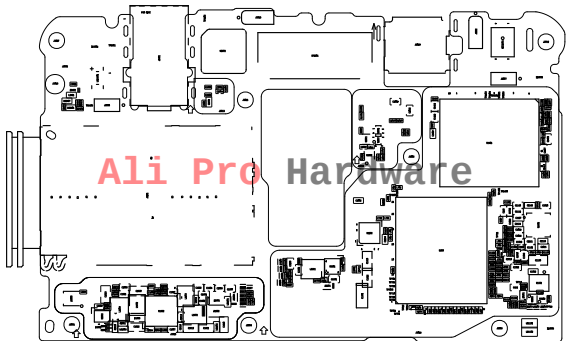
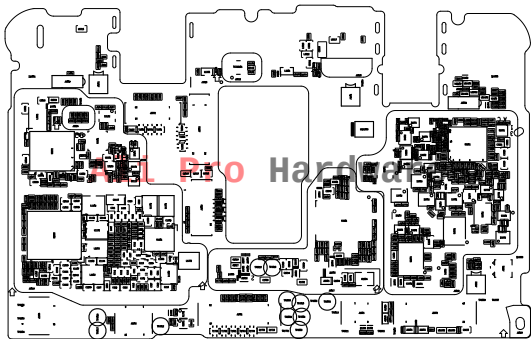






Baseband Schematic

1. Contents
2. Block Diagramm
3. SOC PWR1
4. SOC PWR2
5. SOC PWR3
6. SOC HS Interface
7. SOC GPIO Interface
8. SOC RF Interface
9. SOC GND
10. PMU LDO
11. PMU BUCK/CODEC
12. PMU MISC
13. HI6422
14. eMMC and DDR3
15. Battery and USB ID
16. Charger and LCD Power
17. LCD Interface
18. Camera MIPI SWITCH
19. Flash LED
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21. ISP Reserved
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23. Audio RCV/MIC
24. Headphone
25. Smart PA Resereved
26. X-Sensor
27. NFC Reserved
28. SIM/SD Card
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30. Test Points/Shielding

MODEM Schematic

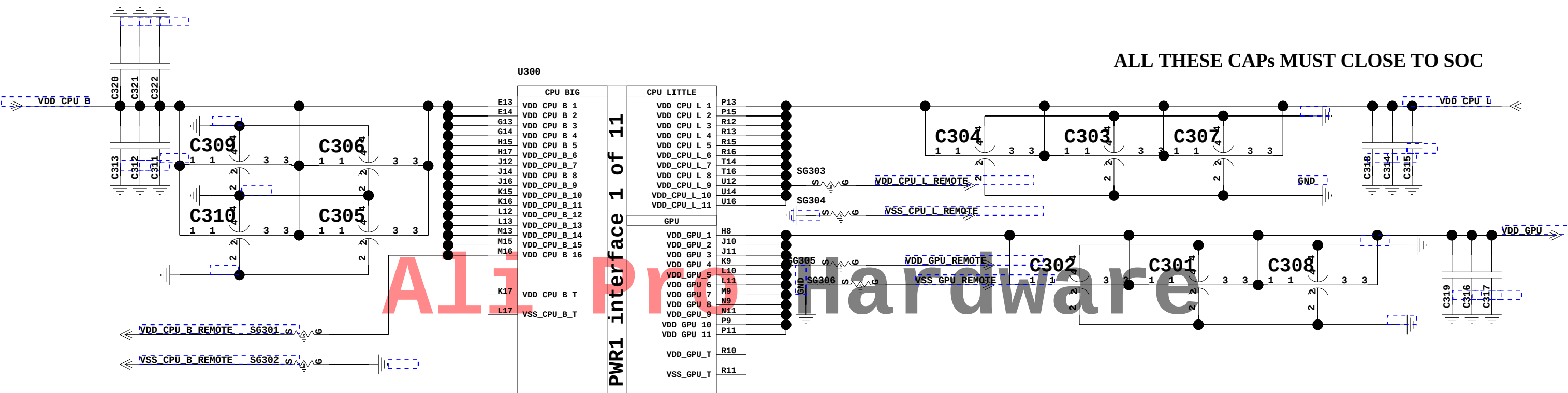
31. RF Interface
32. RF Transceiver0
33. APT Power
34. RF Power System
35. UHB PA
36. MMB PA
37. TRX B1/2/3/5/7/8
38. TRX B34/38/39/40/41
39. PRX B34/39/41/38
40. MAIN_ANT0_SWITCH
41. DIV_ANT1_SWITCH
42. DRX B1/3/7/8/BC0
43. DRX B38/39/40/41
44. Reserved
45. Reserved
46. Reserved
47. Reserved
48. Reserved
49. Reserved
50. HI1102 Power
51. HI1102 RF_FrontEnd_2GHz
52. HI1102 BB
53. HI1102 RF_FrontEnd_5GHz
54. Reserved
55. Ant Match

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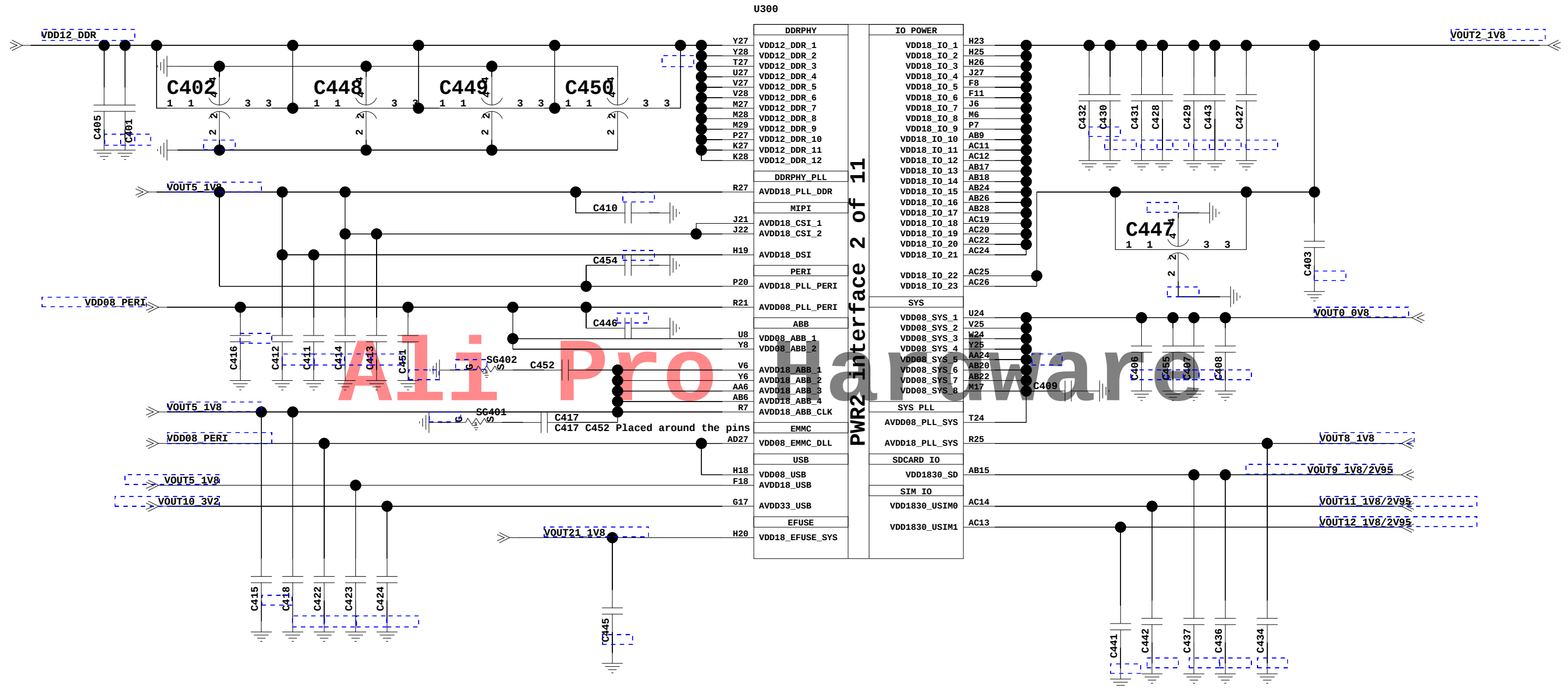
2. Block Diagramm

