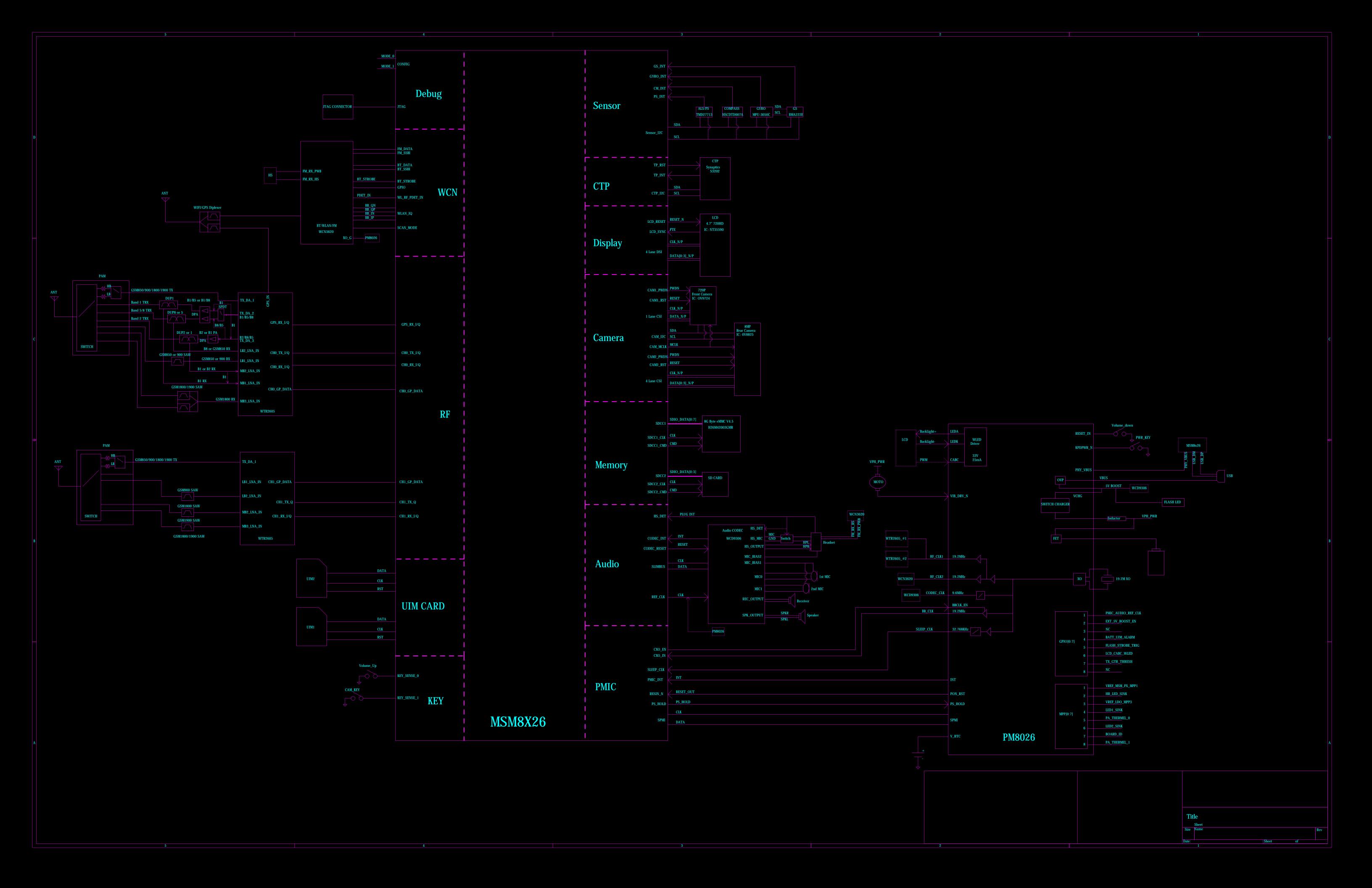
Sheet #	Content	Sheet #	Content
1	Contents Table	21	WTR2605_Power_Secondary path
2	Reversion history	22	WTR2605_Secondary path
3	Block Diagram	23	WIFI/BT
4	GPIO Map	24	GPS/APT/XO distribution
5	MSM8x26_Control_1	25	Audio
6	MSM8x26_Control_2	26	Sensors
7	MSM8x26_GPIO	27	Memory
8	MSM8x26_Power_1	28	MultiMedia
9	MSM8x26_Power_2	29	Interface
10	MSM8x26_GND	30	Change List
11	PM8226_PWR		
12	PM8226_Control_1		
12	PM8226_Control_2		
14	PRX Matching_Primary path		
15	WTR2605_Power_Primary path		
16	WTR2605_Primary path		
17	WTR2605_TXM_Primary path		
18	UMTS B1&B8_Primary path		
19	UMTS B2_Primary path		
20	WTR2605_GSM_Secondary path		

Revision History

SCHEMATIC MCN	HW VERSION	VERSION	DESCRIPTION OF CHANGE
		A	EVT2.0 Initial release
		В	Please refer to Item 1 in "Change List " page
LD20-NC003	EVT2.0	С	Please refer to Item 2 to Item 4 in "Change List " page
		D	Please refer to Item 5 in "Change List " page
		E	Please refer to Item 6 to Item 8 in "Change List " page



	MSM8x26 GPIO Configuration For QRD8x26						
GPIO_0	NC	GPIO_41	WCSS_WLAN_DATA1	GPIO_82	CHO_PA_RANGE1		
GPIO_1	NC	GPIO_42	WCSS_WLAN_DATA0	GPIO_83	CHO_TXM_CTL1_SW1		
GPIO_2	NC	GPIO_43	WCSS_WLAN_SET	GPIO_84	CH0_TXM_CTL2_SW0		
GPIO_3	NC	GPIO_44	WCSS_WLAN_CLK	GPIO_85	CHO_GSM_PA_ON_HB		
GPIO_4	NC	GPIO_45	WCSS_FM_SSBI	GPIO_86	CHO_GSM_PA_ON_LB		
GPIO_5	NC	GPIO_46	WCSS_FM_SDI	GPIO_87	TX_GTR_THRESH		
GPIO_6	I2C2_SDA_SENS	GPIO_47	WCSS_BT_CTL	GPIO_88	NC		
GPIO_7	I2C2_SCL_SENS	GPIO_48	WCSS_BT_DAT_STB	GPIO_89	NC		
GPIO_8	UART3_TX	GPIO_49	NC	GPIO_90	NC		
GPIO_9	UART3_RX	GPIO_50	NC	GPIO_91	NC		
GPIO_10	I2C6_SDA_NFC	GPIO_51	NC	GPIO_92	NC		
GPIO_11	I2C6_SCL_NFC	GPIO_52	NC	GPIO_93	NC		
GPIO_12	NC	GPIO_53	UIM2_DATA	GPIO_94	NC		
GPIO_13	MSM_HS_DET	GPIO_54	UIM2_CLK	GPIO_95	CH0_GSM_TX_PHASE_D0		
GPIO_14	NC	GPIO_55	UIM2_RST	GPIO_96	CHO_GSM_TX_PHASE_D1		
GPIO_15	CAM_1V8_EN	GPIO_56	NC	GPIO_97	NC		
GPIO_16	CTP_RST_N	GPIO_57	UIM1_DATA	GPIO_98	NC		
GPIO_17	CTP_INT	GPIO_58	UIM1_CLK	GPIO_99	NC		
GPIO_18	I2C5_SDA_CTP	GPIO_59	UIM1_RST	GPIO_100	NC		
GPIO_19	I2C5_SCL_CTP	GPIO_60	LCD_ID	GPIO_101	CH0_SSBI_PRX		
GPIO_20	NFC_DISABLE_N	GPIO_61	BATT_UIM_ALARM	GPIO_102	CH0_SSBI_TX_GPS		
GPIO_21	NFC_INT_N	GPIO_62	NC	GPIO_103	NC		
GPIO_22	SPI_CS_EHT	GPIO_63	ACCL_INT1_N	GPIO_104	NC		
GPIO_23	NC	GPIO_64	NC	GPIO_105	GPS_ELNA_EN		
GPIO_24	DSI_LCD_TE	GPIO_65	ALSP_INT_N	GPIO_106	VOLUME+		
GPIO_25	DSI_LCD_RST	GPIO_66	MAG_INT_N	GPIO_107	VOLUME-		
GPIO_26	CAM_MCLK0	GPIO_67	MSM_CODEC_REF_CLK	GPIO_108	NC		
GPIO_27	NC	GPIO_68	CEDEC_INT1_N	GPIO_109	NC		
GPIO_28	CAM2_RST_N	GPIO_69	NC	GPIO_110	NC		
GPIO_29	I2CO_SDA_CAM	GPIO_70	CODEC_SLIMBUS_CLK	GPIO_111	NC		
GPIO_30	I2CO_SCL_CAM	GPIO_71	CODEC_SLIMBUS_DATA	GPIO_112	NC		
GPIO_31	NC	GPIO_72	CODEC_RST_N	GPIO_113	FORCE_USB_BOOT		
GPIO_32	FLASH_STROBE_TRIG	GPIO_73	FORT_CAM_ID	GPIO_114	NC		
GPIO_33	NC	GPIO_74	BACK_CAM_ID	GPIO_115	NC		
GPIO_34	NC	GPIO_75	CHO_PA_ON4_B1	GPIO_116	NC		
GPIO_35	CAM2_STANDBY	GPIO_76	NC	GPIO_117	NC		
GPIO_36	CAM1_STANDBY	GPIO_77	WTR0_GSM_TDS_SEL	GPIO_118	NC		
GPIO_37	CAM1_RST_N	GPIO_78	CHO_PA_ON1_B8	GPIO_119	NC		
GPIO_38	NC	GPIO_79	CH0_TXM_CTL0_SPDT	GPIO_120	NC		
GPIO_39	WCSS_BT_SSBI	GPIO_80	CHO_WTR_RF_ON				
GPIO_40	WCSS_WLAN_DATA2	GPIO_81	CHO_PA_RANGEO (BOOT_CONFIG_0)				

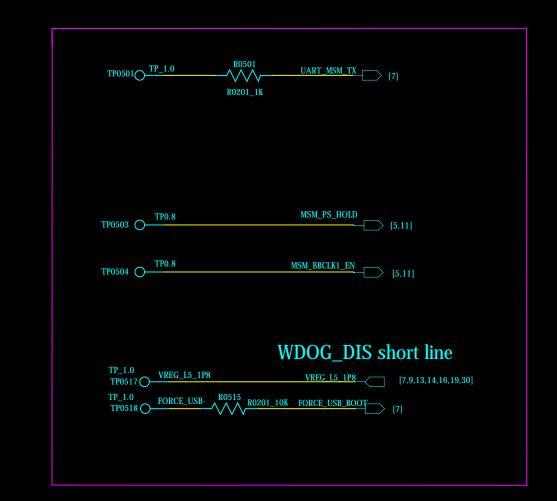
PM80	PM8026 GPIO/MPP Configuration For QRD8x26					
GPIO_1	AUDIO_REF_CLK (DIVCLK1)	MPP_1	VREF_PX			
GPIO_2	EXT_5VBOOST_EN	MPP_2	HR_LED_SNK			
GPIO_3	BBCLK2_EN	MPP_3	VREF_LDO			
GPIO_4	BATT_UICC_ALARM	MPP_4	LED1_SINK			
GPIO_5	FLASHNOW	MPP_5	PA2_THERM			
GPIO_6	CABC_WLED	MPP_6	LED2_SINK			
GPIO_7	TX_GTR_THRESH	MPP_7	HWID			
GPIO_8	SYS_BOOST_FORCE_BYP	MPP_8	PA1_THERM			

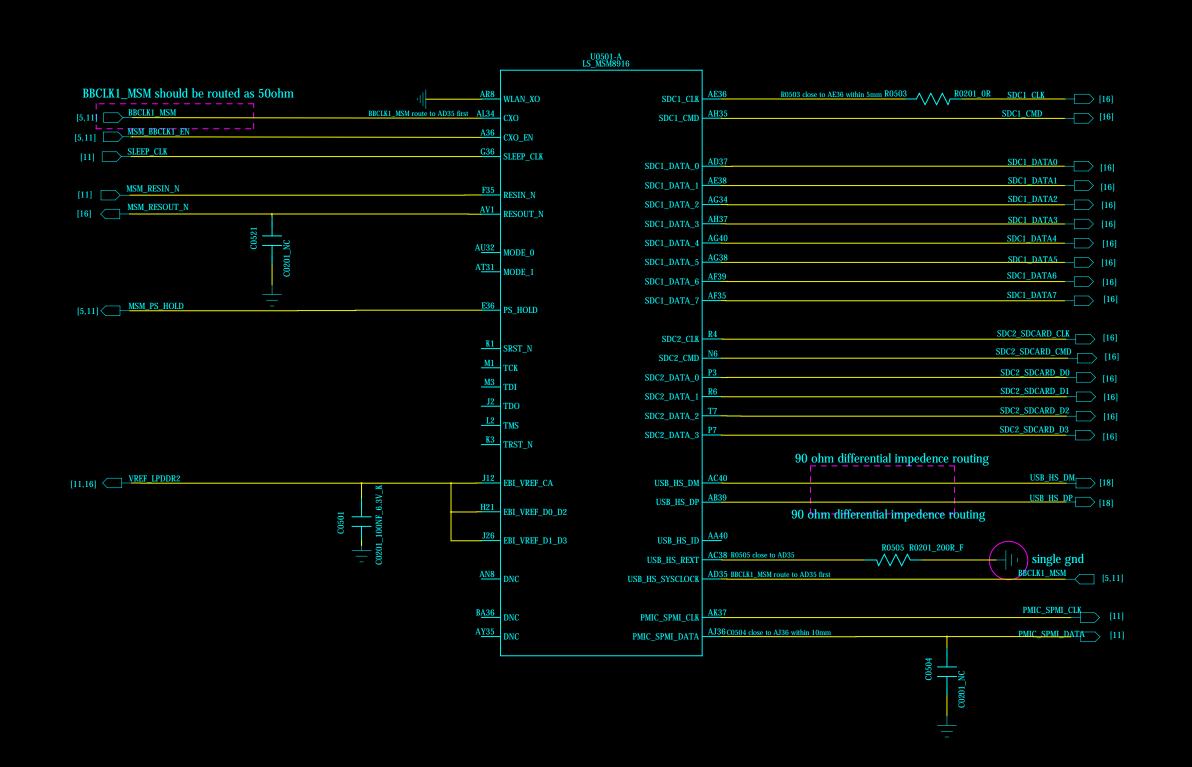
I2C Address List For QRD8x26								
I2C GPIO	Device	MPN	Write Address	Read Address				
	Accelerometer	BMA222E	0x31	0x30				
CDIOIC 71	Magnetometer	HSCDTD007A	0x19	0x18				
GPIO[6:7]	Gyroscope	MPU-3050C	0xD1	0xD0				
	ALS/Proximity	TMD27713T	0x73	0x72				
GPIO[18:19]	Touch Screen	S3202	0x41	0x40				
CDIO[00 00]	Front Camera	OV9724	0x41	0x40				
GPIO[29:30]	Rear Camera	OV8825	0x6D	0x6C				

