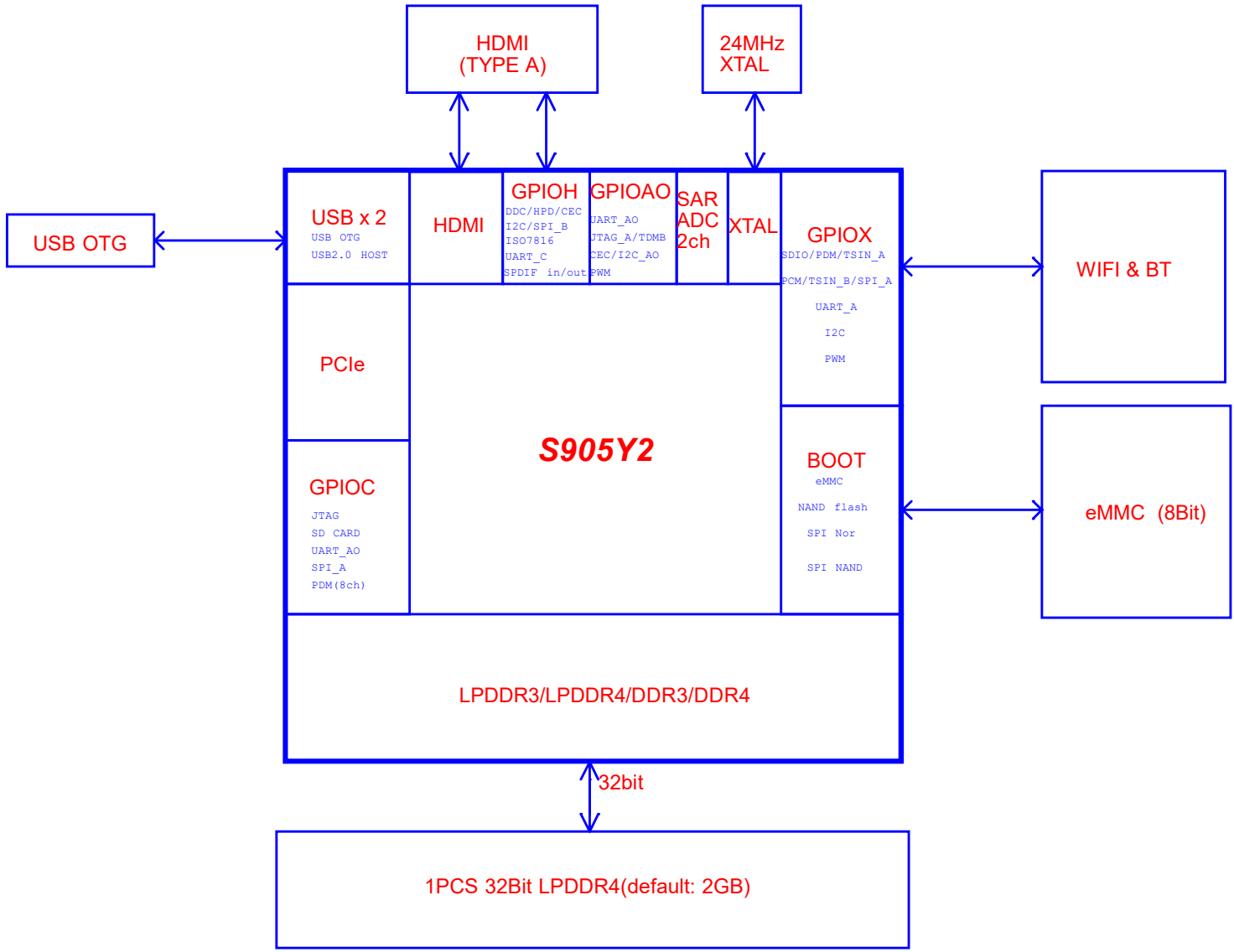
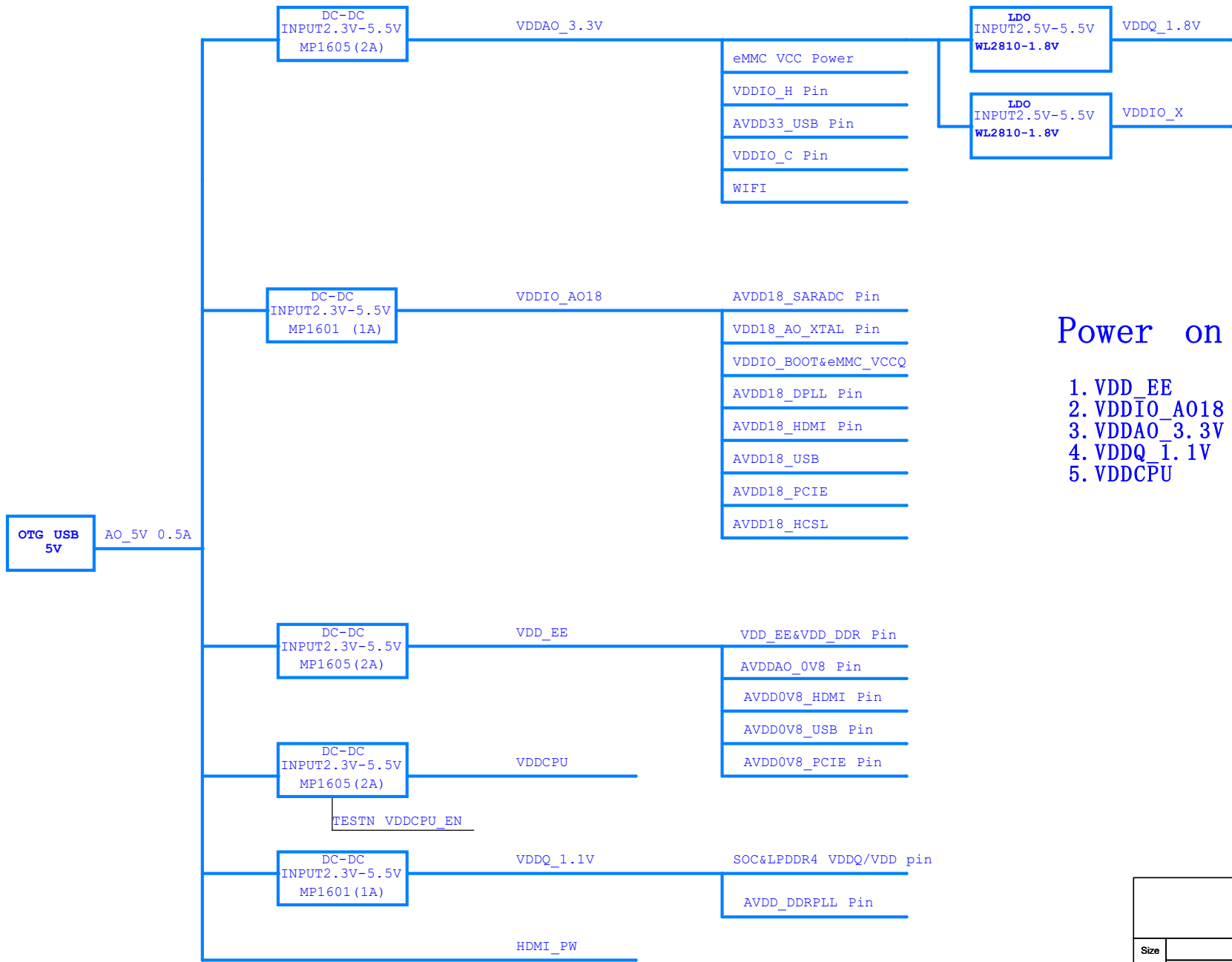