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3. SOC PWR1



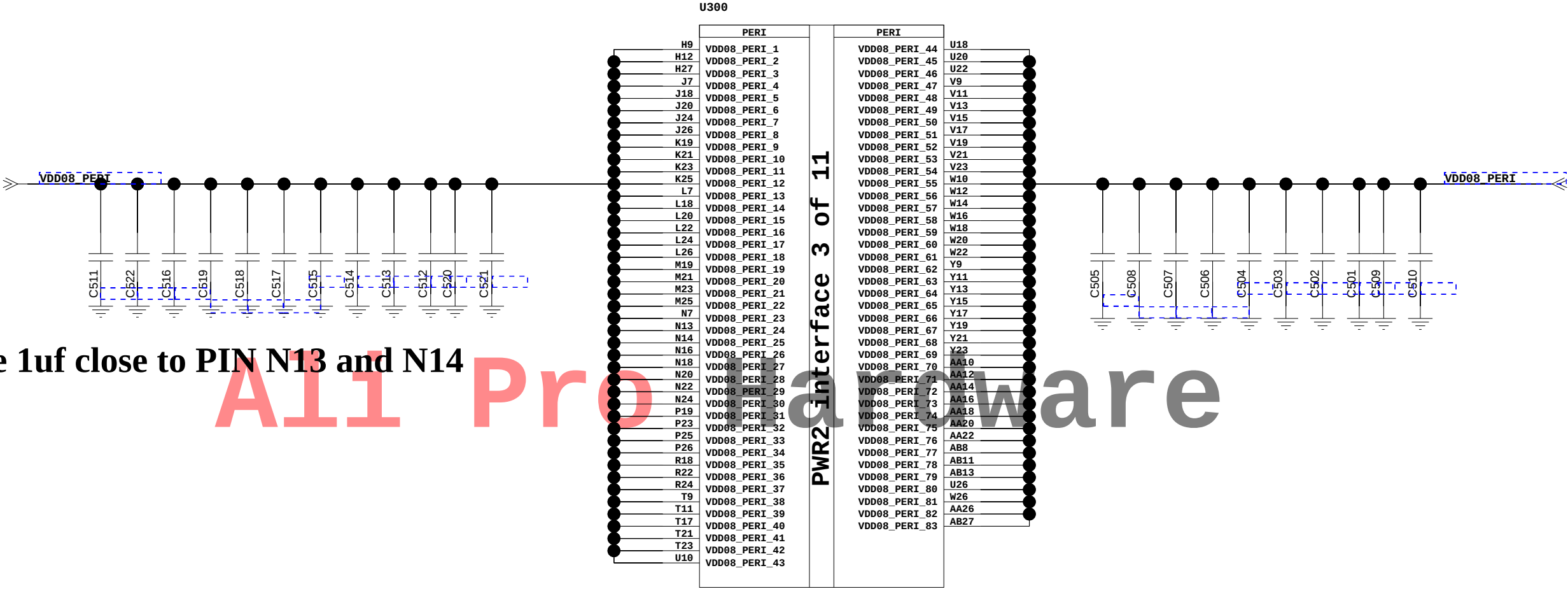
4. SOC PWR2



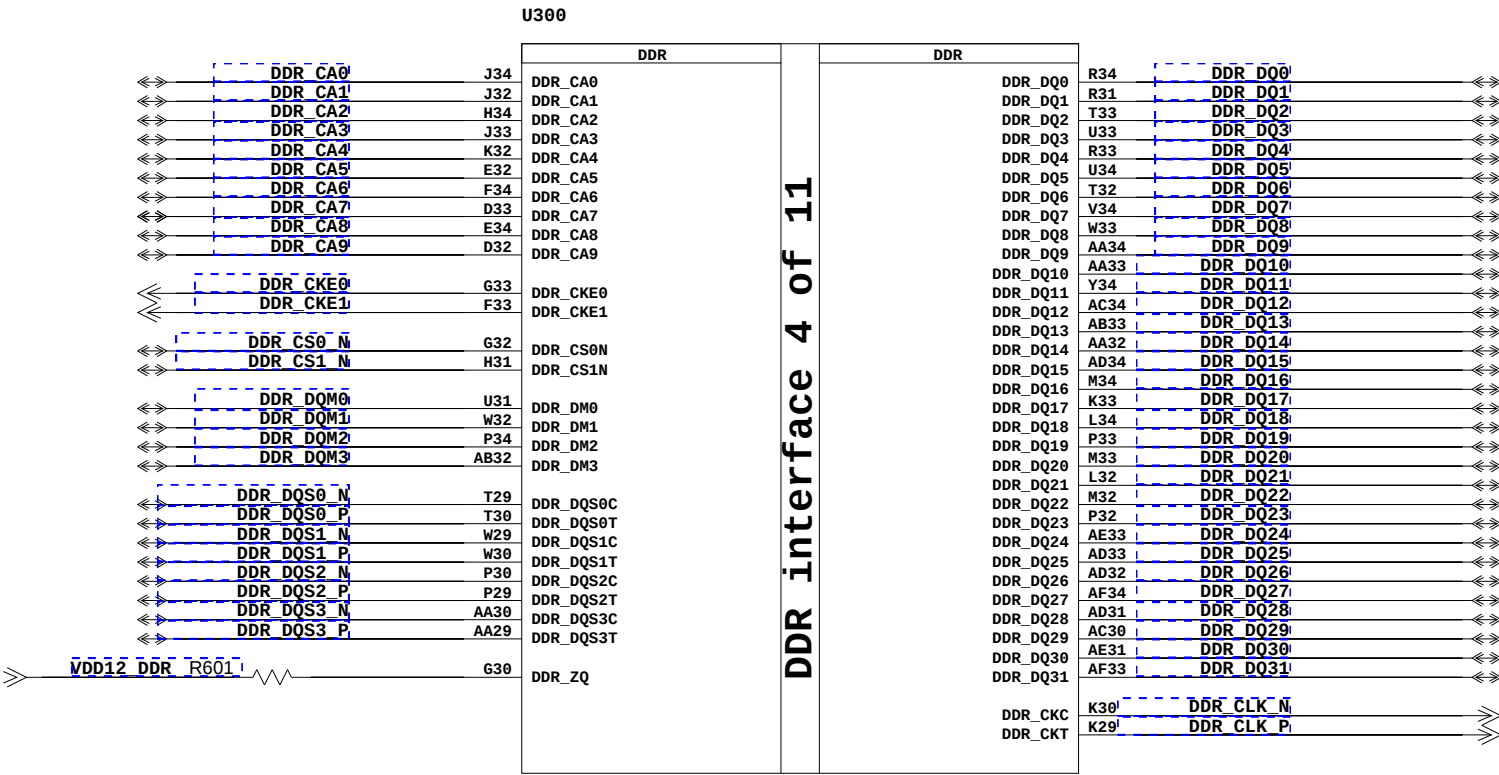
PWR2 Interface 2 of 11

5. SOC PWR3

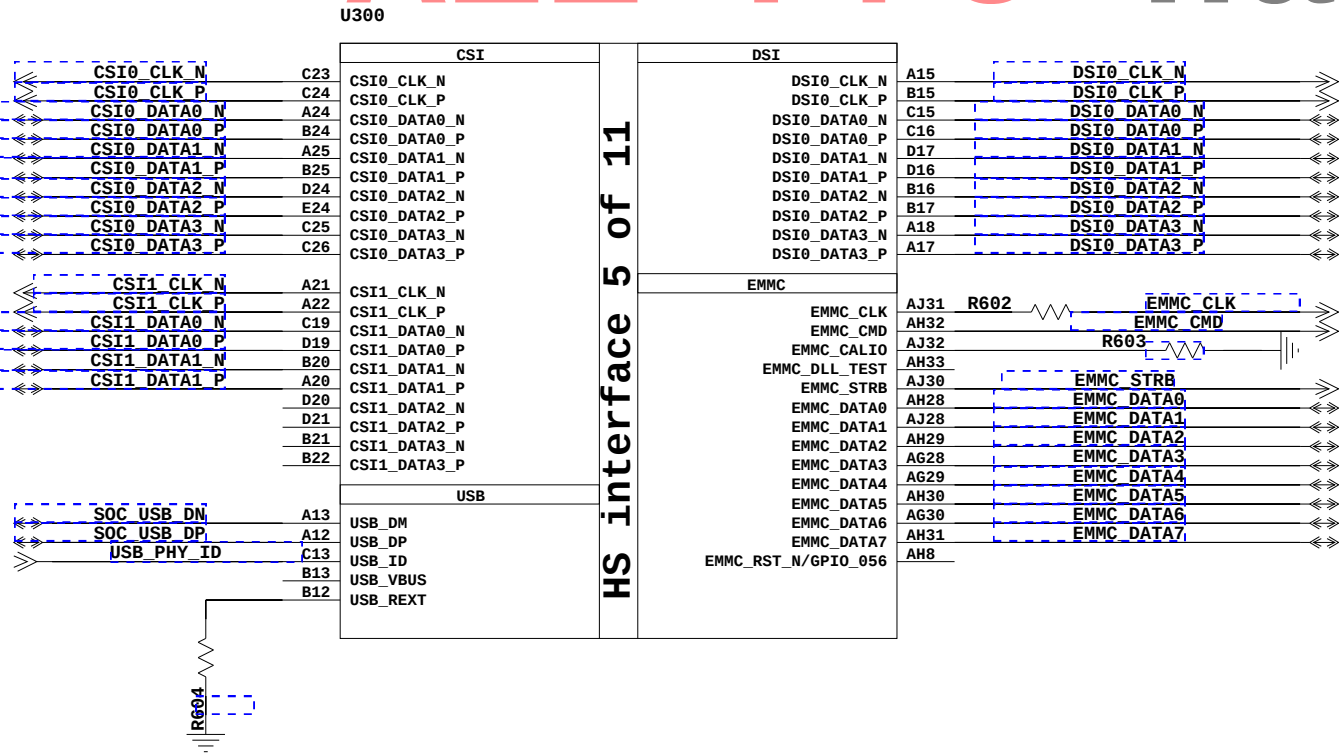
Place 1uf close to PIN N13 and N14



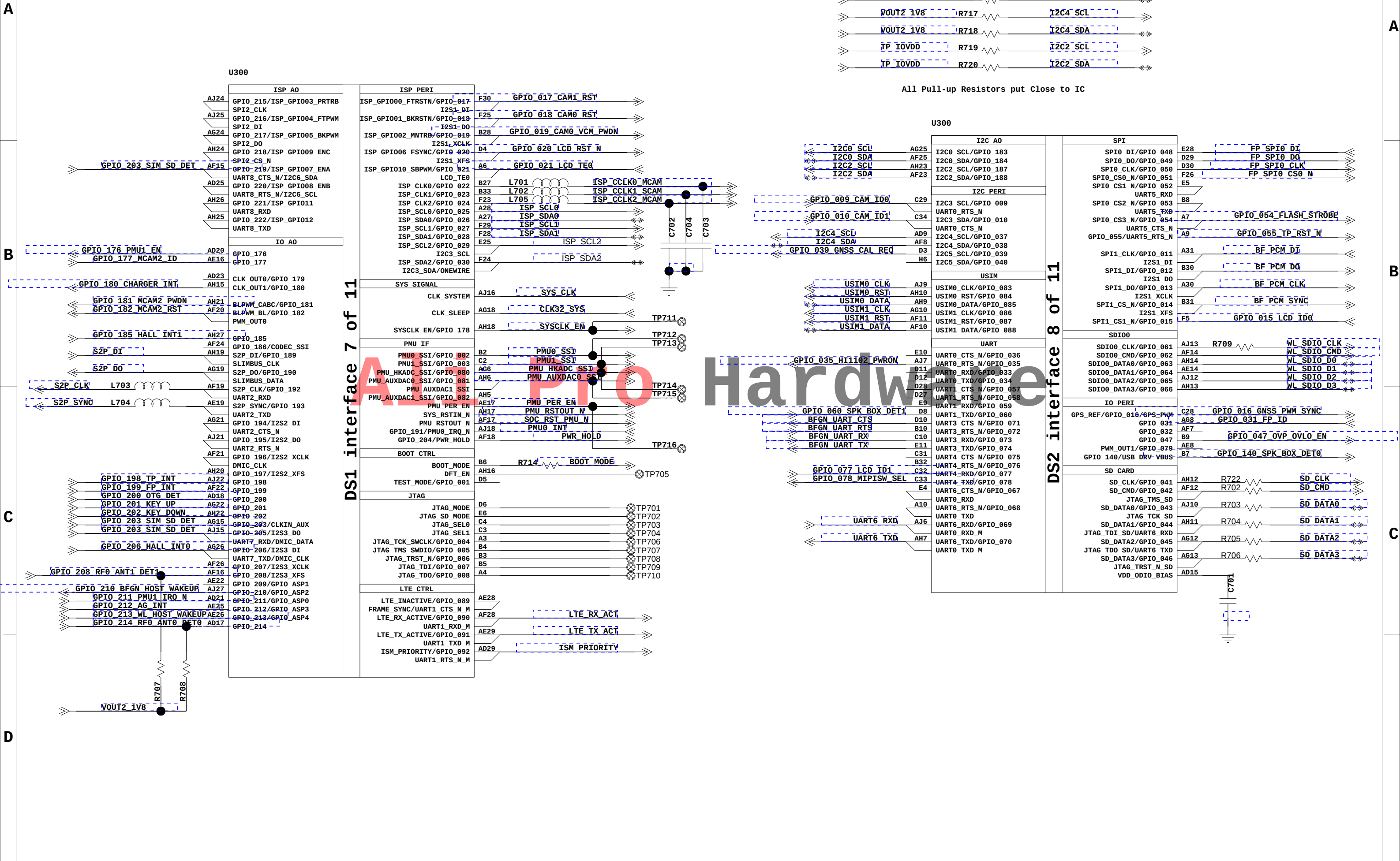
6. SOC HS Interface



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7. SOC GPIO Interface



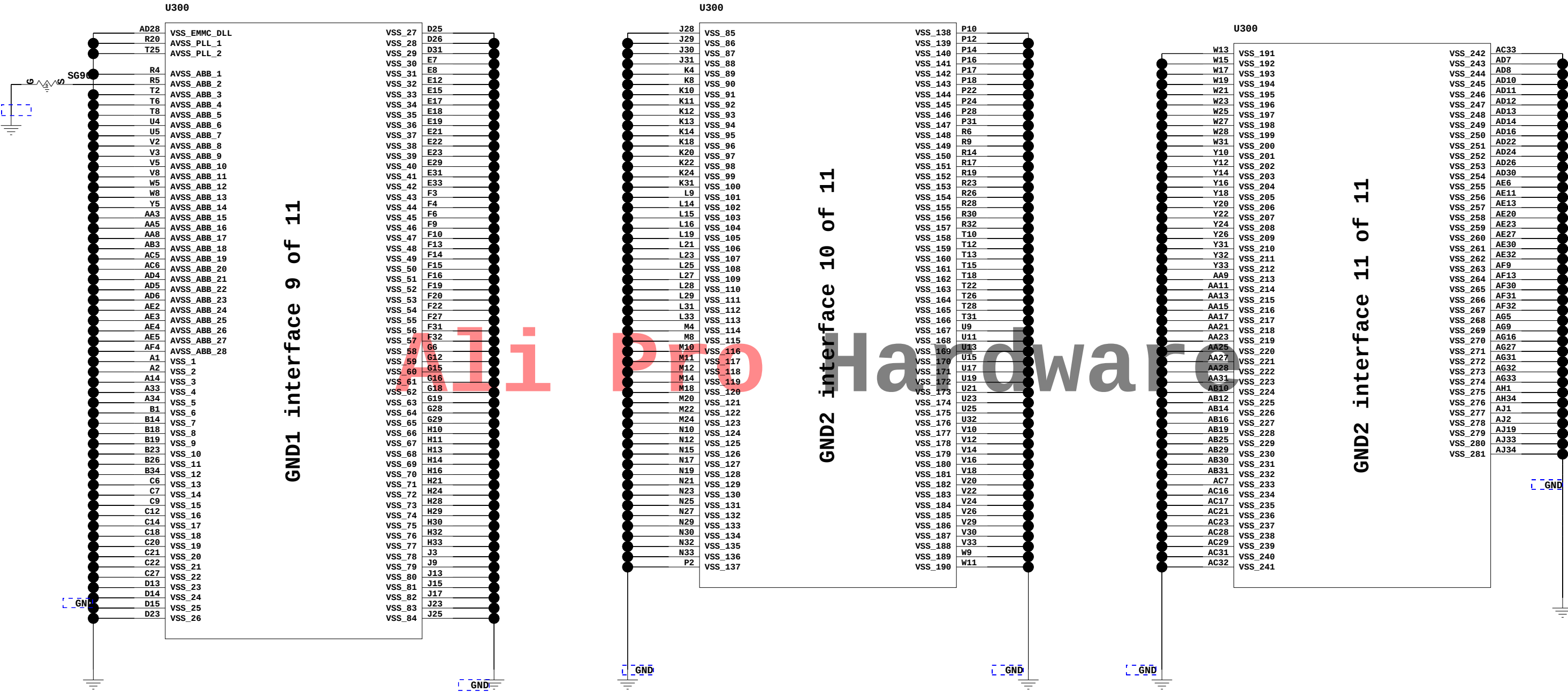
A

B

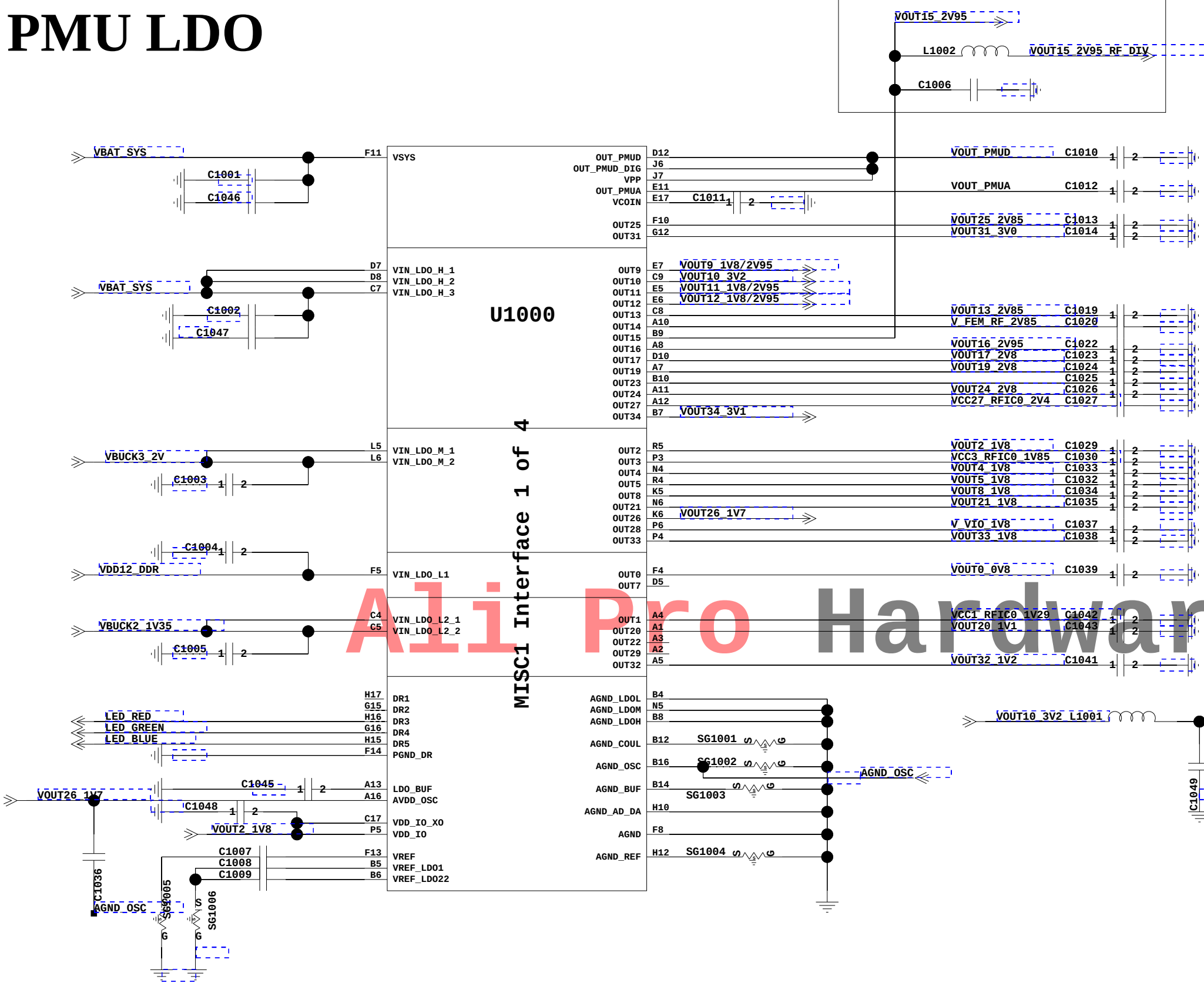
C

D

9. SOC GND

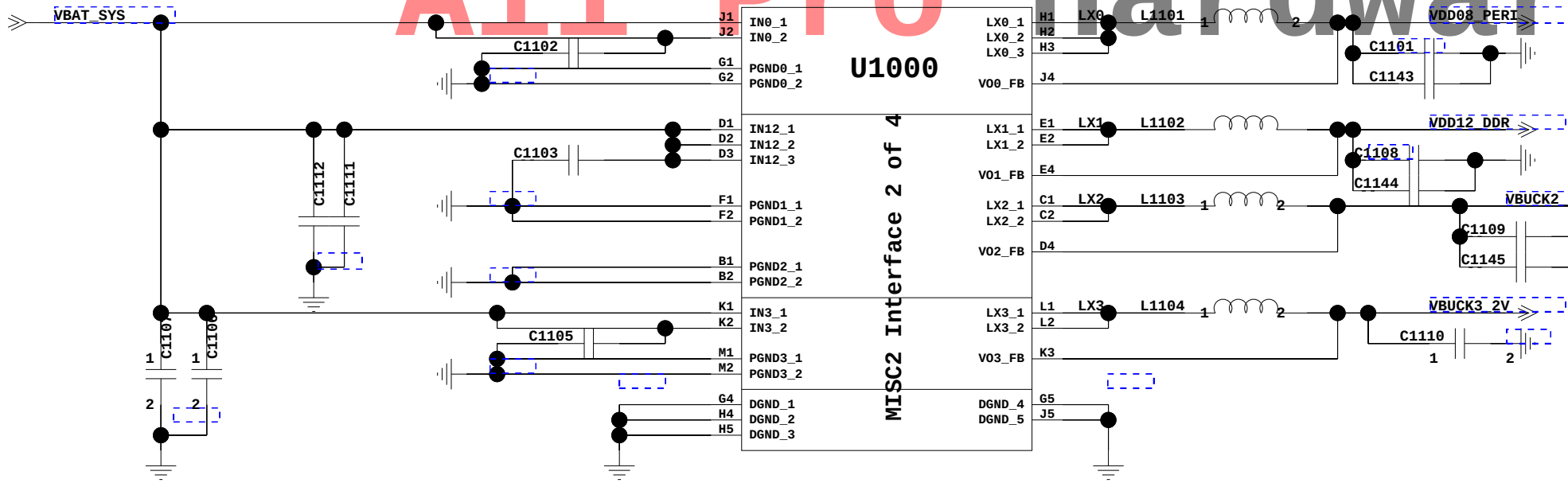
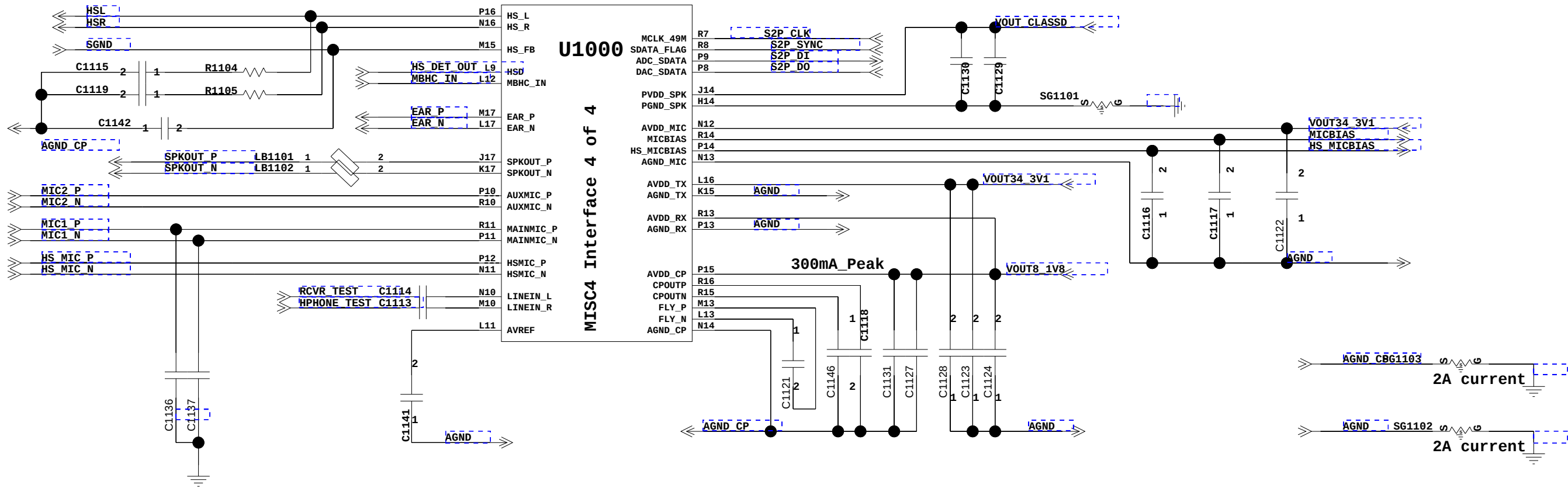


10. PMU LDO



output	default	current	voltage	function
LD01	OFF	250	1.29	SOC A0
LD02	ON	800	1.8	pmu dig/RVIC/SOC1.8IO/64021.8/LPDDR VDD/CONT IO
LD03	OFF	200	1.85	RFIC0&1 AVDD2
LD04	OFF	150	1.8	LCD1.8 IO/TP1.8 IO
LD05	ON	500	1.8	CSI/DSI/AVDD/PLL HV/USB 1.8
LD07	ON	200	0.9	AVDDH ABB
LD08	ON	300	1.8	SOCp11 6402analog classd
LD09	OFF	50	1.8/2.95	SD IO
LD010	ON	150	3.2	USB 3.0
LD011	OFF	50	1.8	SIM0
LD012	OFF	50	1.8	SIM1
LD013	OFF	300	2.85	S camera analog
LD014	OTP	50	2.85	RF FEM
LD015	ON	600	2.95	EMMC VDD
LD016	OFF	800	2.95	SD card
LD017	OFF	50	2.8	LCD TP
LD019	OFF	300	2.8	M camera anlog
LD020	OFF	400	1.1/1.2	M Camera Core
LD021	OFF	150	1.8	sys efuse
LD022	OFF	250	1.29	RFIC1 AVDD1 1.29v
LD023	ON	50	2.1	HKADC
LD024	ON	50	2.8	X Sensor AVDD
LD025	OFF	400	2.85	Camera VCM
LD026	ON	50	1.7	19.2 AVDD
LD027	ON	50	2.4	RF 6362
LD028	OFF	50	1.8	RF MIPI I/O
LD029	ON	200	1.2	Hi6402 1.2V
LD030				
LD031	OFF	300	3.0	Vibrator
LD032	OFF	400	1.2	S Camera Core
LD033	OFF	150	1.8	M/S Camera I/O
LD034	ON	150	3.2	codec 3.2V

11. PMU BUCK/CODEC



BUCK0	ON	3000	0.8	DDR Core/CSI/DSI Phy emmc phy usb phy...
BUCK1	ON	2000	1.2	VDDQ/VDDCA/VDD2/ODTLD02
BUCK2	ON	2000	1.35	1.35 buck
BUCK3	ON	2000	2.0	2.0 buck

12. PMU MISC



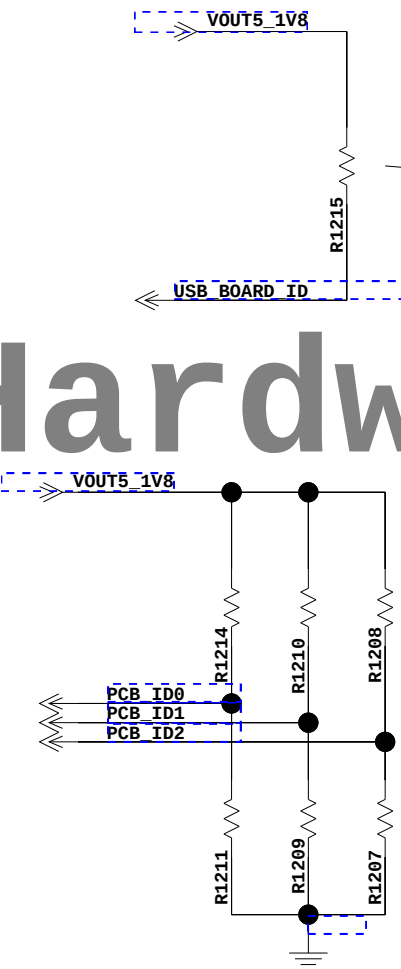
HKADC	Function	HKADC	Function
HKADC_IN0	Board ID	HKADC_IN7	USB_BOARD_ID
HKADC_IN1	Board ID	HKADC_IN8	NULL
HKADC_IN2	Board ID	HKADC_IN9	TD_PA0
HKADC_IN3	DCX0 Temp	HKADC_IN10	BATT Temp
HKADC_IN4	PD_PA0	HKADC_IN11	TD_SOC
HKADC_IN5	BATT ID	HKADC_IN12	TD_Scharger
HKADC_IN6	LCD_VSP_DET		

Project	SubBoard REFDES	Value	Code	STATE	
BLN-TL00A	R201	200K	07091406	SMT,Other Res DNI	
BLN-TL00	R202	150K	07092138	SMT,Other Res DNI	
BLN-AL10A&B&C	R203	100K	07091246	SMT,Other Res DNI	
BLN-L21 BLL-L21&L01	R204	68K	07091408	SMT,Other Res DNI	
BLN-L22 BLL-L22&L02	R205	51K	07091302	SMT,Other Res DNI	
BLL-L23&L03	R206	30K	07091299	SMT,Other Res DNI	
Reserved	R207	22K	07091172	SMT,Other Res DNI	

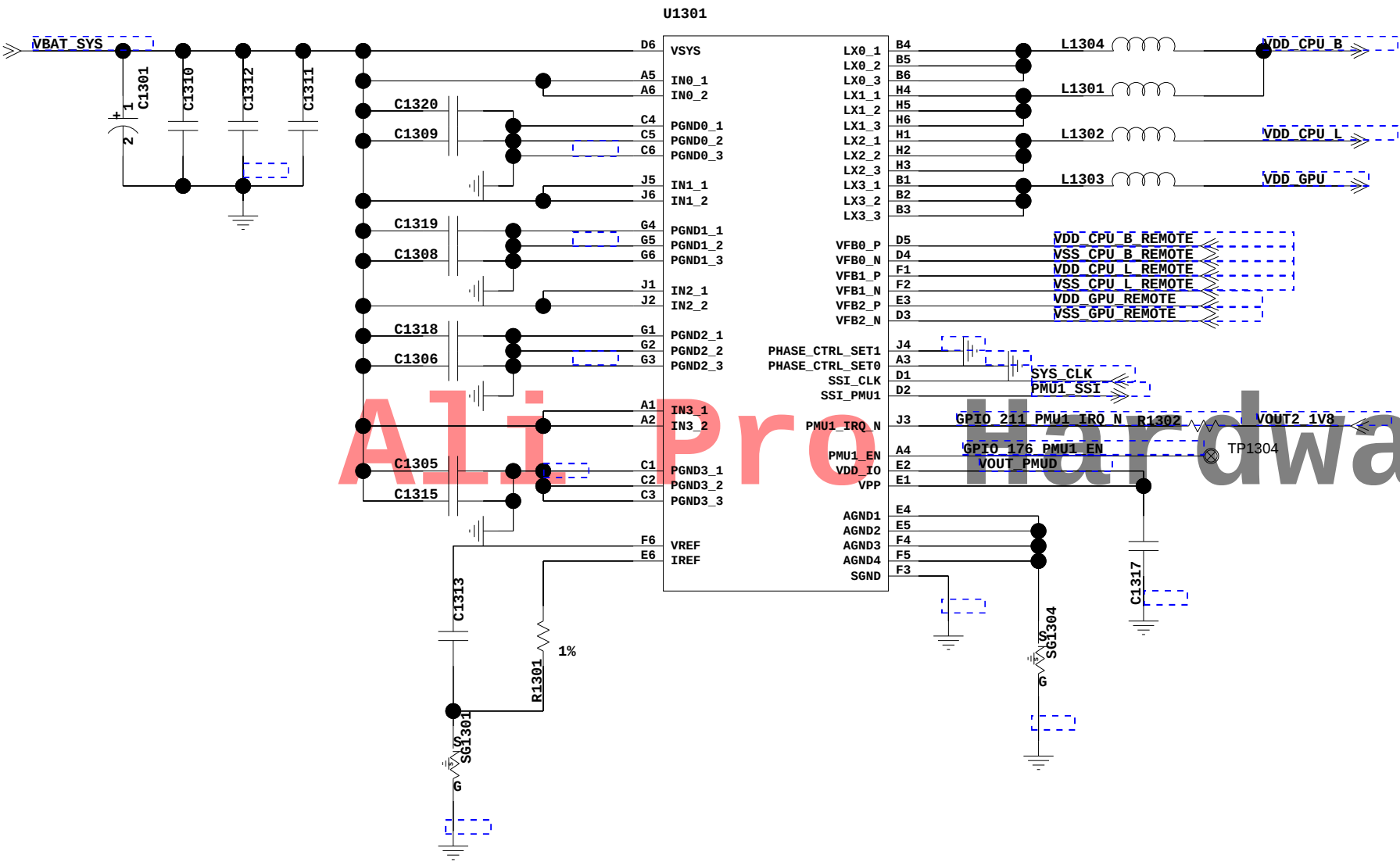
R1215's Code consistent with R201-R208 in subboard.

