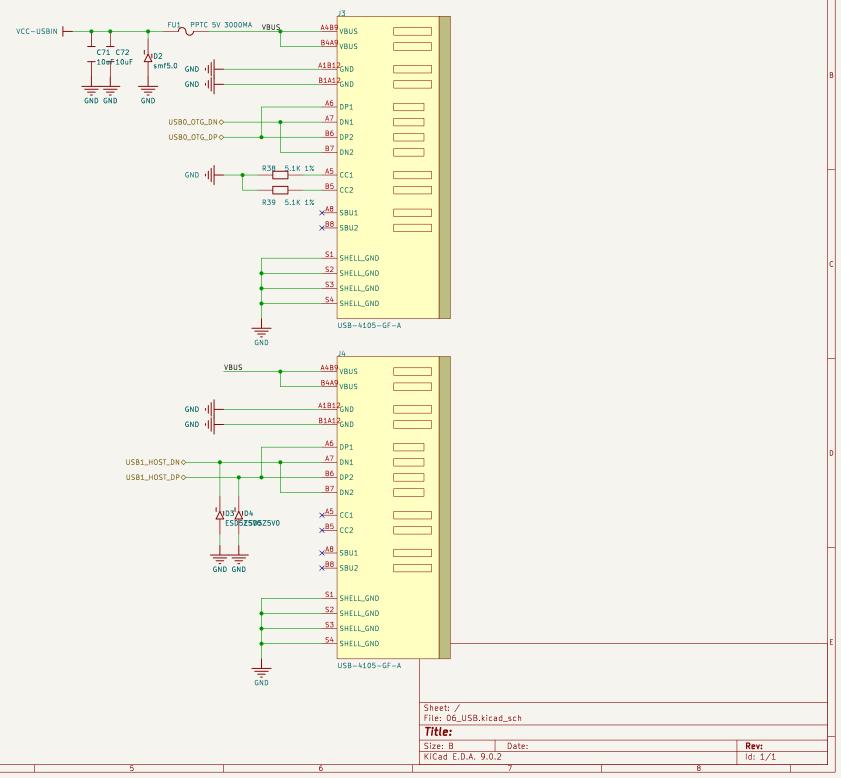


## **USB OTG & Host**

Sakura Pi RK3308B

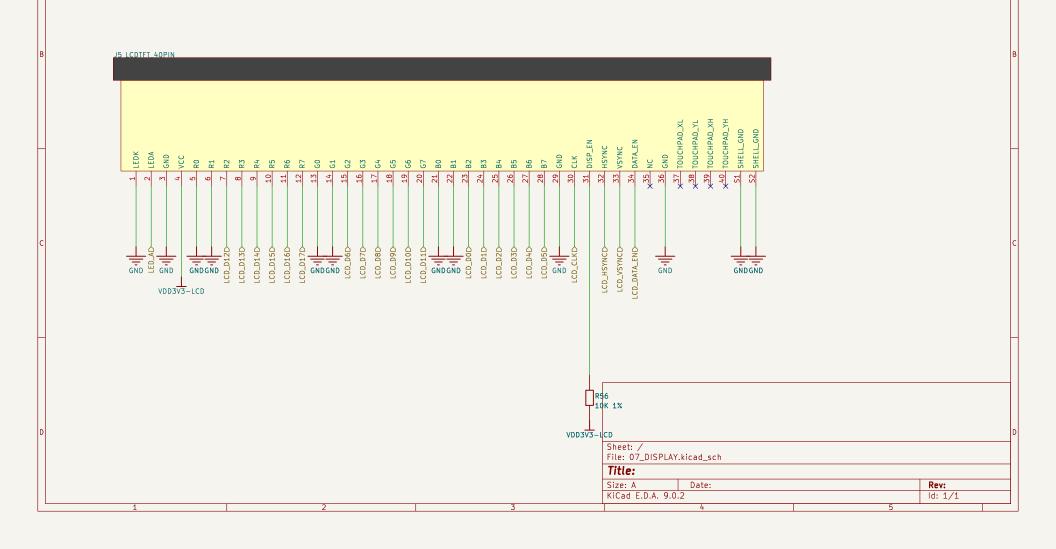


#### Note: Type-C 5v Power In



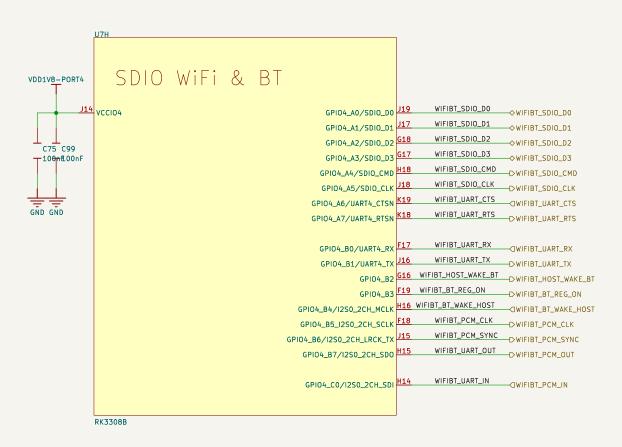