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01-	Block
02-	Power tree
P01	Power
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P03	eMMC
P04	LPDDR4&DVSS
P05	HDMI
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P07	WIFI Power
P08	WIFI SDIO&ANT





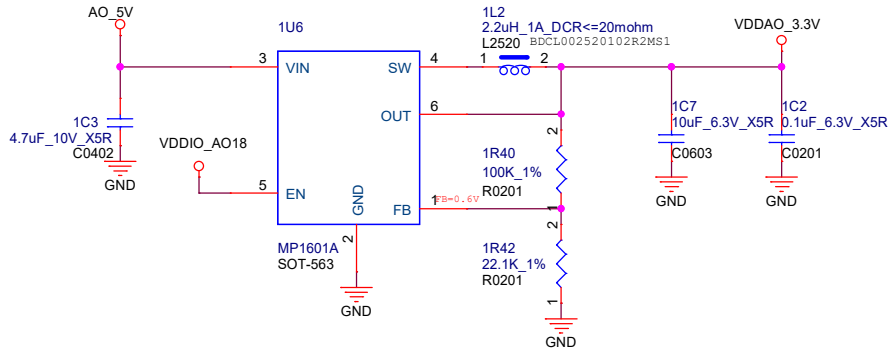
## Power on sequence

1. VDD\_EE
2. VDDIO\_A018
3. VDDAO\_3.3V
4. VDDQ\_1.1V
5. VDDCPU

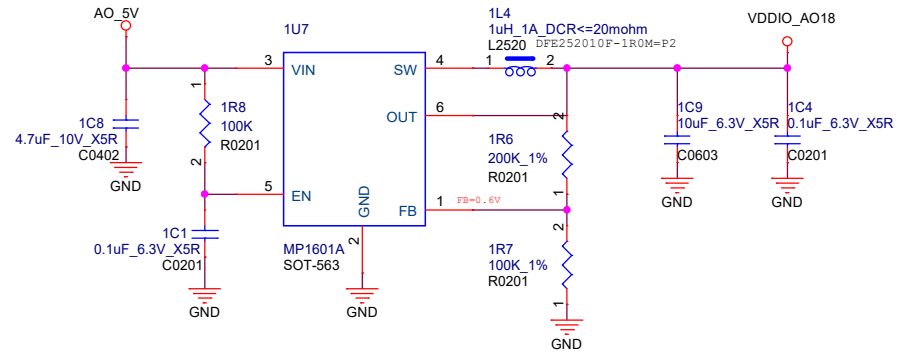


Size	Radxa Zero		REV
B	Page Name:	Power tree	1.4
Date:	Friday, July 09, 2021	Sheet	2 of 9

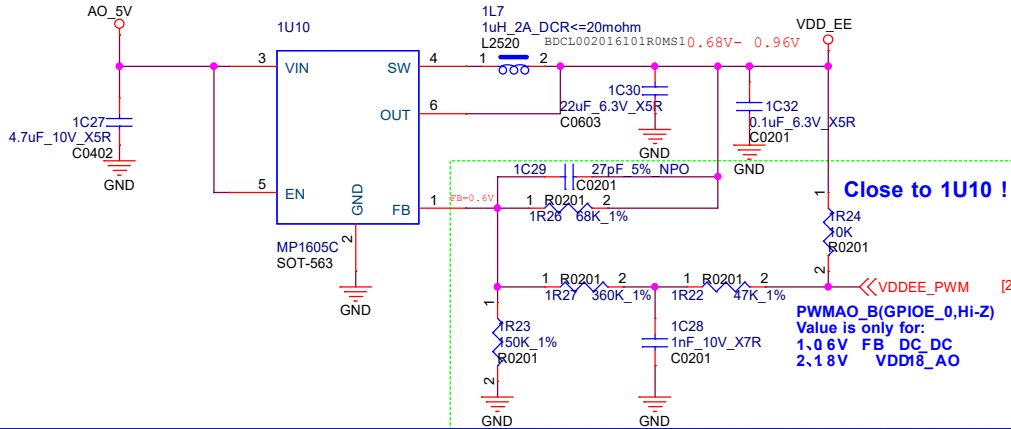
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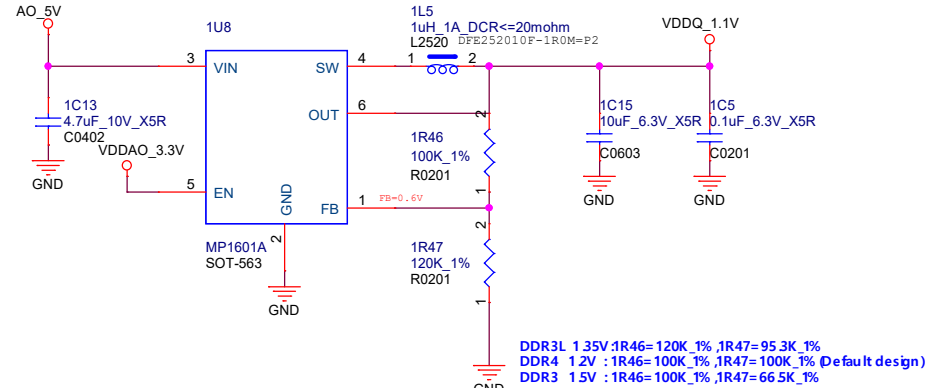
5V to VDDIO\_AO18 Design Max:1A