		R1208	R1207	R1210	R1209	R1214	R1211
BLN-AL10A&B&C	VN1	30K	100K	NC	0K	30K	100K
BLN-TL00	VN1	30K	100K	150K	22K	30K	100K
BLN-L21	VN1	30K	100K	200K	100K	30K	100K
BLL-L21&L01	VN1	30K	100K	150K	121K	30K	100K
BLN/L-L22&L02	VN1	30K	100K	121K	150K	30K	100K
BLL-L23&L03	VN1	30K	100K	51K	100K	30K	100K
BLN-AL10A&B&C	VN1.1	30K	100K	NC	0K	51K	100K
BLN-TL10	VN1.1	30K	100K	100K	30K	30K	100K

Board ID Resistor Set				Resistor Code	
ID	UP RES	DOWN RES	0K	07090911	
0	NC	0K	20K	07092448	
1	150K	22K	22K	07091172	
2	100K	30K	30K	07091299	
3	200K	100K	51K	07091302	
4	150K	121K	100K	07091246	
5	121K	150K	121K	07091176	
6	51K	100K	150K	07092138	
7	30K	100K	200K	07091406	
8	20K	150K			
9	150K	NC			

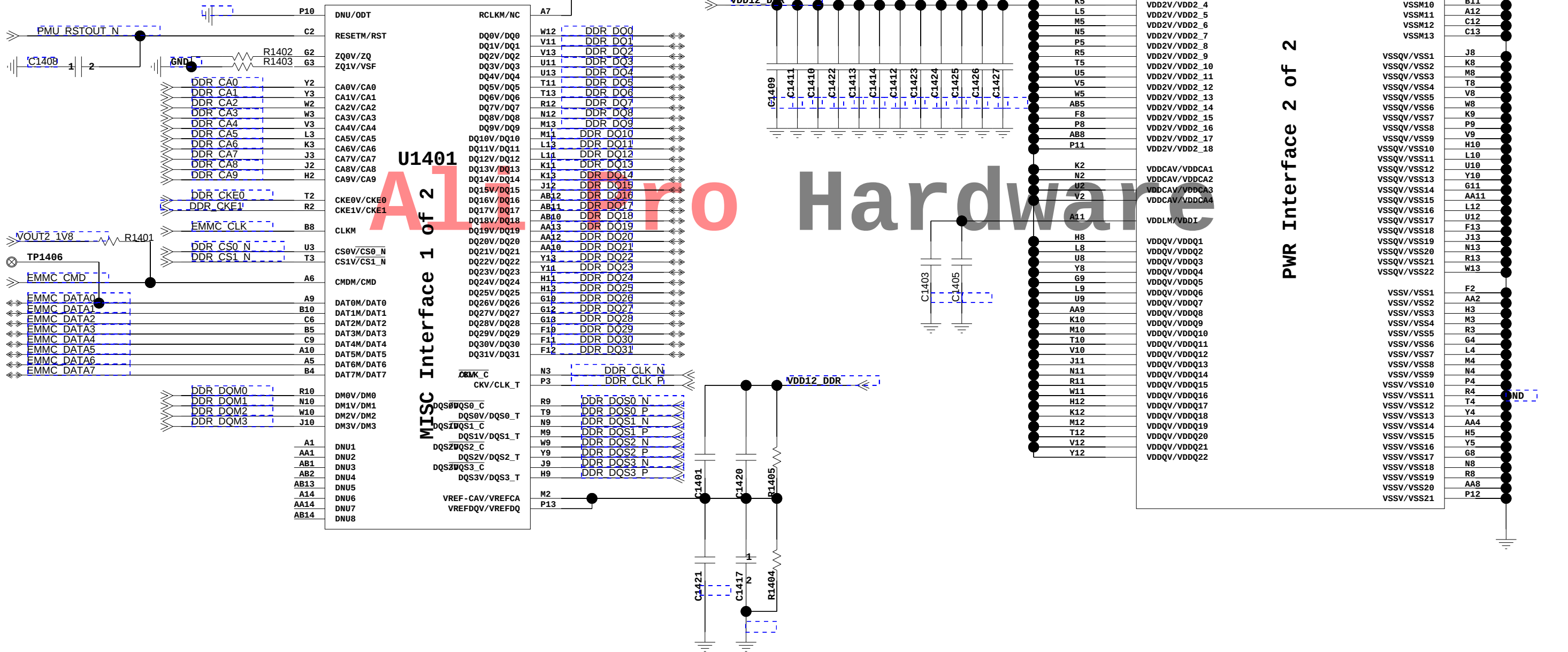


13. HI6422



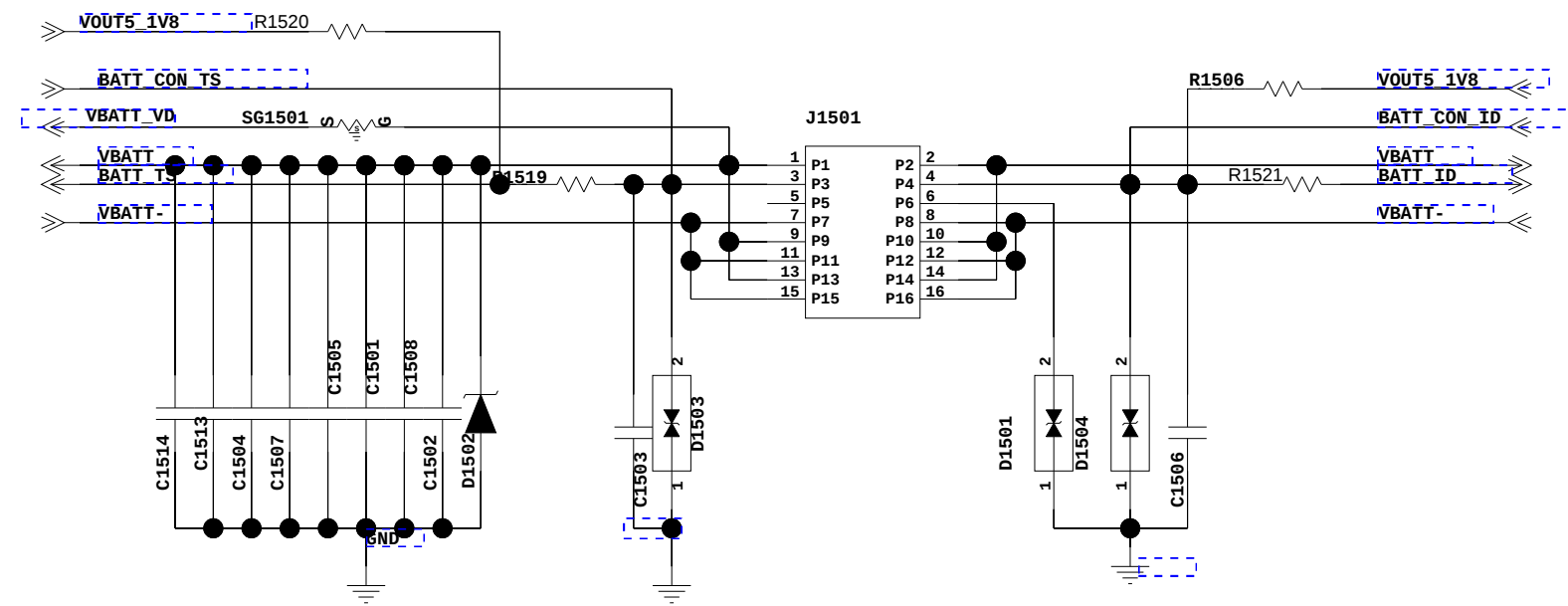
14. eMMC and LpDDR3

eMCP: 3G LPDDR3+32G EMMC code:40060744
eMCP: 4G LPDDR3+32G EMMC code:40060747

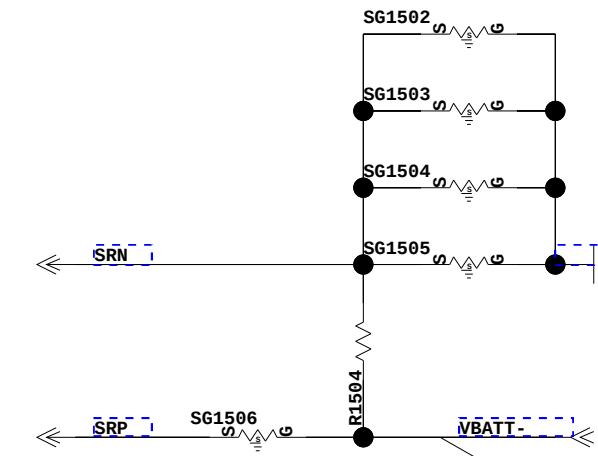


PWR Interface 2 of 2

15. Battery and Switch

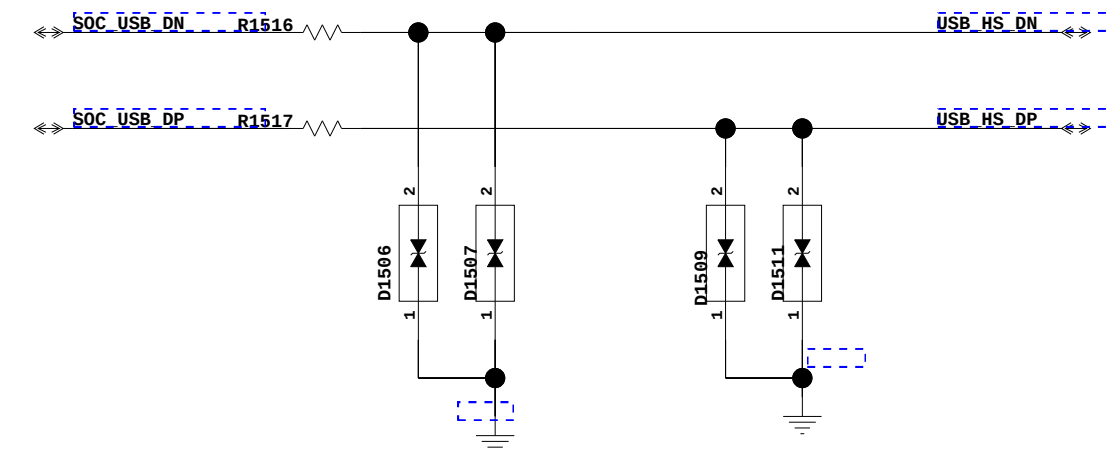
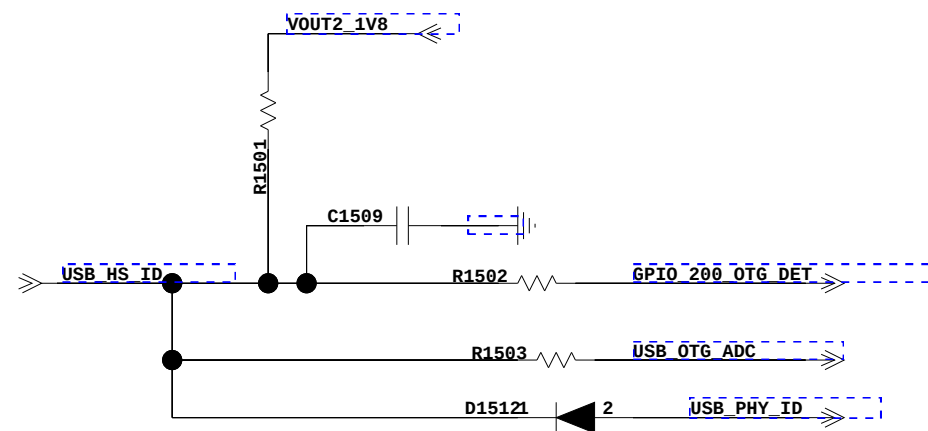


CAD note:1.Trace for 6A
2.Differential trace

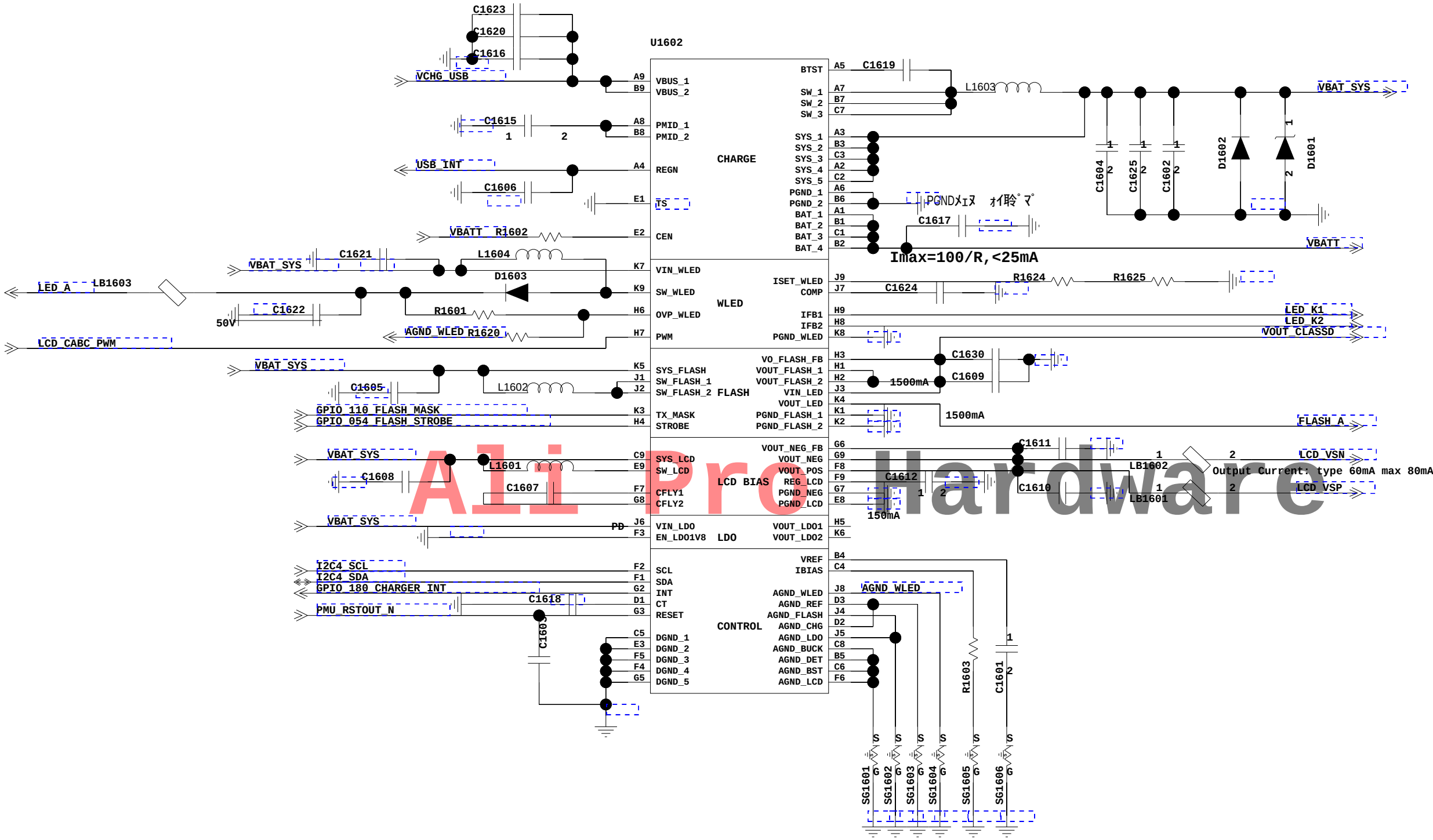


Differential line, divide from R1504 Pads.

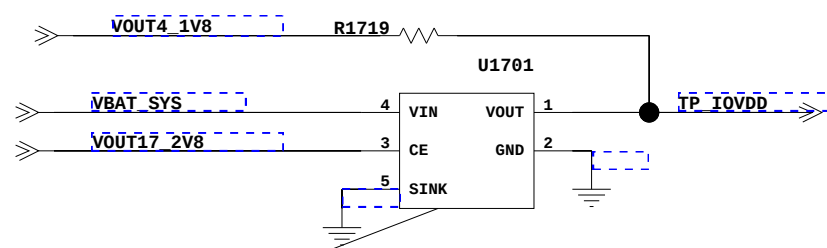
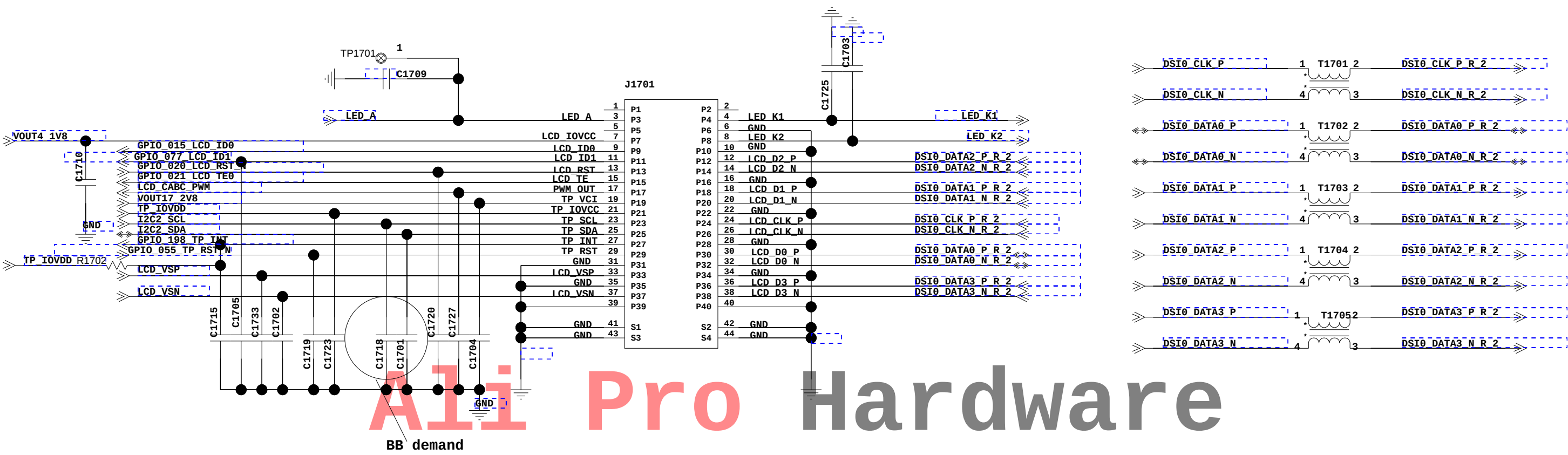
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16. Charge Management



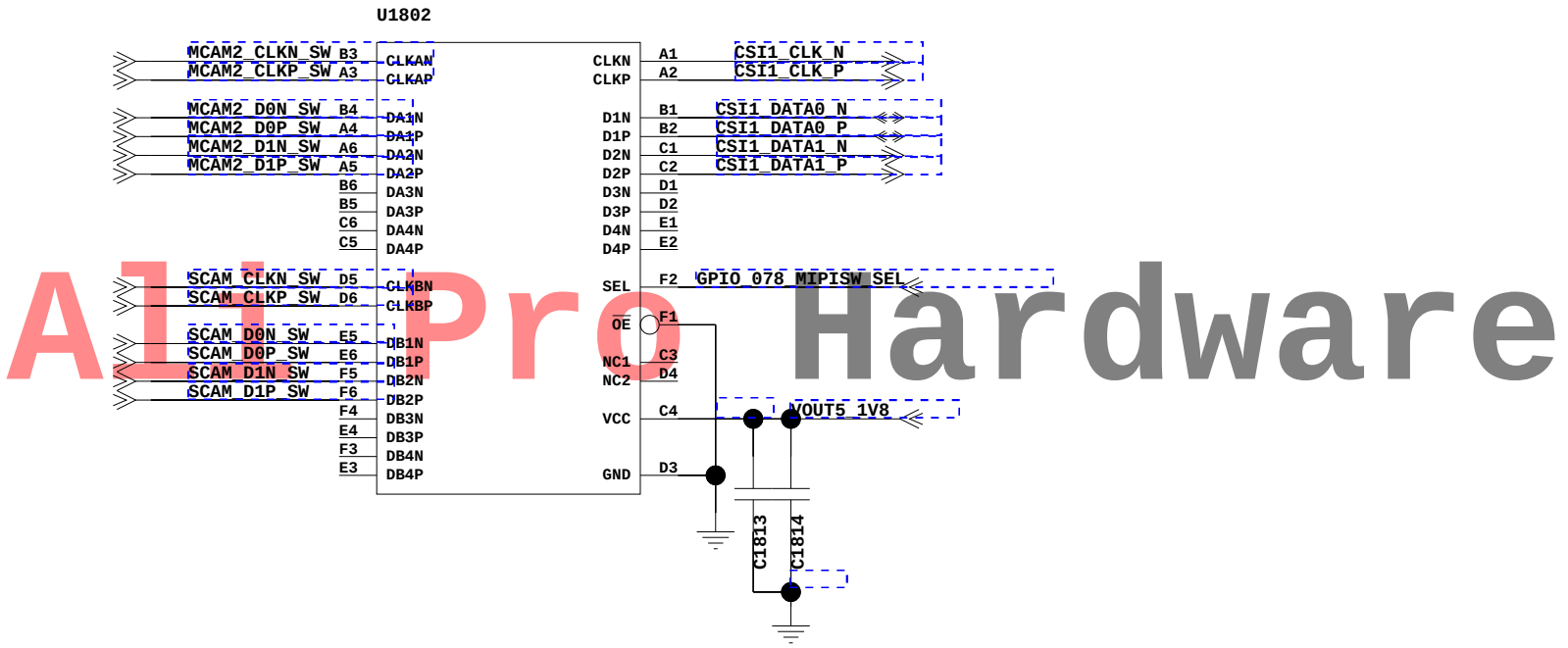
17. LCD Interface



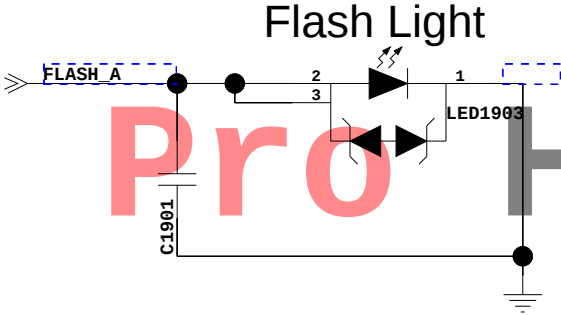
U1701: Original code is 0755, changed for 1023 to verify Onsem