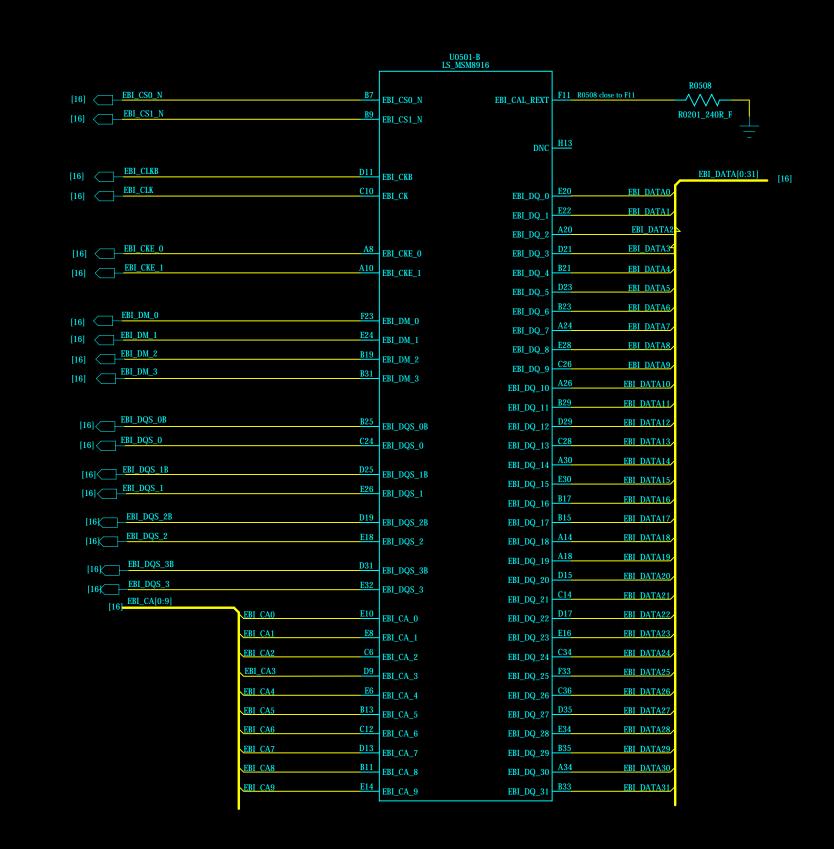
	Interrupt List For QRD8x26							
GPIO	Name	Description	State					
GPIO_11	MSM_HS_DET	Headset Plug In Detection	Active Low					
GPIO_17	CTP_INT	Interrupt From CTP Sensor	Defualt Low /Open Drain					
GPIO_38	SD_CARD_DET_N	SD Card Insert Detection	Insert Low/Remove High					
GPIO_49	ACCL_INT2_N	Interrupt2 From Accelerometer	Default High/Push-Pull					
GPIO_63	ACCL_INT1_N	Interrupt1 From Accelerometer	Default High/Push-Pull					
GPIO_64	GYRO_INT_N	Interrupt From Gyroscope	Default High/Push-Pull					
GPIO_65	ALSP_INT_N	Interrupt From ALS/Proximity	Active Low /Open Drain					
GPIO_66	MAG_INT_N	Interrupt From Magnetometer	Active High /Push-pull					
GPIO_68	CODEC_INT1_N	Interrupt From CODEC	PA1_THERM					
GPIO_115	ETH_INT_N	Interrupt From Ethernet Driver	Active Low /Push-pull					

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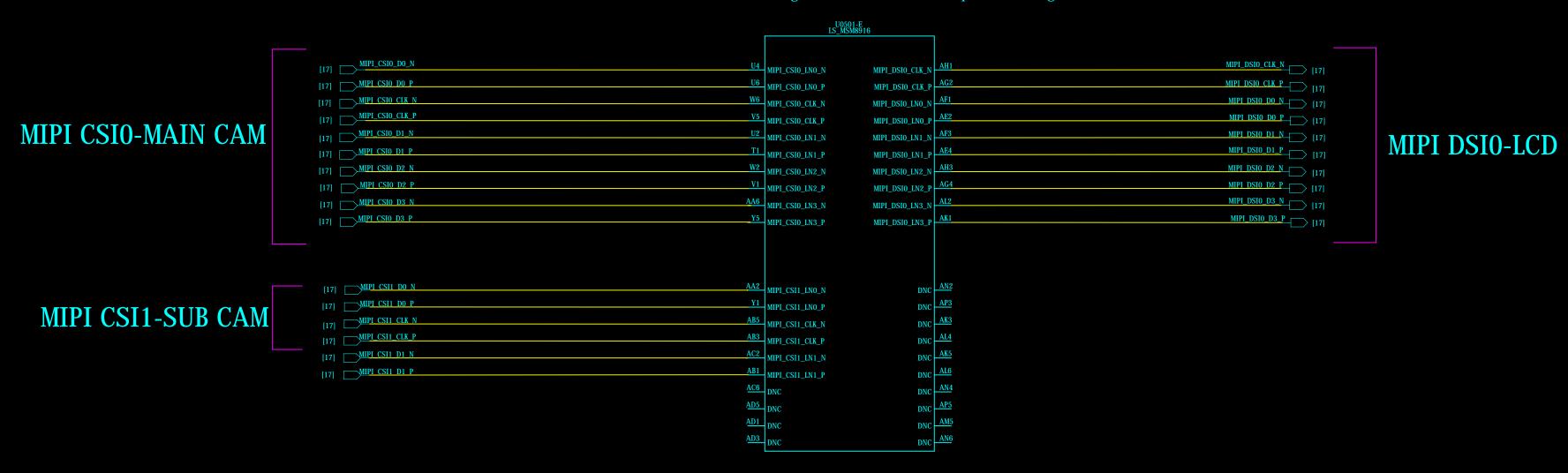
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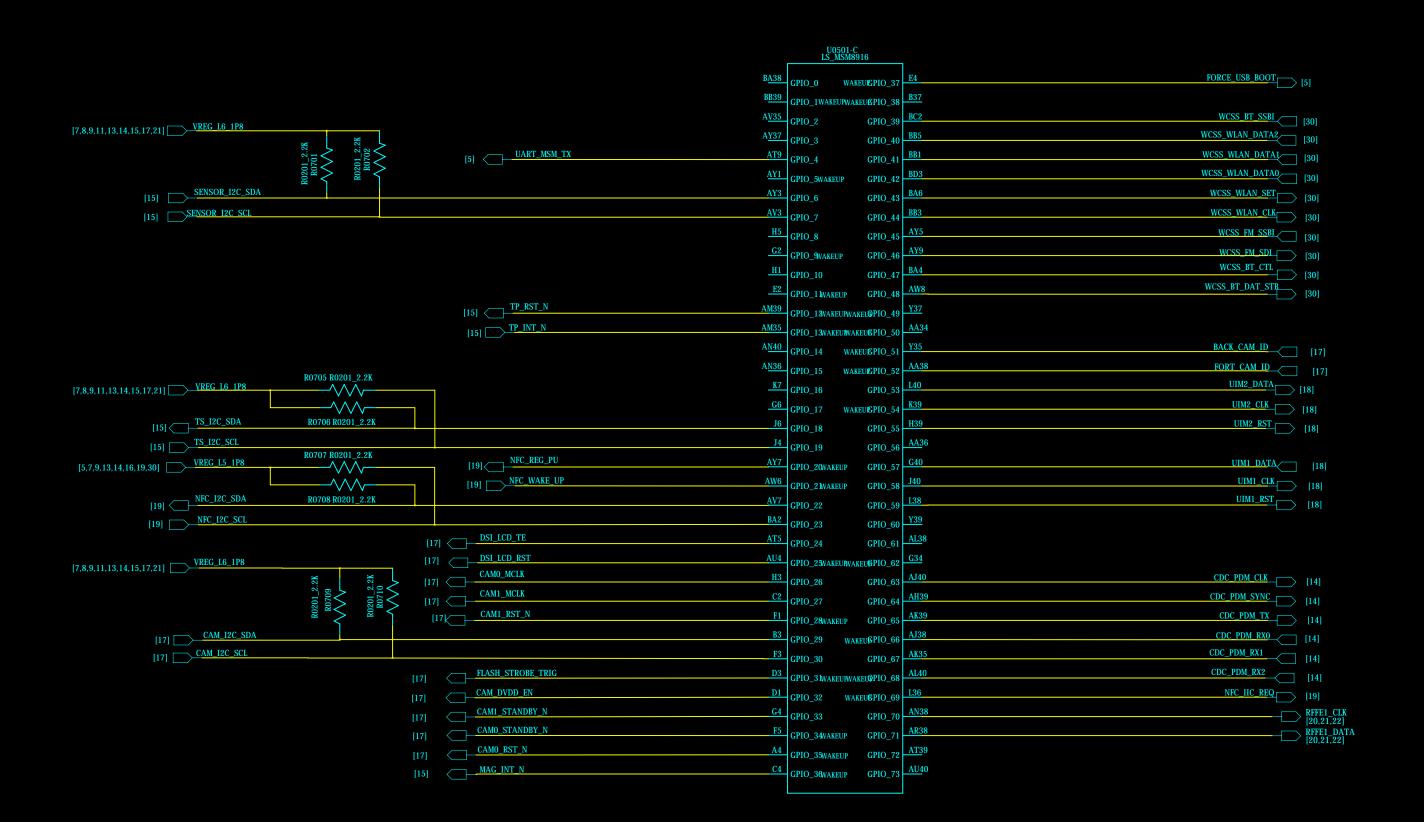




MIPI DSI signal: 100 ohm differential impedence routing



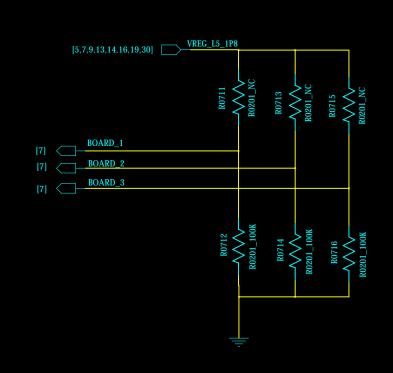
MIPI CSI signal: 100 ohm differential impedence routing U0501-F LS_MSM8916 WTR0 Primary RX [27] WTRO PRXBB Q M [27] WTRO PRXBB Q P WTRO TXBB I P [27] WTRO_TXBB_Q_M [27] WTR0 Diversity RX WTRO TXBB Q P [27] [27] WTRO_DRXBB_Q_P WTRO_DAC_IREF [27] VREF_DAC_MPP_3 TX_DAC0_VREF AR26 B<u>C16</u> BBRX_IM_CH2 B<u>B15</u> BBRX_IP_CH2 WTR1 Primary RX WTRO_GPSBB_I_P [27] WTRO_GPSBB_I_M [27] WTRO_GPSBB_Q_P AR12 WLAN_BB_QP GNSS_BB_QM BB13

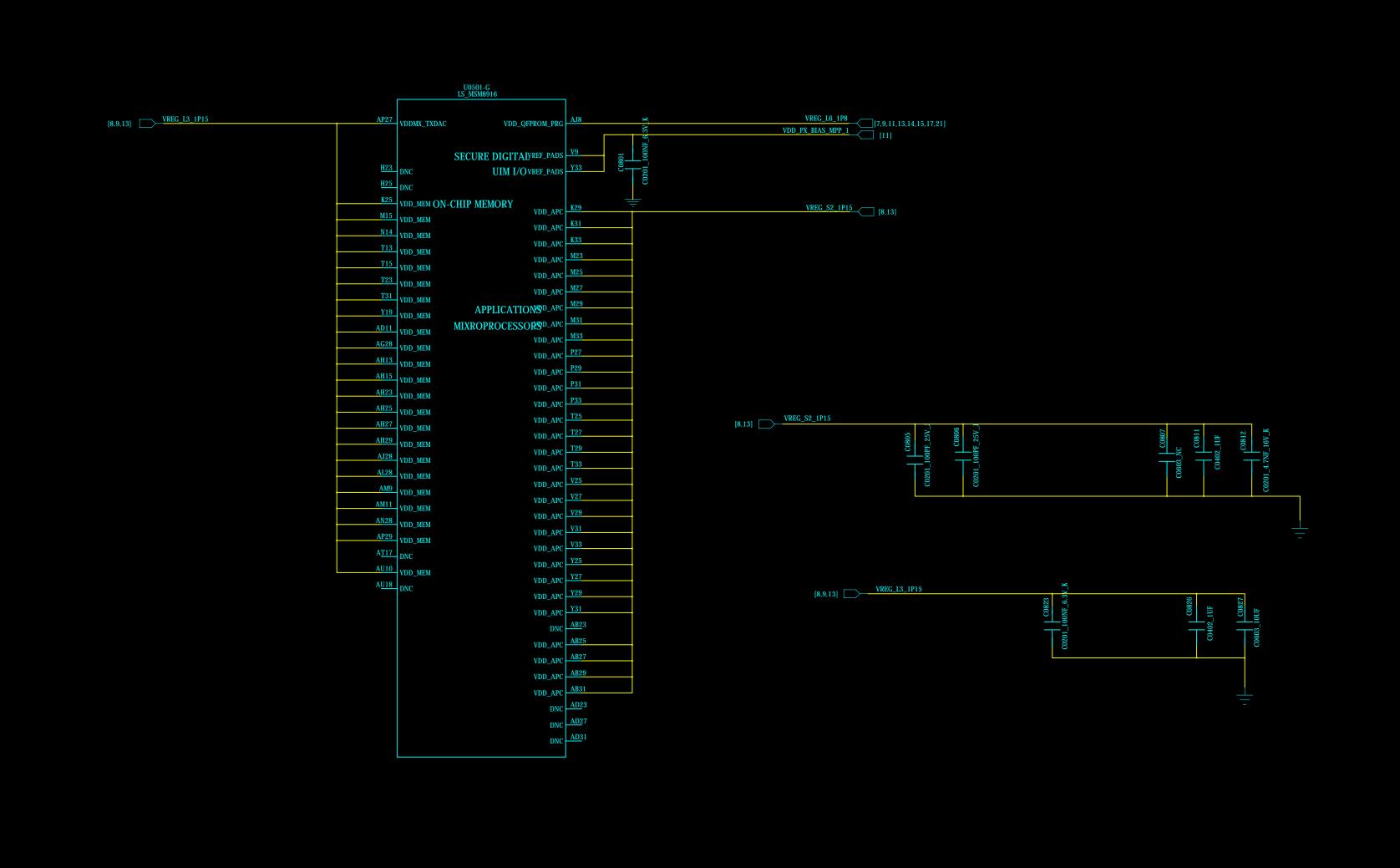


Configuration GPIO Table							
GPIO_80	WDOG_DISABLE	BOOT_CONFIG_0					
GPIO_81	BOOT_SEL_1	BOOT_CONFIG_1					
GPIO_82	BOOT_SEL_2	BOOT_CONFIG_2					
GPIO_83	BOOT_SEL_3	BOOT_CONFIG_3					
GPIO_84		BOOT_CONFIG_4					
GPIO_86		BOOT_CONFIG_5					
GPIO_87		BOOT_CONFIG_6					
GPIO_88		BOOT_CONFIG_7					
GPIO_90		BOOT_CONFIG_8					
GPIO_37	FORCE_USB_BOOT						

