

REACH

Reach Technology (Xiamen) Co.,Ltd.
 Re. 303, #18, Guanri Road, Software Park II,
 Xiamen, Fujian China 361008
 Confidential and Reach Proprietary


Title 9788 Main Board

Size	Sheet	Name	Block	Rev
A3	1			V3.0

ENGINEER: Feature Phone Department
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	Reach Technology (Xiamen) Co.,Ltd. <small>Rm. 303, #18, Guanri Road, Software Park III, Xiamen, Fujian China 361008</small>			Confidential and Reach Proprietary
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GPIO Mapping

PIN	9778	QRD7227A
GPIO 00[P2]	PA_R1	PA_R1
GPIO 01[P2]	MSM_TCXO_EN	MSM_TCXO_EN
GPIO 02[P2]	PMIC_SSB1	PMIC_SSB1
GPIO 03[P2]	NULL	NULL
GPIO 04[P2]	LCDC_PCLK	KEY_BACKLIGHT_EN
GPIO 05[P2]	NULL	NULL
GPIO 06[P2]	NULL	NULL
GPIO 07[P2]	LCDC_RED_5	LCDC_RED_5
GPIO 08[P2]	LCDC_RED_4	LCDC_RED_4
GPIO 09[P2]	LCDC_RED_3	LCDC_RED_3
GPIO 10[P2]	LCDC_RED_2	LCDC_RED_2
GPIO 11[P2]	LCDC_RED_1	LCDC_RED_1
GPIO 12[P2]	LCDC_RED_0	LCDC_RED_0
GPIO 13[P2]	NULL	NULL
GPIO 14[P2]	NULL	NULL
GPIO 15[P2]	CAM_MCLK	CAM_MCLK
GPIO 16[P2]	CAM_2M_PWDN	GRYO_DRDY
GPIO 17[P2]	ALS_INT_N	ALS_INT_N
GPIO 18[P2]	HS_DETECT_N	COMPASS_DRDY
GPIO 19[P2]	SDC3_DATA7	SPI_SDI
GPIO 20[P2]	SDC3_DATA6	SPI_SCLK
GPIO 21[P2]	SDC3_DATA5	LCD_SPI_CS
GPIO 22[P2]	PA_ON_1	PA_ON_1
GPIO 23[P2]	CAM_2M_REST	CAM_5M_REST
GPIO 24[P2]	PM_INT_N	PM_INT_N
GPIO 25[P2]	PS_HOLD	PS_HOLD
GPIO 26[P2]	CAP_TS_RESET_N	CAP_TS_RESET_N
GPIO 27[P2]	SPI_SDI	GYRO_INT_N
GPIO 28[P2]	SPI_SCLK	ACC_INT
GPIO 29[P2]	SPI_CS	CAM_0_3M_REST_N
GPIO 30[P2]	DTV_RST	COMPASS_INT
GPIO 31[P2]	KYPD_DRV0	KYPD_DRV0
GPIO 32[P2]	NULL	KYPD_DRV1
GPIO 33[P2]	LCD_RESET	NULL
GPIO 34[P2]	CAM_0_3M_REST_N	NULL
GPIO 35[P2]	CAM_AVDD_EN	EXT_2V85_EN
GPIO 36[P2]	KEYSENSE_N0	KEYSENSE_N0
GPIO 37[P2]	KEYSENSE_N1	KEYSENSE_N1
GPIO 38[P2]	DTV_INT	NULL
GPIO 39[P2]	WAKE_ON_WIRELESS	WAKE_ON_WIRELESS
GPIO 40[P2]	HOOK_DET_MSM	NULL
GPIO 41[P2]	OVP_FLAG_N	OVP_FLAG_N
GPIO 42[P2]	BT_SYS_RESET_N	SDC1_CARD_DET
GPIO 43[P2]	MSM_UART1DM_RFR_N	MSM_UART1_RFR_N
GPIO 44[P2]	MSM_UART1DM_CTS_N	MSM_UART1_CTS_N
GPIO 45[P2]	MSM_UART1DM_RXD	MSM_UART1_RXD
GPIO 46[P2]	MSM_UART1DM_TXD	MSM_UART1_TXD
GPIO 47[P2]	UIM1_MSM_CLK	UIM1_MSM_CLK
GPIO 48[P2]	CAP_TS_INT_N	CAP_TS_INT_N
GPIO 49[P2]	LCD_BACKLIGHT_EN	NULL
GPIO 50[P2]	UIM1_MSM_DATA	UIM1_MSM_DATA
GPIO 51[P3]	SDC1_CARD_D3	SDC1_CARD_D3
GPIO 52[P3]	SDC1_CARD_D2	SDC1_CARD_D2
GPIO 53[P3]	SDC1_CARD_D1	SDC1_CARD_D1
GPIO 54[P3]	SDC1_CARD_D0	SDC1_CARD_D0
GPIO 55[P3]	SDC1_CARD_CMD	SDC1_CARD_CMD
GPIO 56[P3]	SDC1_CARD_CLK	SDC1_CARD_CLK
GPIO 57[P2]	NULL	NULL
GPIO 58[P2]	NULL	NULL
GPIO 59[P2]	SSBI_RTR6285A	SSBI_RTR6285A
GPIO 60[P2]	I2C0_SCL	I2C0_SCL
GPIO 61[P2]	I2C0_SDA	I2C0_SDA
GPIO 62[P2]	SDC2_CLK	SDC2_CLK
GPIO 63[P2]	SDC2_CMD	SDC2_CMD
GPIO 64[P2]	SDC2_DATA3	SDC2_DATA3
GPIO 65[P2]	SDC2_DATA2	SDC2_DATA2
GPIO 66[P2]	SDC2_DATA1	SDC2_DATA1
GPIO 67[P2]	SDC2_DATA0	SDC2_DATA0
GPIO 68[P2]	AUX_PCM_DOUT	AUX_PCM_DOUT
GPIO 69[P2]	AUX_PCM_DIN	AUX_PCM_DIN
GPIO 70[P2]	AUX_PCM_SYNC	AUX_PCM_SYNC
GPIO 71[P2]	AUX_PCM_CLK	AUX_PCM_CLK
GPIO 72[P2]	ANT_SEL3	NULL
GPIO 73[P2]	ANT_SEL2	ANT_SEL2
GPIO 74[P2]	ANT_SEL1	ANT_SEL1
GPIO 75[P2]	ANT_SEL0	ANT_SEL0
GPIO 76[P2]	DTV_LNA_ON	NULL
GPIO 77[P2]	DTV_LNA_BYPASS	APT_BUCK_ENABLE

PIN	9778	QRD7227A
GPIO 78[P2]	DTV_I2V2_EN	NULL
GPIO 79[P2]	DTV_I2V8_EN	NULL
GPIO 80[P2]	GSM_PA_EN	GSM_PA_EN
GPIO 81[P2]	EXT_GPS_LNA_EN	EXT_GPS_LNA_EN
GPIO 82[P2]	AUDIO_PA_SHD	NULL
GPIO 83[P2]	FM_RDS_INT	FM_RDS_INT
GPIO 84[P2]	UIM2_MSM_CLK/TS_CLK	M2_MSM_CLK
GPIO 85[P2]	TS_VALID	BT_SYS_RESET_N
GPIO 86[P2]	TS_TDO	HS_DETECT_N
GPIO 87[P2]	UIM2_MSM_DATA/TS_SYNC	IM2_MSM_DATA
GPIO 88[P2]	SDC3_CLK	NULL
GPIO 89[P2]	SDC3_CMD	LCD_BACKLIGHT_ON
GPIO 90[P2]	SDC3_DATA3	LCD_RESET_N
GPIO 91[P2]	SDC3_DATA2	CAM_0_3MP_PWDN
GPIO 92[P2]	SDC3_DATA1	WLAN_EN
GPIO 93[P2]	SDC3_DATA0	CAM_5MP_SHDN_N
GPIO 94[P2]	NULL	NULL
GPIO 95[P2]	BOOT_SCUR	BOOT_SCUR
GPIO 96[P2]	I2C_DTV_SCL	FLASH_EN
GPIO 97[P2]	I2C_DTV_SDA	NULL
GPIO 98[P2]	NULL	NULL
GPIO 99[P2]	NULL	NULL
GPIO 100[P2]	NULL	NULL
GPIO 101[P2]	NULL	NULL
GPIO 102[P2]	NULL	NULL
GPIO 103[P2]	NULL	NULL
GPIO 104[P2]	NULL	NULL
GPIO 105[P2]	NULL	NULL
GPIO 106[P2]	NULL	NULL
GPIO 107[P2]	CAM_0_3M_PWDN	LED_BLUE_EN
GPIO 108[P2]	SDC3_DATA4	LED_RED_EN
GPIO 109[P2]	WLAN_EN	LED_GREEN_EN
GPIO 110[P2]	PA_ON_2	NULL
GPIO 111[P2]	LCDC_GREEN_1	LCDC_GREEN_1
GPIO 112[P2]	LCDC_GREEN_0	LCDC_GREEN_0
GPIO 113[P2]	NULL	NULL
GPIO 114[P2]	NULL	NULL
GPIO 115[P2]	LCDC_BLUE_5	LCDC_BLUE_5
GPIO 116[P2]	LCDC_BLUE_4	LCDC_BLUE_4
GPIO 117[P2]	LCDC_BLUE_3	LCDC_BLUE_3
GPIO 118[P2]	LCDC_BLUE_2	LCDC_BLUE_2
GPIO 119[P2]	LCDC_GREEN_4	LCDC_GREEN_4
GPIO 120[P2]	LCDC_GREEN_3	LCDC_GREEN_3
GPIO 121[P2]	LCDC_GREEN_2	LCDC_GREEN_2
GPIO 122[P2]	UART1_RX	NULL
GPIO 123[P2]	UART1_TX	NULL
GPIO 124[P2]	WIFI_CHIP_PWD_L	WIFI_CHIP_PWD_L
GPIO 125[P2]	LCDC_BLUE_1	LCDC_BLUE_1
GPIO 126[P2]	LCDC_BLUE_0	LCDC_BLUE_0
GPIO 127[P2]	LCDC_VSYNC	LCDC_VSYNC
GPIO 128[P2]	LCDC_HSYNC	LCDC_HSYNC
GPIO 129[P2]	LCDC_DEN	LCDC_DEN
GPIO 130[P2]	LCDC_GREEN_5	LCDC_GREEN_5
GPIO 131[P2]	I2C1_SCL	I2C1_SCL
GPIO 132[P2]	I2C1_SDA	I2C1_SDA

NOTE:
P1 Pad group 1; tied to VDD_P1 (1.8 V)
P2 Pad group 2; tied to VDD_P2 (1.8 V)
P3 Pad group 3; tied to VDD_P3 (2.85 V)
P4 Pad group 4 (internal circuits); tied to VDD_P4 (1.8 V)

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NOTE:

1. MIPI internal regulator is set to Switing mode by default;
For LDO mode install 0 ohm instead of 2.2uH inductor;
2. MIPI signals should be routed as differential pair of 100 ohm impedenc;

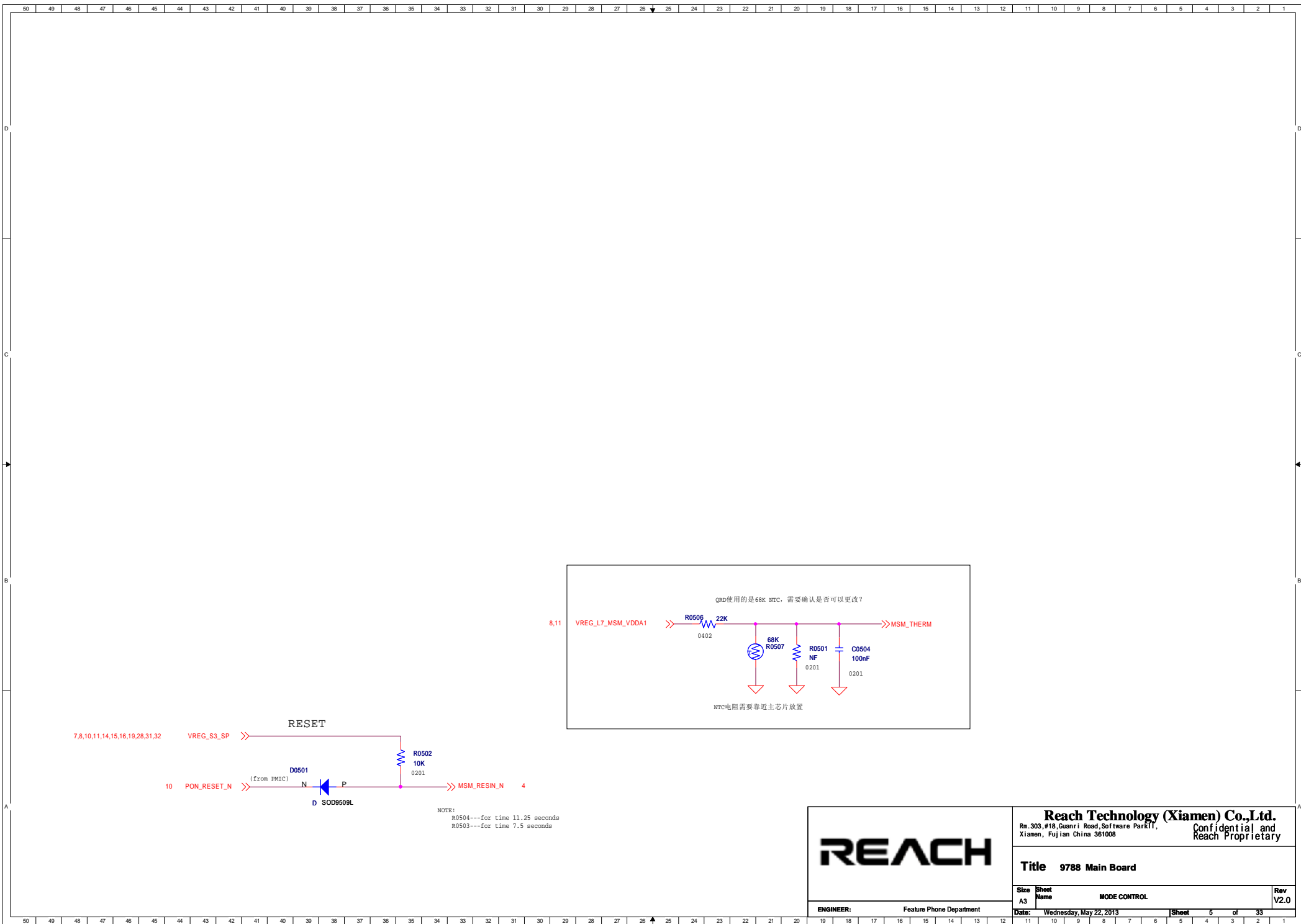
ARM9 MODE[3:0]	MSM OPERATING MODE
0 0 0 0	ARM9 ON P_JTAG; ARM CORTEX A5 ON A_JTAG
0 0 0 1	ARM9 + ARM CORTEX A5 daisy chan on P_JTAG