LCM MODULE	R1719	U1701	R1721&R1722&C1732
GFF	SMT->DNI	DNI->SMT	DNI
INCELL	SMT->DNI	SMT->DNI	SMT

18. Camera MIPI SWITCH



19. Flash LED



A



21. ISP Reserved

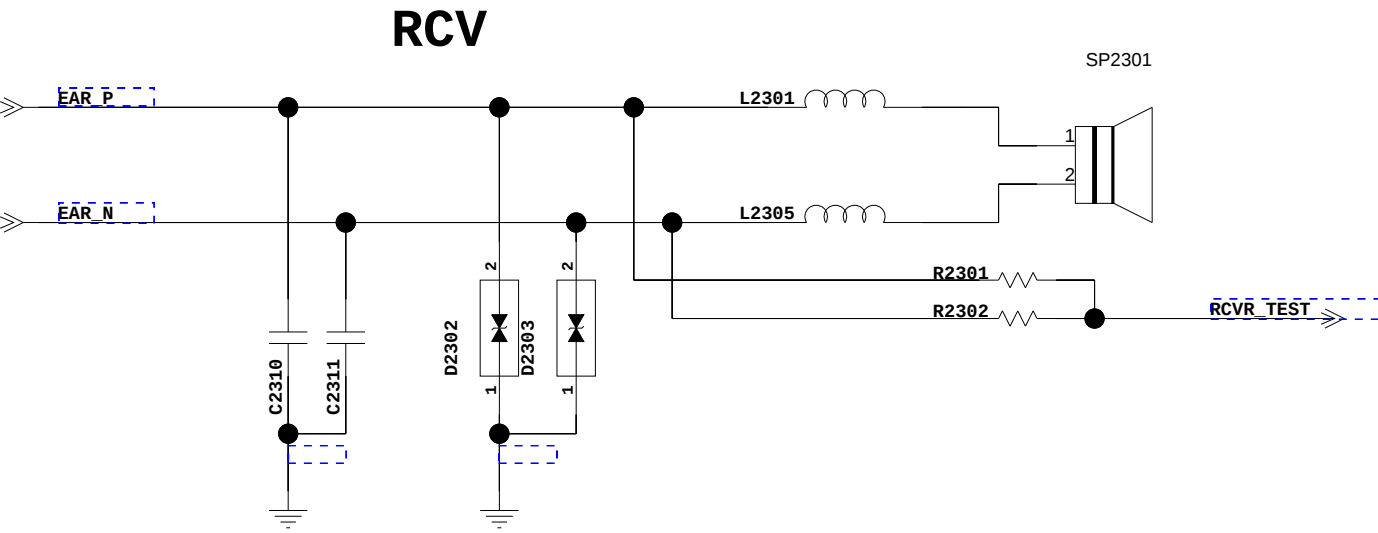
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22. Codec HI6402 Reserved

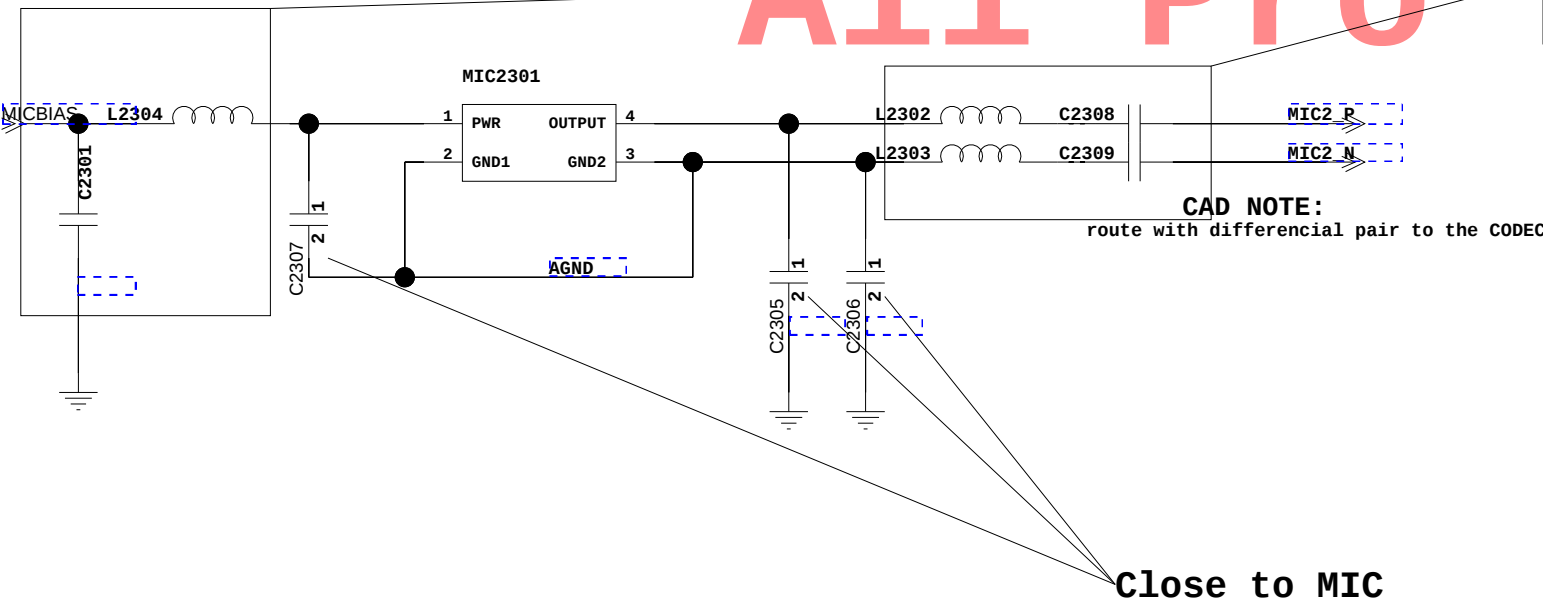
Ali Pro Hardware

BootMode0	BootMode1	Function(BootROM Start)
1	1	SPI Start
1	0	SSI Start
0	1	I2C Start
0	0	SLIMBUS Start

23. Audio RCV/MIC

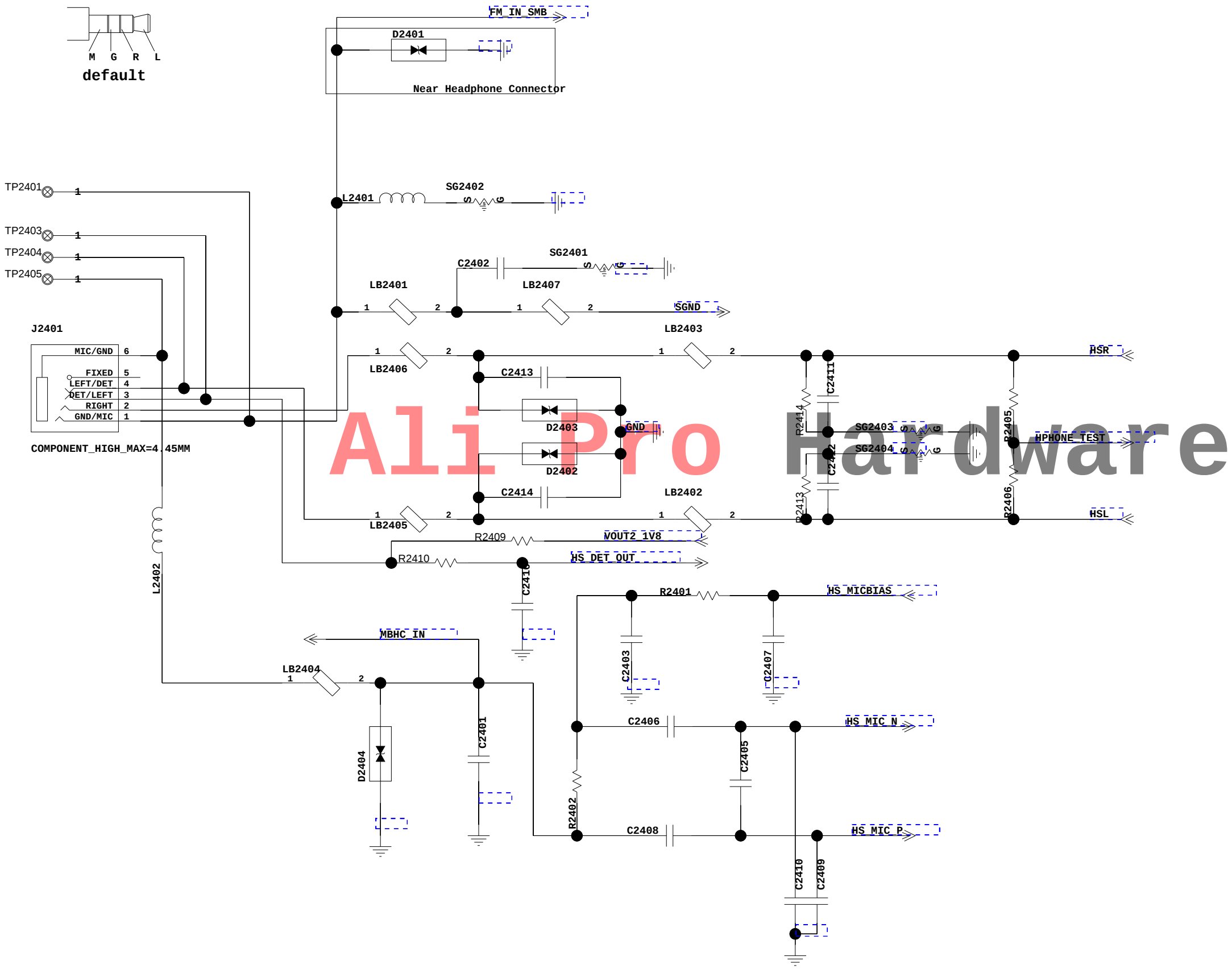


Secondary Mic
Code 22050075



CAD note: MIC need differential trace

24. Headphone

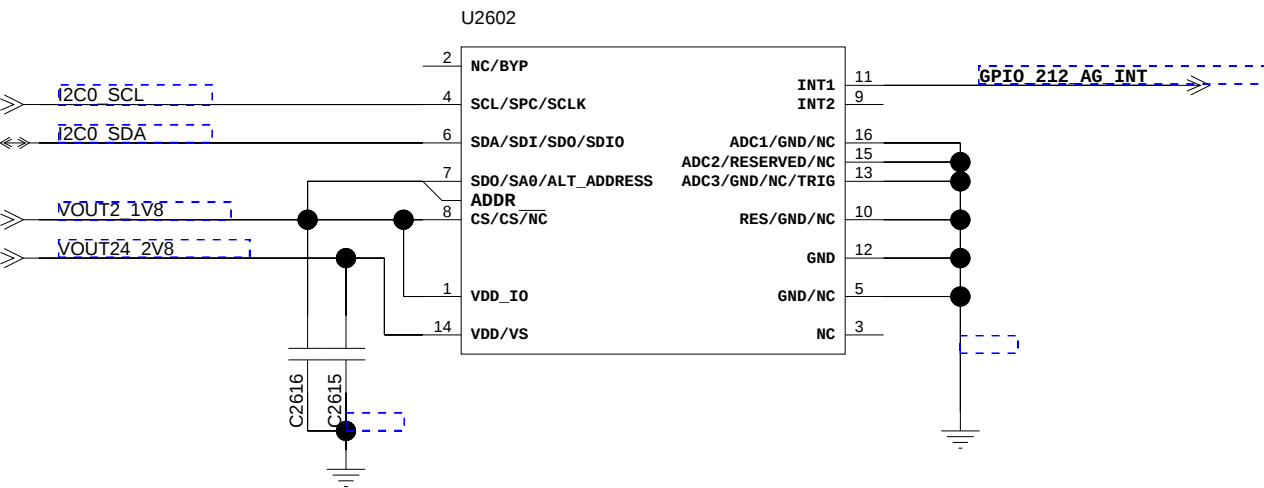


25. Smart PA Reserved

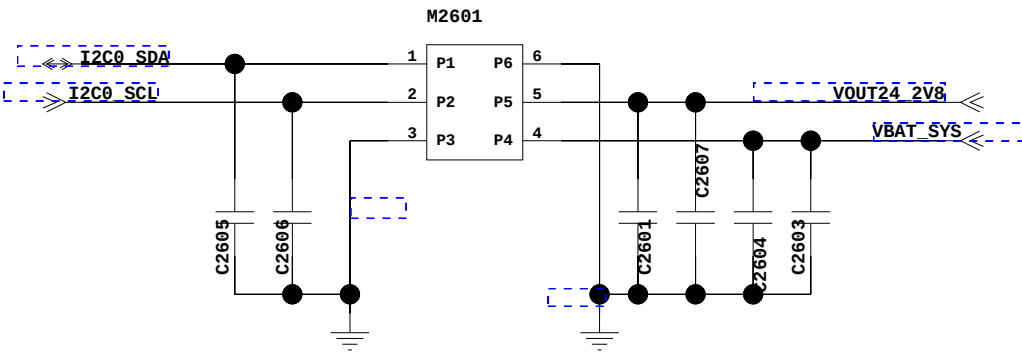
Ali Pro Hardware

26. X-Sensor

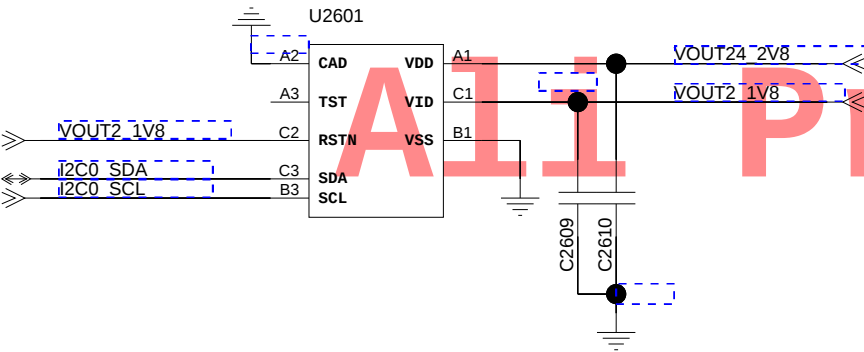
Accelerometer



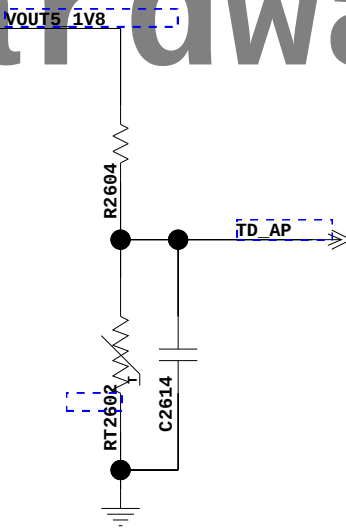
Ambient Light



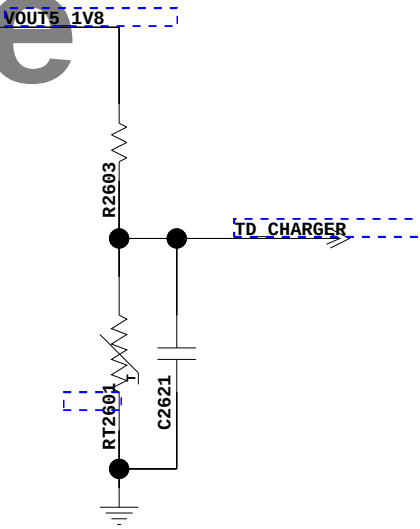
Compass



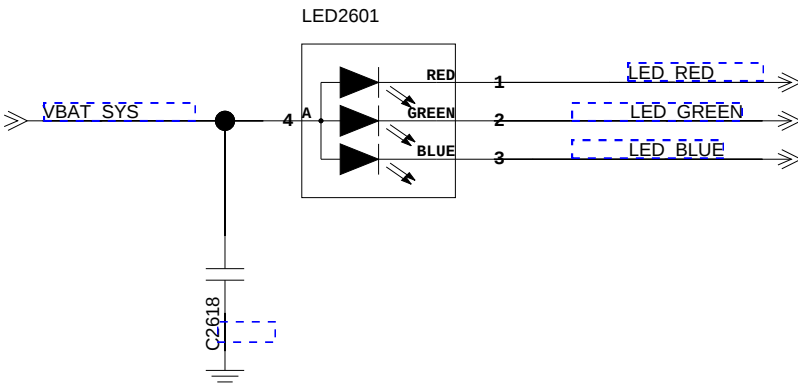
Hot Area TMP sensor



Hot Area TMP sensor



Status indicator



AP IC TEMP

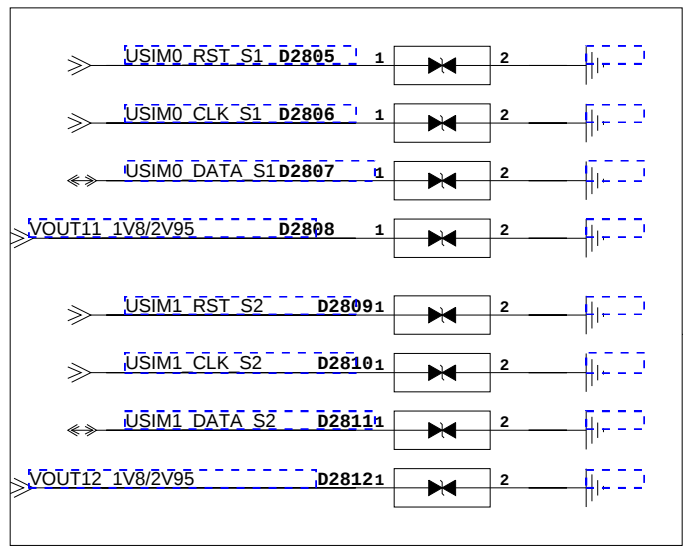
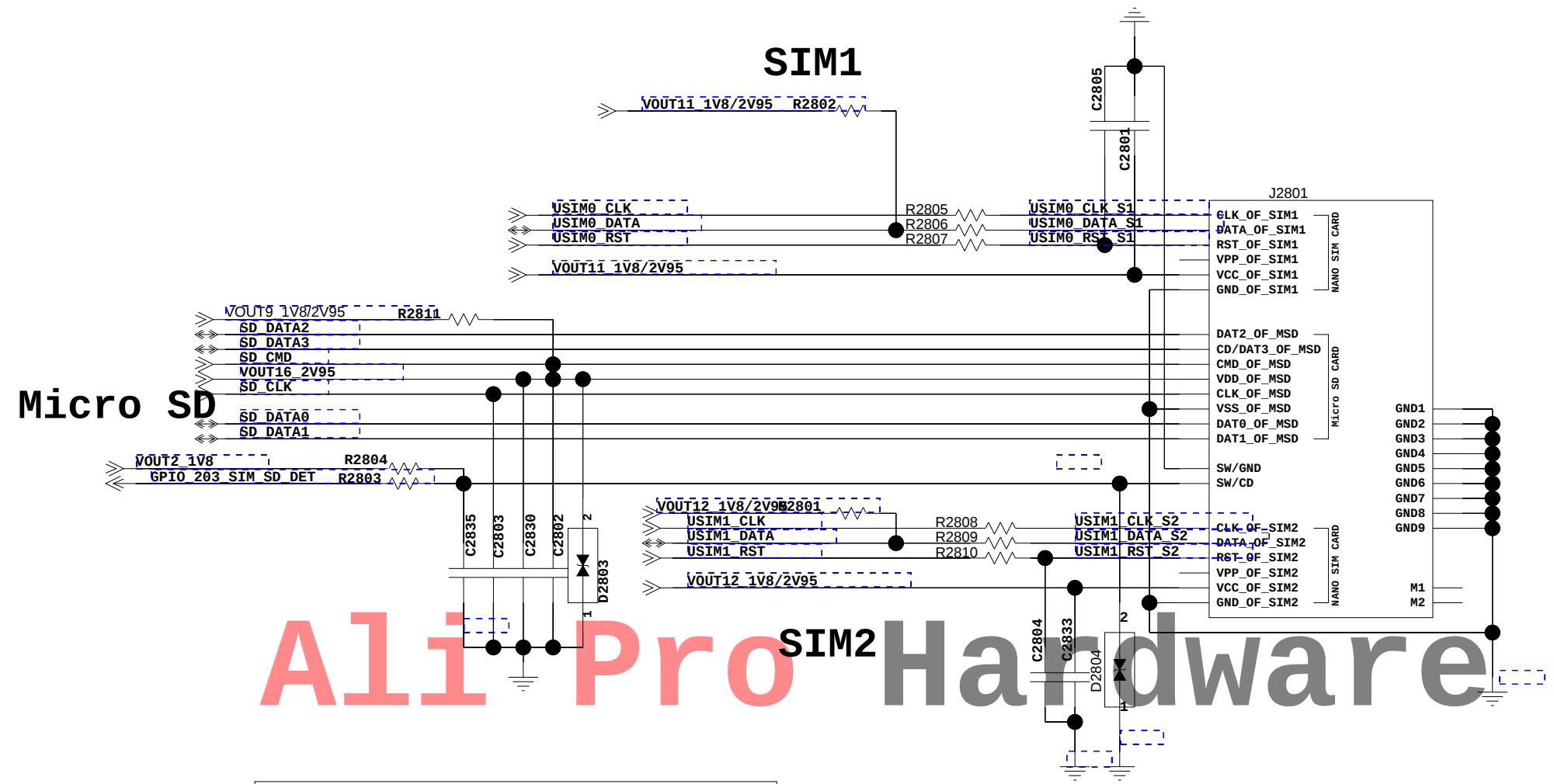
Charger IC TEMP