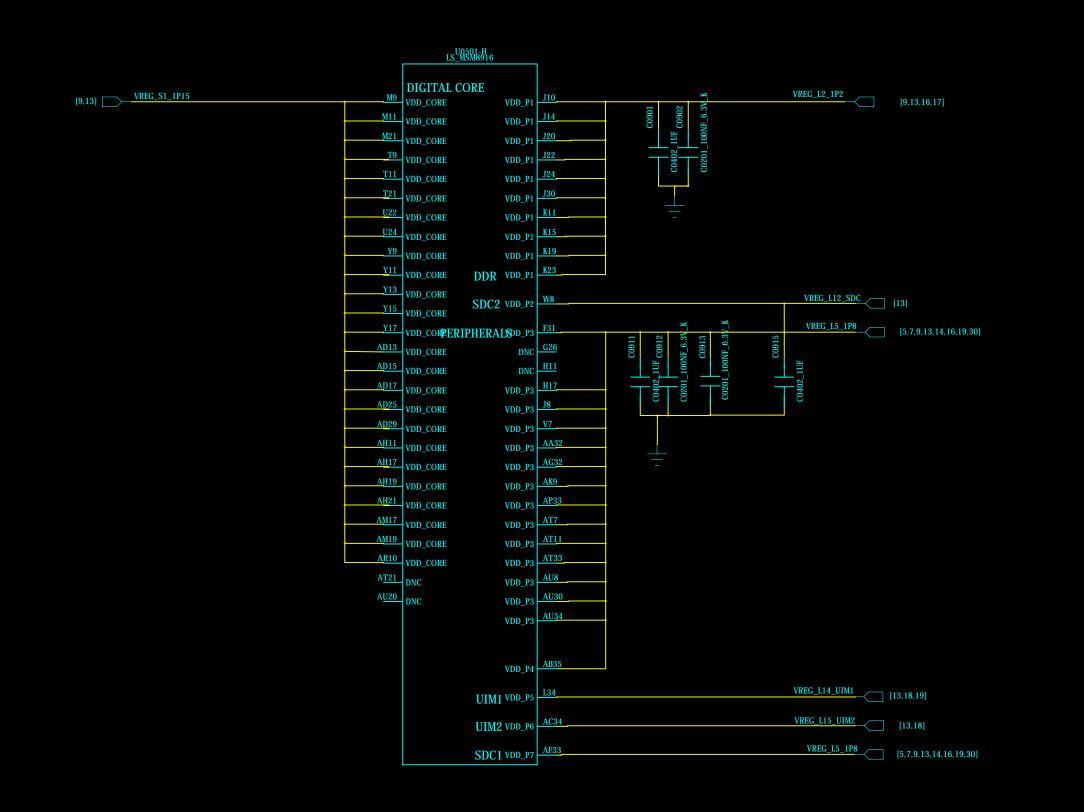
BOOT_SEL	BOOT MODE
0b000 (Default)	eMMC->SDC2->USB
0b001	SDC2->eMMC->USB
0b010	eMMC->USB
0b011	USB-HS only

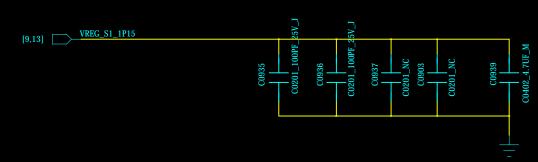
	U0501-D LS_MSM8916	3		
A <u>P37</u>	GPIO_74 WA	AKEU É PIO_110	<u>B39</u>	
A <u>V39</u>		AKEU G PIO_111	<u>C40</u>	
A <u>P35</u>		- AKEU G PIO_112	AW36 AUDIO_PA_EN [14]	
<u>BC4</u>		AKEU&PIO_113	D39 ALPS_INT_N [15]	
<u>BE4</u>		AKEU ÉPI O_114	E40 HALL_INT_N [15]	
<u>BC6</u>	GPIO_79 WA	AKEU&PIO_115	E38 BOARD_3 [7]	
[27]WTR0_RX_ONBD5	GPIO_80	GPIO_116	AW38 LED_RED [18]	
[27] WRTO RF ON BD7	GPIO_81 WA	AKEU&PIO_117	AV37 LED_GREEN [18]	
B <u>C38</u>	GPIO_82 WA	AKEUÆPIO_118	AR36 BOARD_1 [7]	
B <u>C40</u>	GPIO_83	GPIO_119	BOARD_2 [7]	
BCS BL DDV CHITCH	GPIO_84 WA	AKEU GPI O_120		
[25] B3_B1_DRX_SWITCH BE6 TORCH_EN RD39	GPIO_85 WA	AKEU &PI O_121	CAM_AVDD_2V8_EN [17]	
[17]	GPIO_86			
B <u>B37</u>	GPIO_87			
BB35	GPIO_88			
BD35	GPIO_89			
[26] DRX_MODE_SEL0 BA32	GPIO_90			
B <u>E38</u> A <u>Y33</u>	GPIO_91			
DRX_MODE_SEL1	u110_0#			
[26] BD33	GPIO_93			
B <u>B31</u>	d110_01			
[29] EXT_GPS_LNA_EN BC32	GPIO_95			
[29] C38	GPIO_96			
	GPIO_97WAKEUP			
[27] CHO_GSM_TX_PHASE_D0 BE34	GPIO_98WAKEUP GPIO_99			
[27] CHO_GSM_TX_PHASE_D1 BE36	GPIO_99			
BB33	GPIO_100			
BE32	GPIO_102			
[27] CHO_SSBI_WTR_RX AT35	GPIO_103			
[27] CH0_SSBI_WTR_TX AW40	GPIO_104			
A <u>U36</u>	GPIO_105			
A <u>Y39</u>	GPIO_106			
[18] VOLUME+ H33	GPIO_107WAKEUP			
[18] GPIO_LED_KEYPAD K35	GPIO_108VAKEUP			

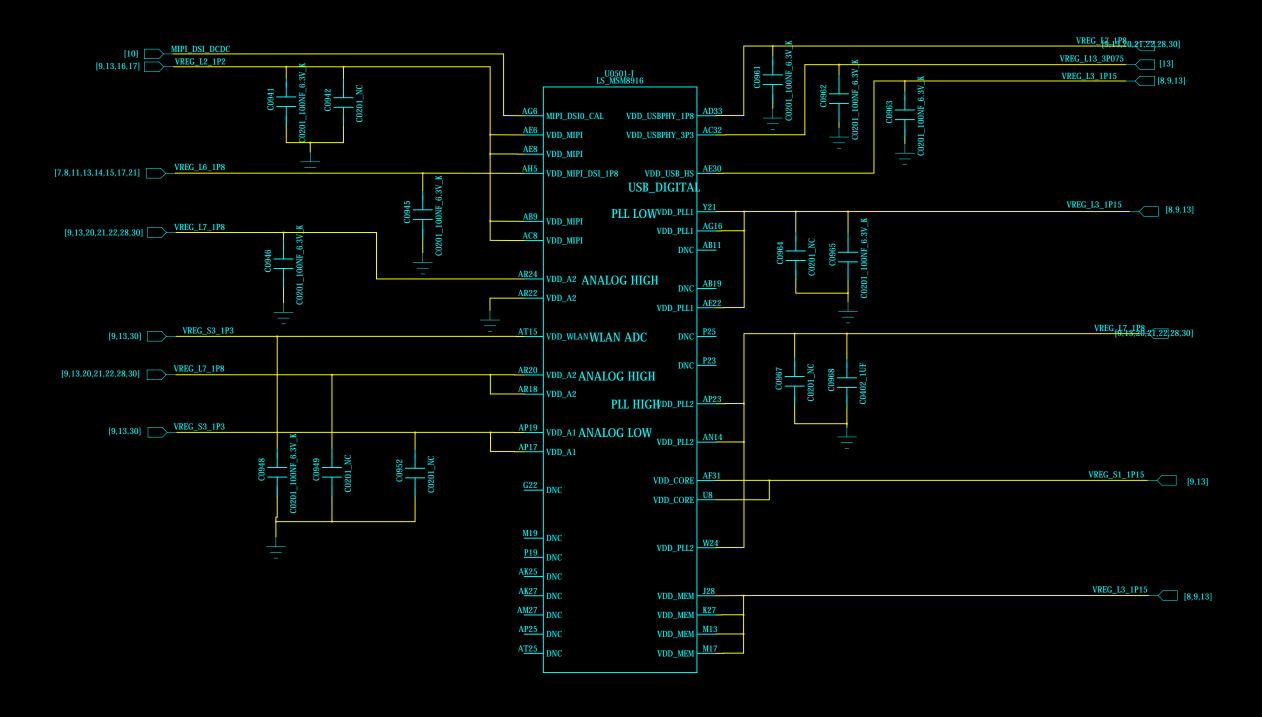




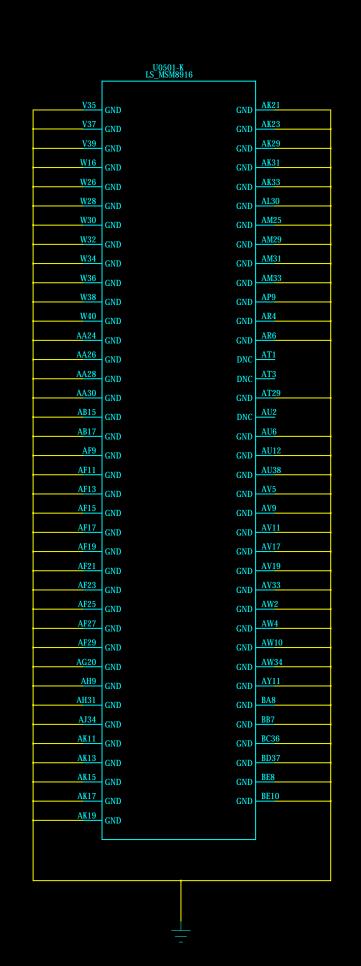
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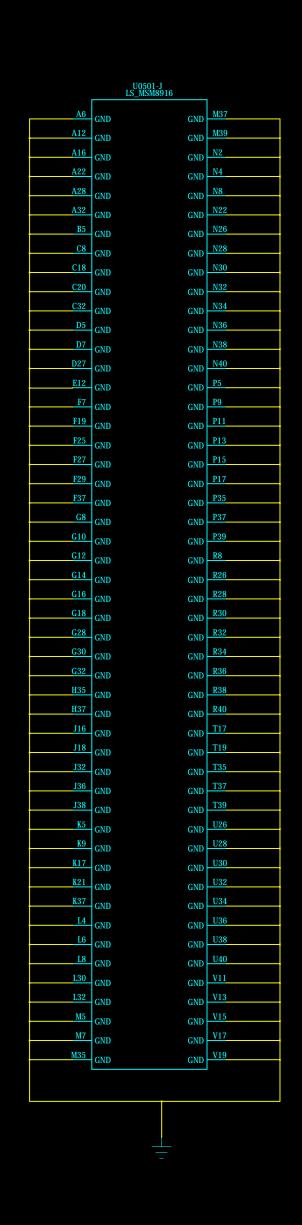


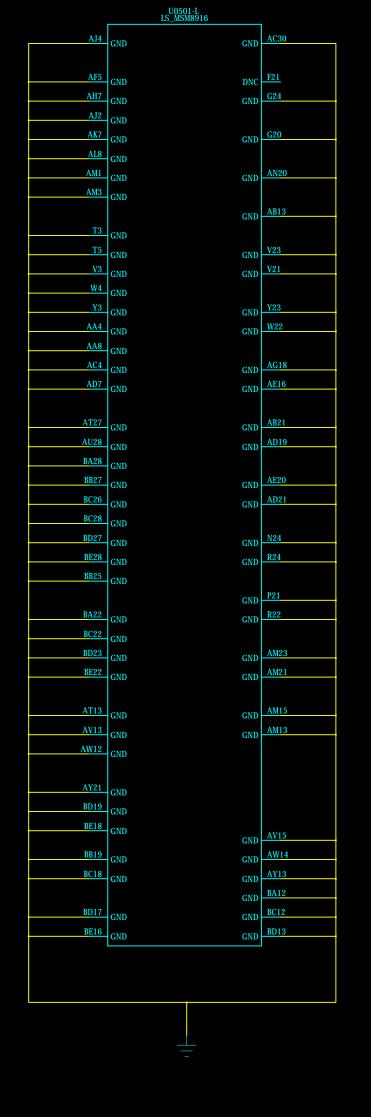


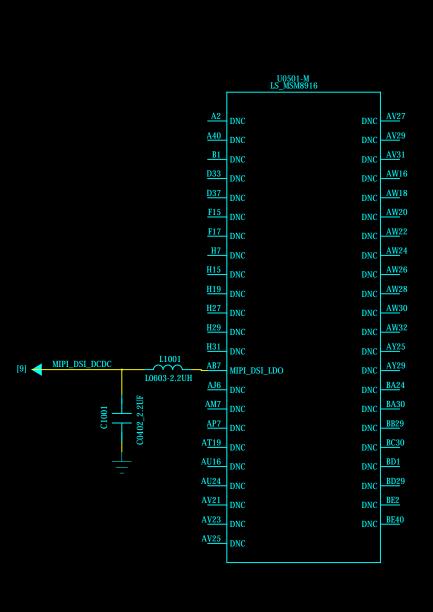


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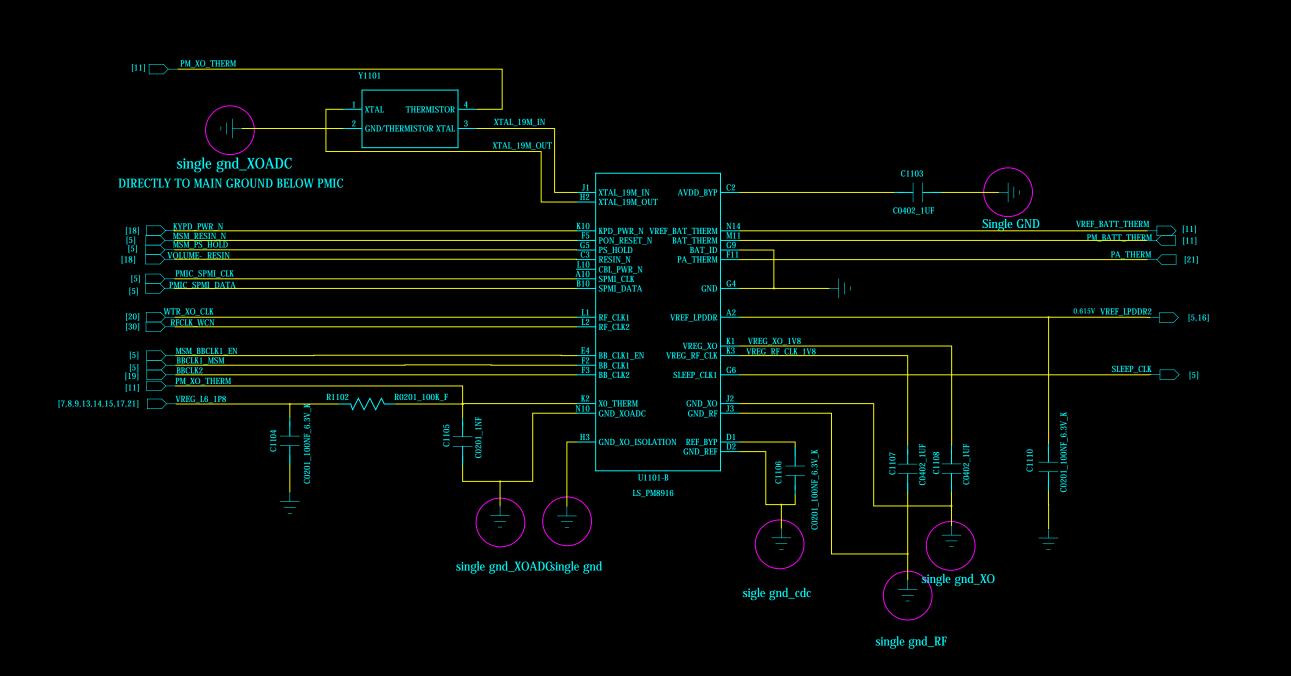