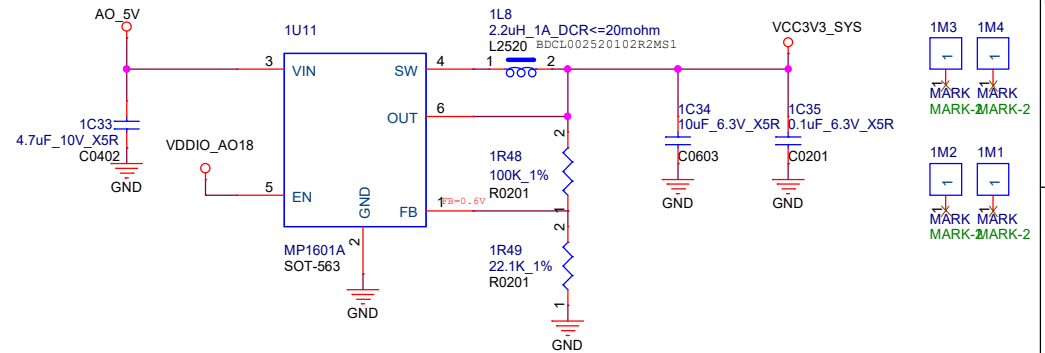
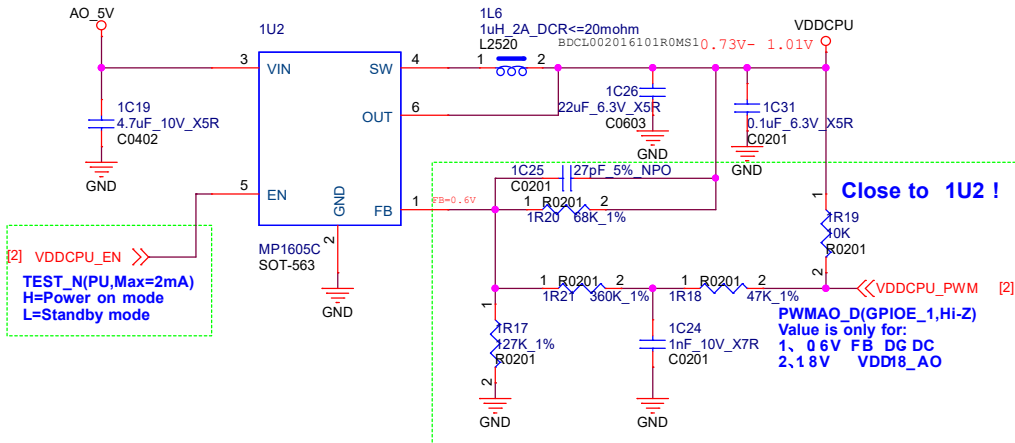
5V to VDD\_BE Design Max: 2A



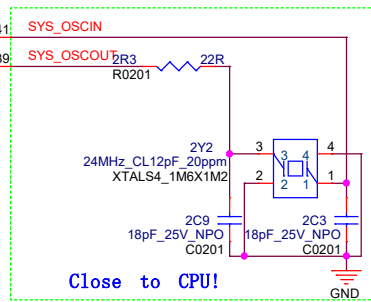
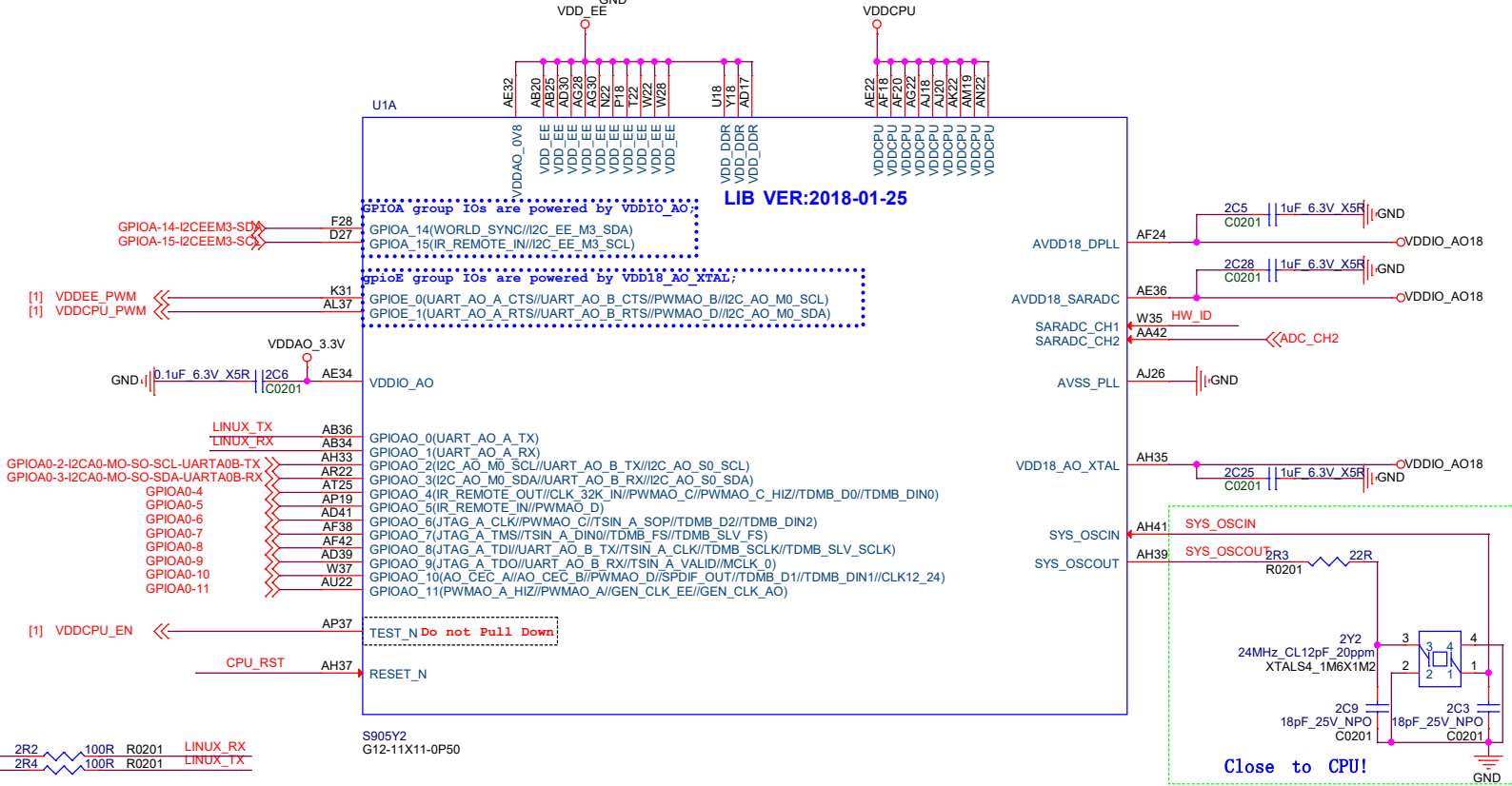
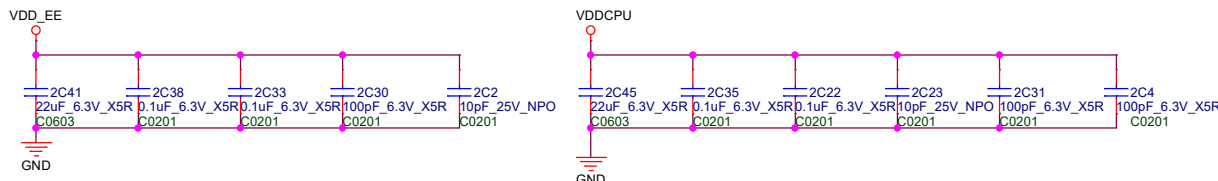
5V to VDDQ\_1.2V Design Max: 1A