P_JTAG= Primary JTAG port; A_JTAG=Auxilliary JTAG port

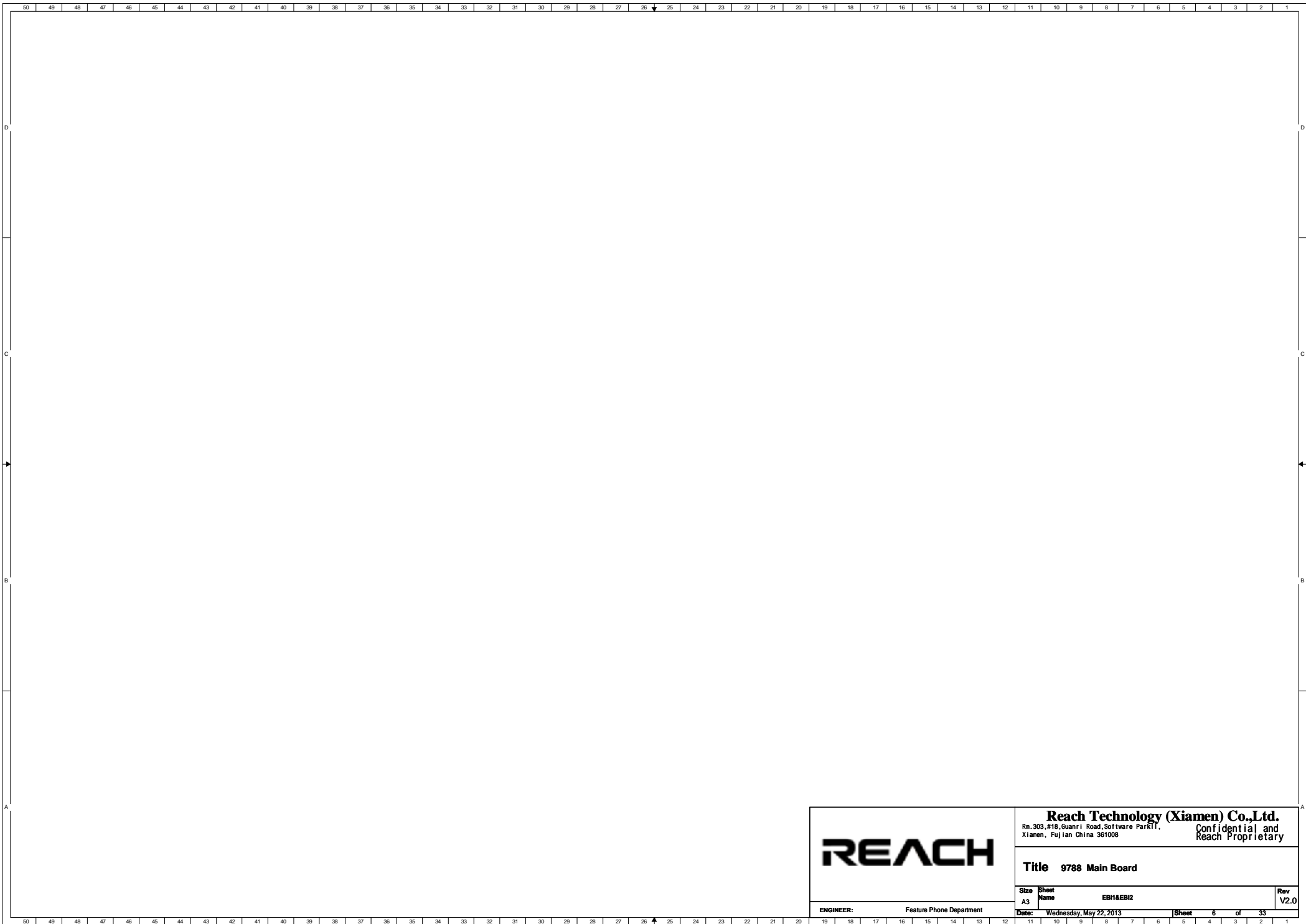
NOTE:


- 1.MODE【3: 0】 Pins have intenal PULL Down;

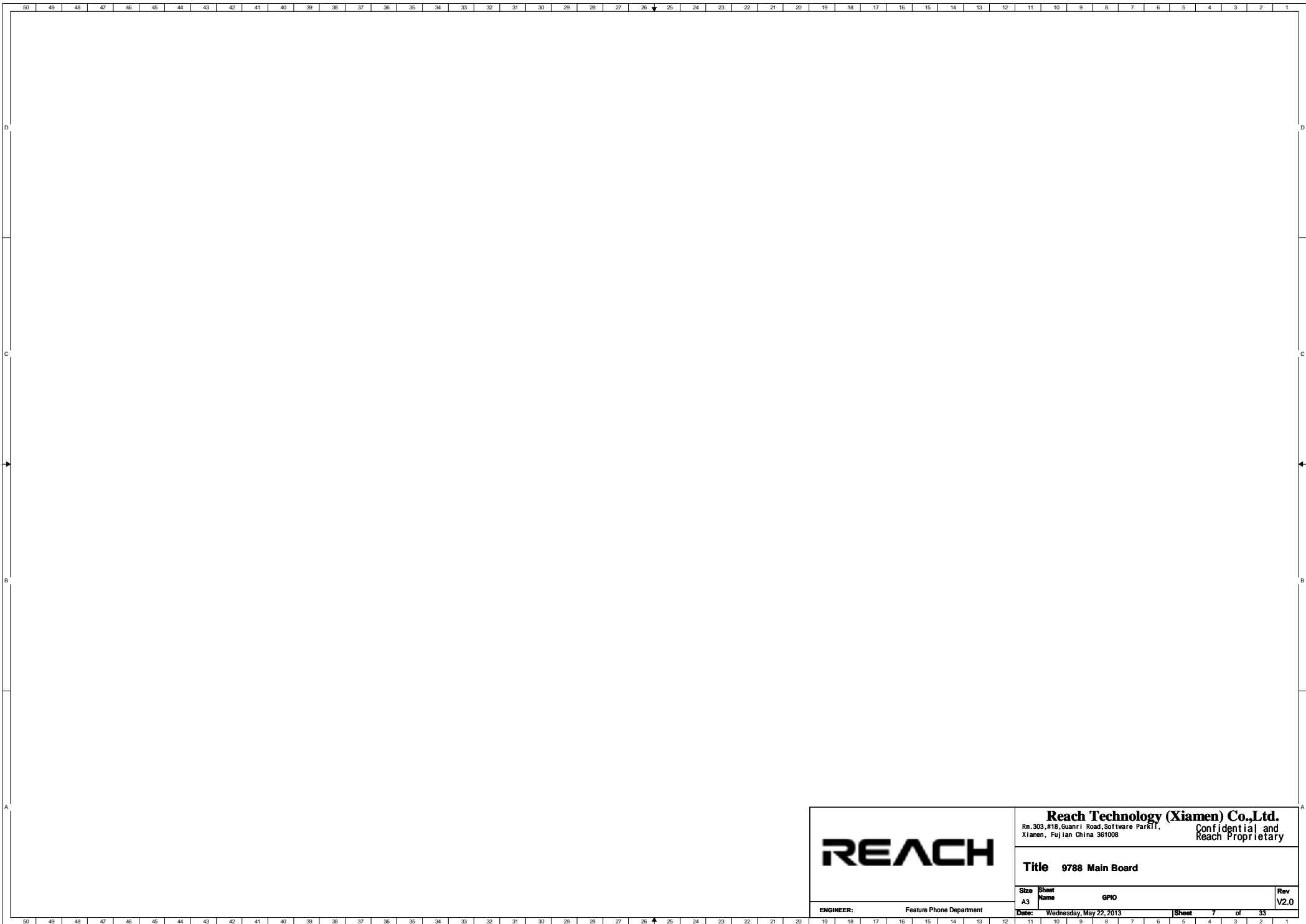
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ENGINEER: Feature Phone Department	Size A3	Sheet Name MSM7277A CONTROL	Rev V2.0
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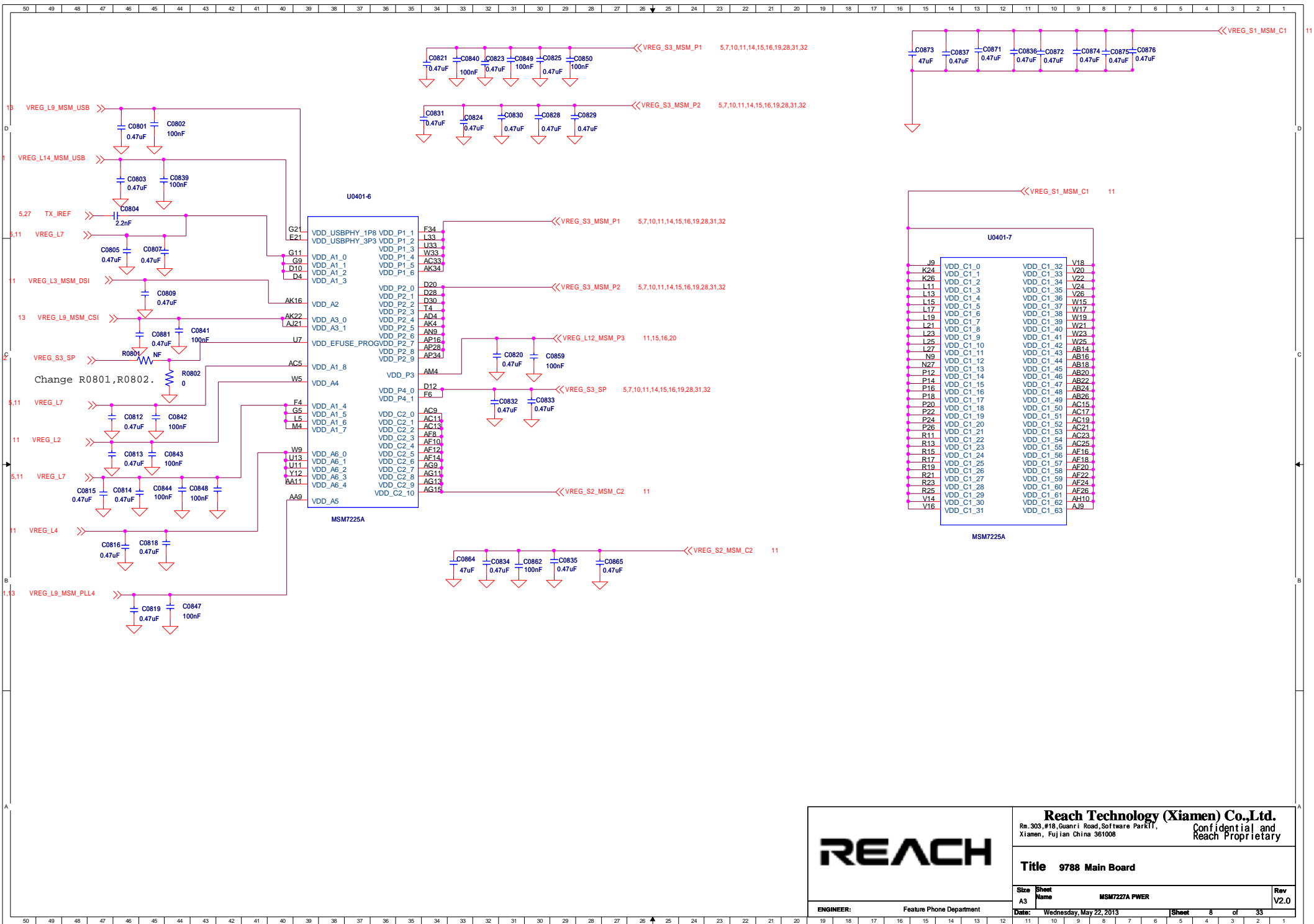
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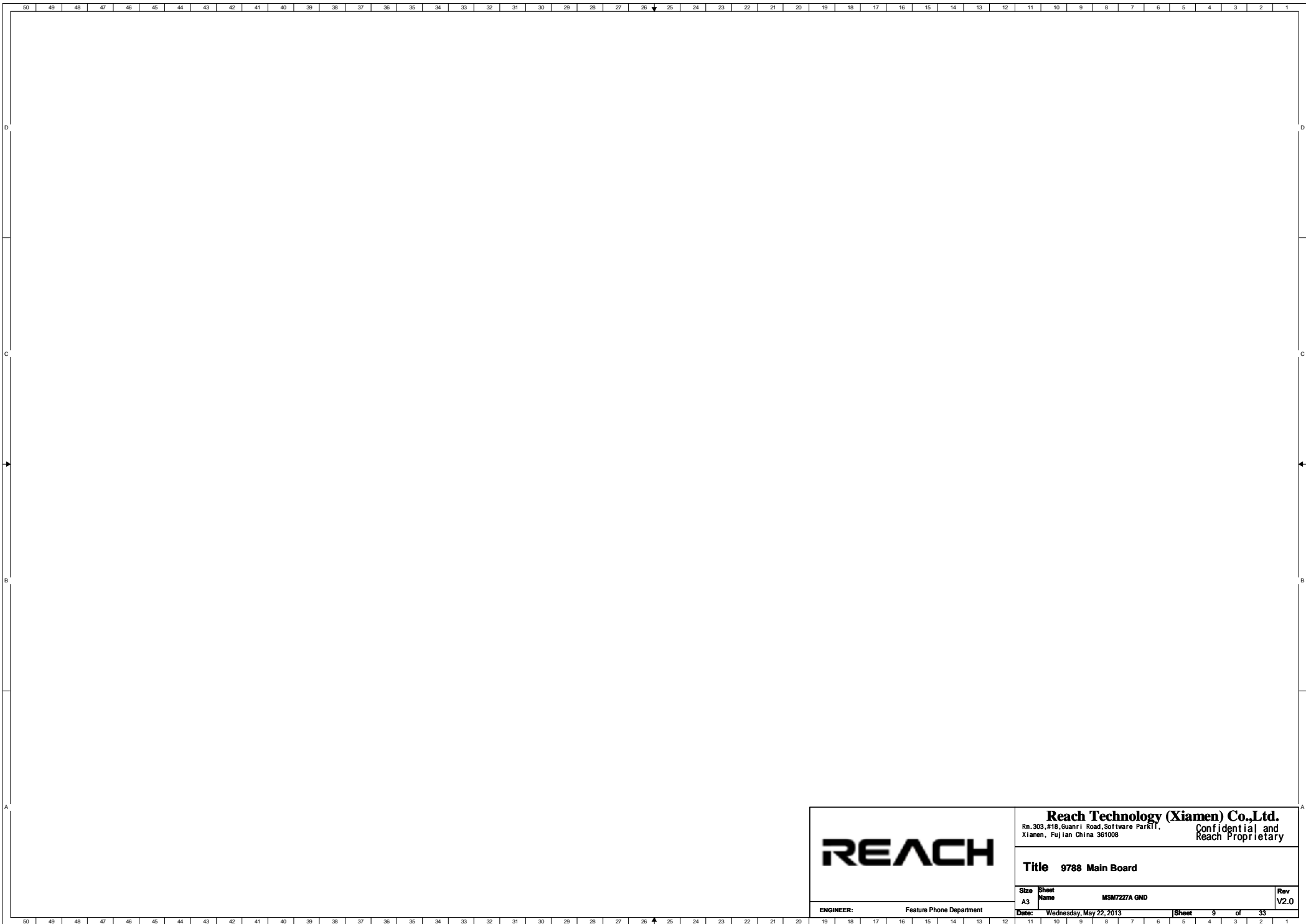
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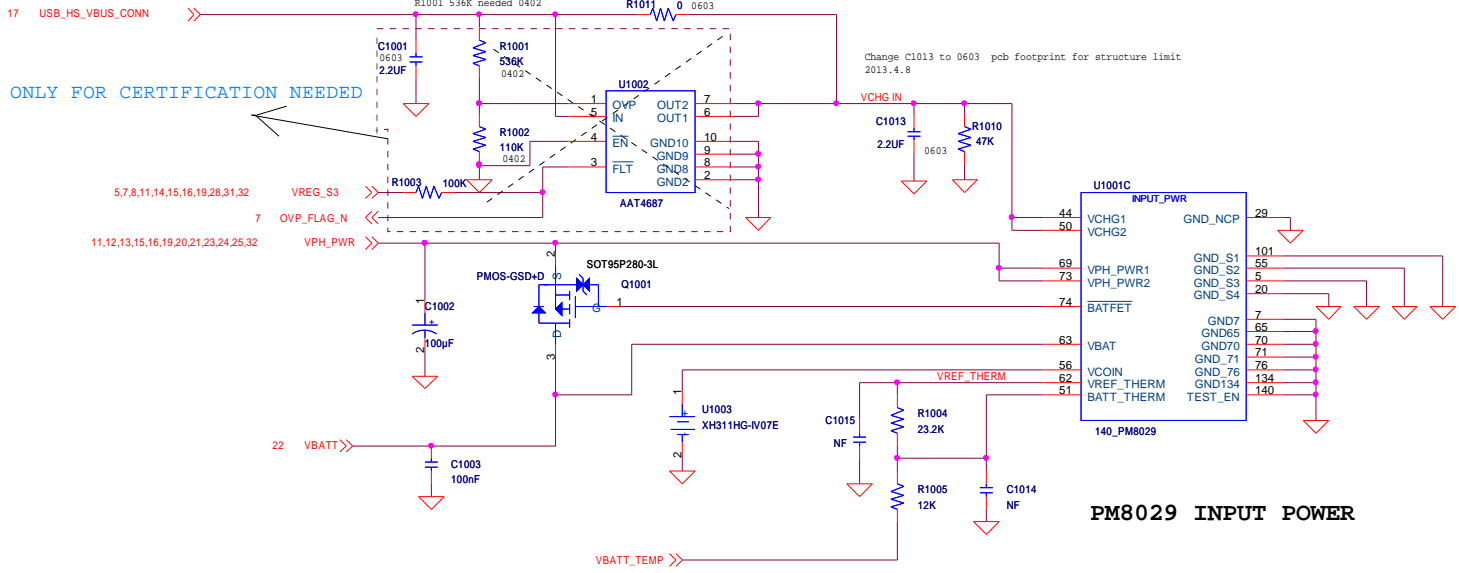