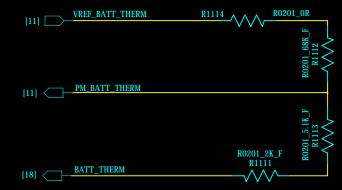
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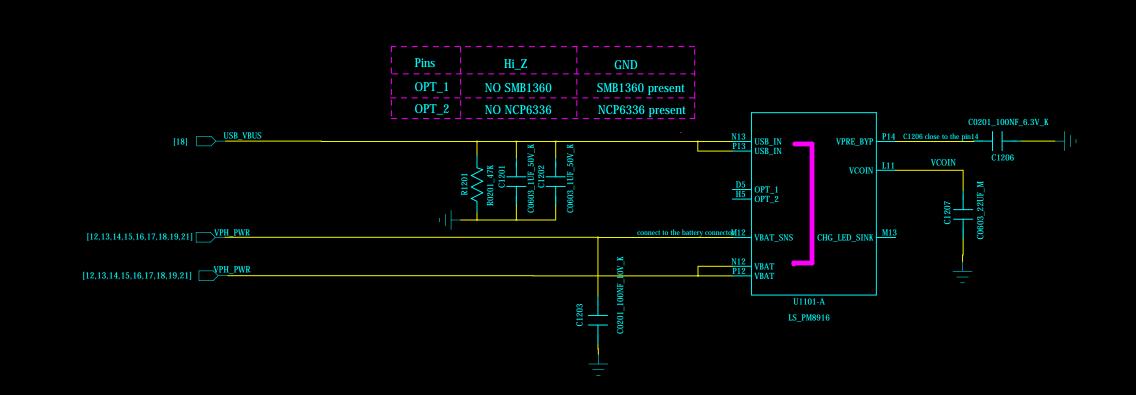




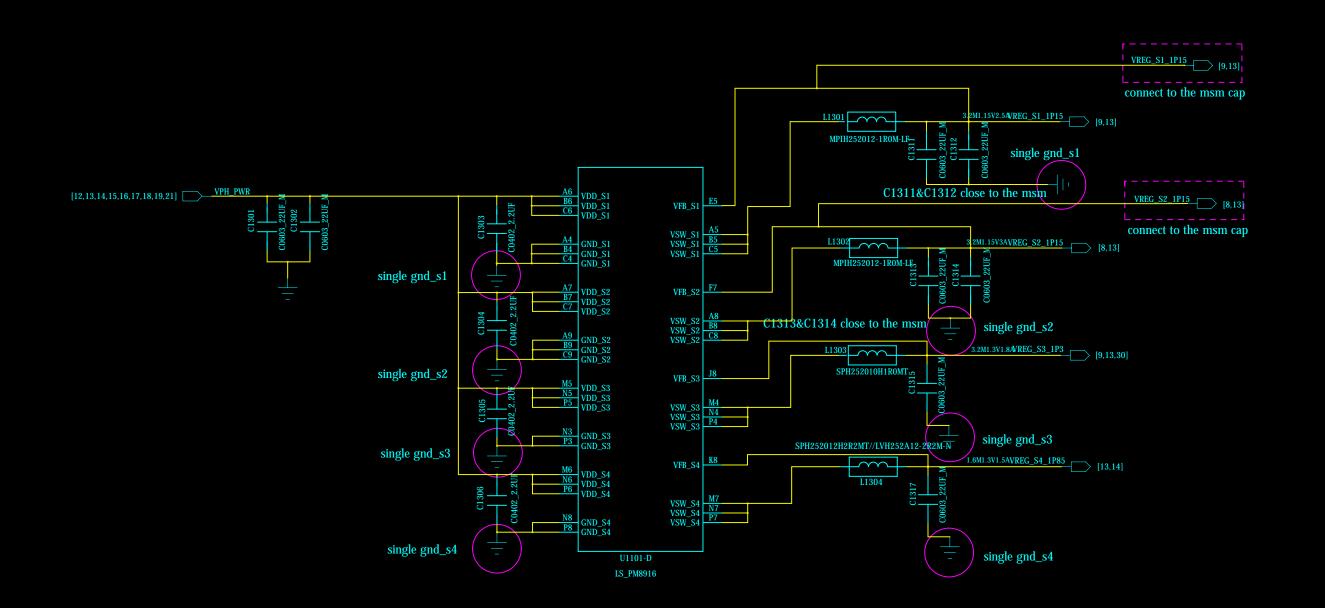
NTC 47K B=4100 CHARGING:0~55 DEGREE

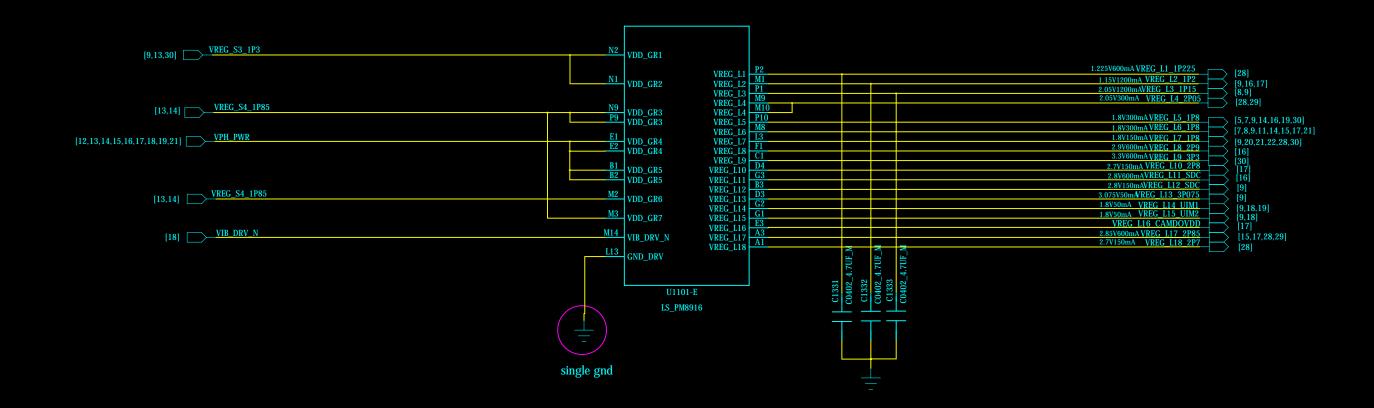


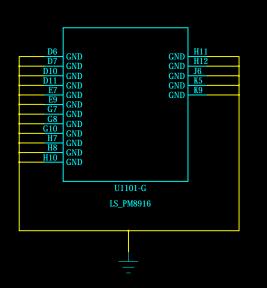
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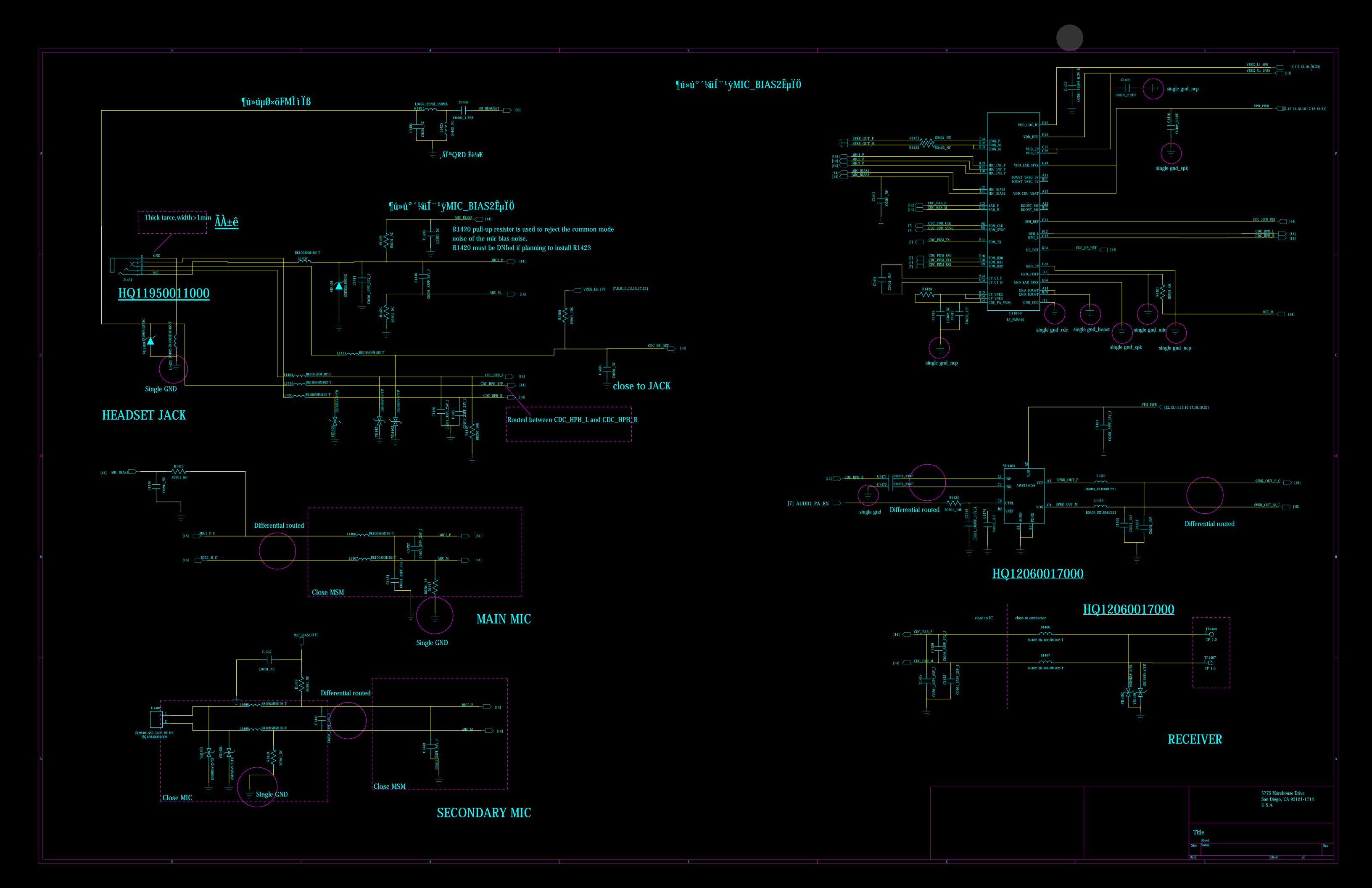
5775 Morehouse Drive
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U.S.A.