5V to VDDCPU Design Max: 2A

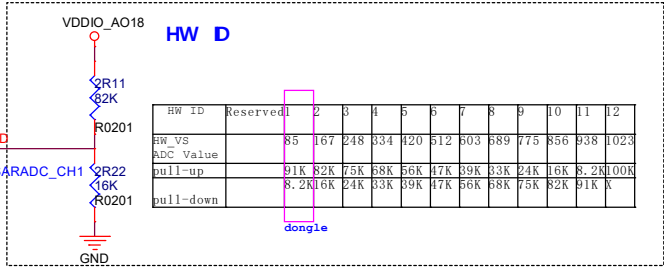
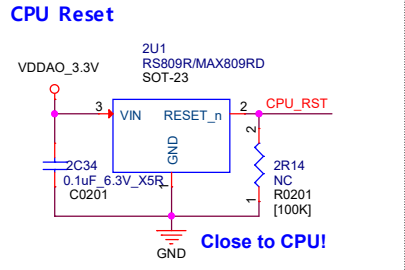


Size	Radxa Zero	REV
Customer Name:	Power	1.4
Date: Friday, July 09, 2021	Sheet	3 of 9



VBAT is for routing convenient. Normally should use VDDIO\_AO 3.3V here.

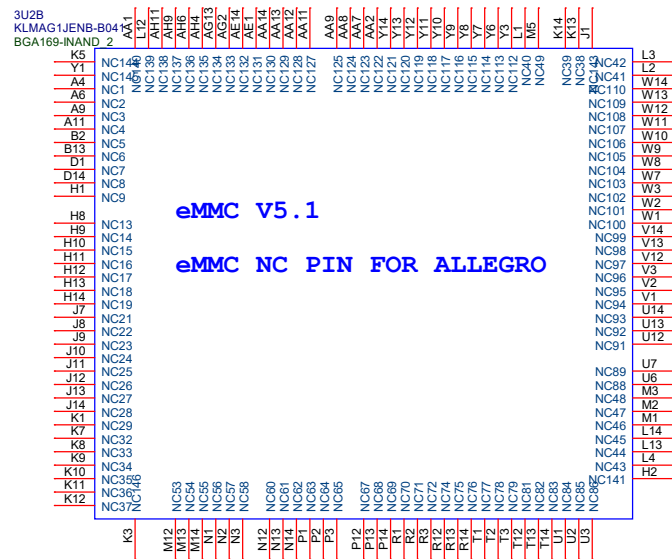
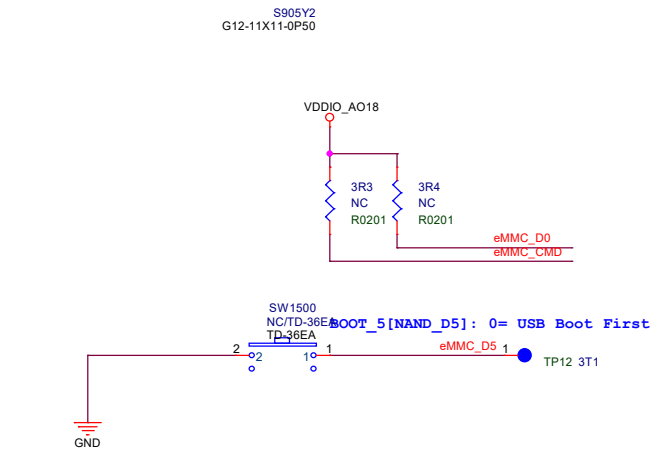
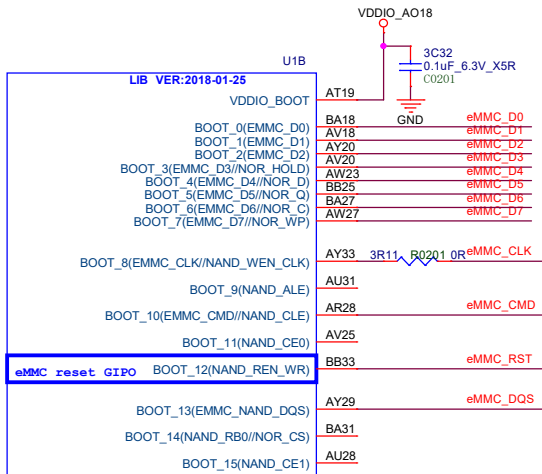
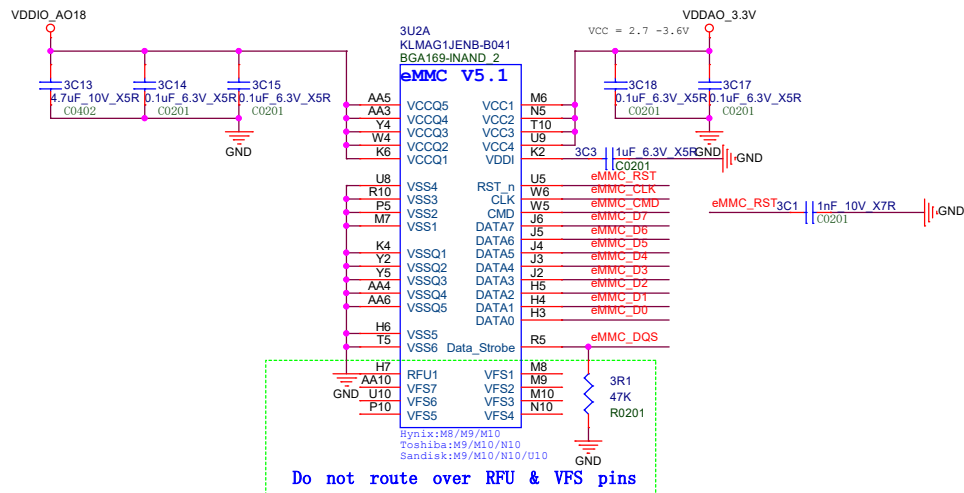
**For linux debug**