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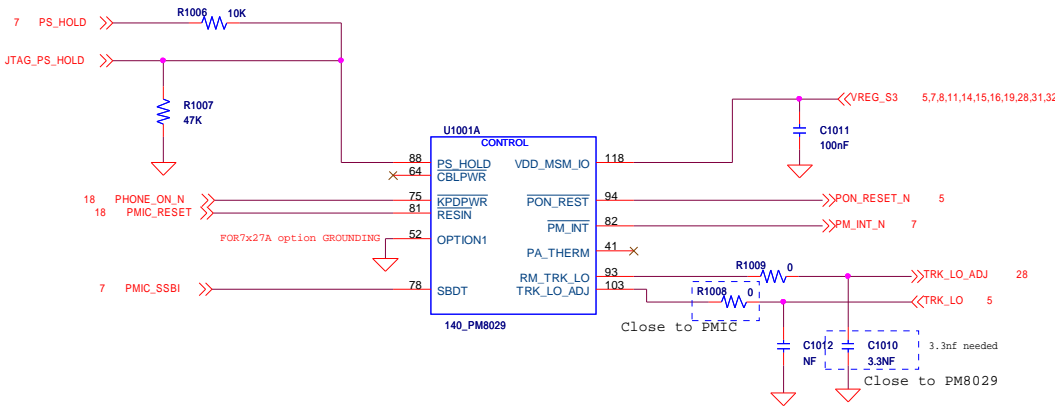


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Size A3	Sheet Name MSM7227A GND	Rev V2.0		
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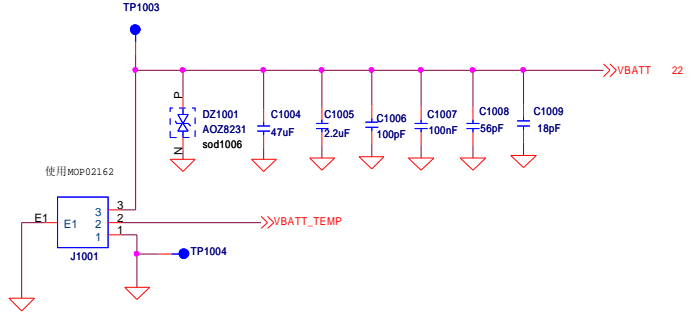
ONLY FOR CERTIFICATION NEEDED



PM8029 INPUT POWER



PM8029 CONTROL



BATTERY CONNECTOR

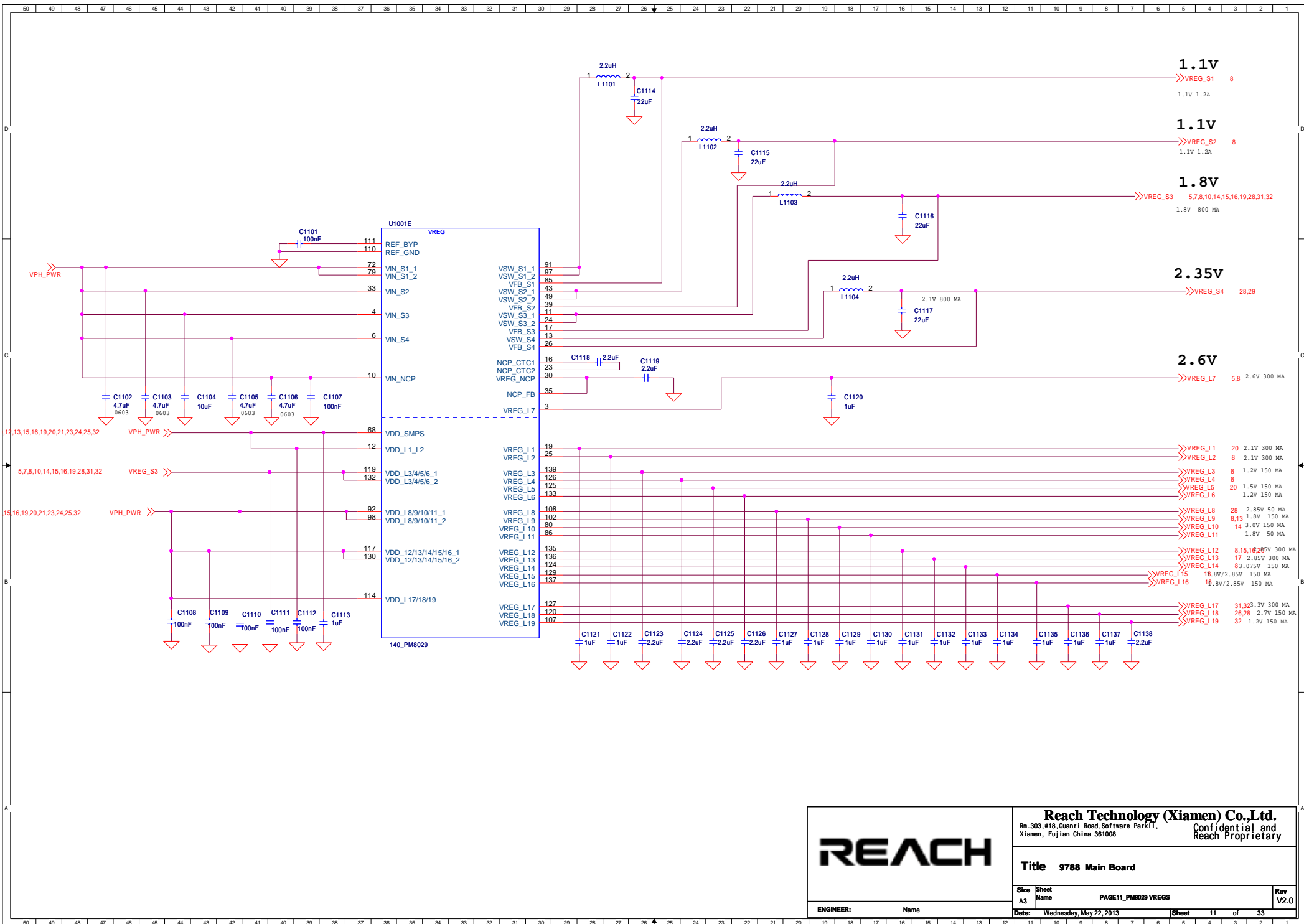


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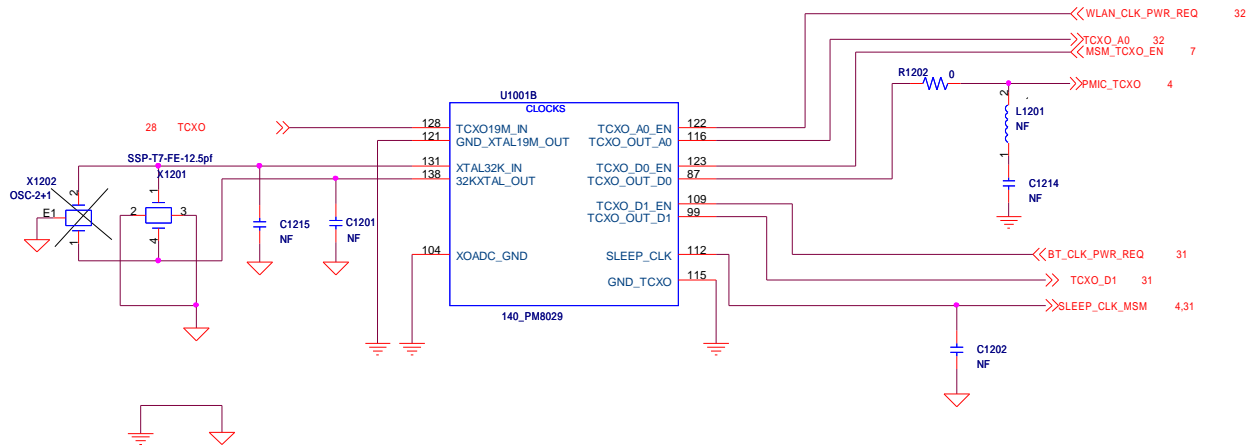
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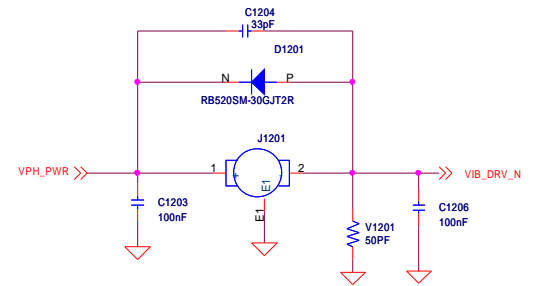