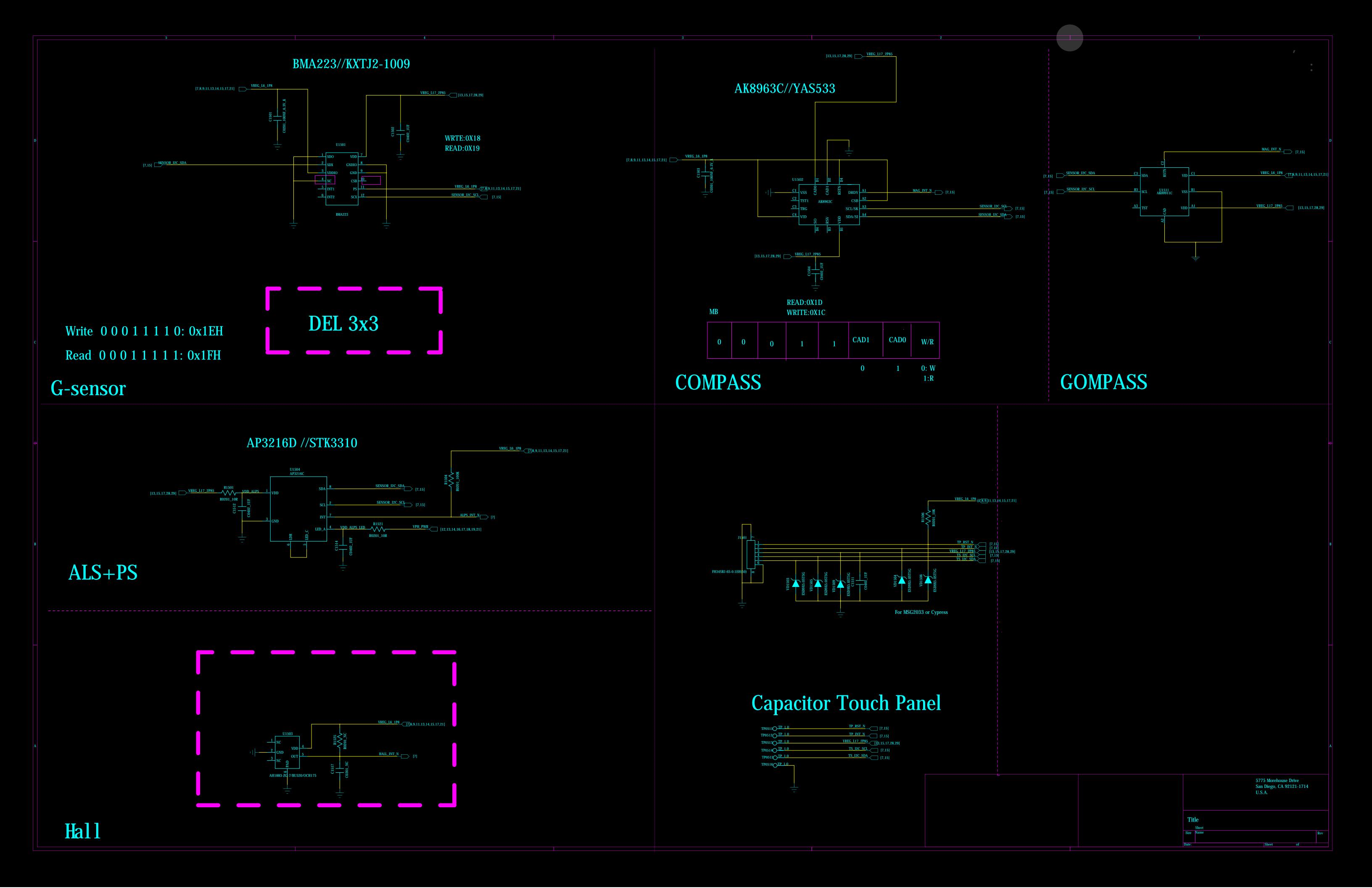


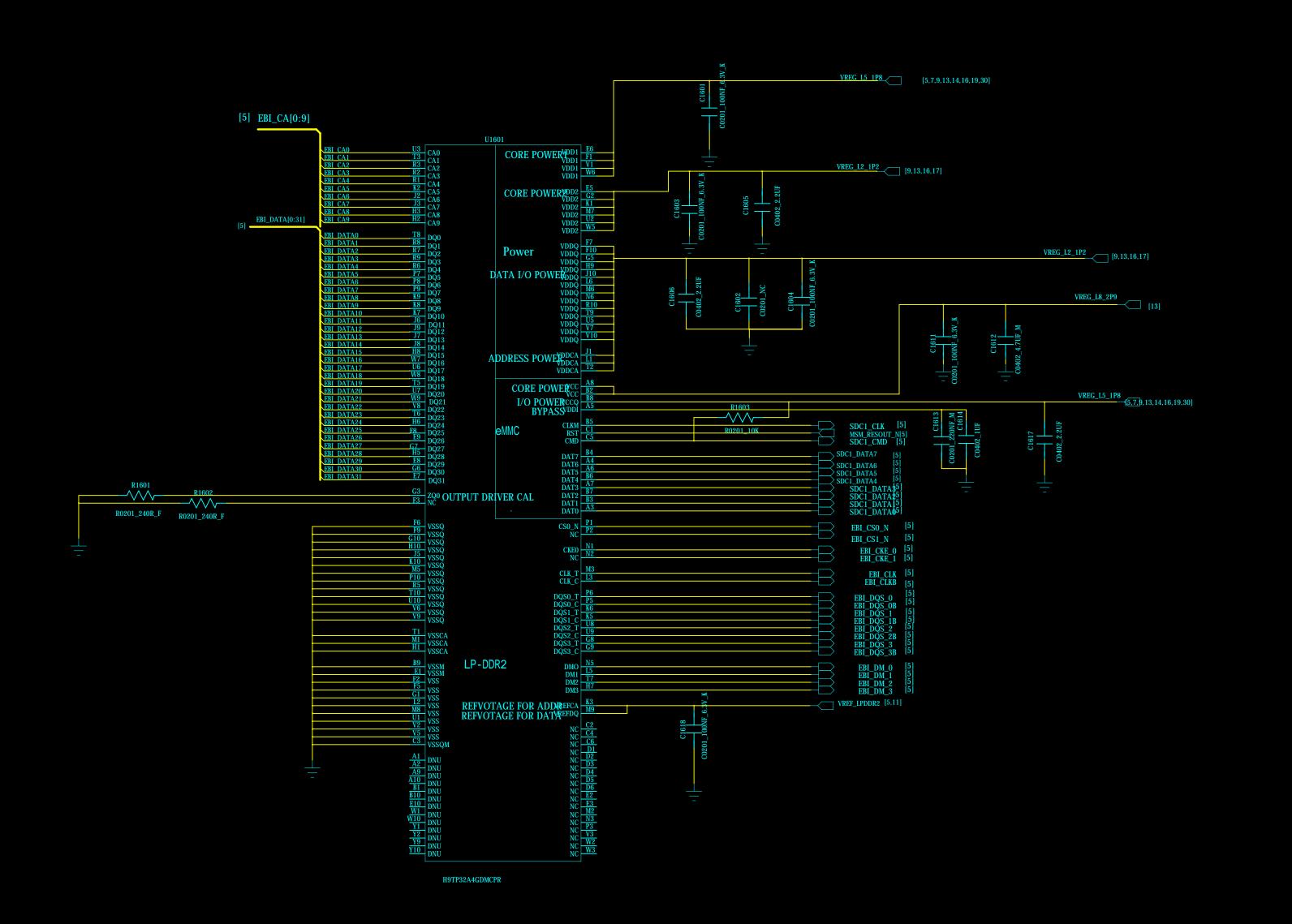




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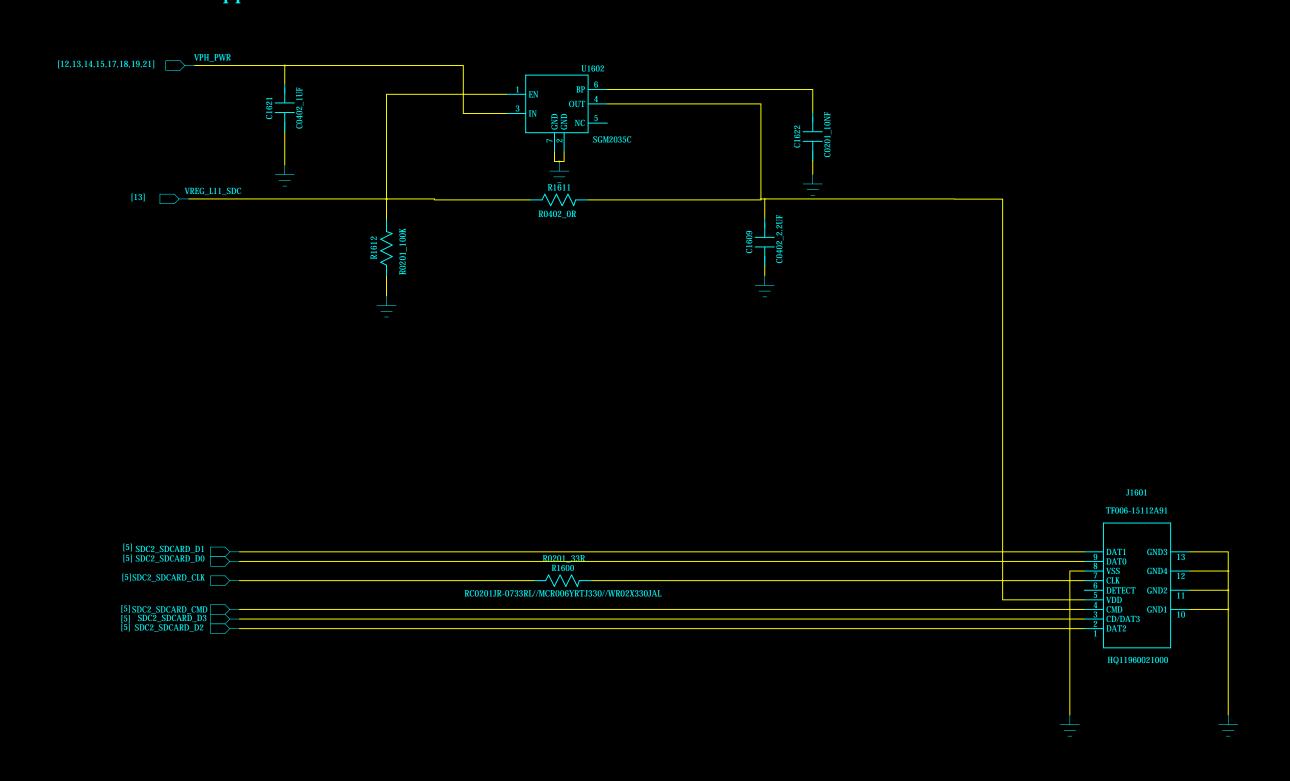