HW ID	Reserved	2	3	4	5	6	7	8	9	10	11	12
HW_Vs		85	167	248	334	420	512	603	689	776	856	938
ADC Value		91K	82K	75K	68K	56K	47K	39K	33K	24K	16K	8.2K
pull-up		8.2K	16K	24K	33K	39K	47K	56K	68K	75K	82K	91K
pull-down												

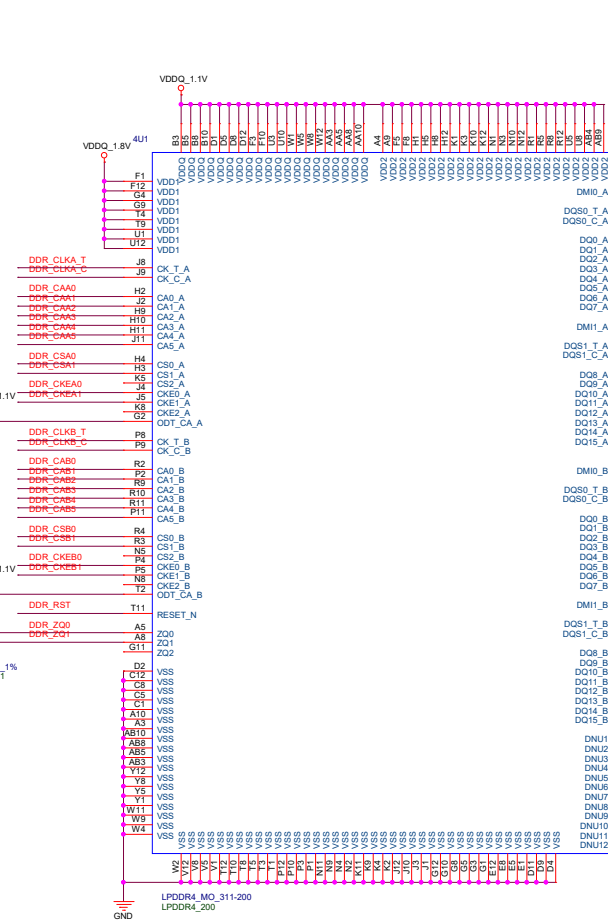
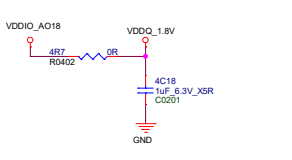
# eMMC

PCB Decal:169pin balls Type(BGA)