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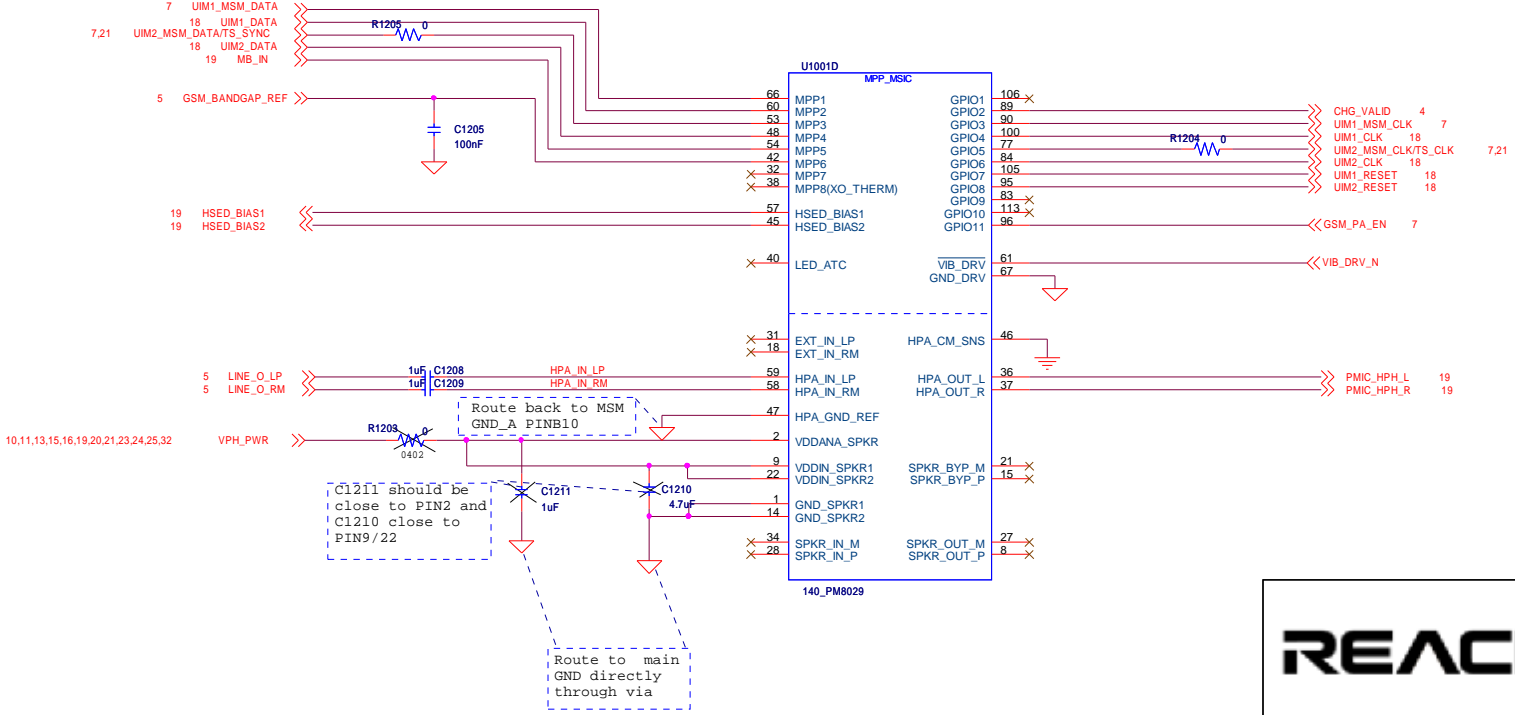
PM8029 CLOCKS



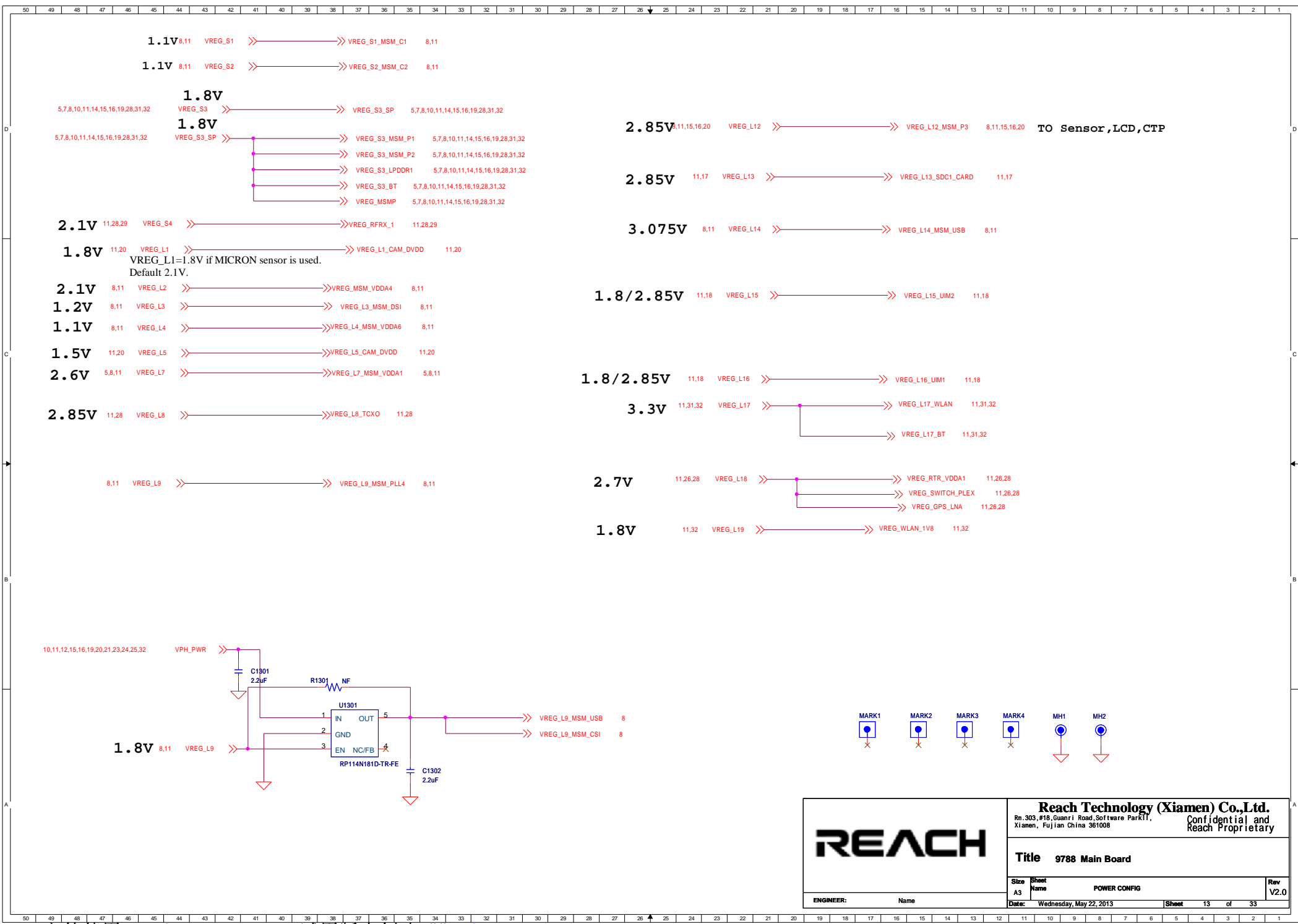
VIBRATOR



PM8029 GPIOs AND MPPs



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2.85V 8,11,15,16,20 VREG_L12 >>> VREG_L12_MSM_P3 8,11,15,16,20 TO Sensor, LCD, CTP

2.85V 11,17 VREG_L13 >>> VREG_L13_SDC1_CARD 11,17

3.075V 8,11 VREG_L14 >>> VREG_L14_MSM_USB 8,11

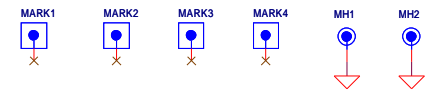
1.8/2.85V 11,18 VREG_L15 >>> VREG_L15_UIM2 11,18

1.8/2.85V 11,18 VREG_L16 >>> VREG_L16_UIM1 11,18

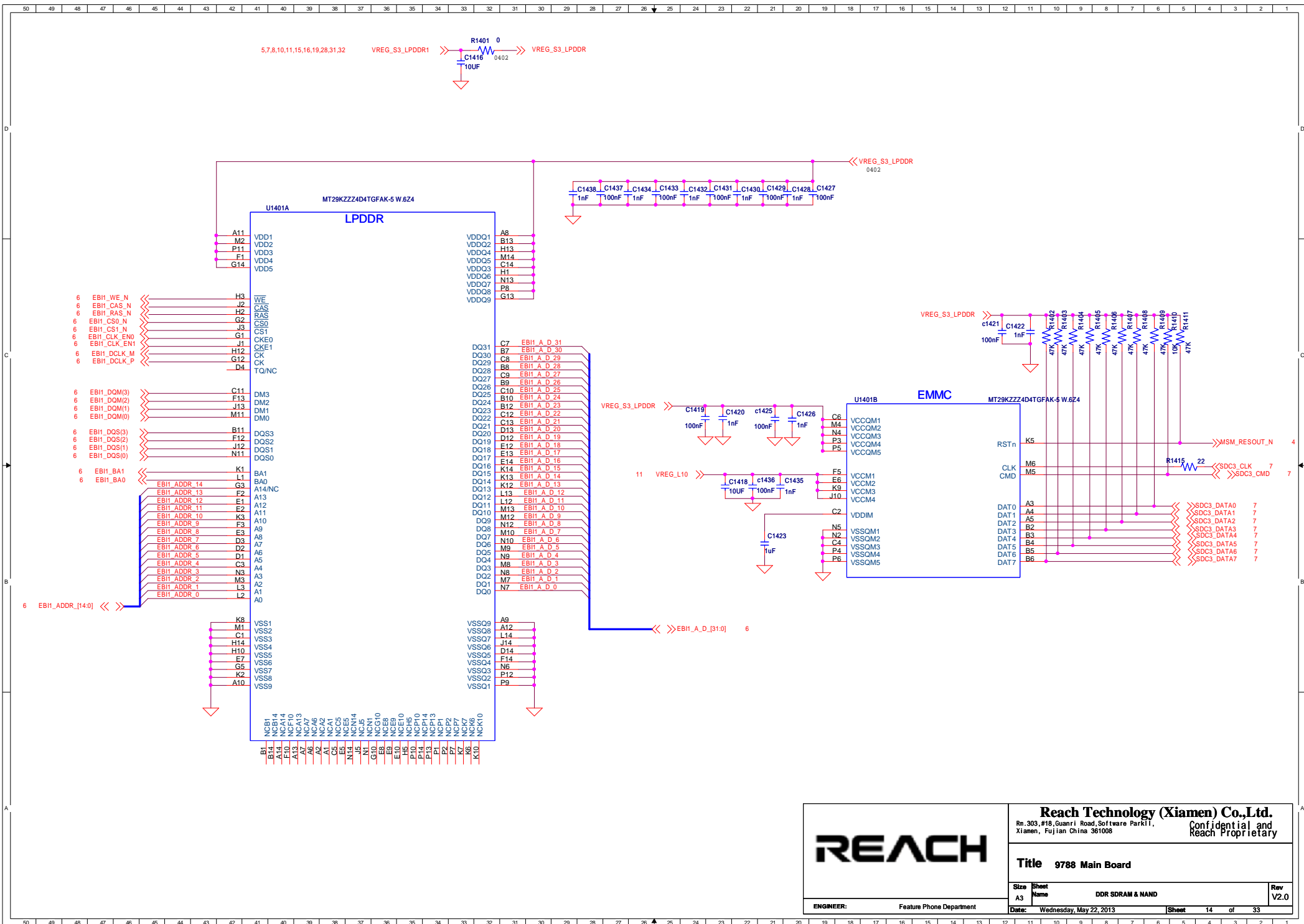
3.3V 11,31,32 VREG_L17 >>> VREG_L17_WLAN 11,31,32
 >>> VREG_L17_BT 11,31,32

2.7V 11,26,28 VREG_L18 >>> VREG_RTR_VDDA1 11,26,28
 >>> VREG_SWITCH_PLEX 11,26,28
 >>> VREG_GPS_LNA 11,26,28

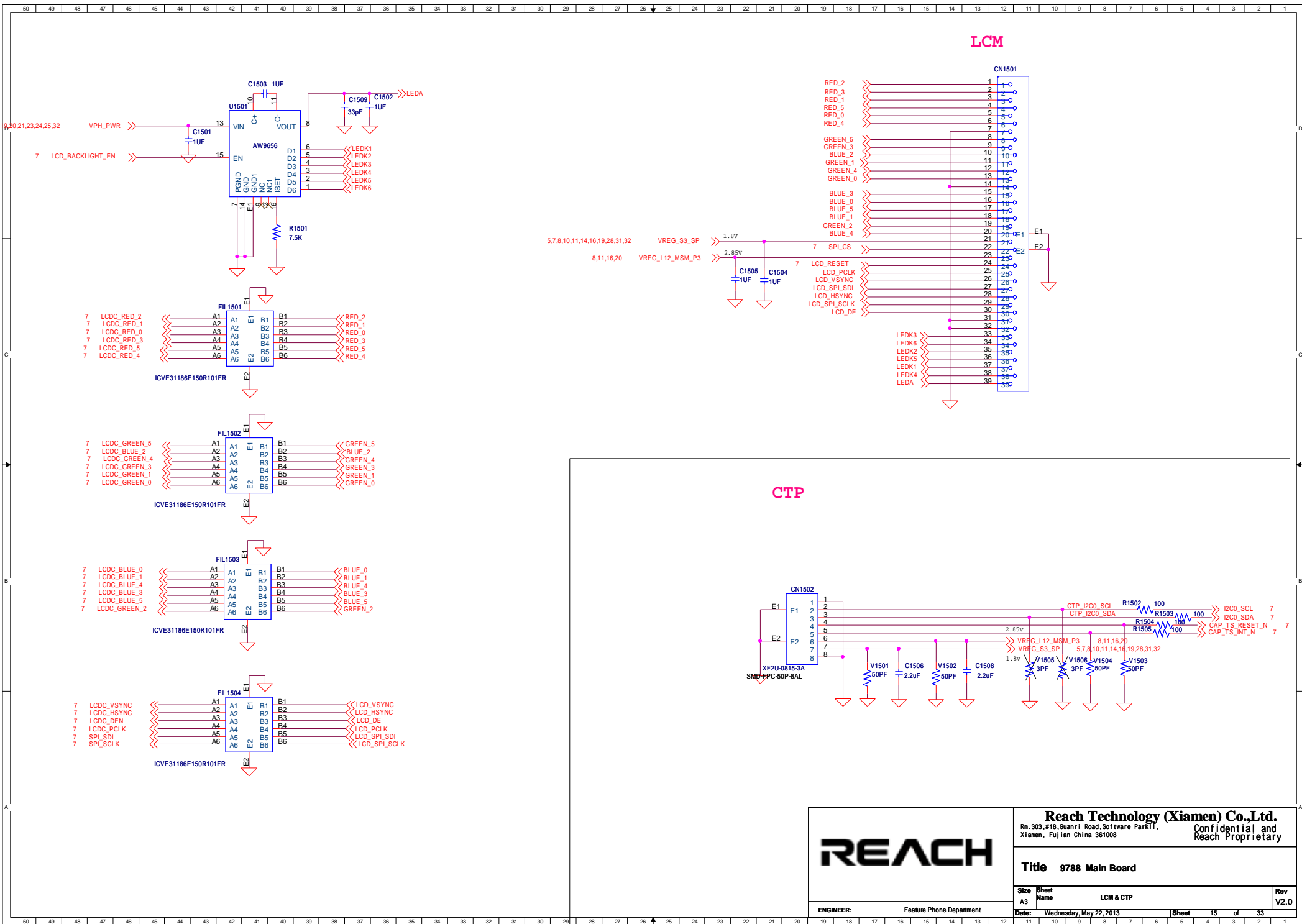
1.8V 11,32 VREG_L19 >>> VREG_WLAN_1V8 11,32