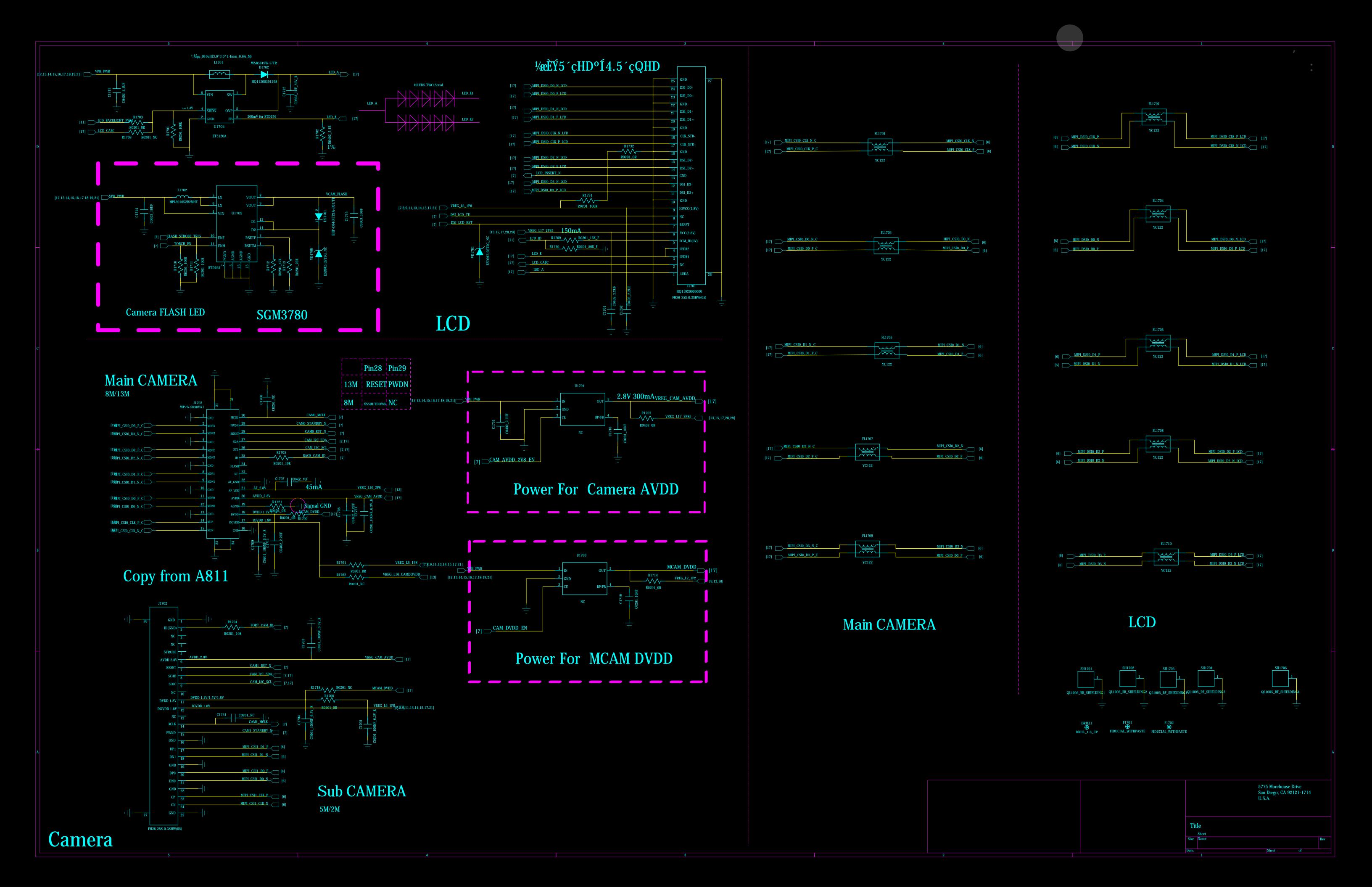


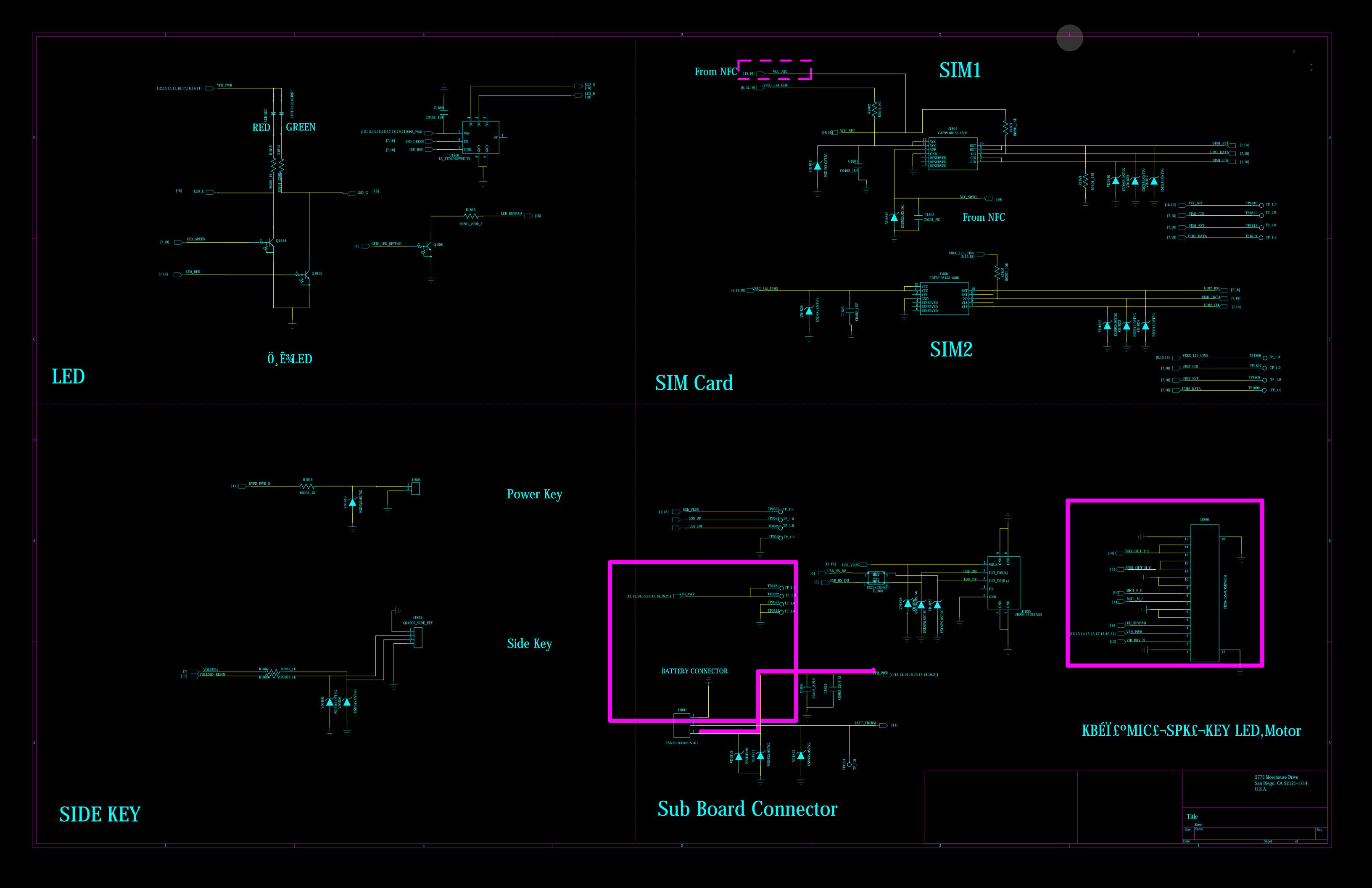
SD Card Support SD3.0

> SD Card Support SD3.0

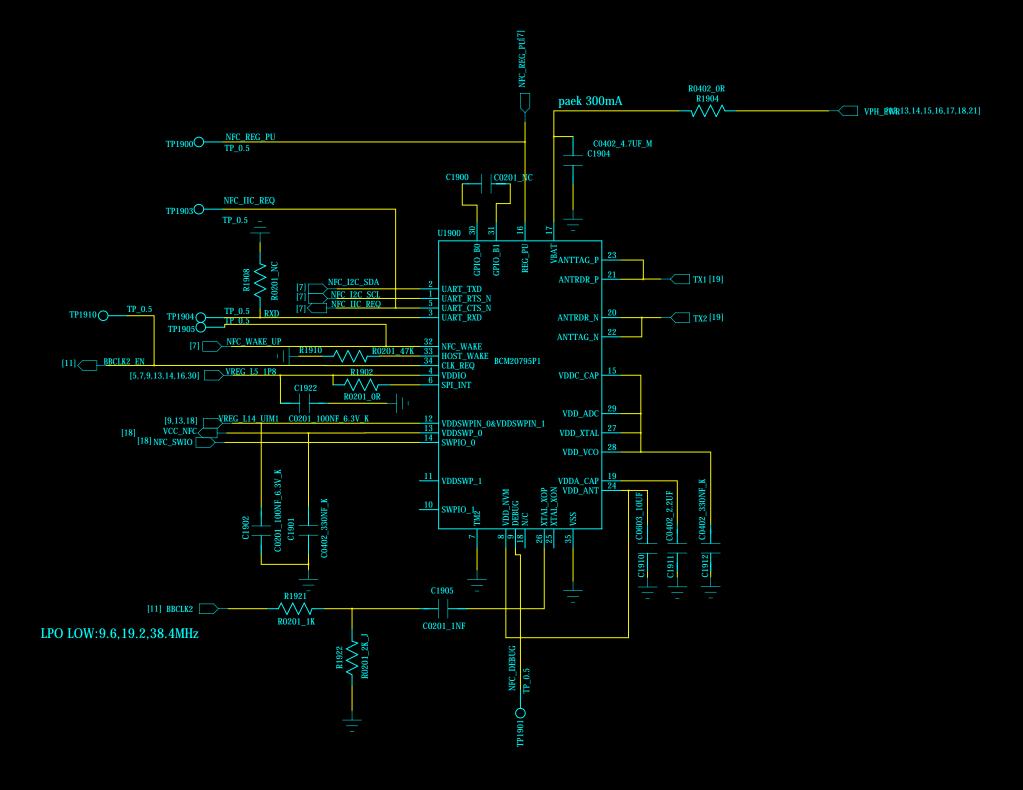


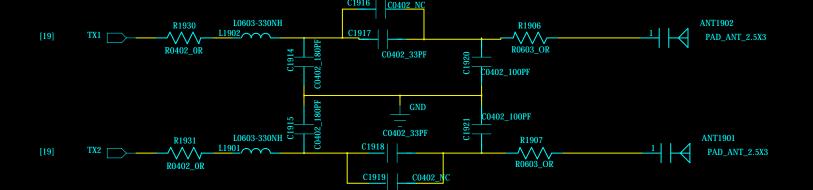
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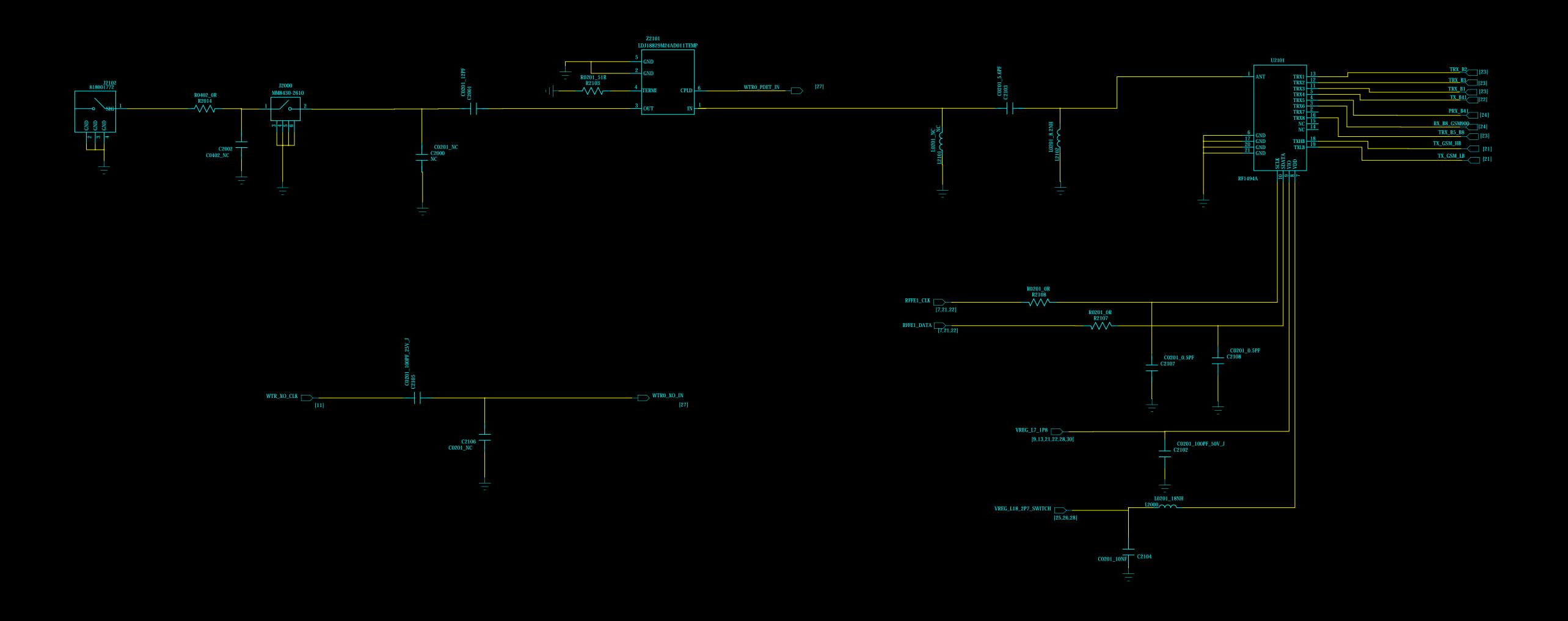




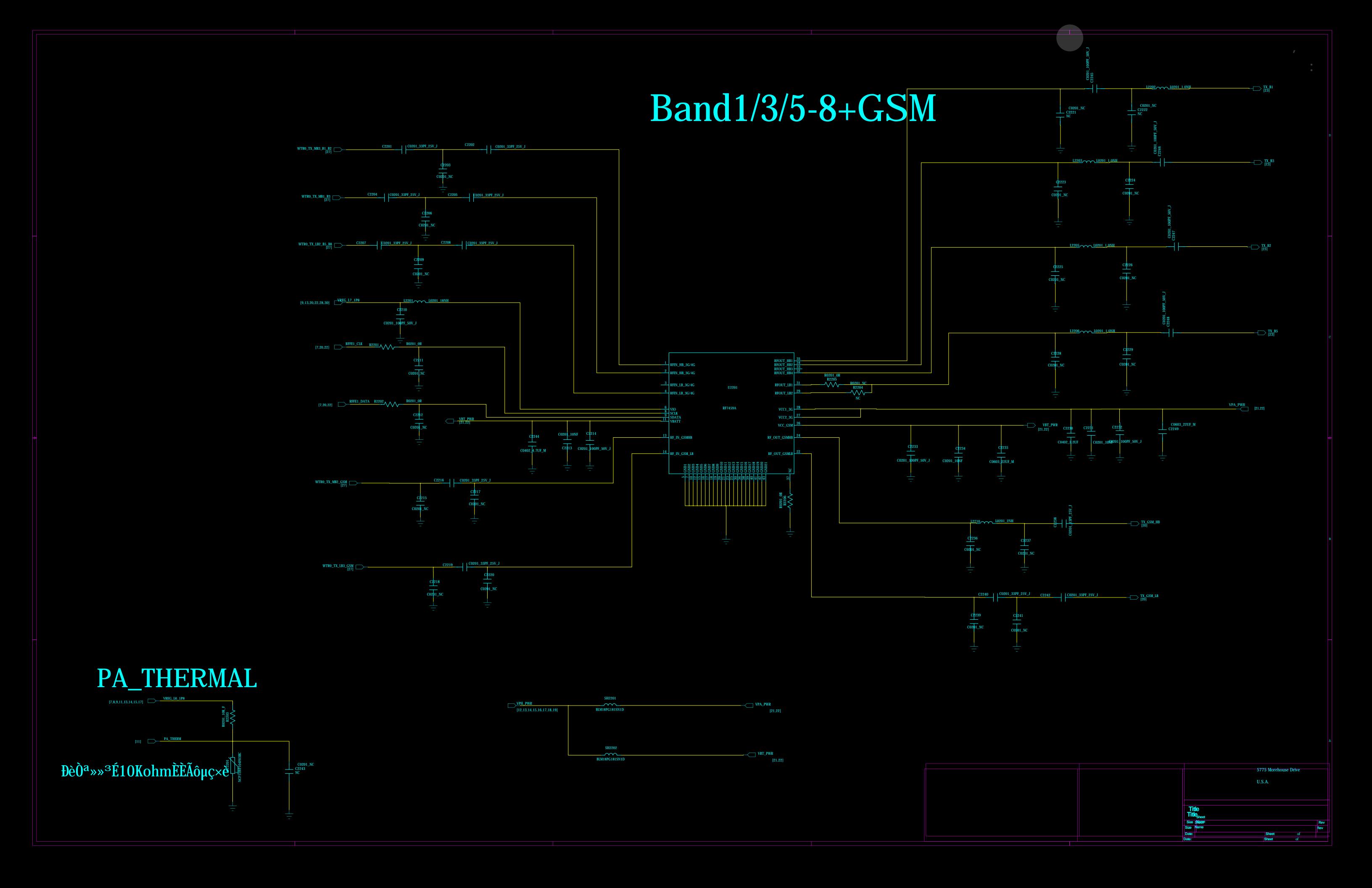
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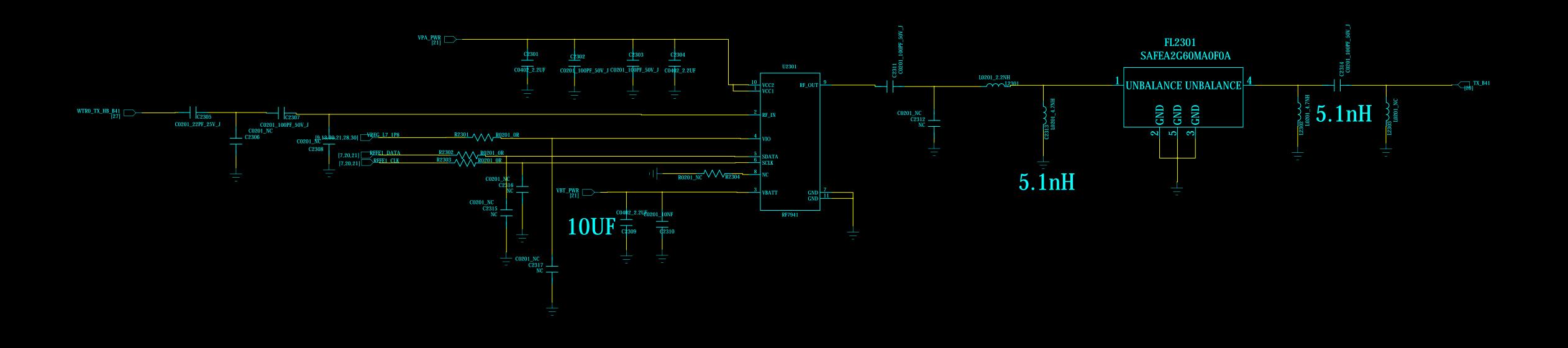
Rf_Main_Switch



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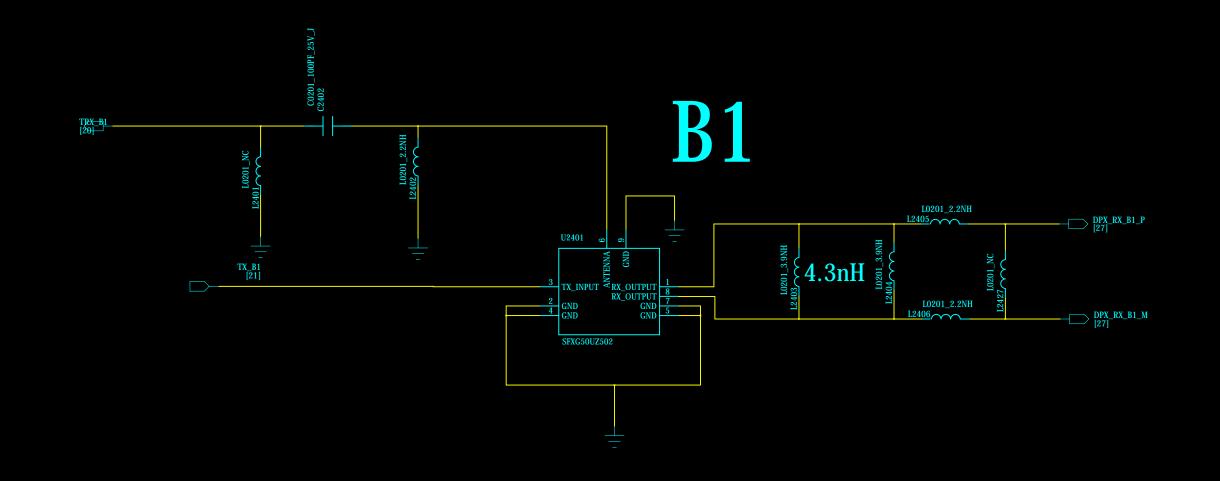
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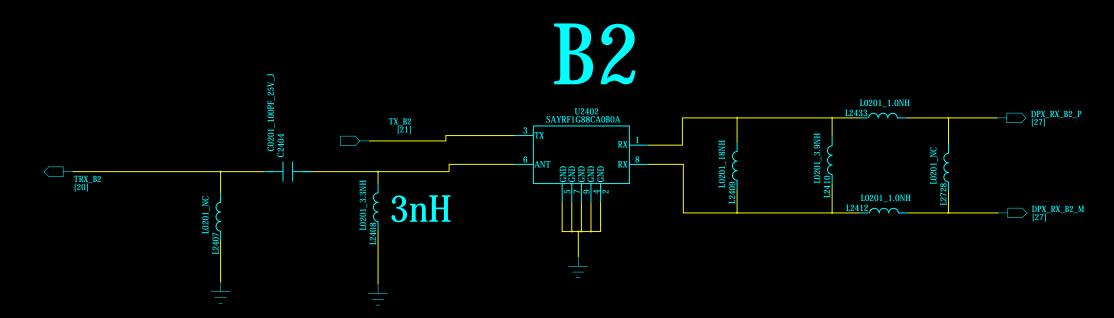


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U.S.A.

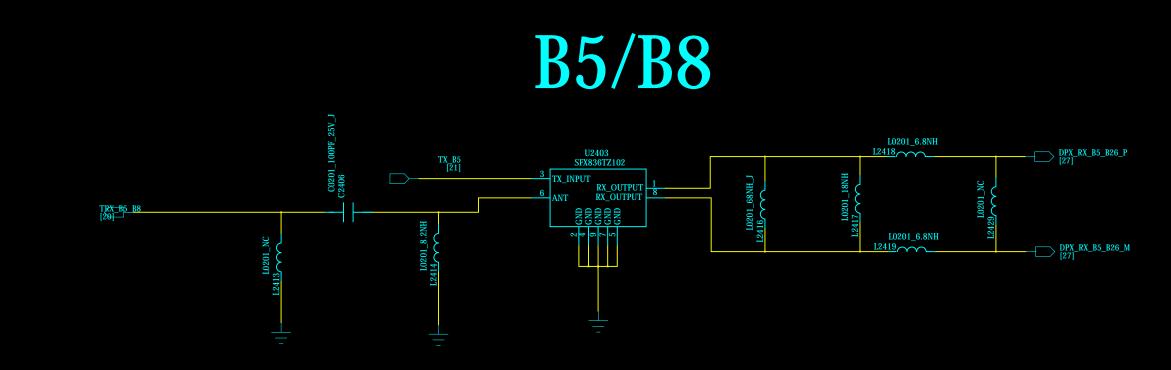
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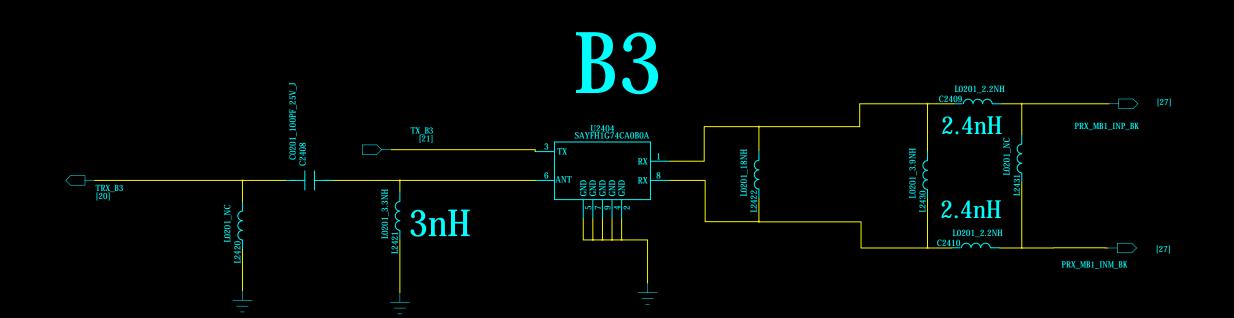
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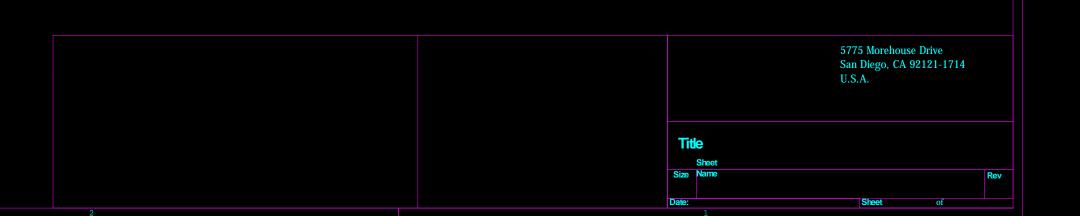