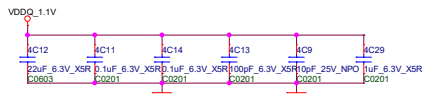


U1C LIB VER:2018-01-25

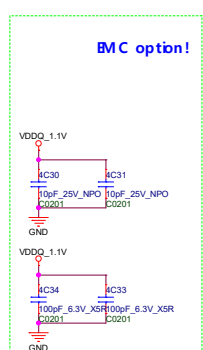
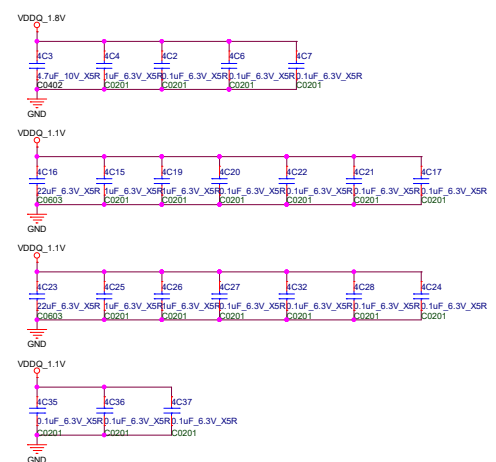
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DDR_CKEA1	AN10	AC_1 /CKEA1 /CKE1	CKE1	DDR_DQ1	BB16
DDR_CS#0	AK1	AC_2 /CSA0 /CSA0 /CS_NO	CS_NO	DDR_DQ2	BB18
DDR_CS#1	AL3	AC_3 /CSA1 /CSA1 /CS_NO	CS_NO	DDR_DQ3	AU18
DDR_CLKA_T	T8	AC_4 /CLKA_T /CLKA_T /CAS_N	/A6	DDR_DQ4	AR10
DDR_CLKA_C	TE	AC_5 /CLKA_C /CLKA_C /BA2	/A8	DDR_DQ5	AU7
	AB7	AC_6 /INC /INC /A7	/A2	DDR_DQ6	ARY
	AB9	AC_7 /INC /INC /A5	/A11	DDR_DQ7	AR13
				DDR_DQ8	AW14
				DDR_DQ9	BA14
				DDR_DQ10	
				DDR_DQ11	
				DDR_DQ12	
				DDR_DQ13	
				DDR_DQ14	
				DDR_DQ15	
				DDR_DQ16	
				DDR_DQ17	
				DDR_DQ18	
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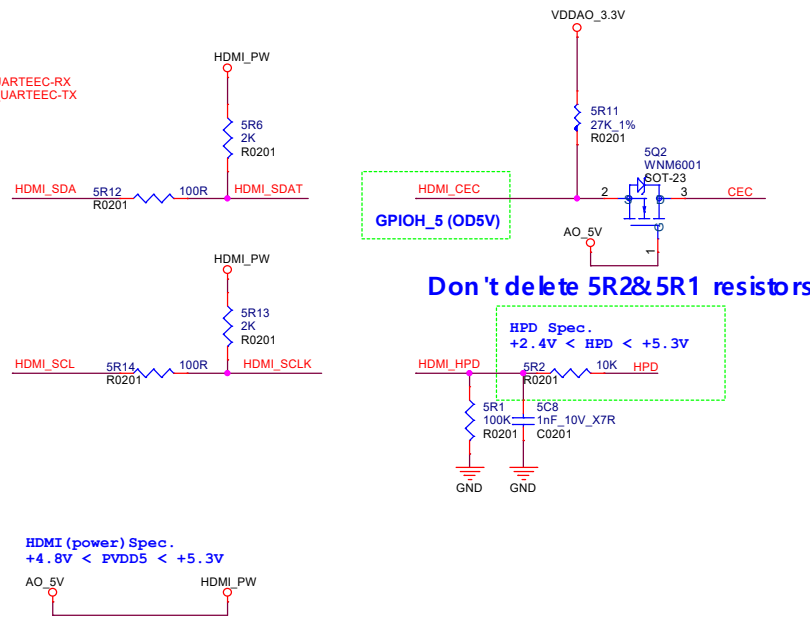
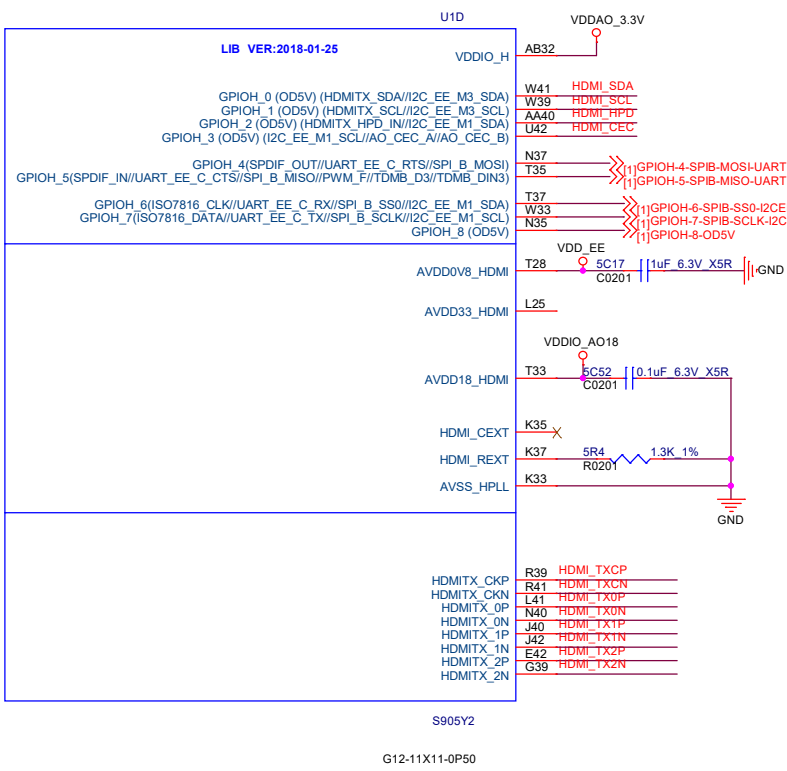
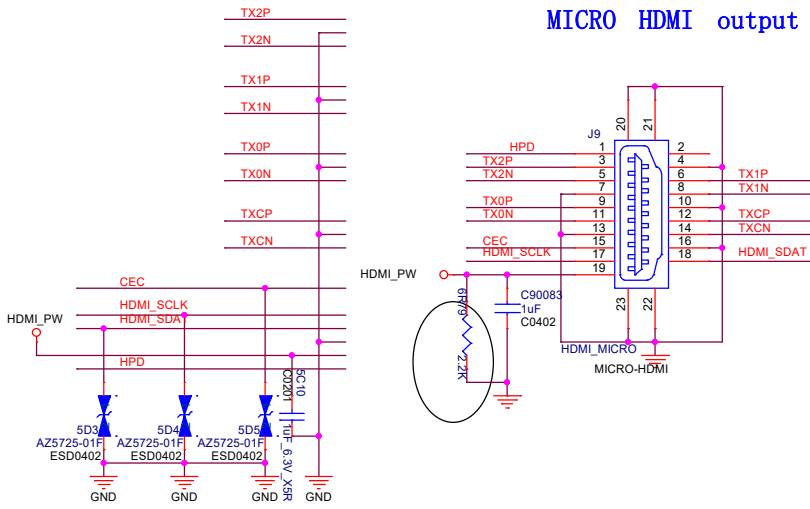
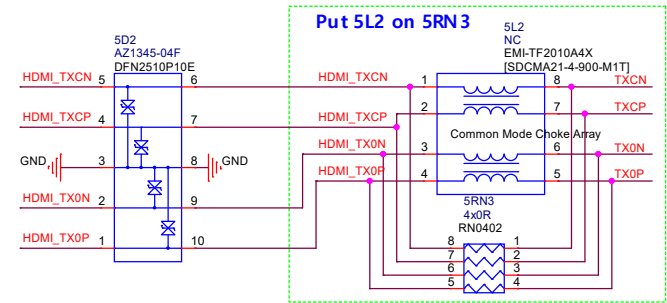
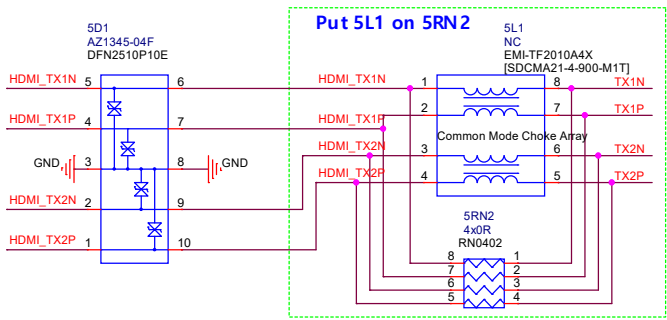