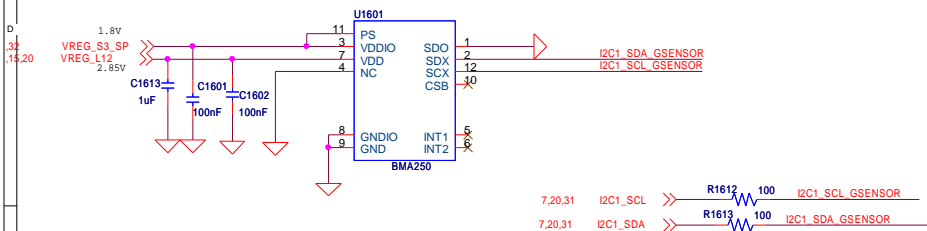
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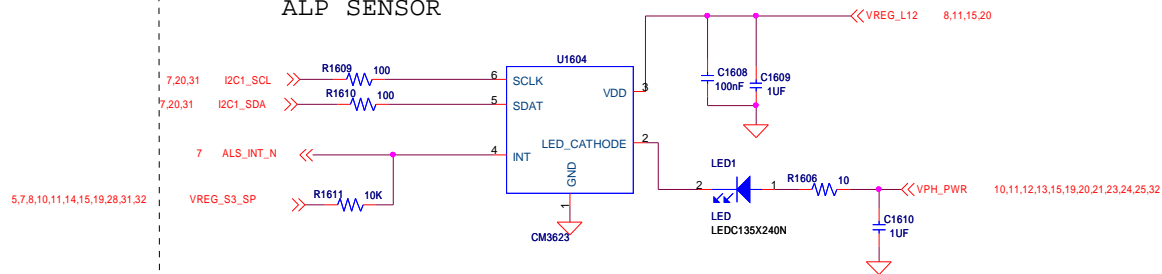


G_SENSOR



BMA255 IIC ADDRESS: 0X19
BMA250 IIC ADDRESS: 0X18

ALP SENSOR



Ordering Part Number	SLAVE ADDRESS		OPERATION
	CM3623A30P	CM3623A30P-AD	
ALS	0x20	0x90	Write Command to CM3623
	0x21	0x91	Read MSB 8 bits of CM3623 ambient light data
	0x23	0x93	Read LSB 8 bits of CM3623 ambient light data
PS	0xB0/0xB2	0xF0/0xF2	Write Command to CM3623
	0xB1	0xF1	Read 8 bits of CM3623 proximity data
Initialization Address	0x22	0x92	CM3623 initialization usage

REACH

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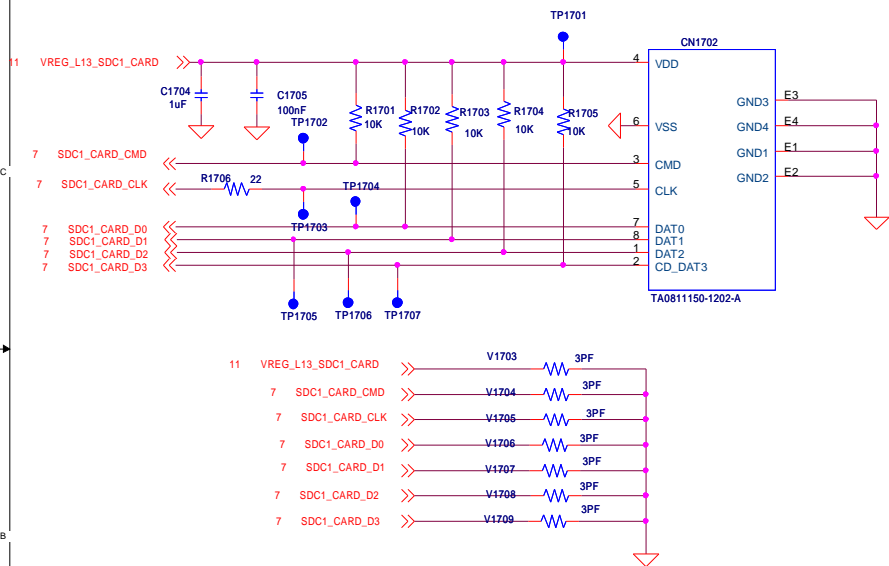
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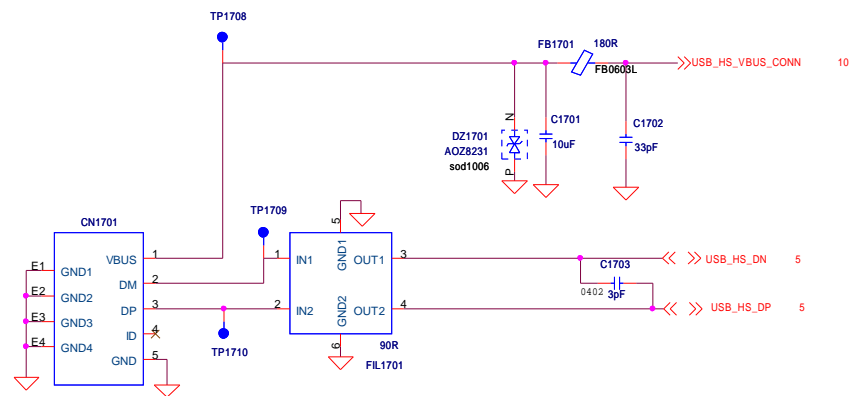
Size A3	Sheet Name SENSOR	Rev V2.0
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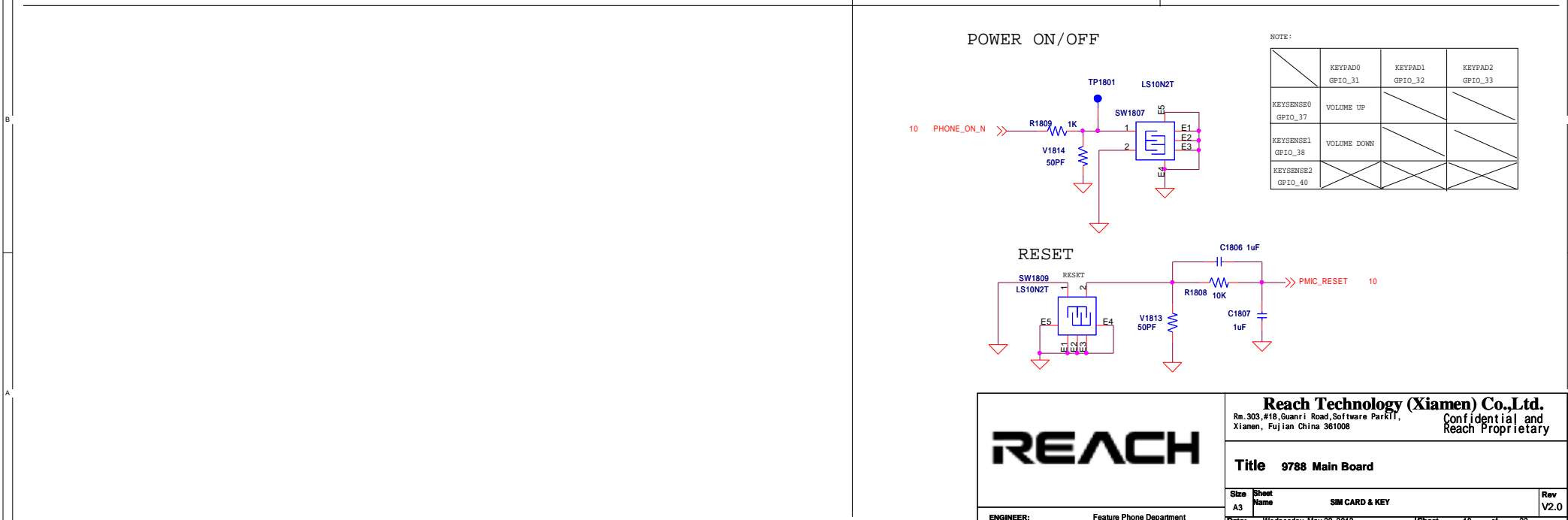
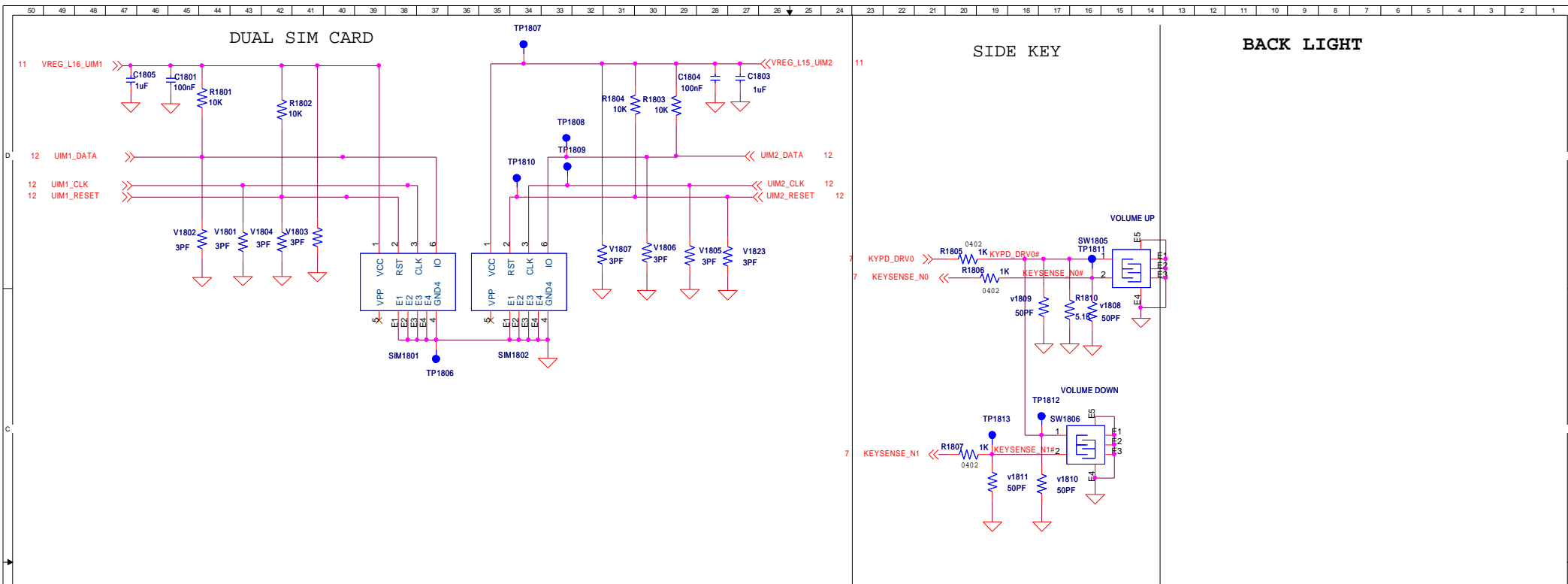
SD_CARD



HS USB



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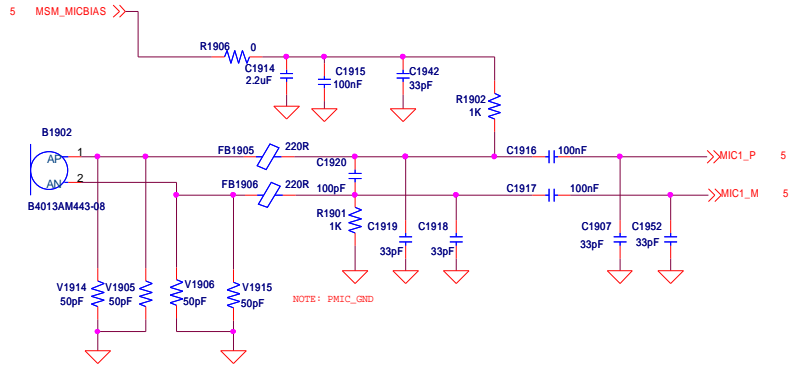
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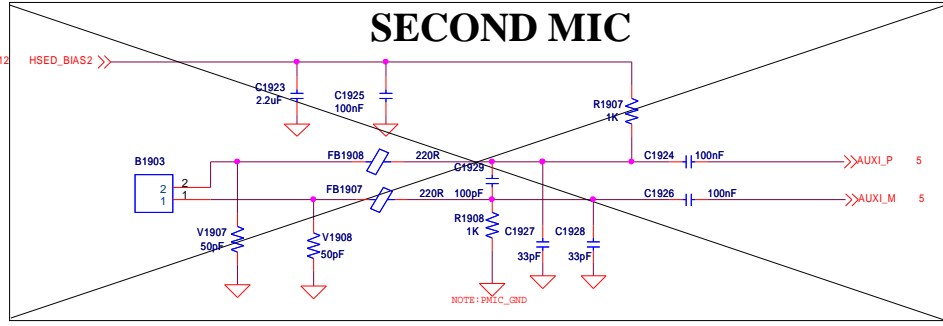
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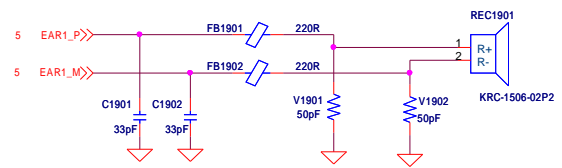
Main MIC