27. NFC_Reserved

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28. SIM/SD Card

Nano SIM Card 1: TDD-LTE/FDD-LTE/TD-SCDMA /WCDMA/CDMA1X&EVDO/GSM

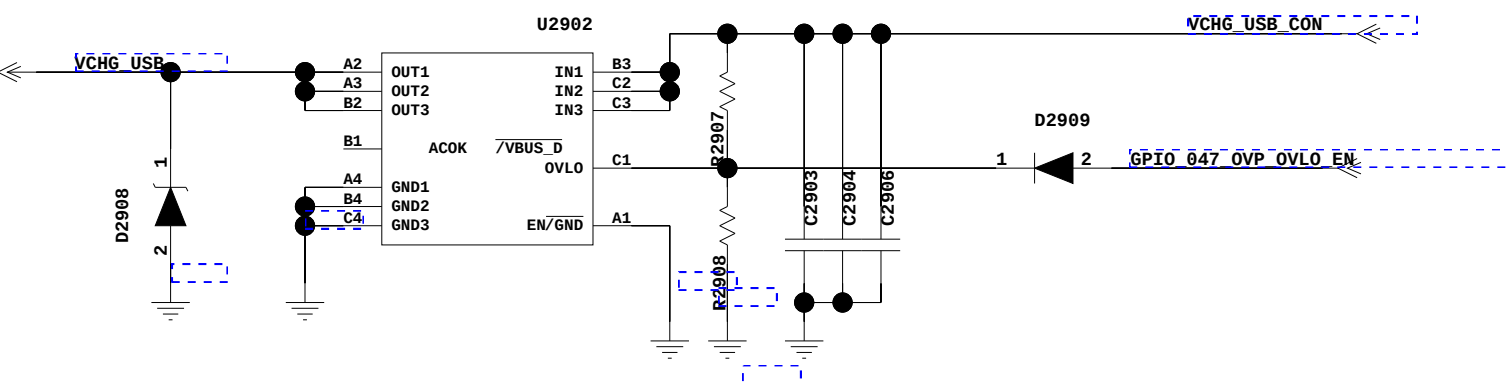


Nano SIM Card 2: TDD-LTE/FDD-LTE/TD-SCDMA /WCDMA/CDMA1X&EVDO/GSM and Micro SD

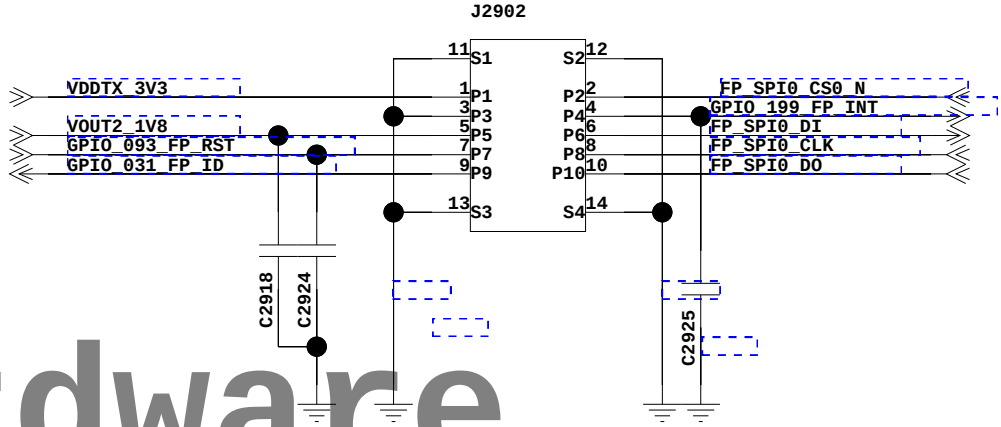
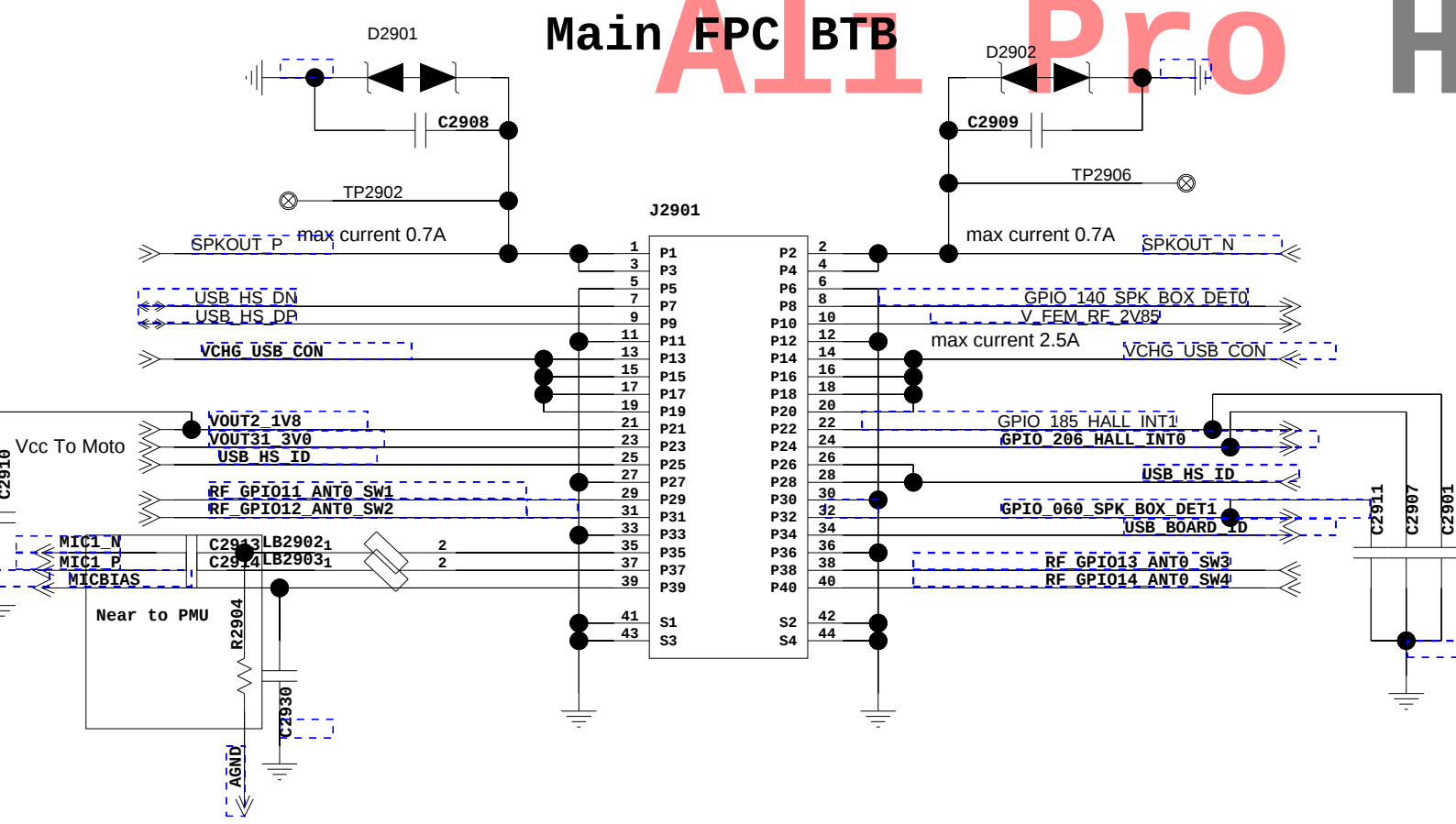
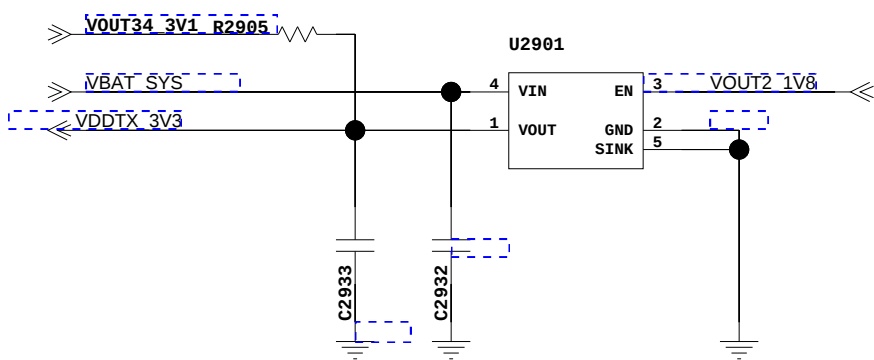
Placed close to Card Tray

29. FPC Interface

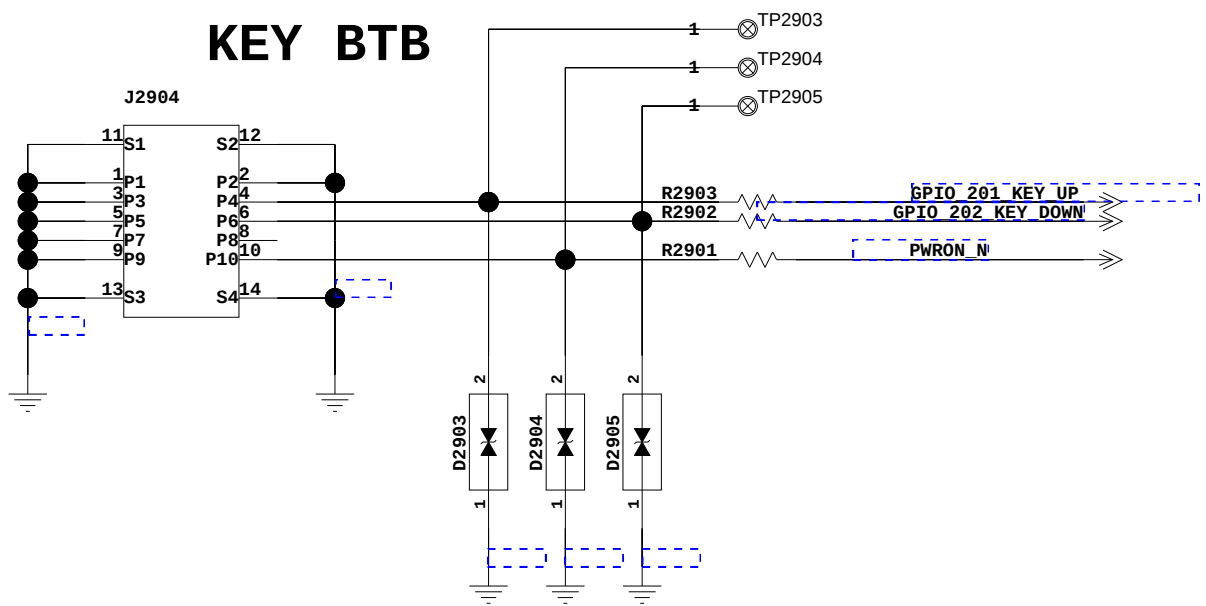
For Protect£-should closed to J2901



FingerPrint BTB

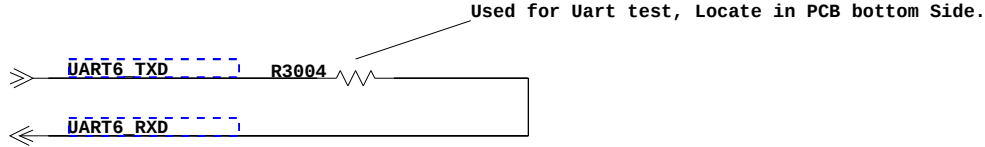
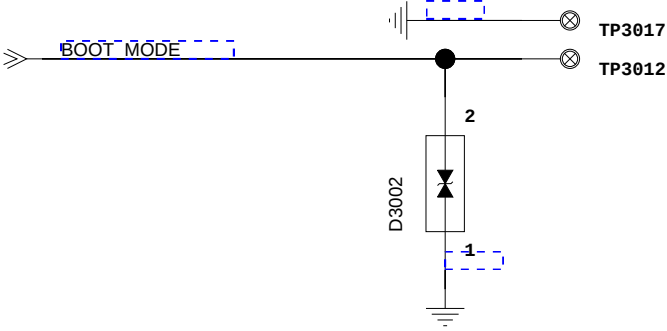
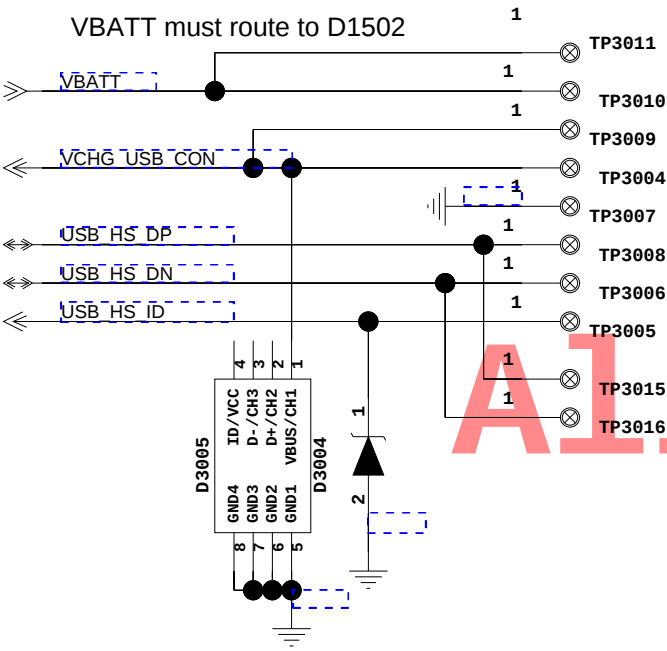
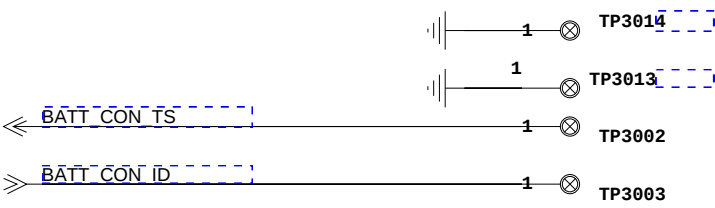


KEY BTB

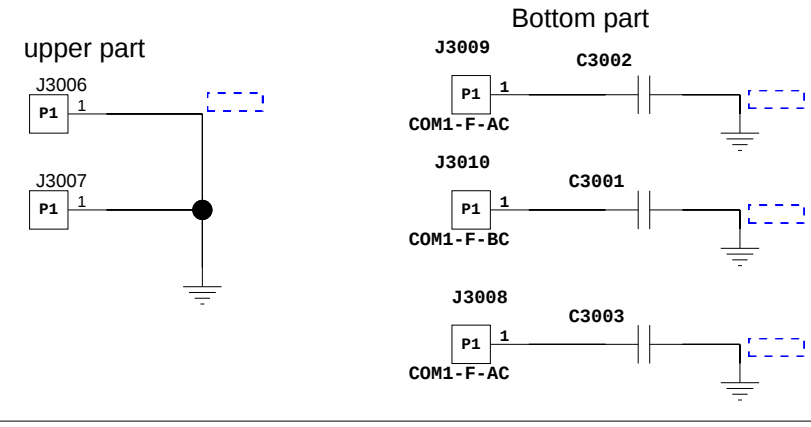


30. Test Points/Shielding

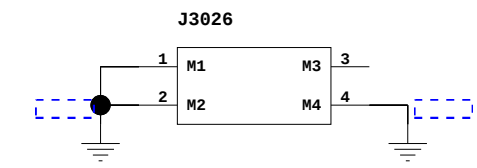
CT BT



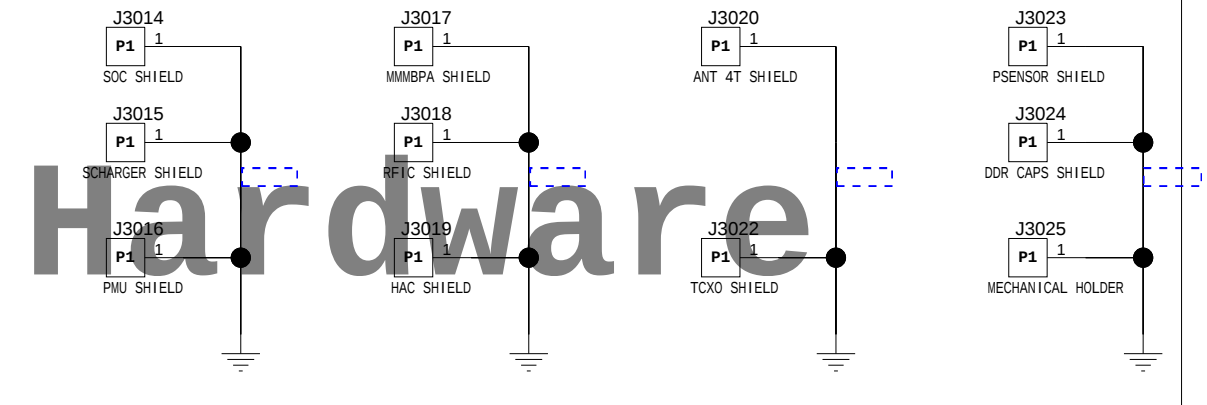
GND springs



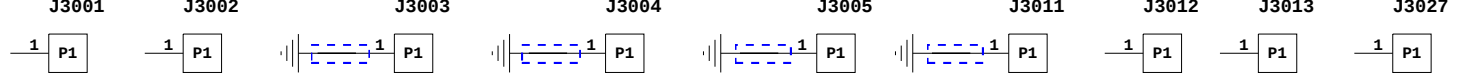
Front Camera Bracket



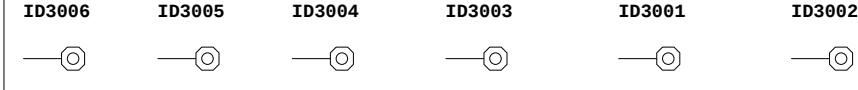
Shielding



HOLE

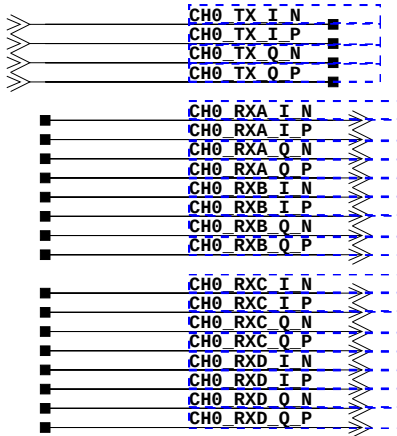


MARK POINT

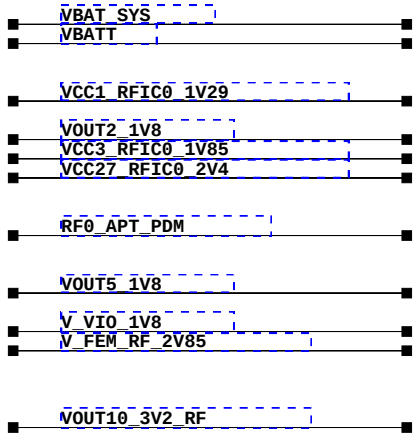


31_RF interface

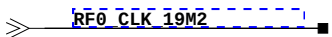
RFIC0 IQ



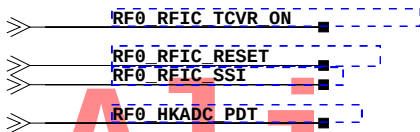
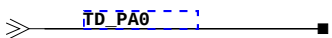
Power