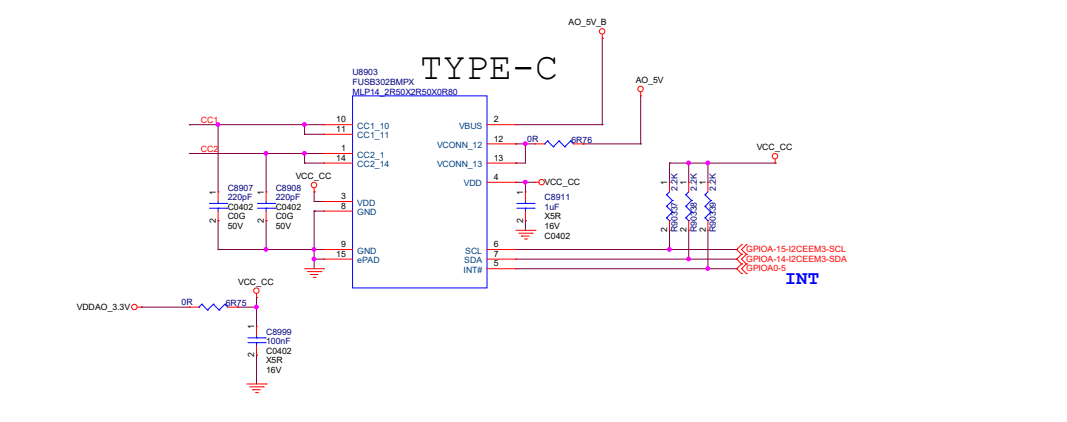
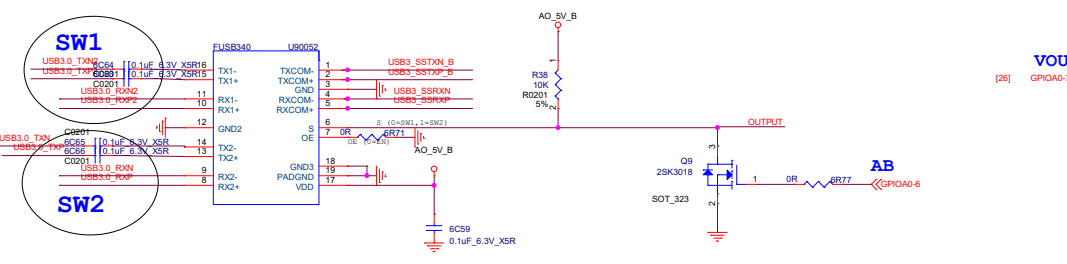
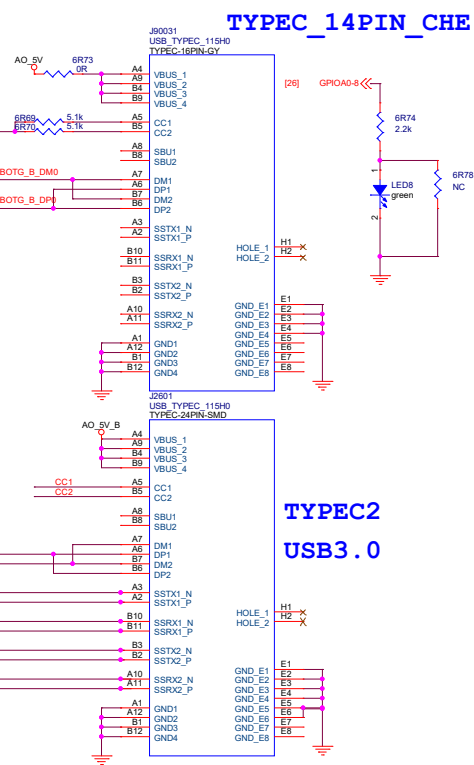
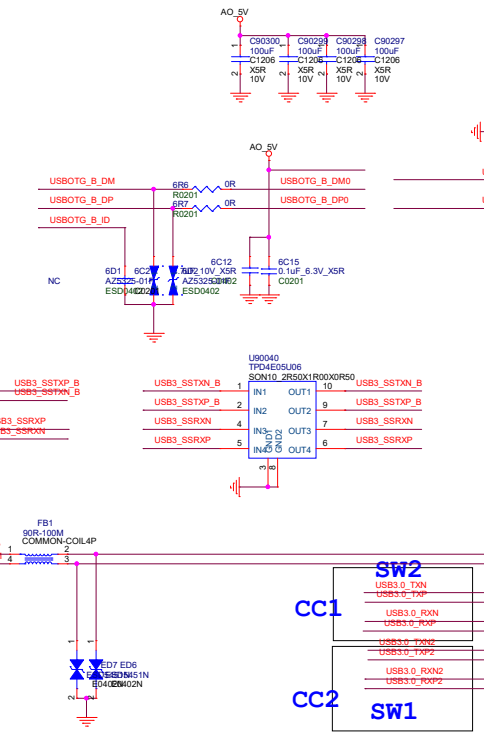
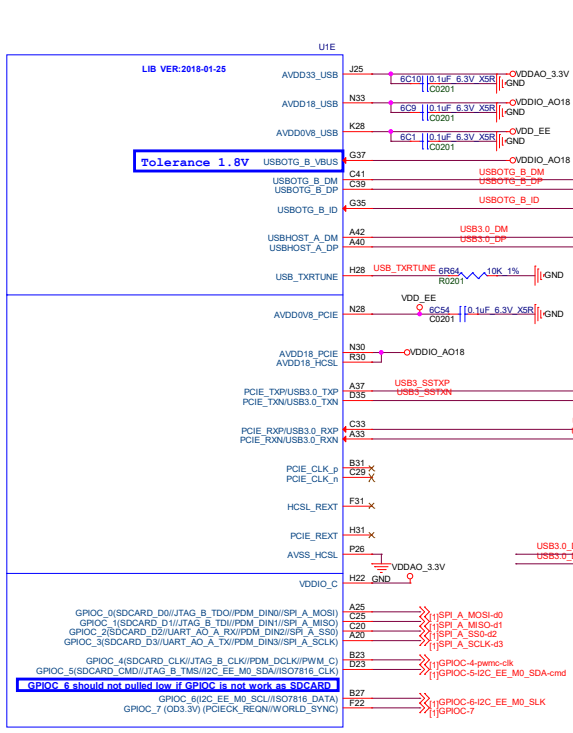
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D5	DDR_DQ16
E4	DDR_DQ8
F4	DDR_DQ11
D6	DDR_DQ13
D2	DDR_DQ10
D7	DDR_DQ17
C10	DDR_DOM0
D10	DDR_DQS#0
D10	DDR_DQS#10
E10	DDR_DQS#16
B11	DDR_DQ3
D08	DDR_DQ2
D09	DDR_DQ1
D10	DDR_DQ4
D11	DDR_DQ7
E9	DDR_DQ6
D13	DDR_DQ5
D14	DDR_DQ4
D14	DDR_DQ9
Y3	DDR_DOM2
W3	DDR_DQS#2
Y3	DDR_DQS#12
AA2	DDR_DQ20
Y2	DDR_DQ21
V2	DDR_DQ22
U4	DDR_DQ23
U4	DDR_DQ18
U6	DDR_DQ19
Y4	DDR_DQ15
AA4	DDR_DQ18
W10	DDR_DOM3
W10	DDR_DQS#3
V10	DDR_DQS#13
AA11	DDR_DQ24
V11	DDR_DQ25
U11	DDR_DQ26
U11	DDR_DQ27
V9	DDR_DQ30
Y9	DDR_DQ27
ZA8	DDR_DQ28
D15	DDR_DQ29
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A2	DNUI2
A11	DNUI3
A12	DNUI4
B1	DNUI5
B2	DNUI6
AA1	DNUI7
AA12	DNUI8
AA3	DNUI9
AB2	DNUI10
AB11	DNUI11
AB12	DNUI12