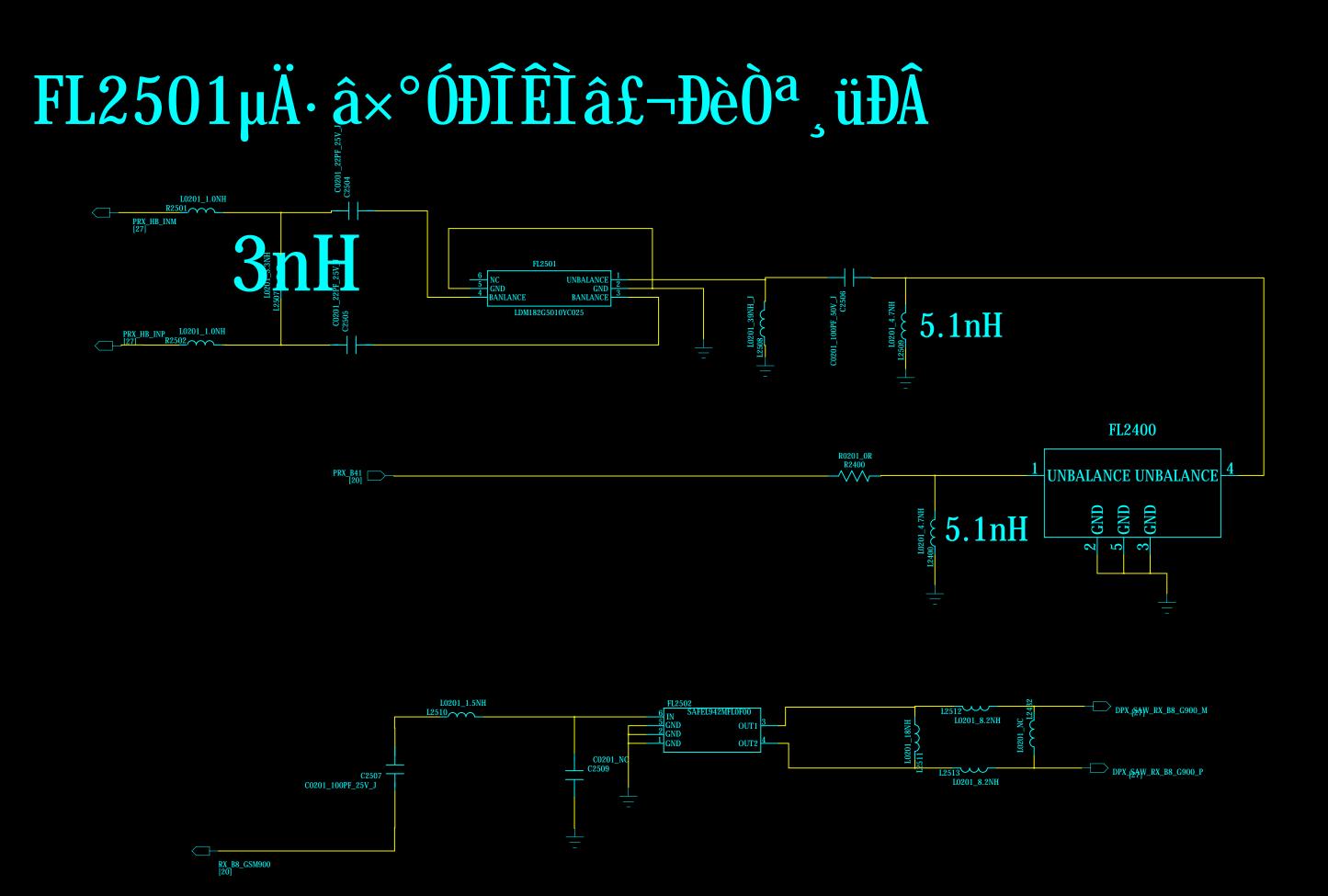
U2402 need to change DUP







PRX_B41 AND G900 SAW RX CHAIN

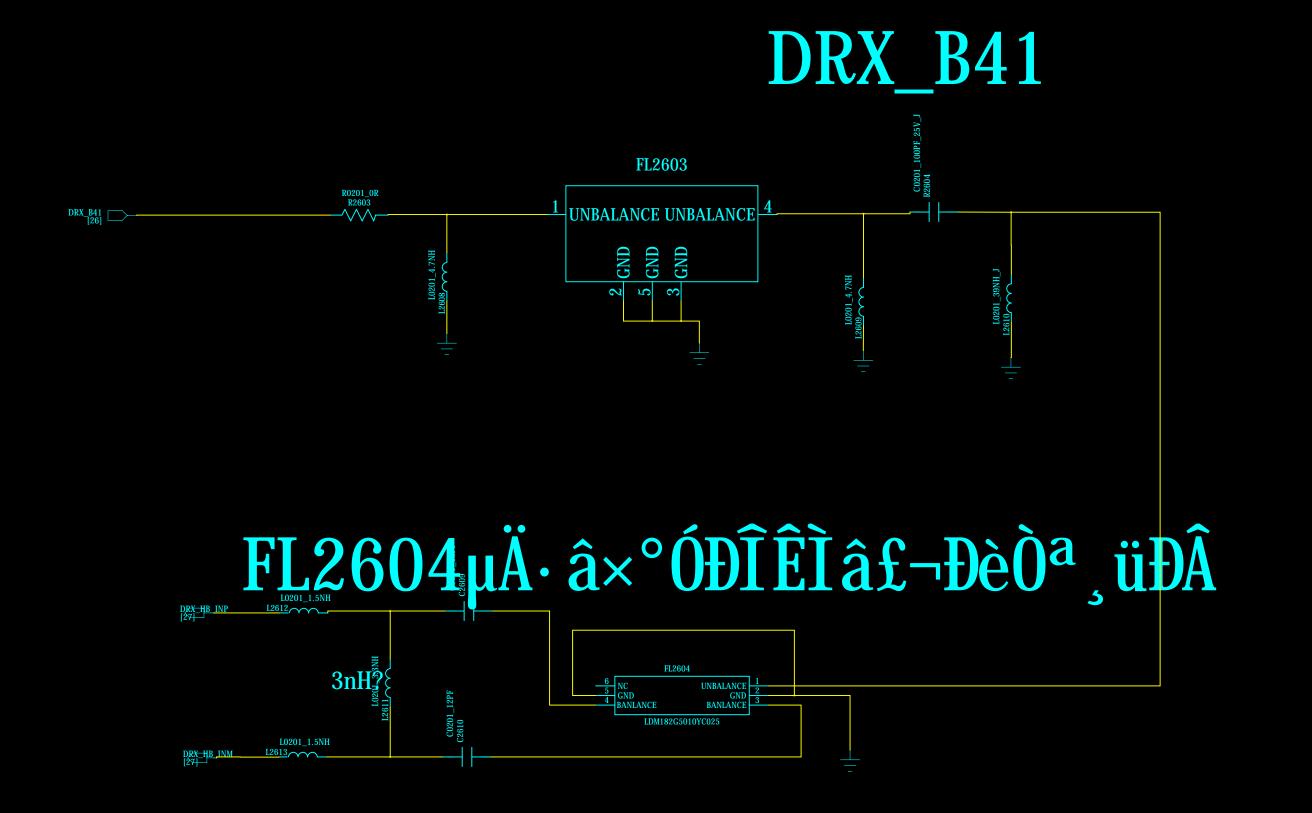


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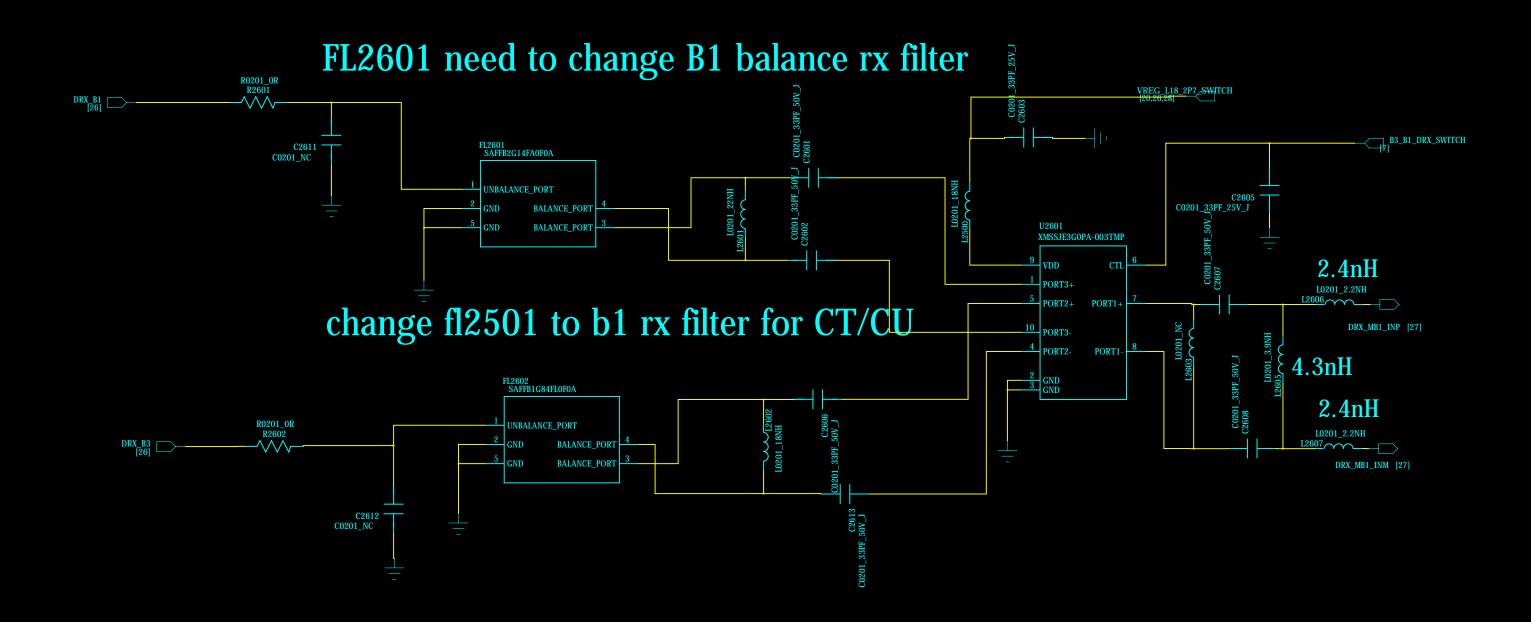
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DRX Chain