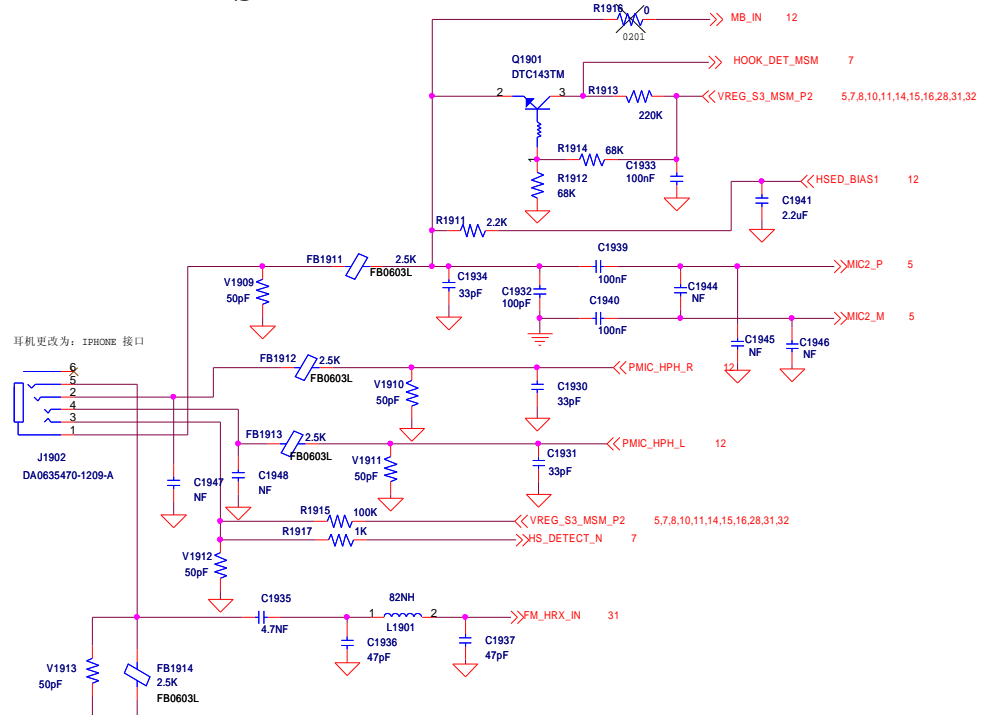
SECOND MIC



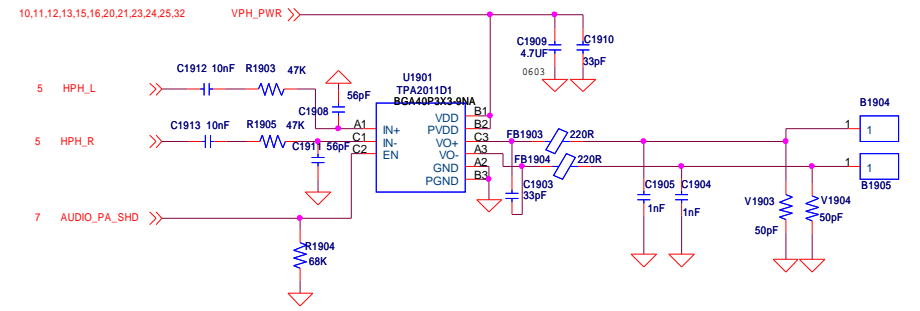
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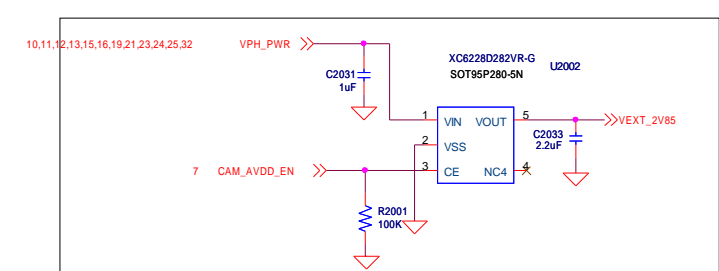
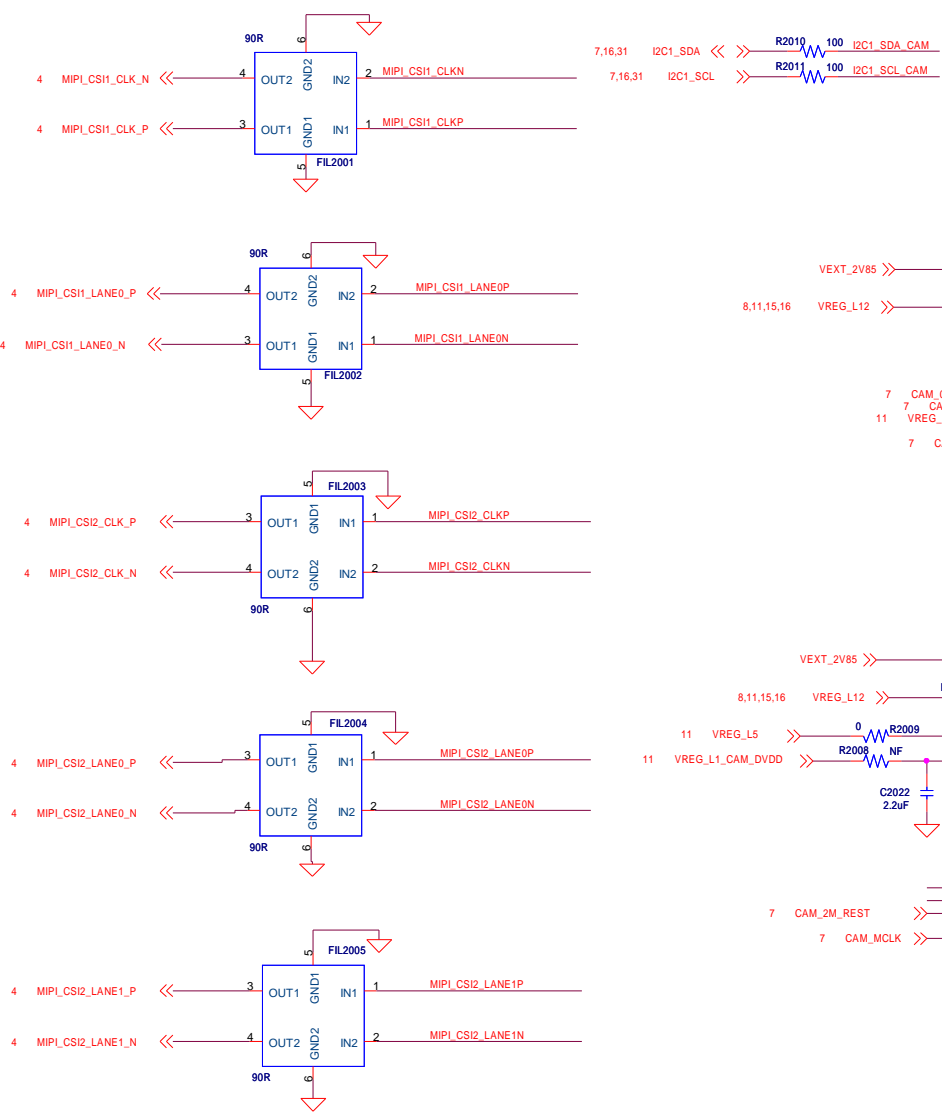
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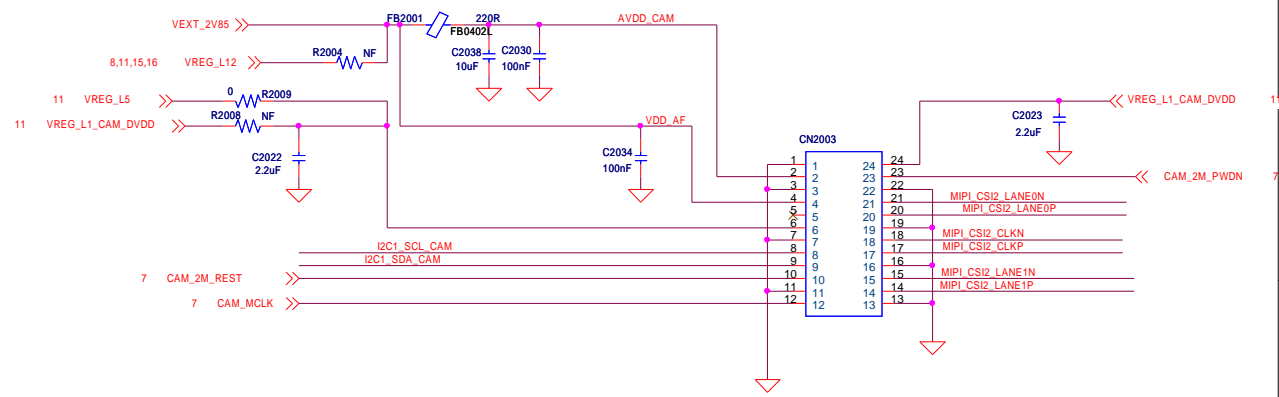
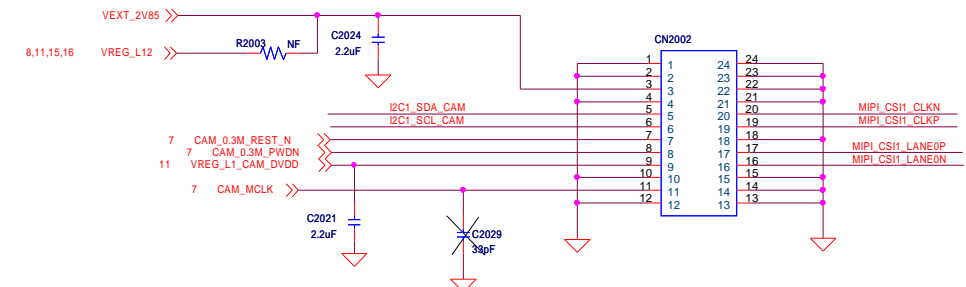
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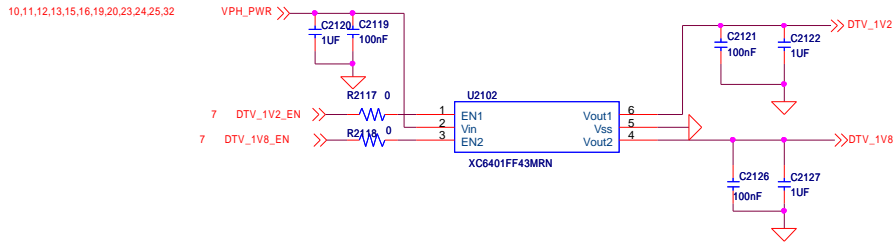
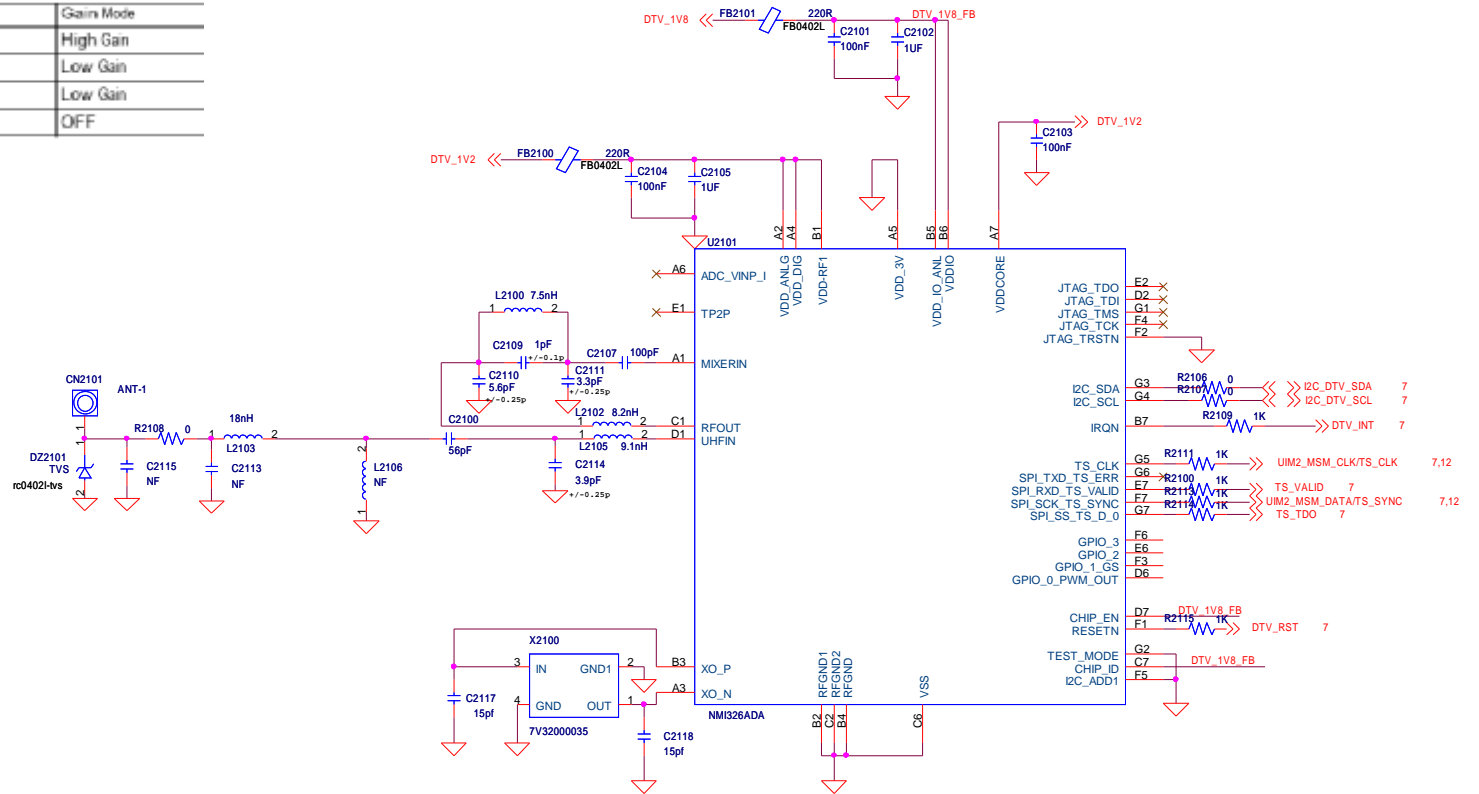
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 read: 0x79
 write: 0x78



3.2M CAMERA IIC ADDRESS:
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 Write ADD: 0x78