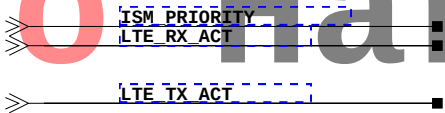
CLOCK



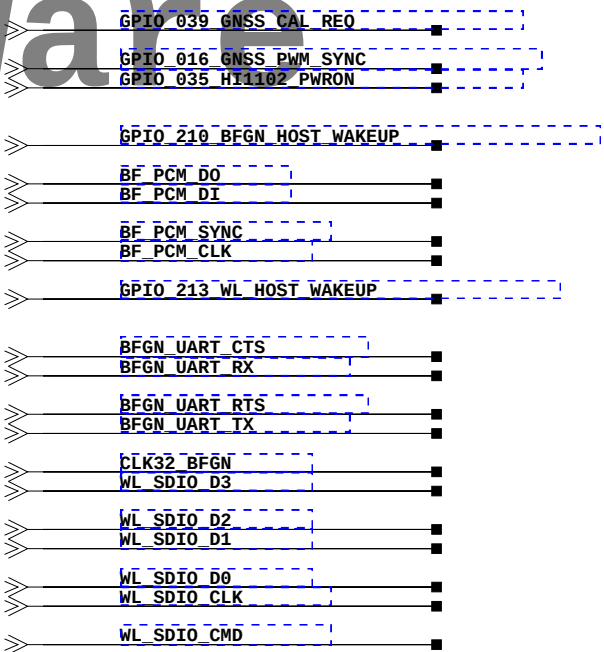
PA temperature



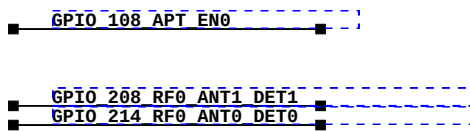
LTE WIFI COEXT



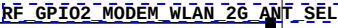
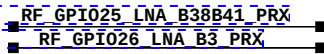
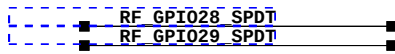
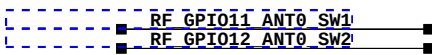
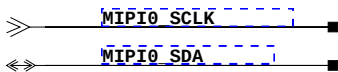
NC



GPIO Interface



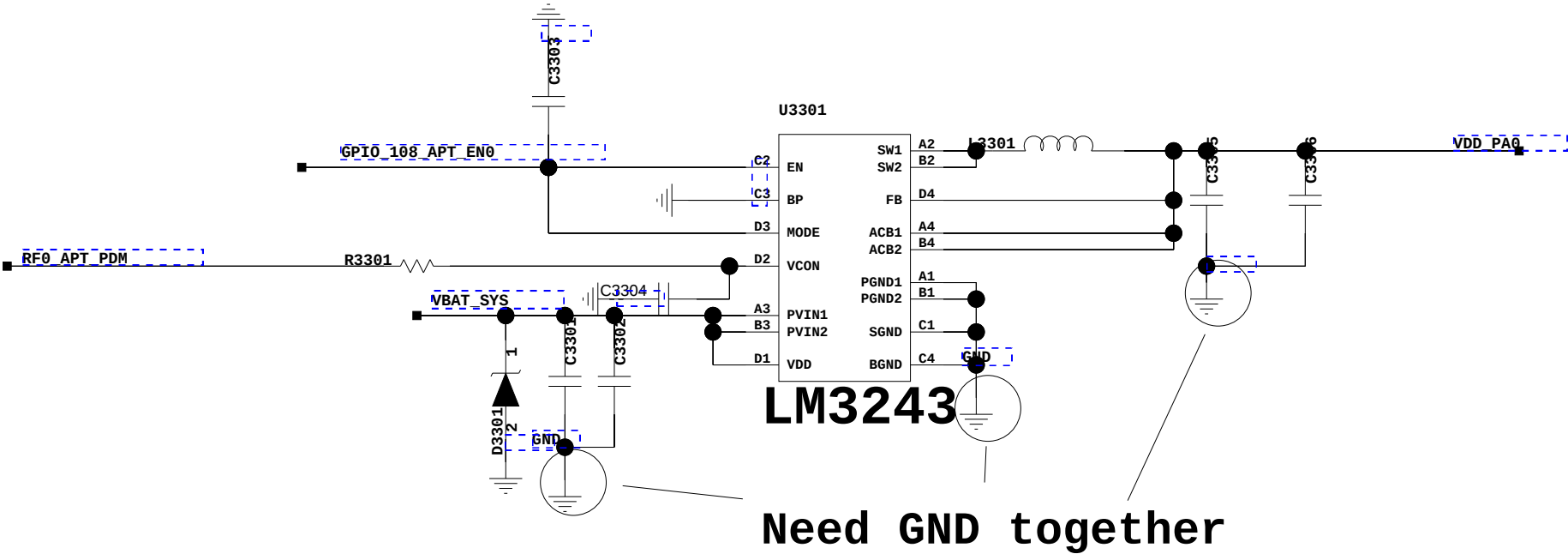
MIPI Interface



For WLAN 2G Dual ANT

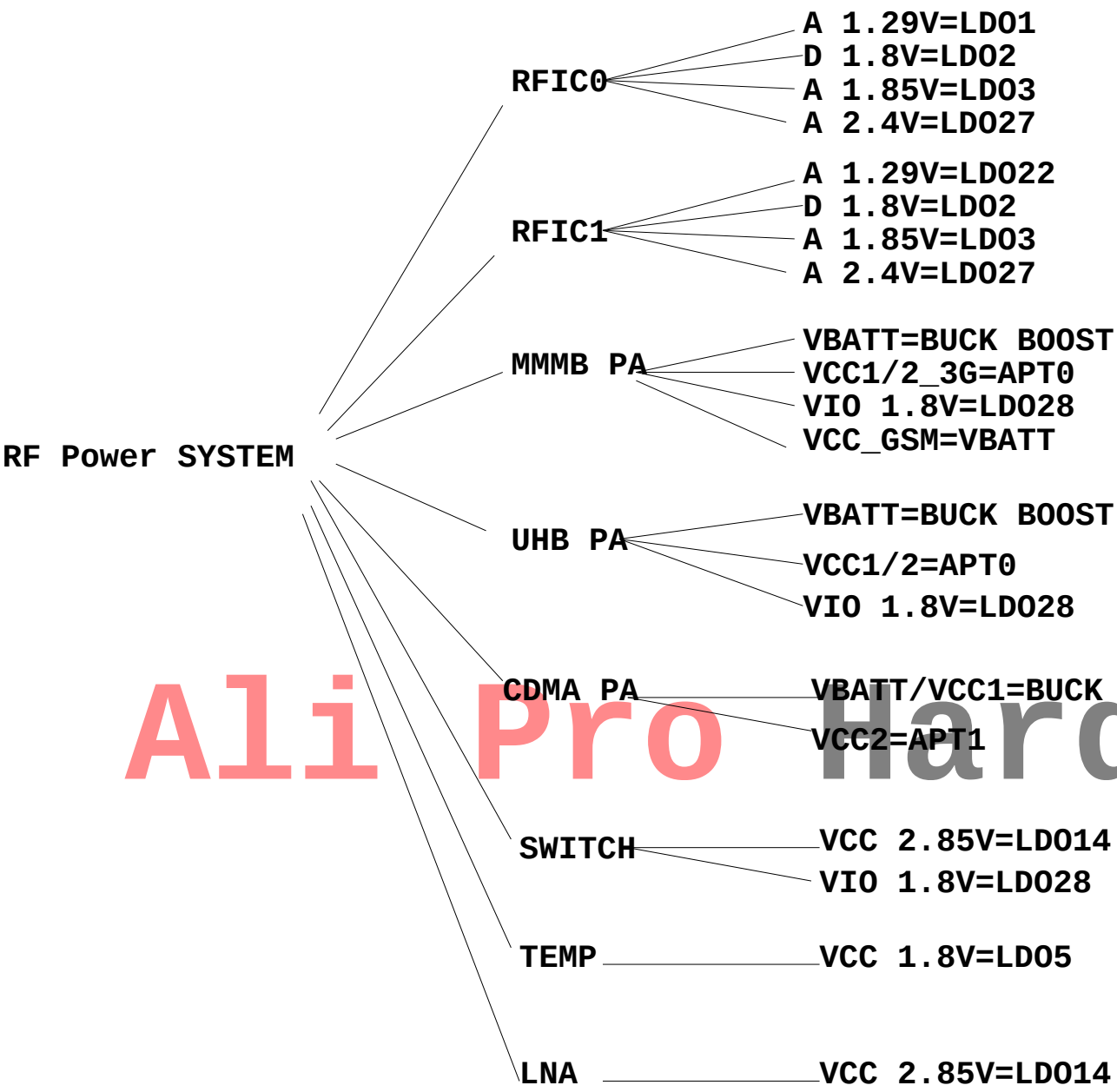
D

33_APT Power

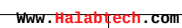


Ali Pro Hardware

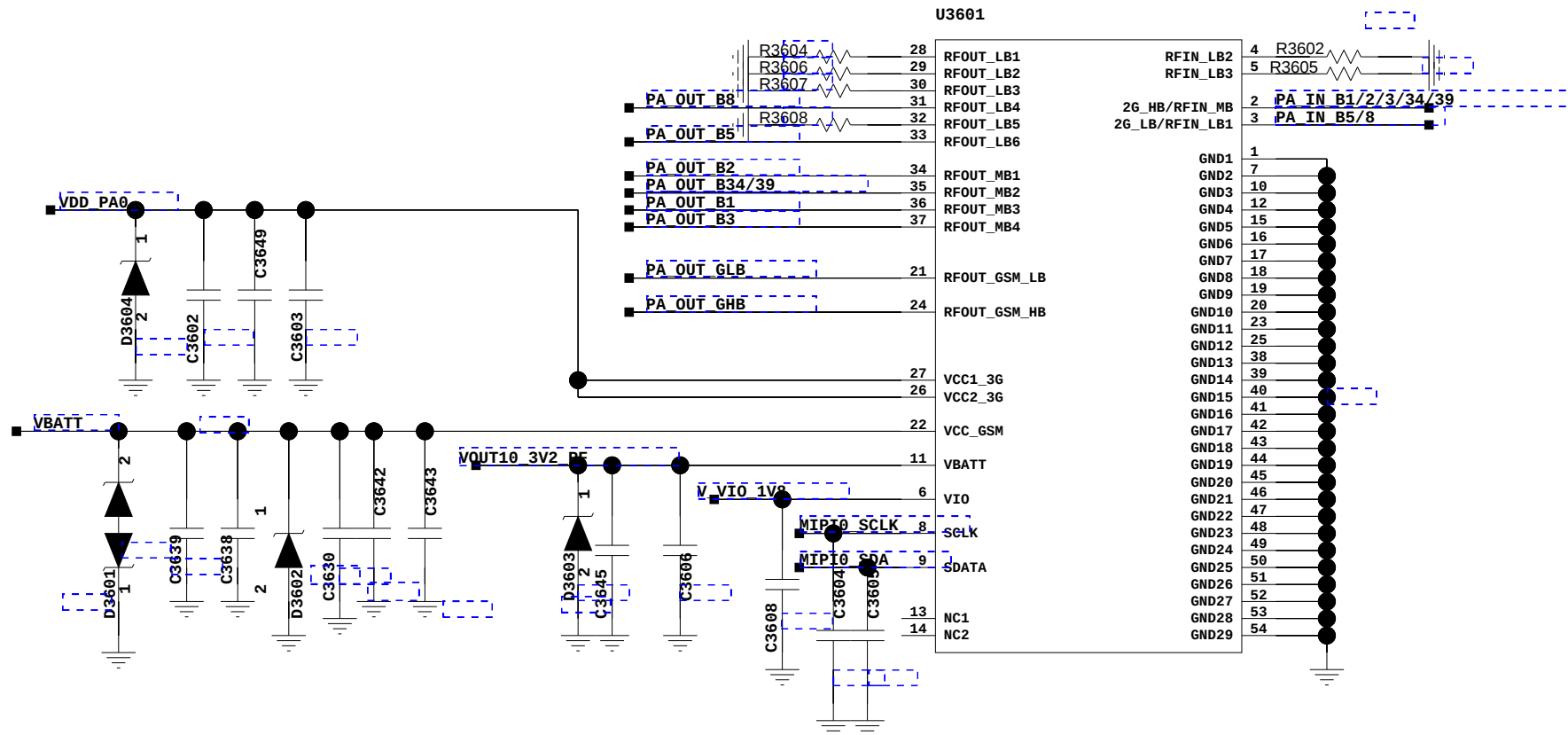
34_RF Power System



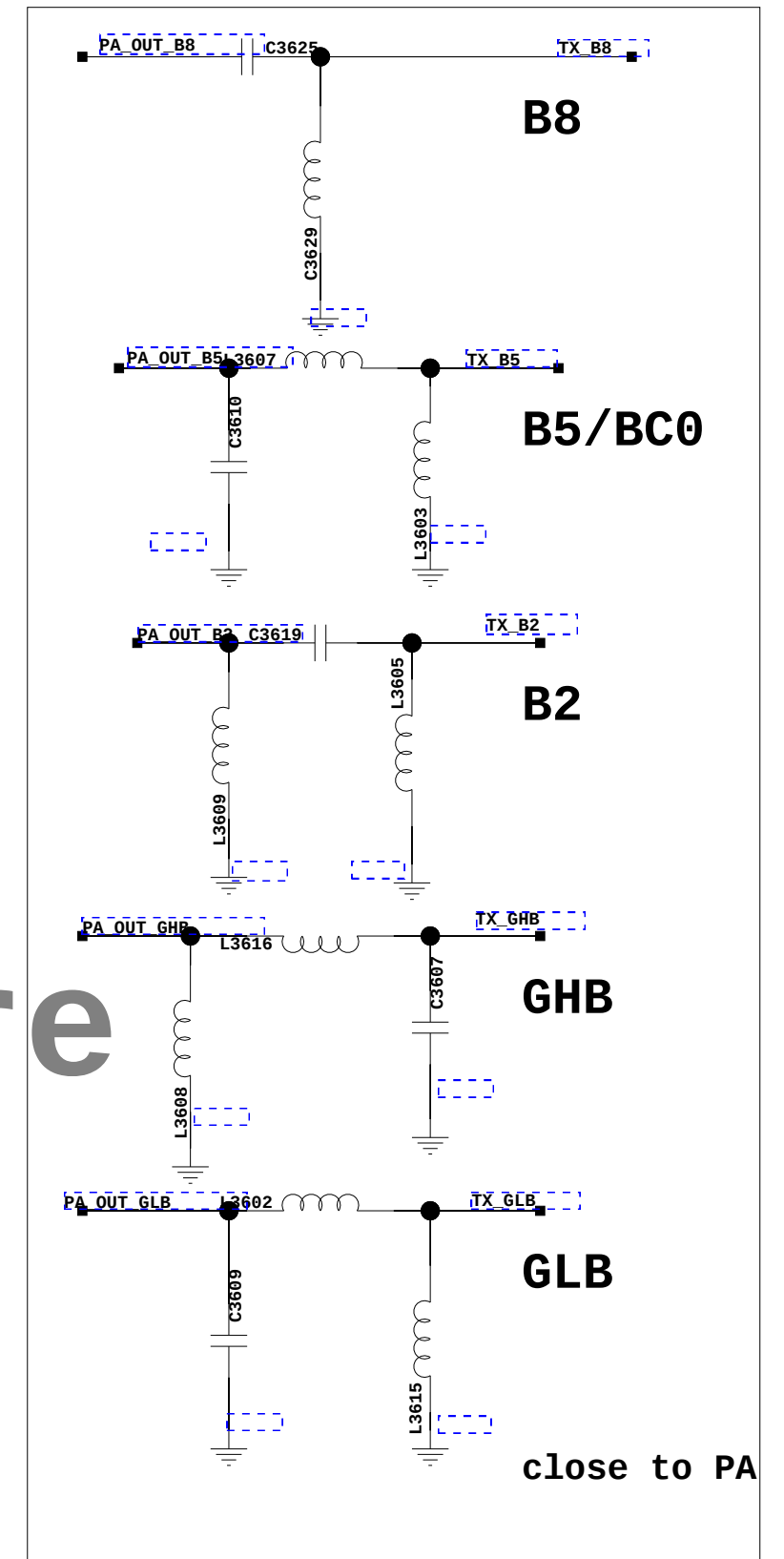
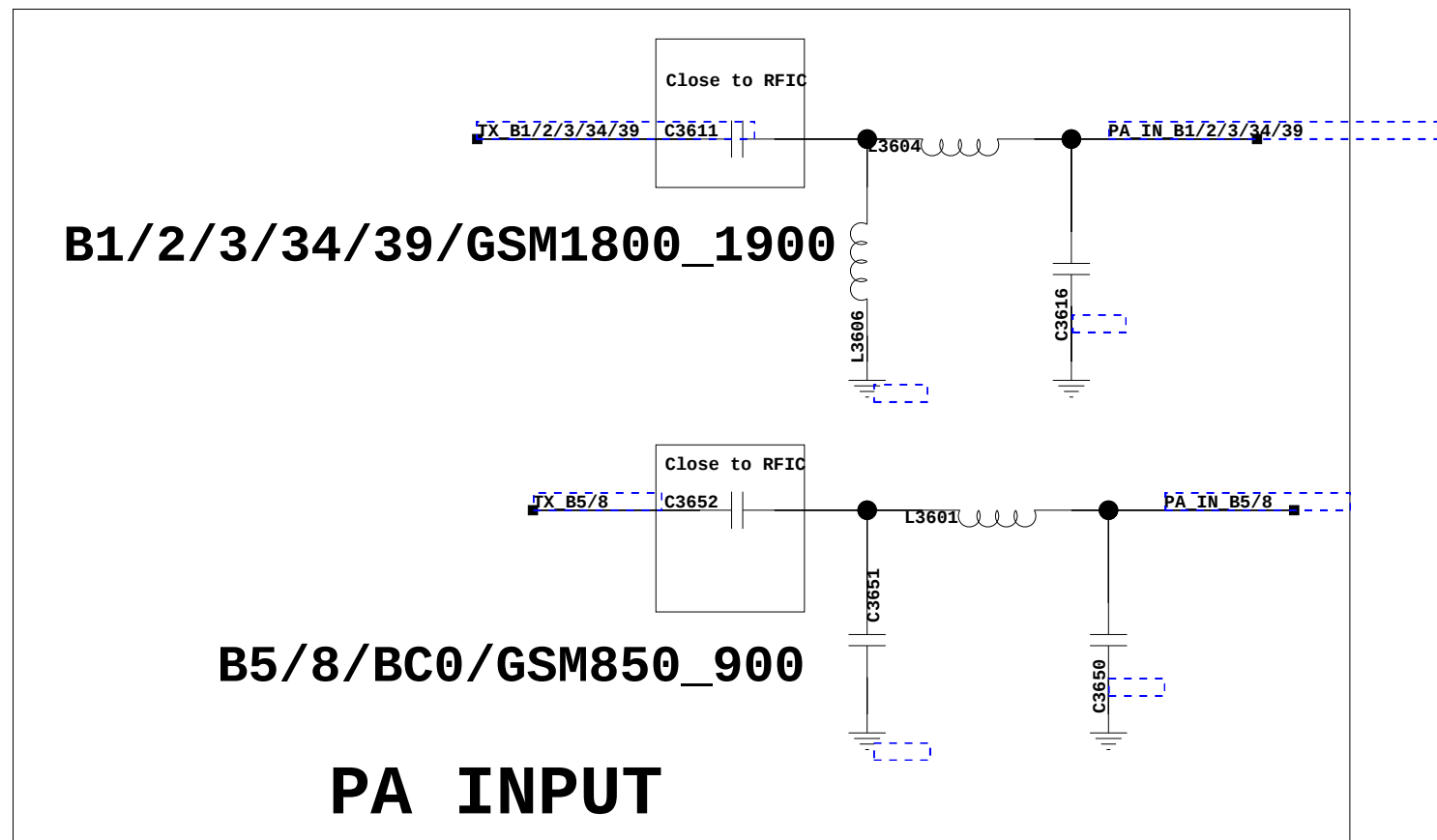
Ali Pro Hardware