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A22	DVSS	DVSS	BB
AA3	DVSS	DVSS	BA35
AA5	DVSS	DVSS	B45
AB11	DVSS	DVSS	BB12
AB17	DVSS	DVSS	BB20
AB28	DVSS	DVSS	BB39
AB30	DVSS	DVSS	BB3
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AD20	DVSS	DVSS	D10
AD1	DVSS	DVSS	D31
AE11	DVSS	DVSS	E20
AF1	DVSS	DVSS	E25
AF40	DVSS	DVSS	F10
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AH4	DVSS	DVSS	G41
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AJ30	DVSS	DVSS	K16
AK12	DVSS	DVSS	K22
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AK16	DVSS	DVSS	L2
AK28	DVSS	DVSS	L38
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AL30	DVSS	DVSS	N42
AL33	DVSS	DVSS	N20
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AM25	DVSS	DVSS	R4
AN13	DVSS	DVSS	T12
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AN28	DVSS	DVSS	T11
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AN7	DVSS	DVSS	U24
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AP40	DVSS	DVSS	U30
AV1	DVSS	DVSS	U40
AV42	DVSS	DVSS	W12
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AW11	DVSS	DVSS	W30
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AC23	DVSS	DVSS	

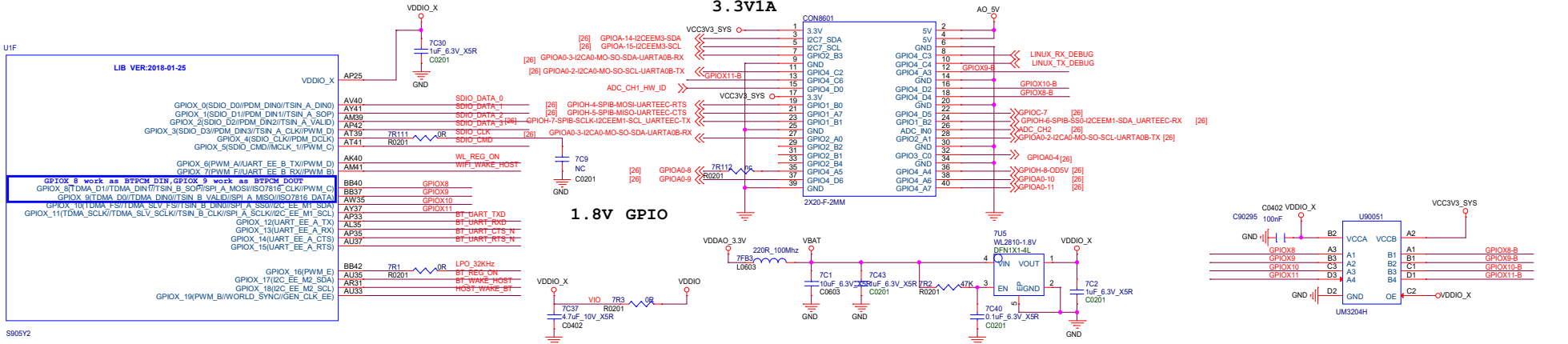








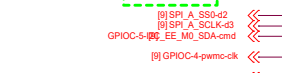
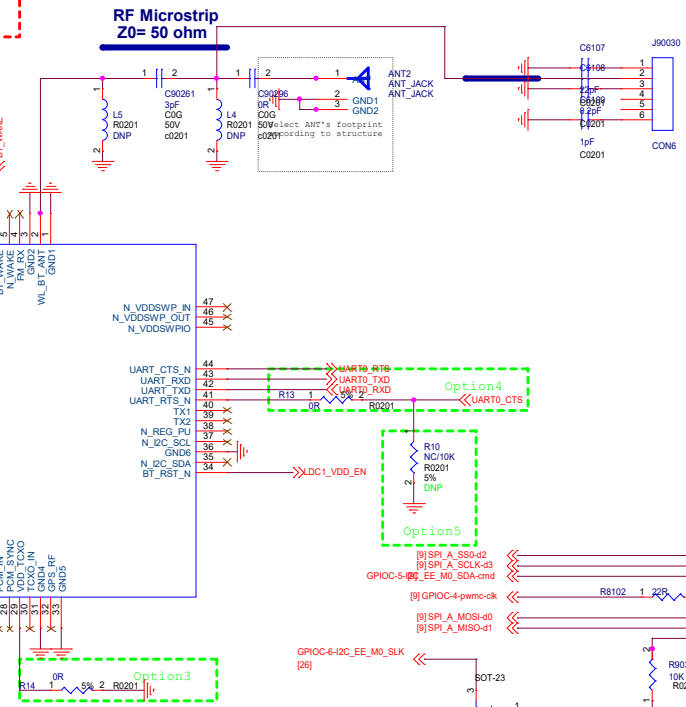
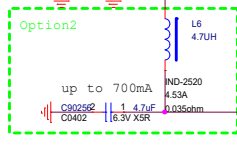
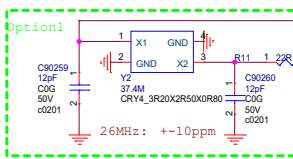
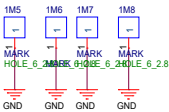
### 3.3V1A



### 1.8V GPIO

### SDIO WIFI/BT-171R

Note: VBAT voltage range is 3.0V-4.8V, and peak-current is at least 400mA.



Note:  
 Yes: option circuit be mounted  
 No: option circuit not be mounted

OPTION	WIFI				BT	Crystals	VCCIO_SDIO	OPTION1	OPTION2	OPTION3	OPTION4	OPTION5
	a	b/g/n	ac	5GHz								
AW-CM256SM	Yes	Yes	Yes	Yes	4.2	37.4MHz	1.71-3.63V	Yes	Yes	Yes@SDIO2.0 No@SDIO3.0	Yes	No
AP6236/AP6212	No	Yes	No	No	4.2/4.0	26MHz	1.71-3.63V	Yes	Yes	No	Yes	No
AP6256/AP6255	Yes	Yes	Yes	Yes	5.0/4.2	37.4MHz	1.62-3.63V	Yes	Yes	Yes@SDIO2.0 No@SDIO3.0	Yes	No
RTL8189FTV Module F89FTSM12-W3	No	Yes	No	No	No	Module Integrated	1.8-3.3V	No	No	No	Yes	No
RTL8723DS Module 6223A-SRD	No	Yes	No	No	4.2	Module Integrated	1.62-3.63V	No	No	No	No	Yes
QCA9377 Module 8223A-SR	Yes	Yes	Yes	Yes	4.2	Module Integrated	1.7-3.45V	No	No	No	Yes	No
RTL8821CS Module 6221A-SRC	Yes	Yes	Yes	Yes	4.2	Module Integrated	4.7-3.45V	No	No	No	Yes	No