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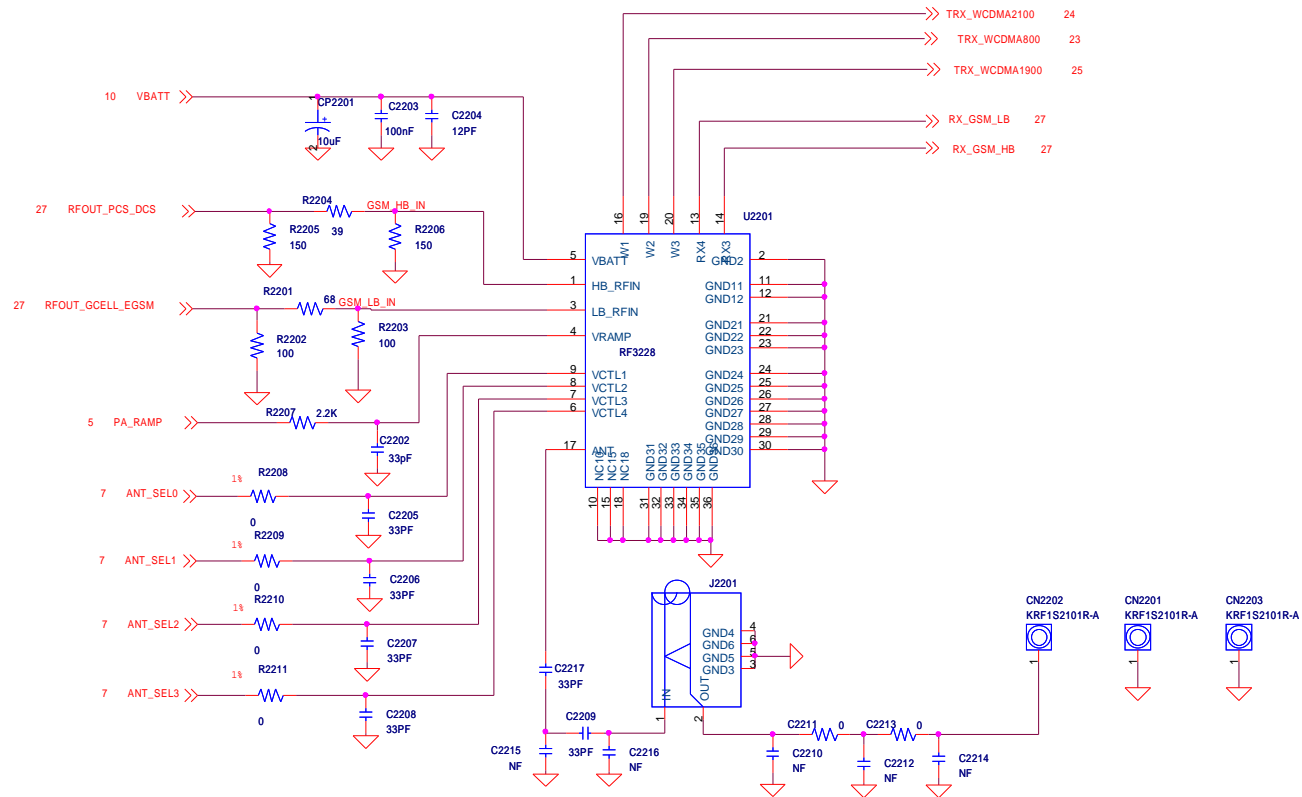
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High	Low	High Gain
High	High	Low Gain
Low	High	Low Gain
Low	Low	OFF




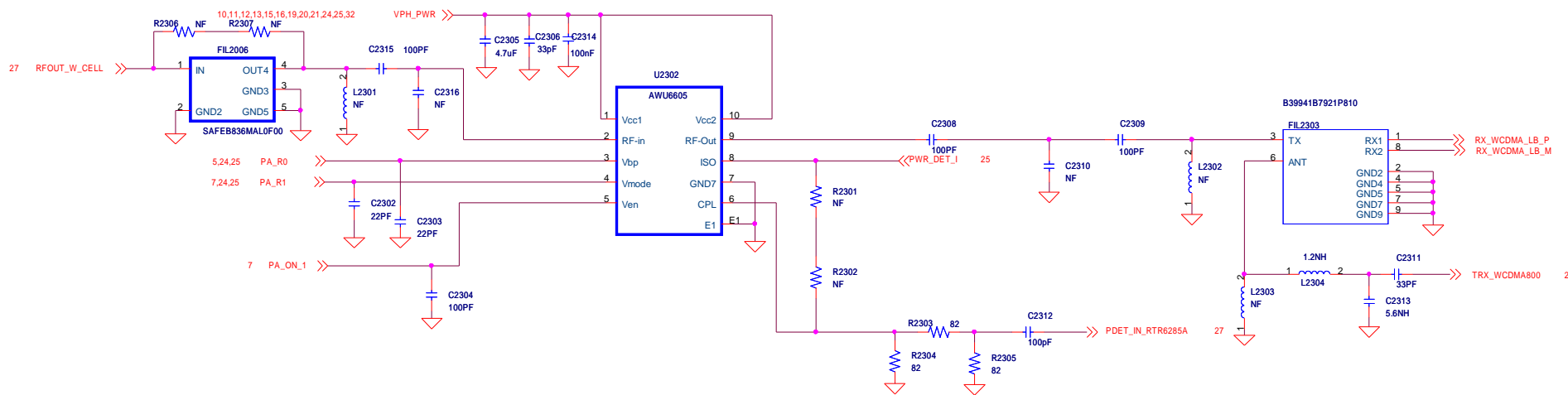
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Size	Sheet	Rev	
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GSM Quad-band PA & Antenna

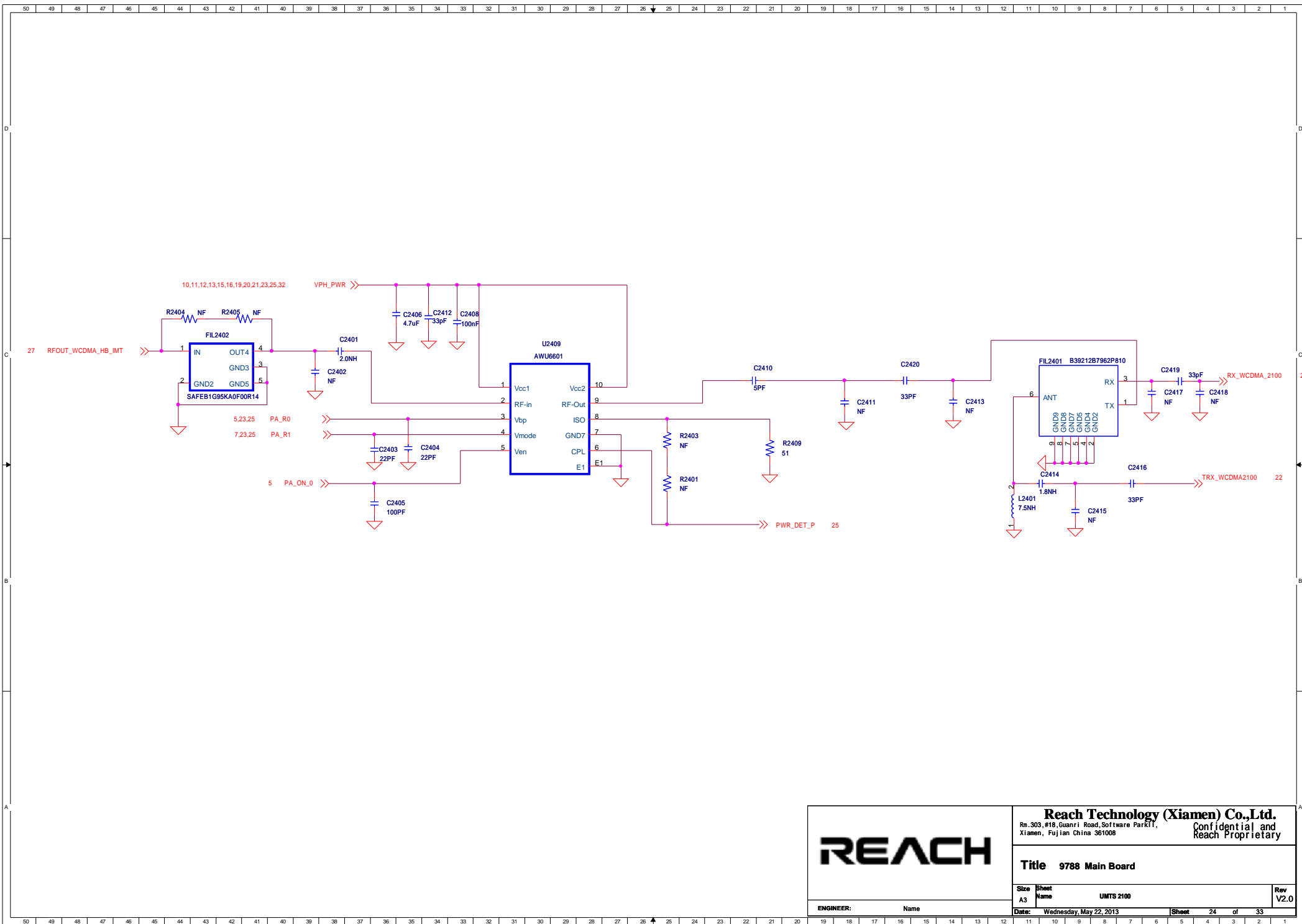


	Reach Technology (Xiamen) Co., Ltd. Rm. 303, #18, Guanri Road, Software Park II, Xiamen, Fujian China 361008		Confidential and Reach Proprietary
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Size A3 Sheet Name GSM TX MODULE&ANT SWITCHPLEXER ENGINEER: _____ Name _____	Date: Wednesday, May 22, 2013 Sheet 22 of 33	Rev V2.0	



PA state	PA_ON	
OFF	L	
ON	H	
POWER MODE	PA_R0	PA_R1
LOW POWER	H	H
MEDIUM POWER	L	H
HIGH POWER	L	L

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ENGINEER: _____ Name	Size A3	Sheet Name UMTS850	Rev V2.0
Date: Wednesday, May 22, 2013		Sheet 23 of 33	

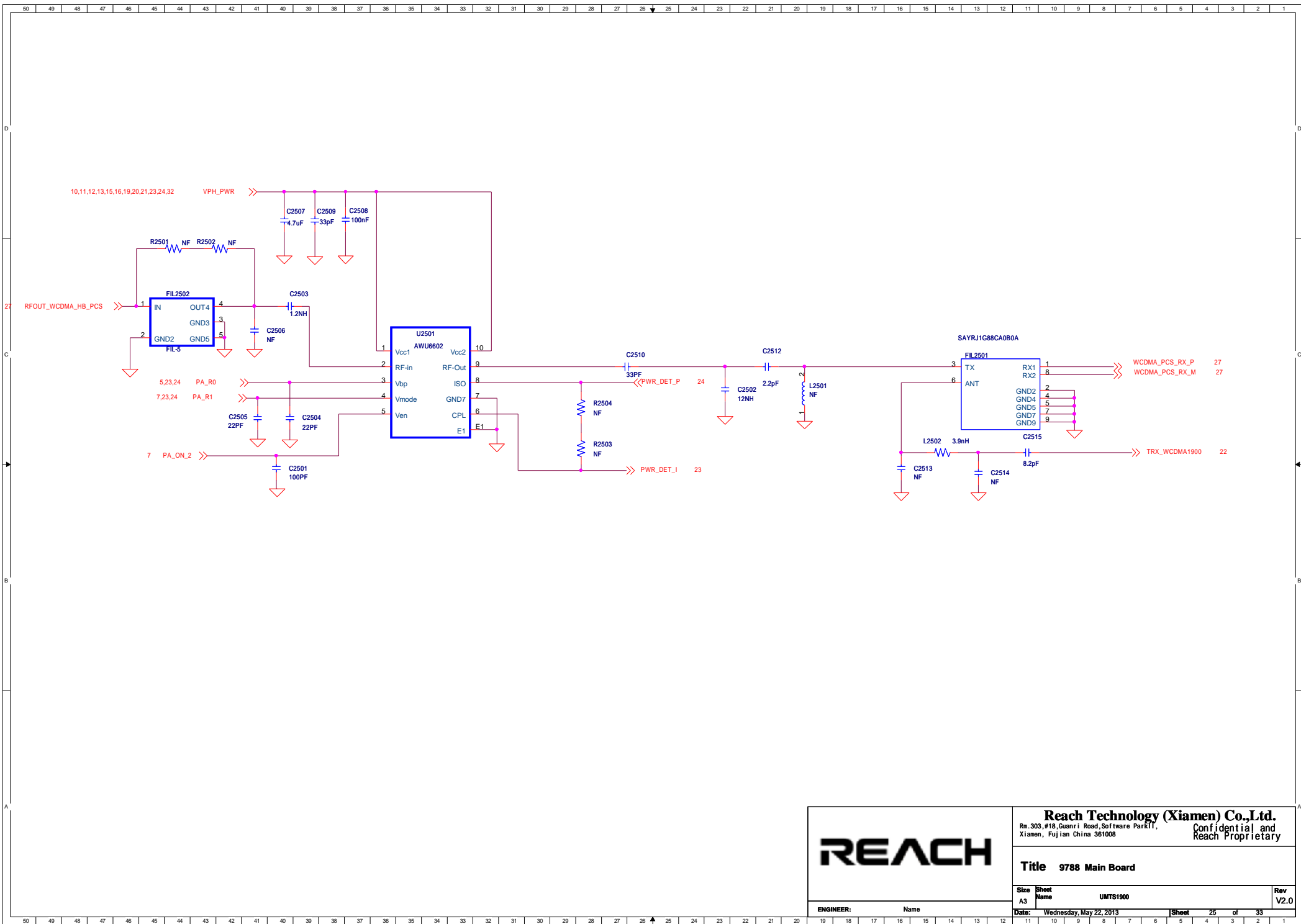


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Size A3	Sheet Name UMTS 2100	Rev V2.0
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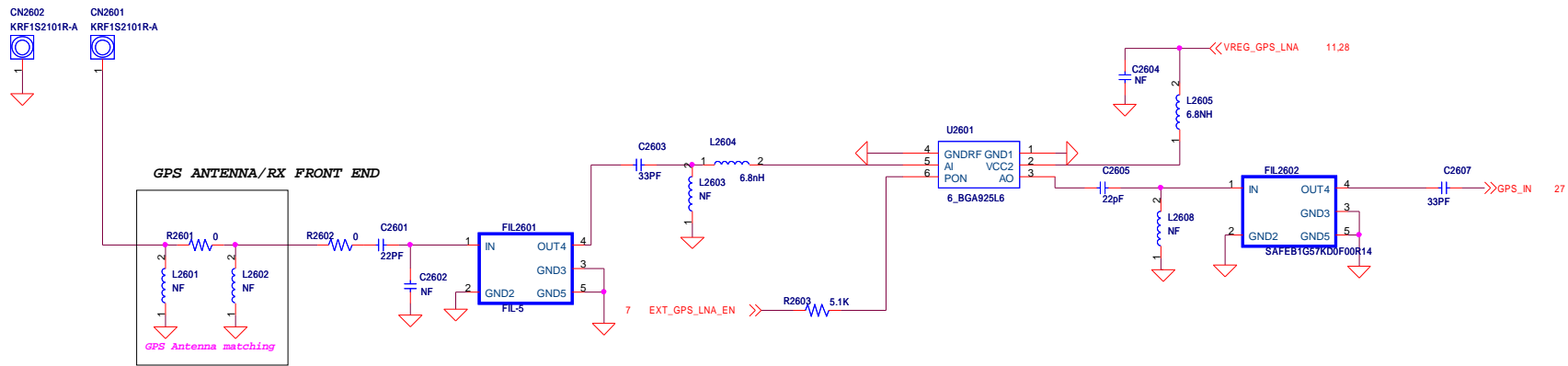