- Pro Hardware


36. MMMB PA

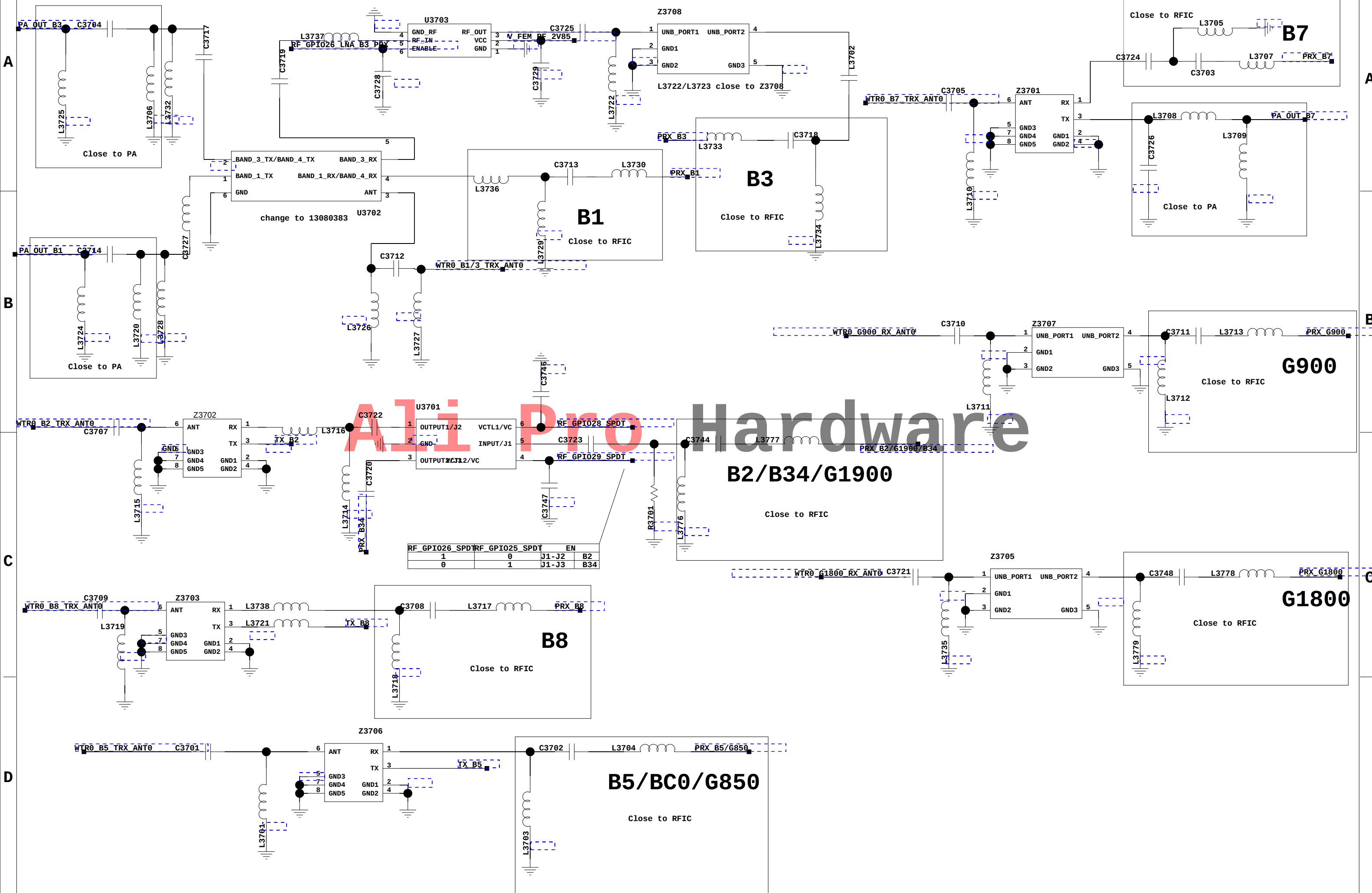


Ali Pro Hardware

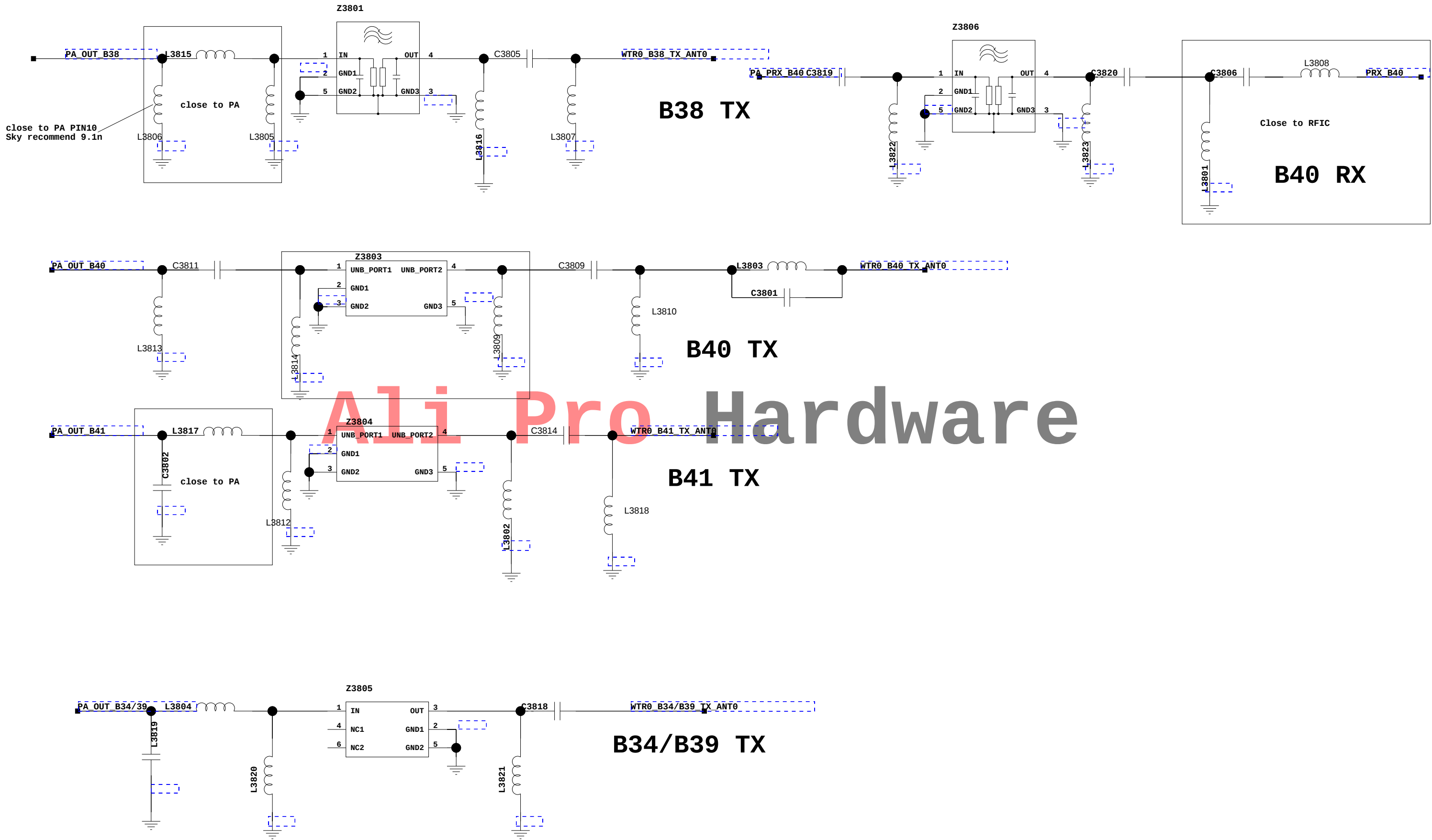


VOUT5 1V8

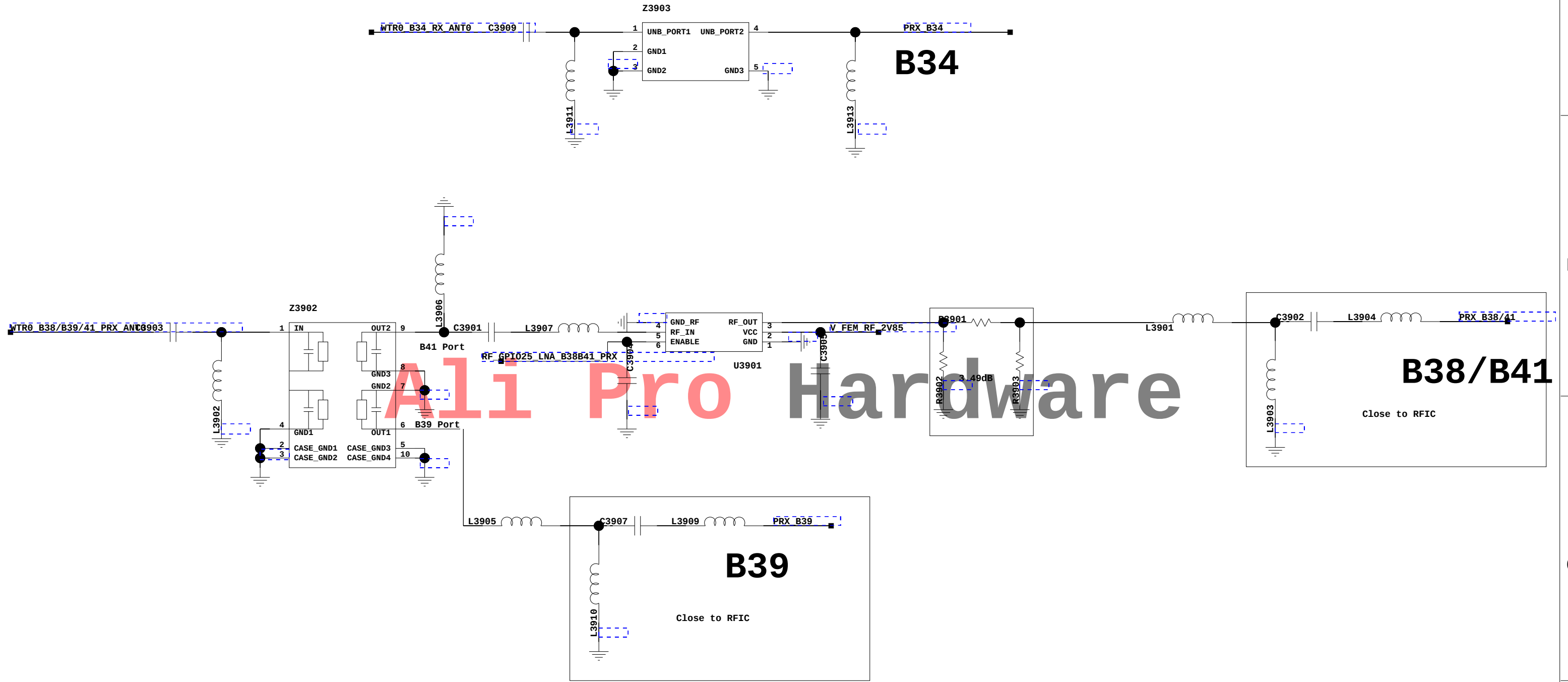
37. TRX B1/2/3/5/7/8



38.TRX B34/38/39/40/41

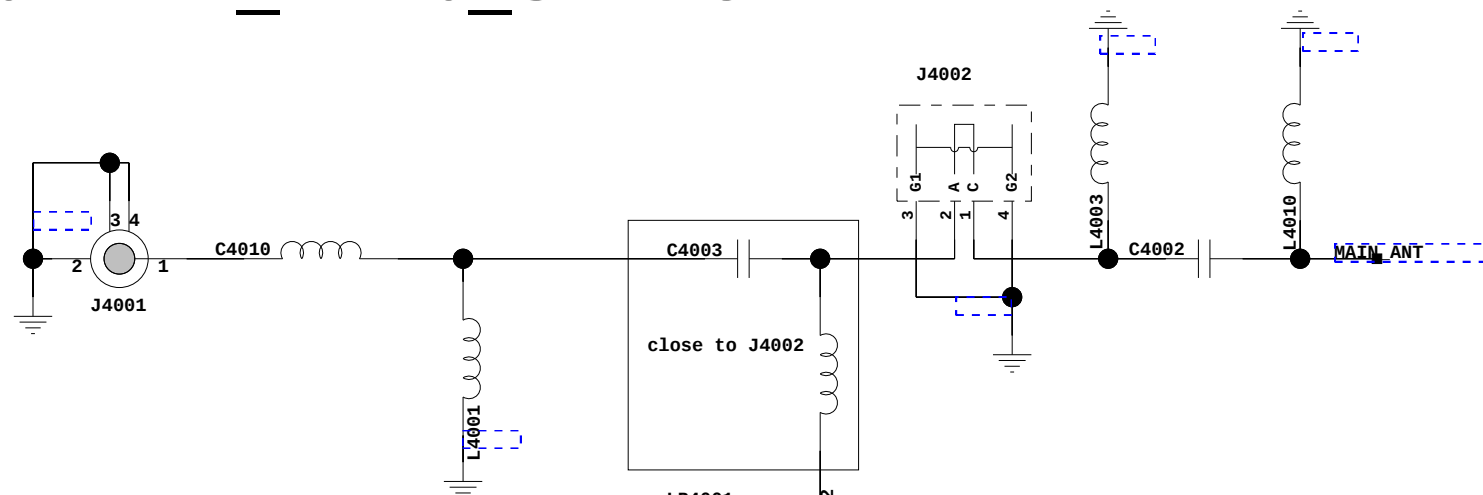


39_PRX B34/39/41/38



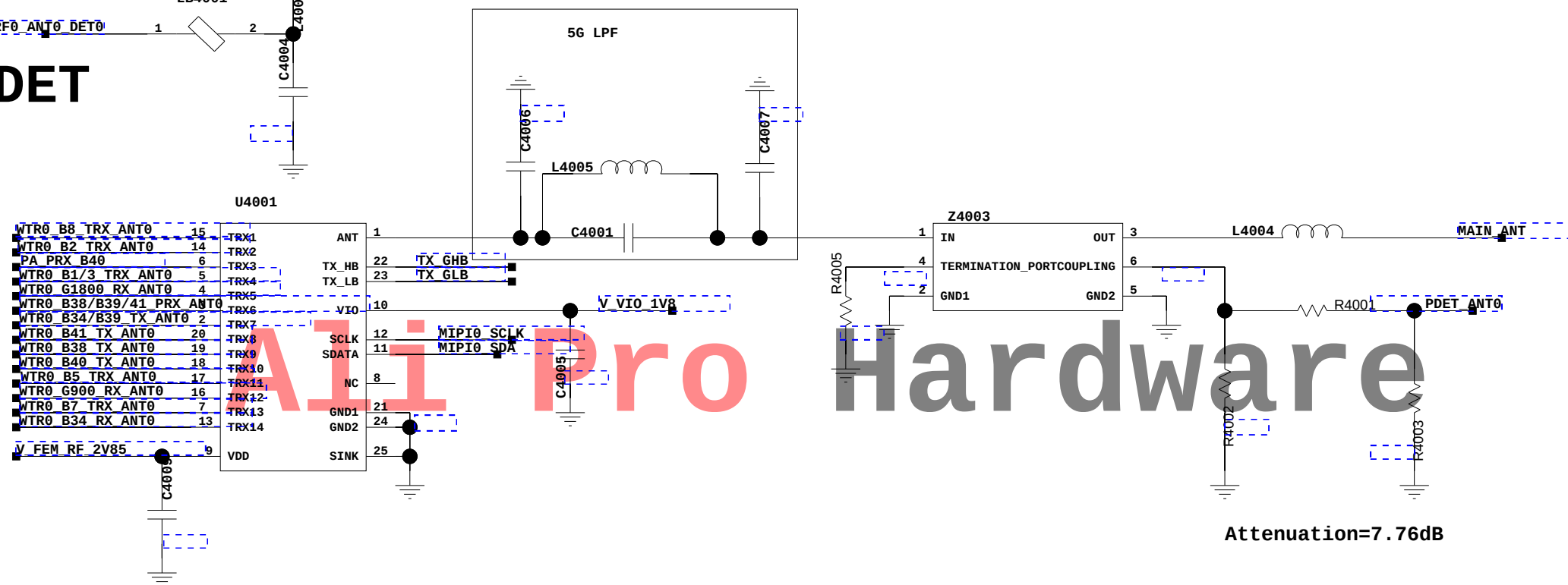
40.MAIN_ANT0_SWITCH

A



Main_ANT_DET

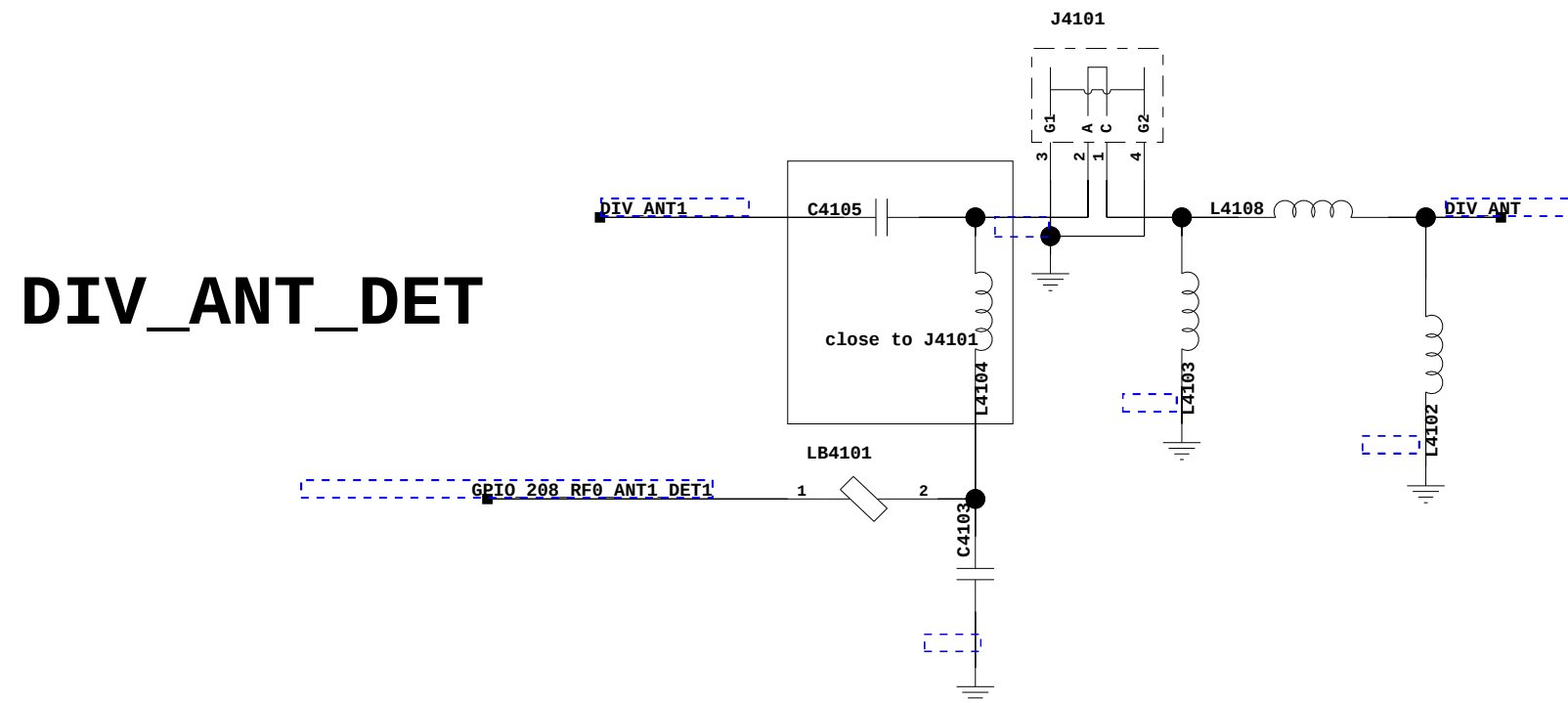
SP16T



DIV diplexer

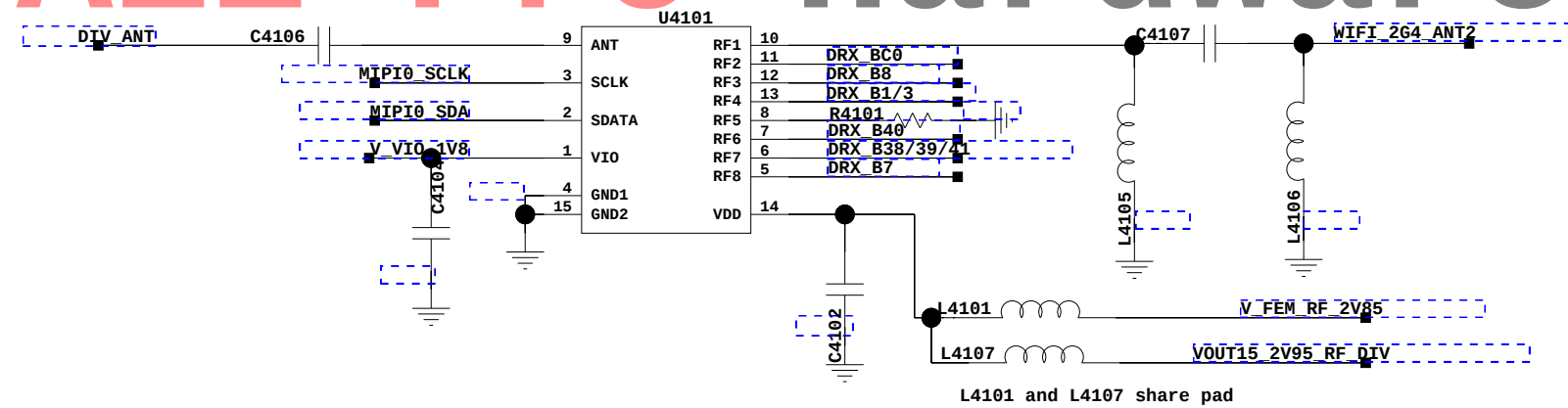
41.DIV_ANT1_SWITCH

A

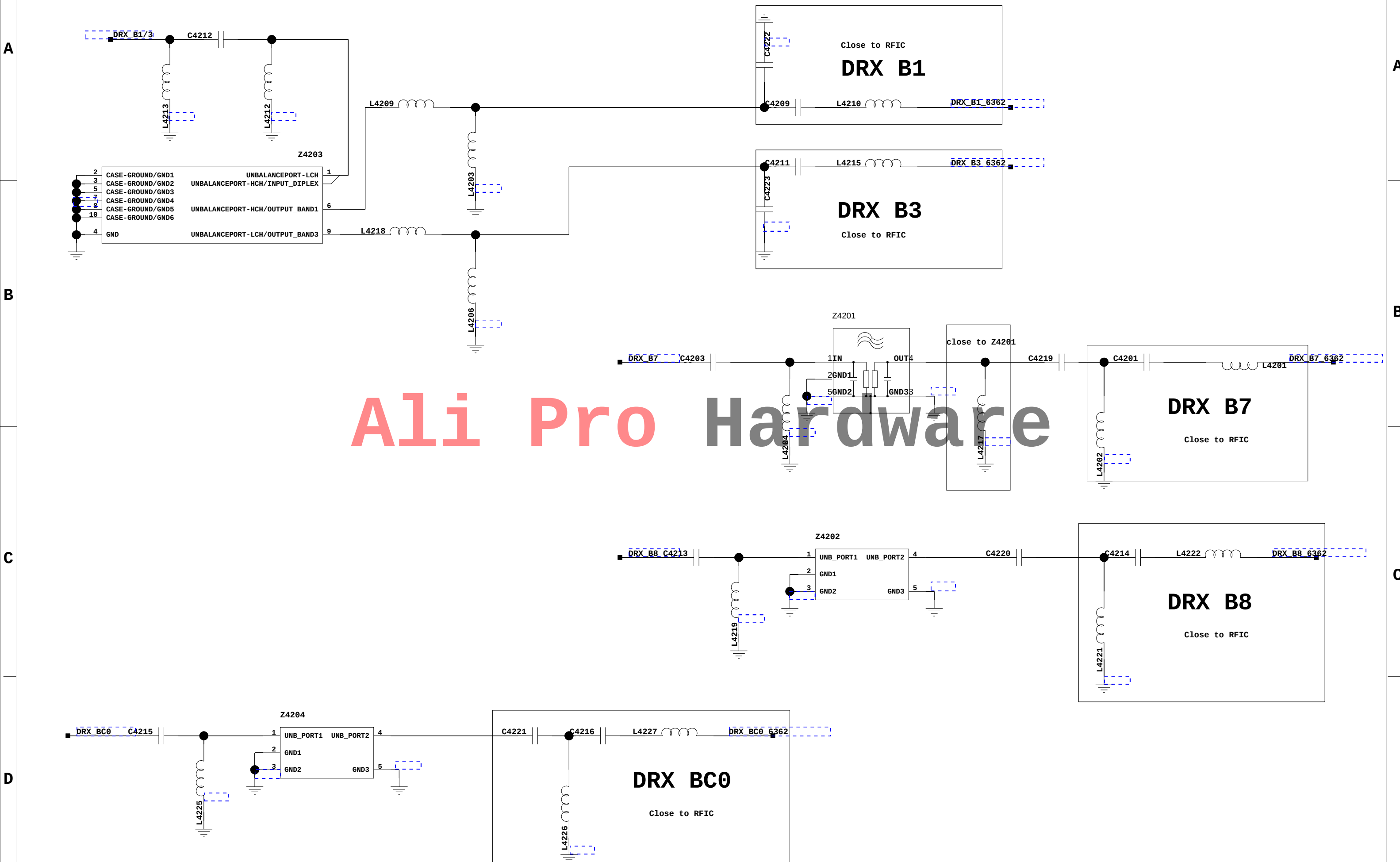


SP8T

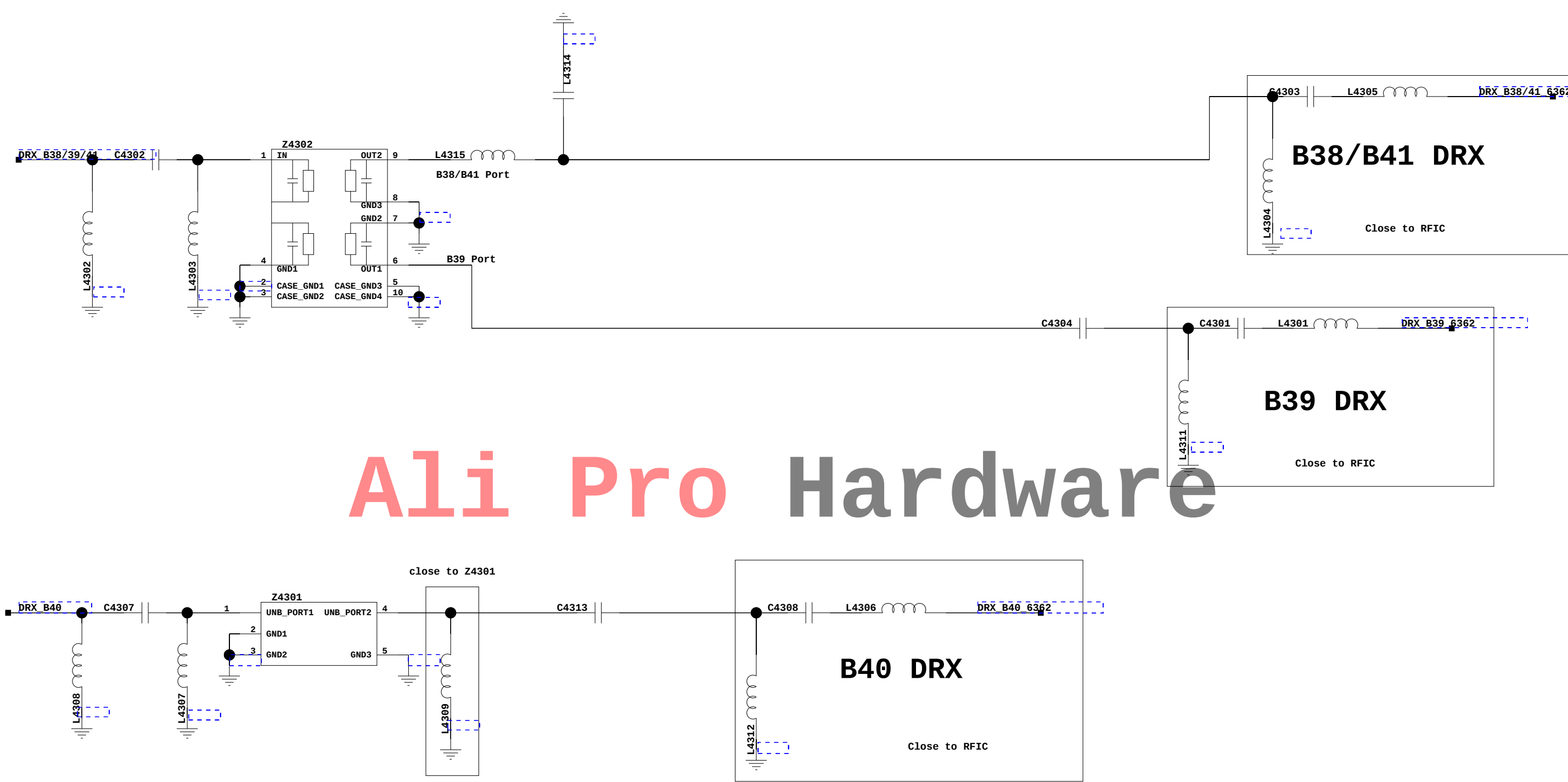
Ali Pro Hardware



42.DRX B1/3/7/8/BC0



43.DRX B38/39/40/41



Ali Pro Hardware

1	2	3	4	5	6
44 Reserved					
A					A
B					B
C					C
D					
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1	2	3	4	5	6
45.Reserved					
A					A
B					B
C					C
D					
Ali Pro Hardware	1	2	3	5	6 Ali Pro +967777617819

Ali Pro Hardware

1	2	3	4	5	6