DRX B3,B1

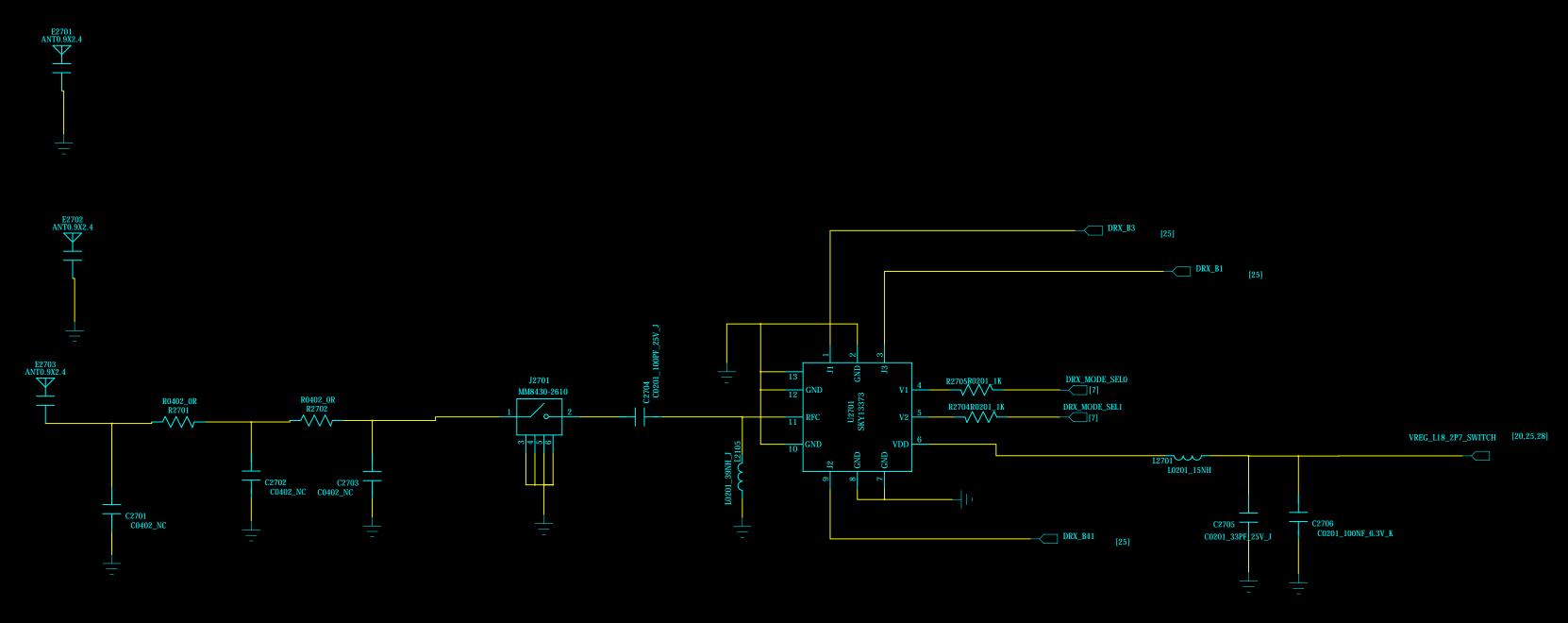


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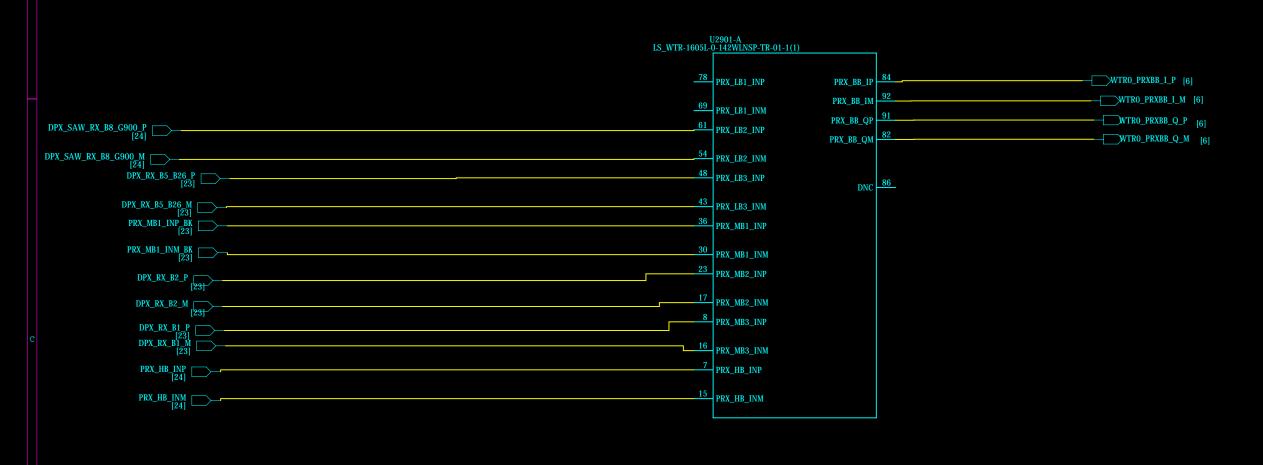
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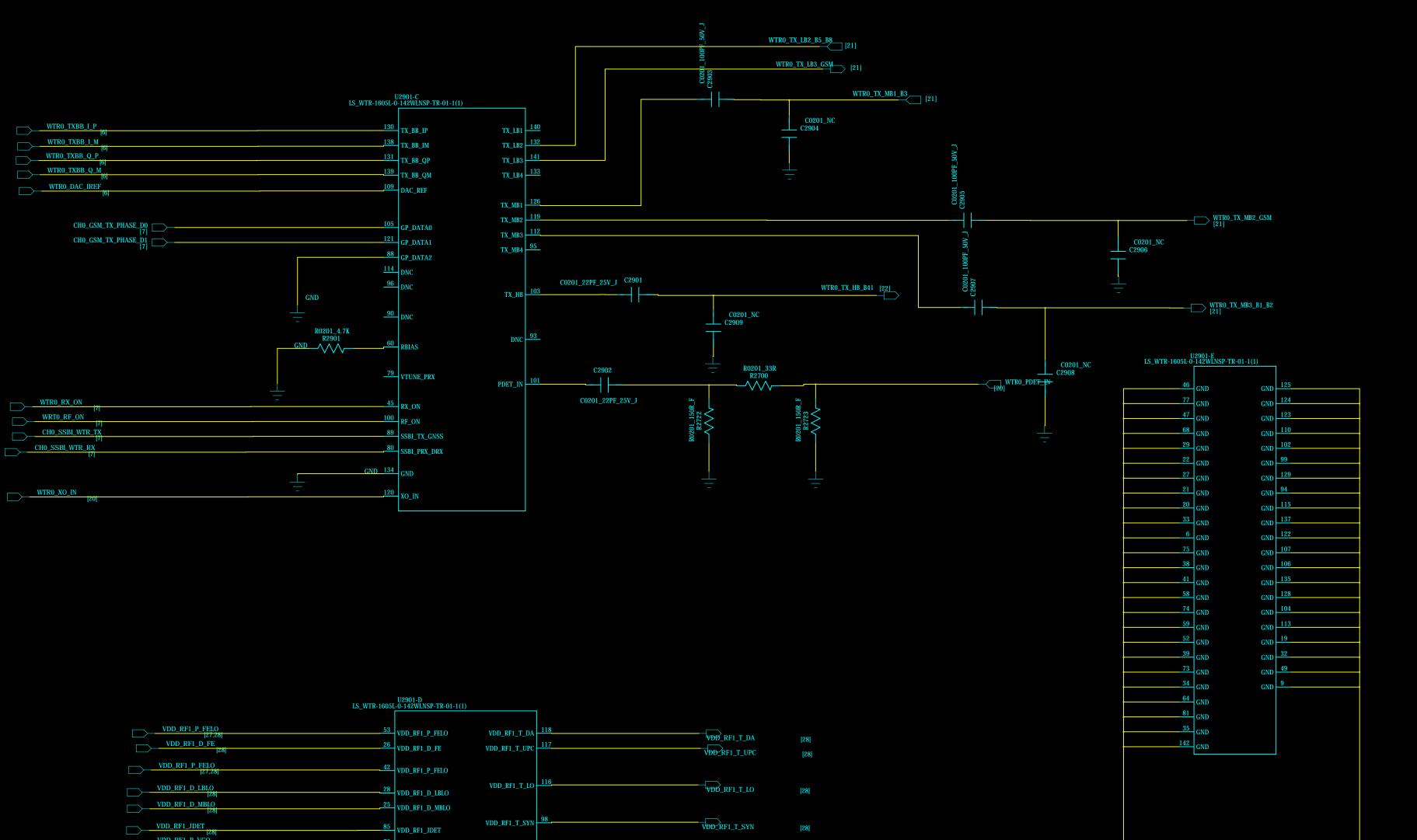
DRX ANT SWITCH

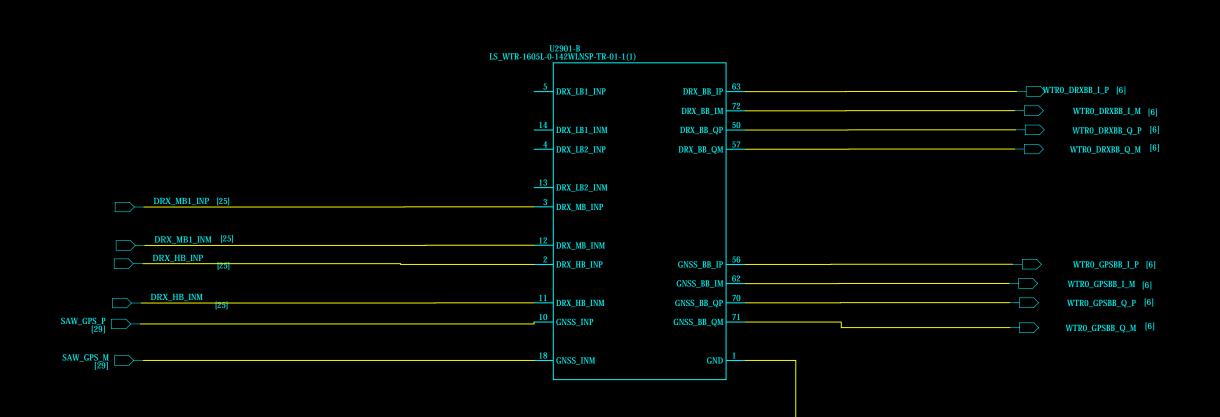


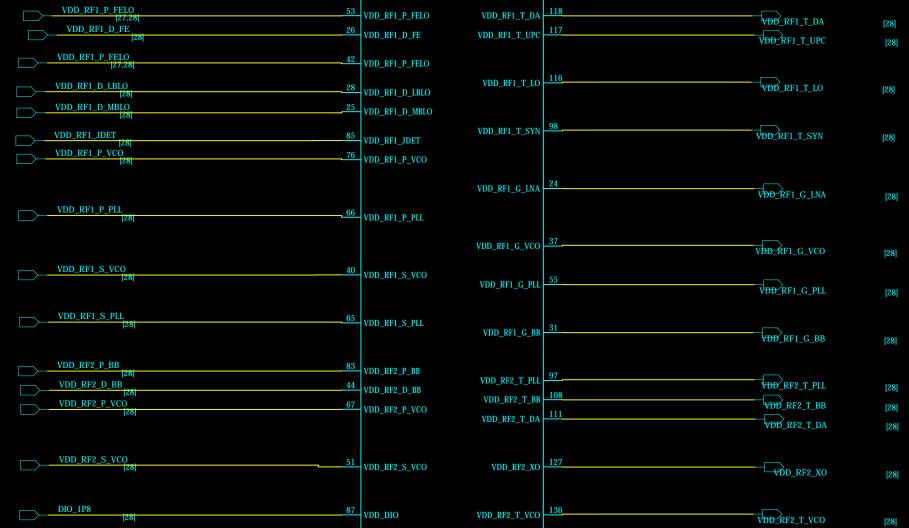
DIV SWITCH change from sky13414 to sky 13373











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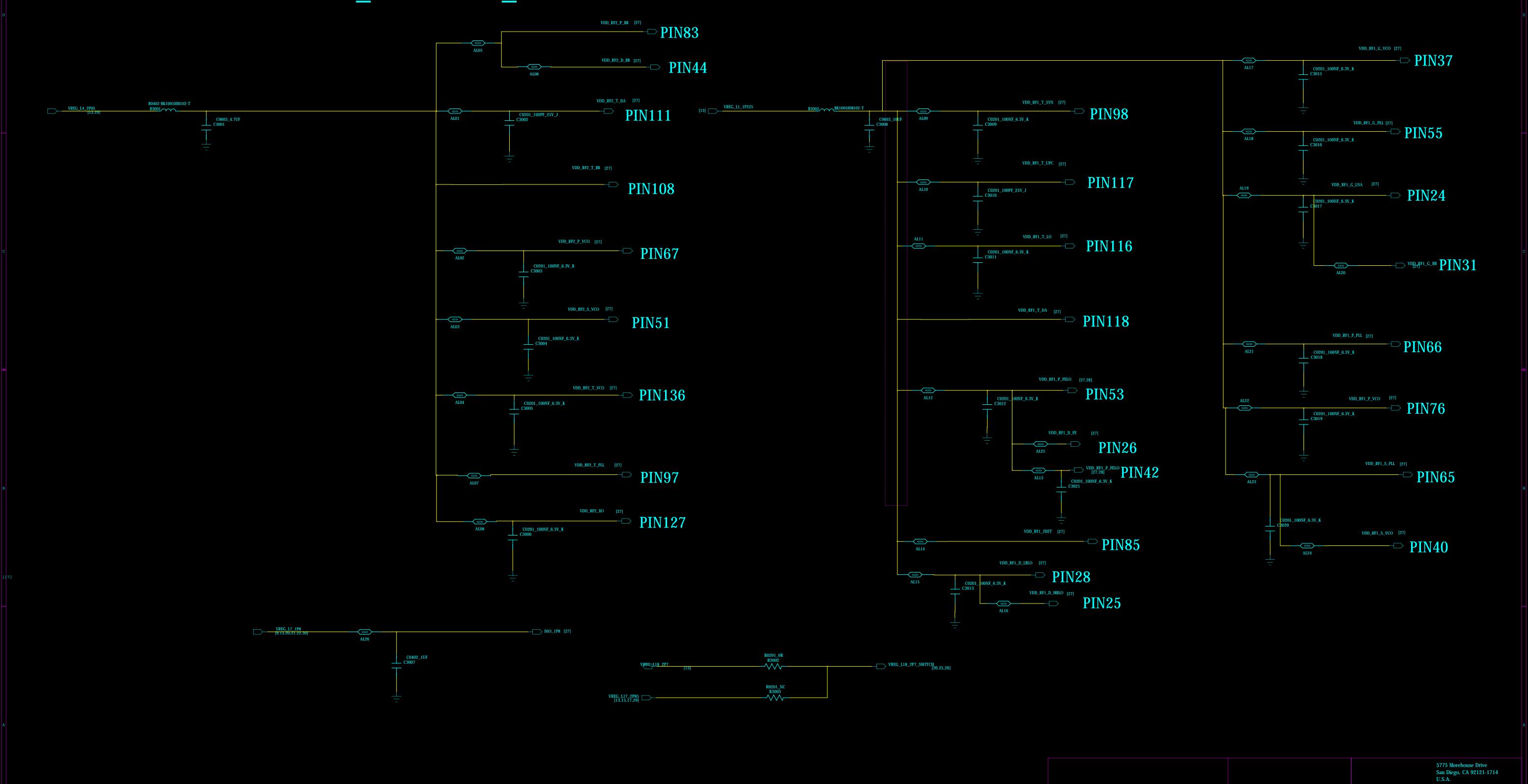
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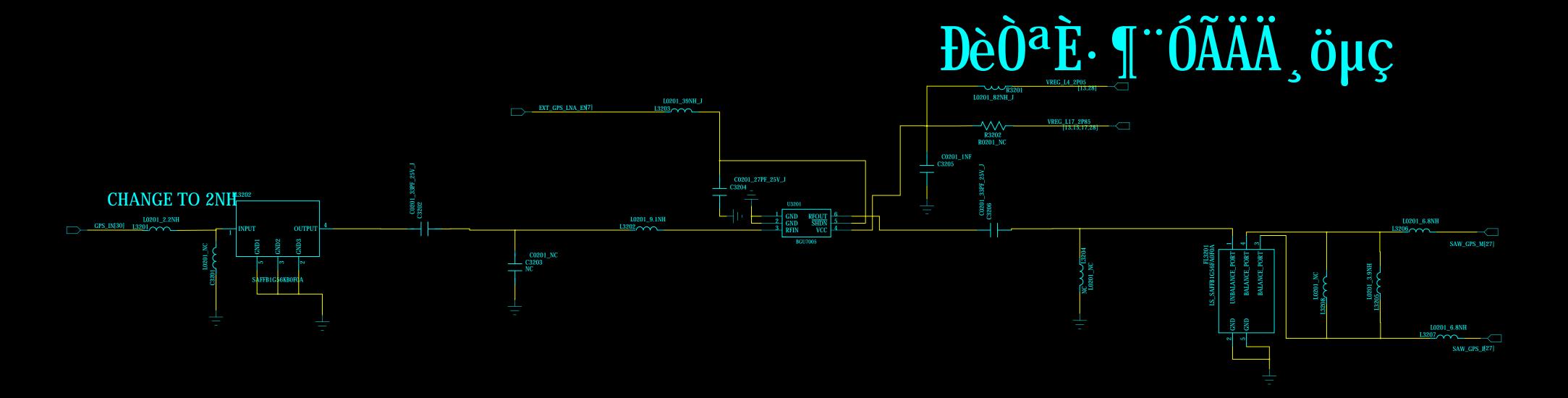
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RF_WTR1605L_POWER



RF_GPS

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WIFI/BT/FM WL_PDET_IN 49 WCSS_BB_IP [6] WCSS_BB_IN [6] WCSS_BB_QN [6] WCSS_BB_QP [6] WCSS_WL_BT_RFIO [30] L2302 WCSS_WLAN_SET [7] WCSS_WLAN_CLK [7] WCSS_WLAN_DATA2 [7] WCSS_WLAN_DATA1 [7] WCSS_WLAN_DATA0 [7] CHANGE TO B9604 WCN-3620-0-61WLNSP-TR-05-0 VREG_S3_1P3 R2788 R2788 [9,13] pin9 VDD_WL_2GPA_BTDA_3P0____ VREG_L24_1P3V co201_100PF_25V_J near pin11 C0201_100PF_25V_J [23] VREG_L24_1P3V C0603_10UF C3312 _56 VDD_FM_RXFE_1P3 GND4 10 pin37,43 _57 VDD_FM_RXBB_1P3 VDD_FM_PLL_1P3 C0402_4.7UF_M C3314 C0201_100PF_25V_J _ C3315 VDD_WL_2GPA_BTDA_3P0 VDD_FM_VCO_1P3 □pin60 GND6 14 C0201_100PF_25V_J _ C3316 [23] VREG_L24_1P3V [30] 3 VDD_BT_RF_1P3 BLM03AX241SN1 GND8 19 VREG_L7_1P8 [9,13,20,21,22,28,30] VDD_BT_BB_1P3 VREG L7 1P8 [9,13,20,21,22,28,30] pin36,58 [23] VREG_L24_1P3V [30] C0201_0.47UF_M C3324 16 VDD_BT_PLL_1P3 GND9 20 7 VDD_BT_VCO_1P3 VDD_MODEM_1P2 C0402_4.7UF_M C3325 [23] VREG_L24_1P3V [30] C0201_10NF C3319 23 VDD_BT_FM_DIG_1P3 VREG_L5_1P8 [5,7,9,13,14,16,19,30] □ pin7,16 VRFG_L5_1P8 [5,7,9,13,14,16,19,30] [23] VREG_L24_1P3V [30] _60_ VDD_WL_BB_1P3 C0201_0.47UF_M C3326 C0201_10NF C3320 [23] VREG_L24_1P3V [30] 37 VDD_WL_2GPA_1P3 VDD_WL_UPC_1P3 pin23 C0201_10NF C3321 GND16 39 [23] VREG_L24_1P3V [30] 9 VDD_WL_2GLNA_1P3 vrec_124_1P3V pin51,52,56,57 C0201_22NF C3322 [23] VDD_WL_LO_1P3 _58 VDD_WL_PLL_1P3 ___36__ VDD_WL_LO_1P3 GND18 44 NOT TO BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMM. [23] VDD_WL_2GPA_BTDA_3P0 [30] VDD_WL_2GPA_3P3 [23] VDD_WL_2GPA_BTDA_3P0 [30] VDD_BT_DA_3P3 5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.