## Display Connector

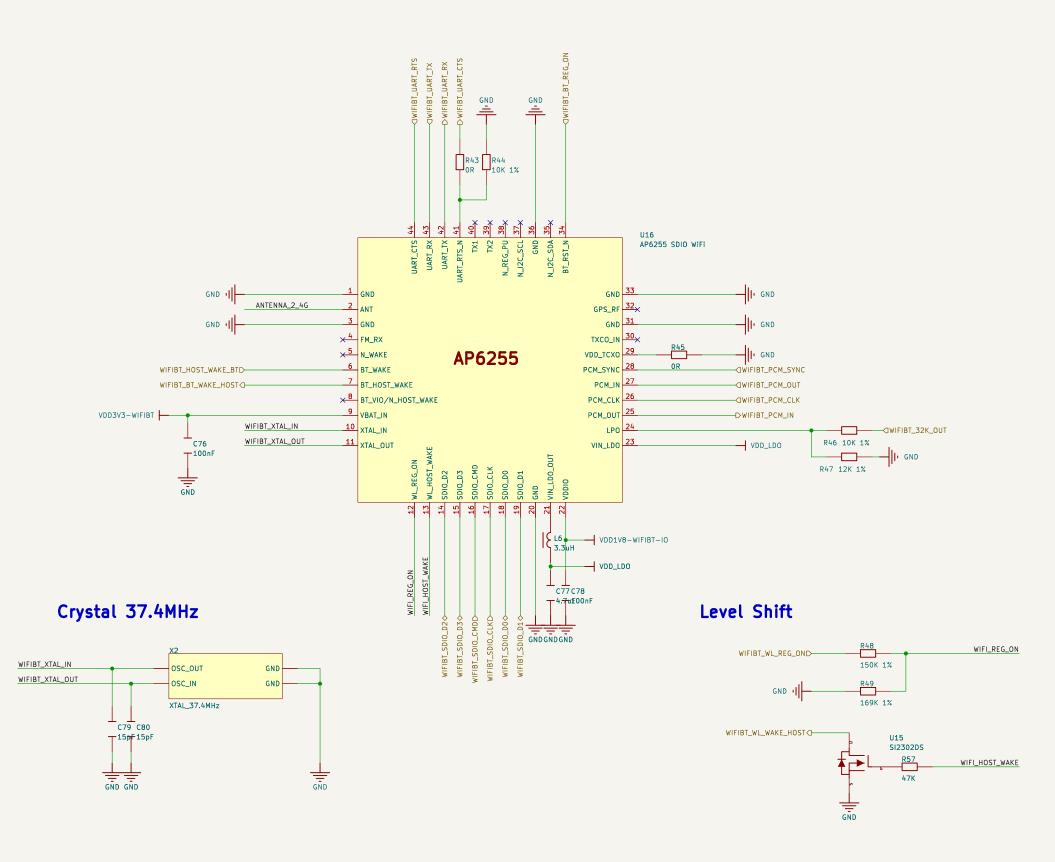
Sakura Pi RK3308B



## Wireless WiFi & BT

Sakura Pi RK3308B





### RF 2.4GHz Antenna