46.Reserved					
A					A
B					B
C					C
D					
Ali Pro Hardware	1	2	3	5	6 Ali Pro +967777617819

Ali Pro Hardware

Ali Pro Hardware

48. TRX BC0

Ali Pro Hardware

49 Reserved

A

B

C

D

A

B

C

Ali Pro Hardware

50 NC RF Interface



51 HI1102 RF

2G_RF

Share Pad

Share Pad

Z5102

J5101

WIFI GPS ANT

Ali Pro Hardware

U5101

Z5101

C5116

TCXO 38.4MHz

TCX05101

G

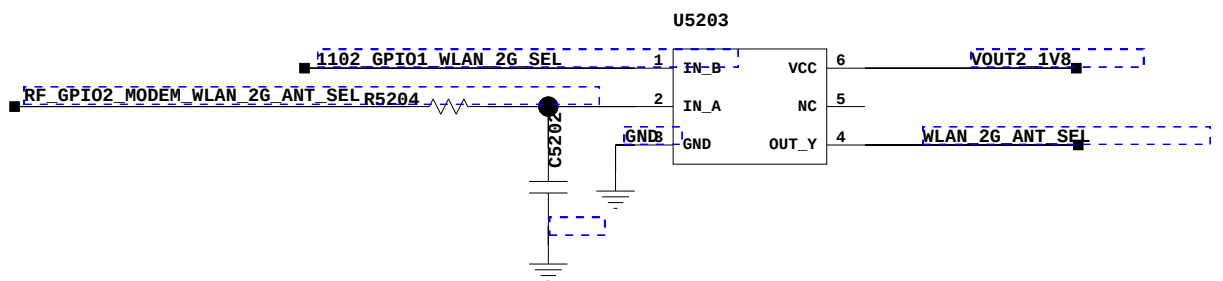
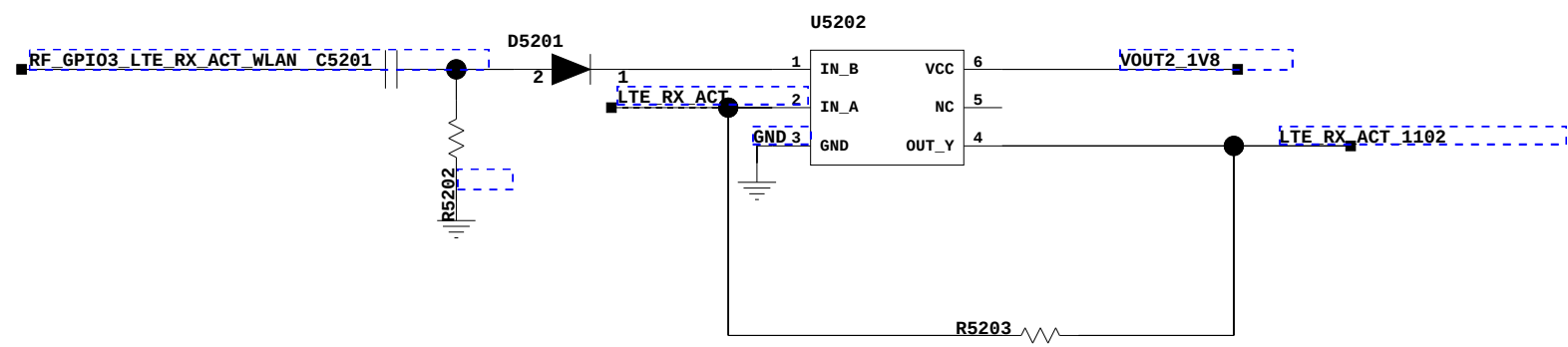
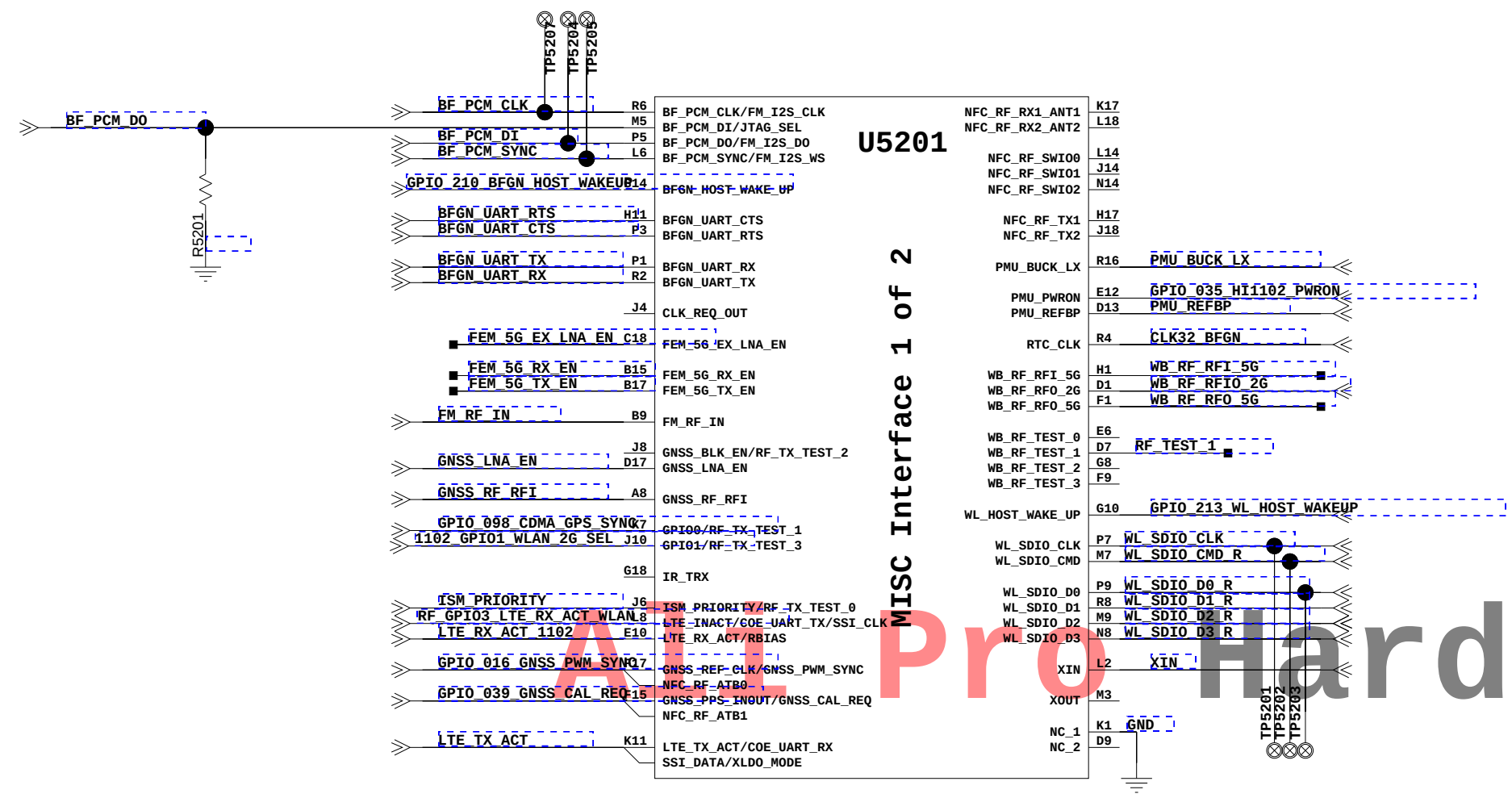
Z5110

GNSS RF RFI C

GNSS RF RFI

L5101

52 Hi1102_BB

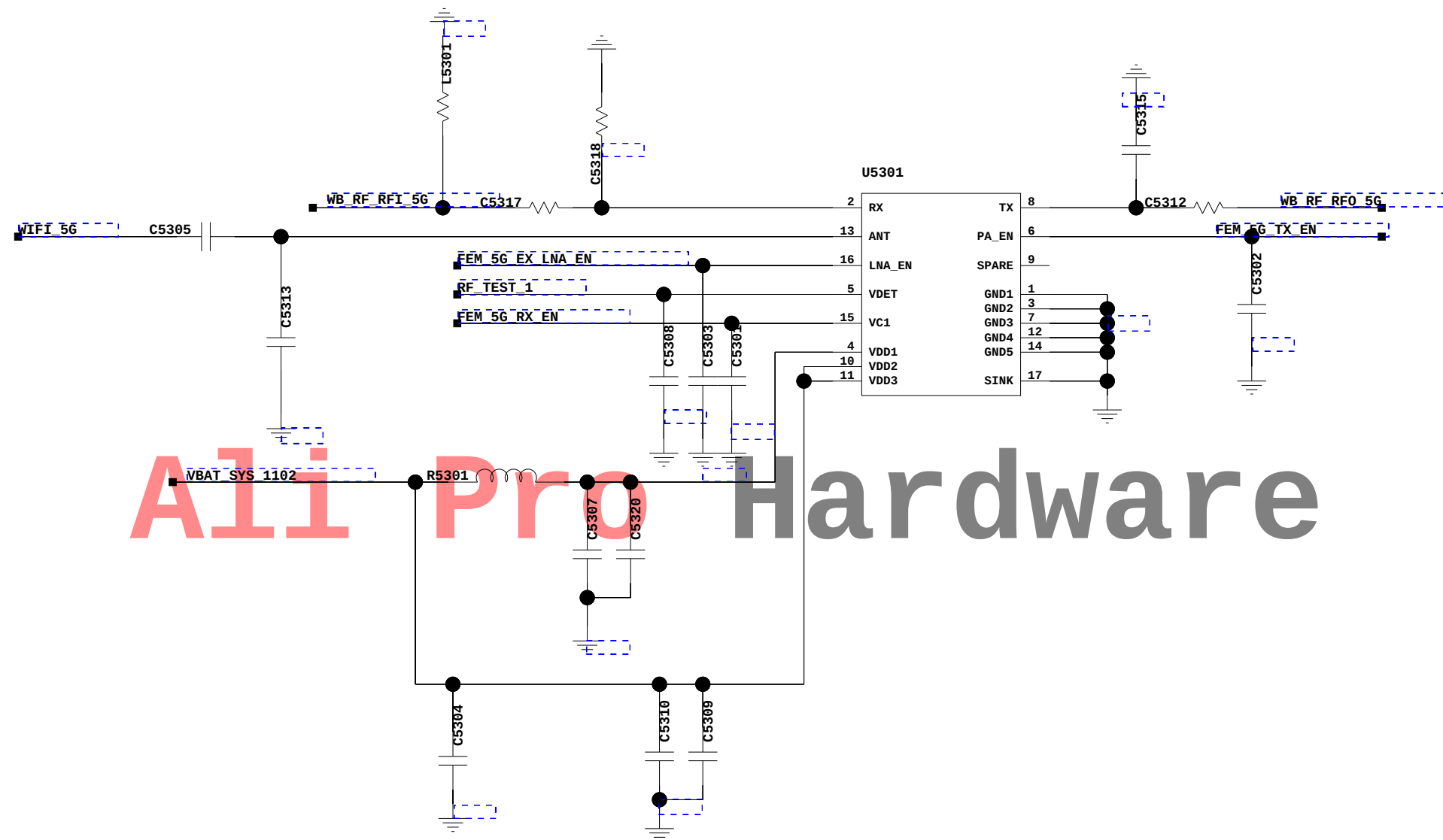


U5201

MISC Interface 1 of 2

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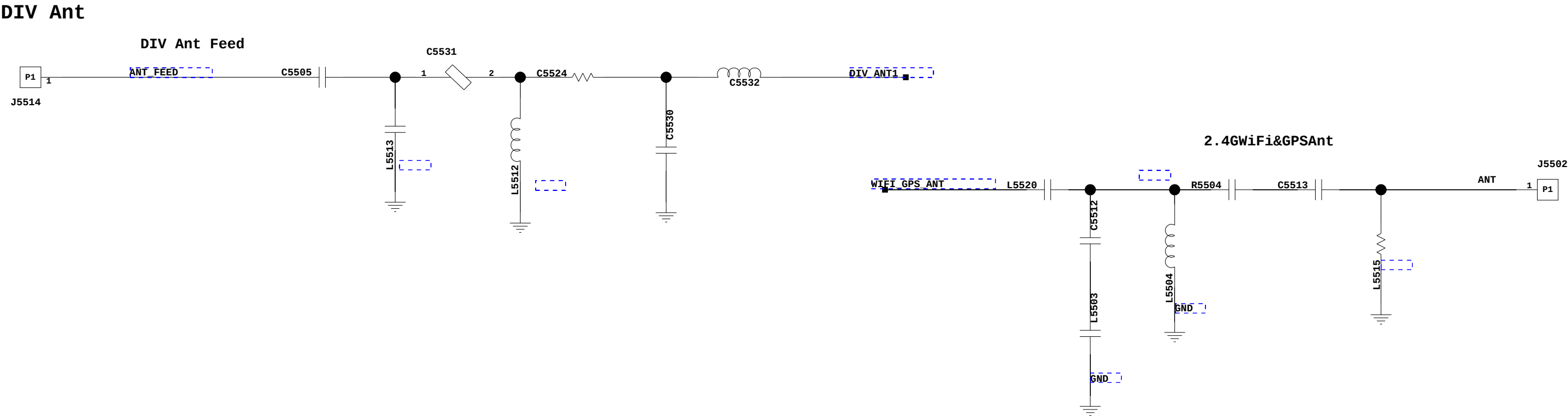
53 Hi1102_RF_FrontEnd_5GHz



1	2	3	4	5	6
54.Reserved					
A					A
B					B
C					C
D					
Ali Pro Hardware	1	2	3	4	5
					6 Ali Pro +967777617819

Ali Pro Hardware

55.Antenna_Match



Ali Pro Hardware

C5556

Div-midgnd