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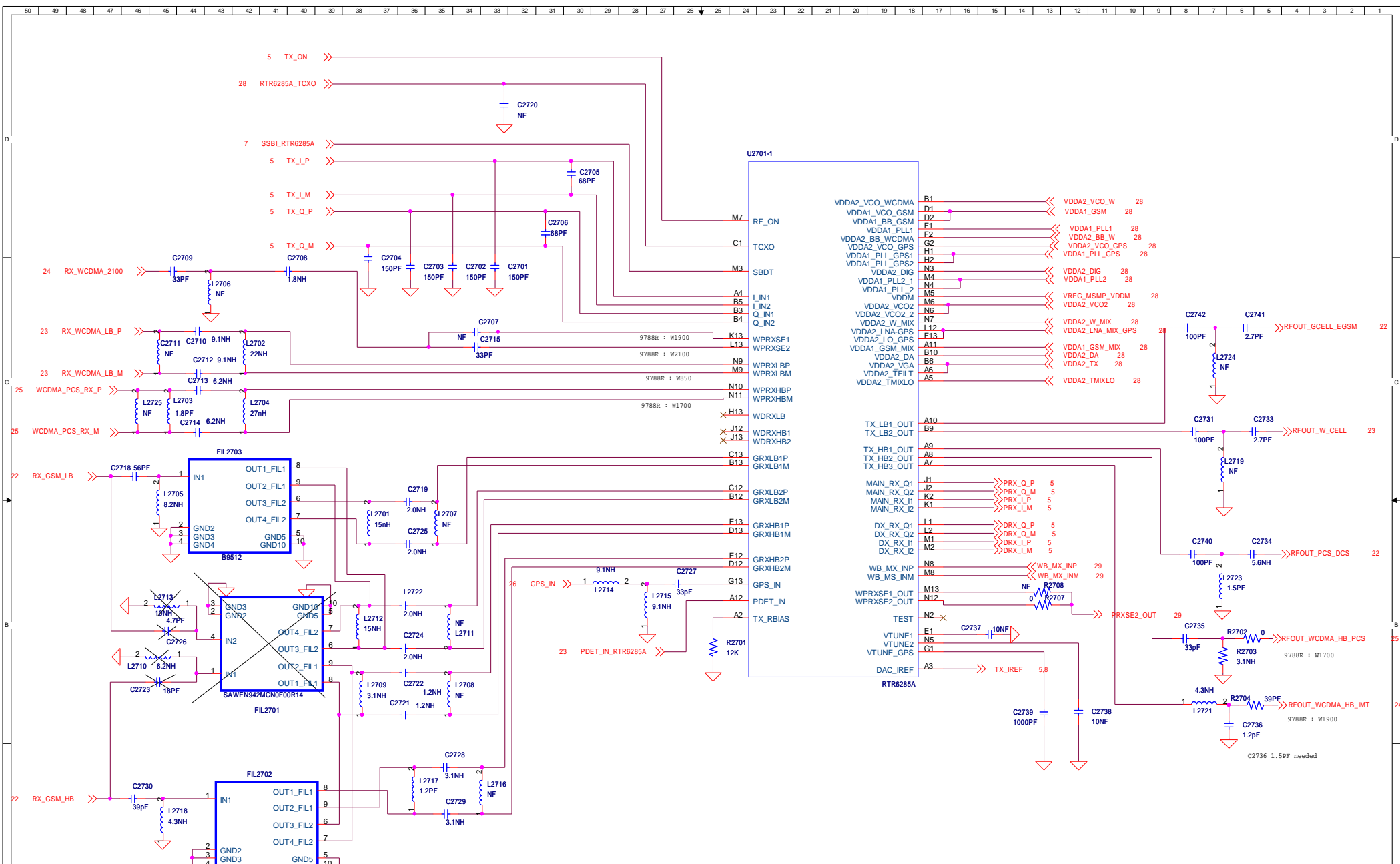
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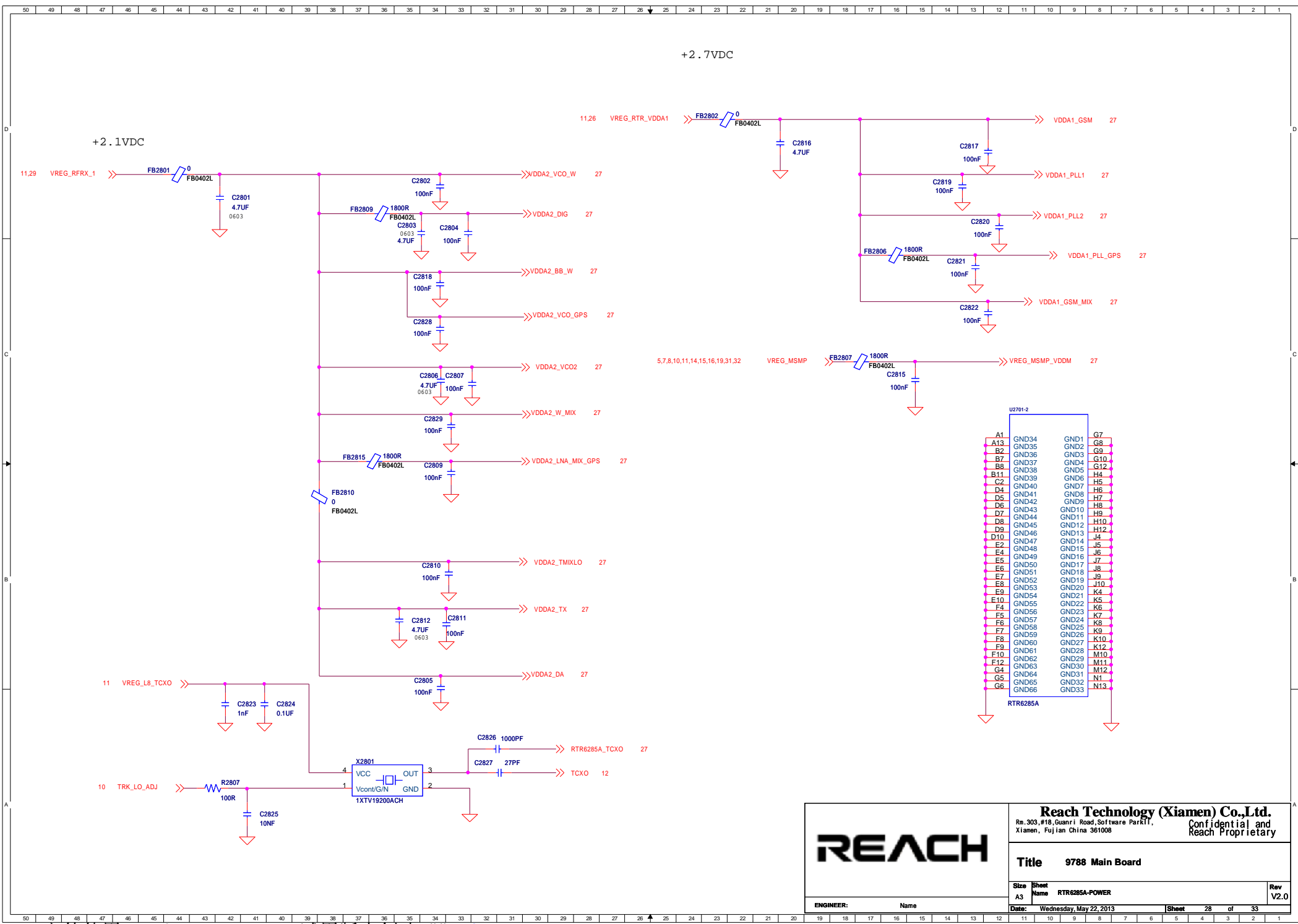
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Size A3	Sheet Name GPS-RF	Rev V2.0	
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U2701-2

A1	GND34	GND1	G7
A13	GND35	GND2	G8
B2	GND36	GND3	G9
B7	GND37	GND4	G10
B8	GND38	GND5	G11
B11	GND39	GND6	H4
C2	GND40	GND7	H5
D4	GND41	GND8	H6
D5	GND42	GND9	H7
D7	GND43	GND10	H8
D8	GND44	GND11	H9
D9	GND45	GND12	H10
D10	GND46	GND13	H11
E2	GND47	GND14	J4
E4	GND48	GND15	J5
E5	GND49	GND16	J6
E6	GND50	GND17	J7
E7	GND51	GND18	J8
E8	GND52	GND19	J9
E9	GND53	GND20	J10
E10	GND54	GND21	K4
F4	GND55	GND22	K5
F5	GND56	GND23	K6
F6	GND57	GND24	K7
F7	GND58	GND25	K8
F8	GND59	GND26	K9
F9	GND60	GND27	K10
F10	GND61	GND28	K11
F11	GND62	GND29	K12
G4	GND63	GND30	M10
G5	GND64	GND31	M11
G6	GND65	GND32	M12
	GND66	GND33	N1
			N13

RTR6285A

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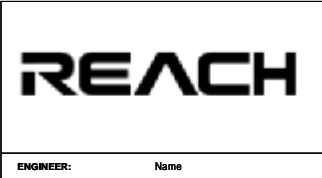
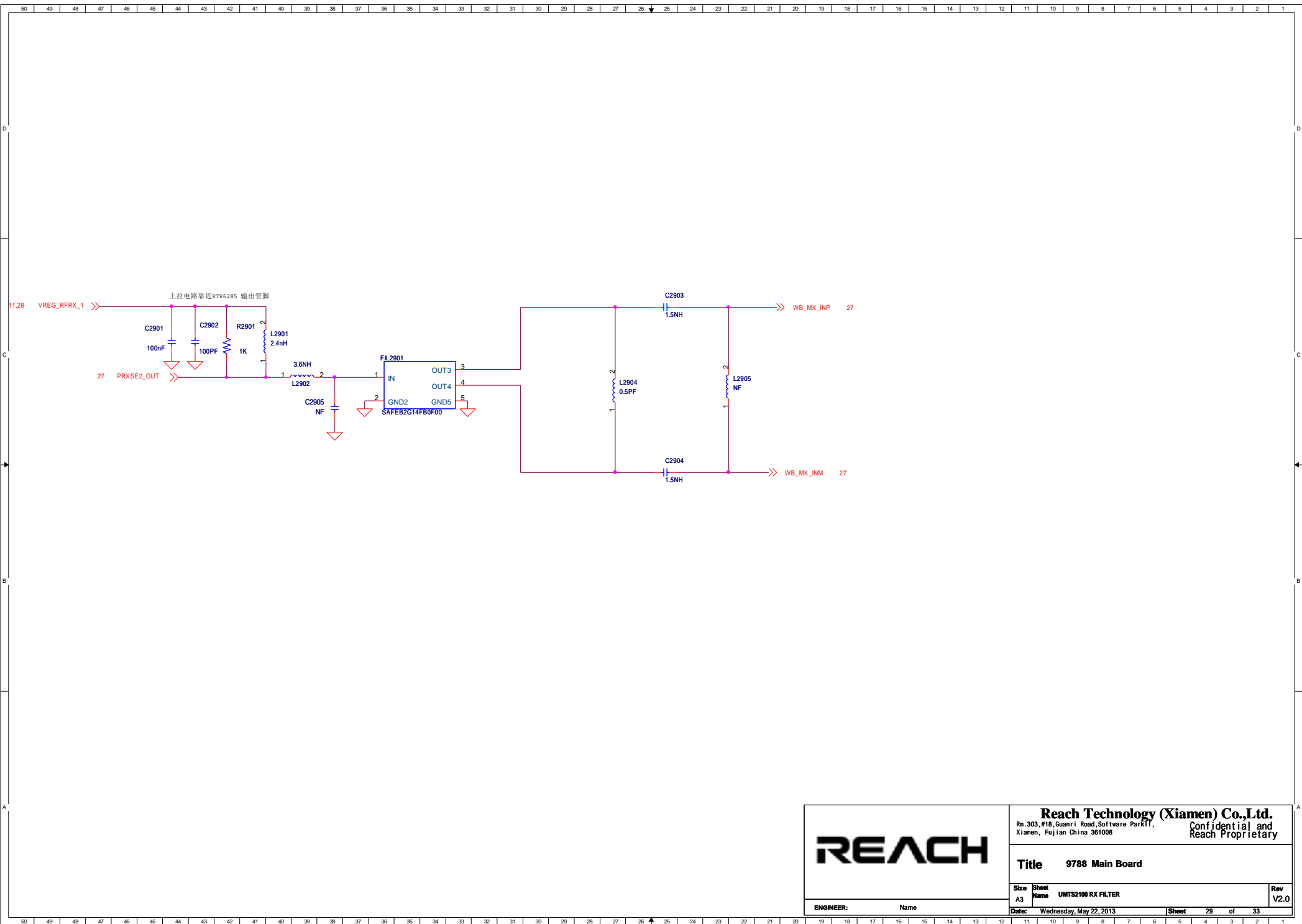
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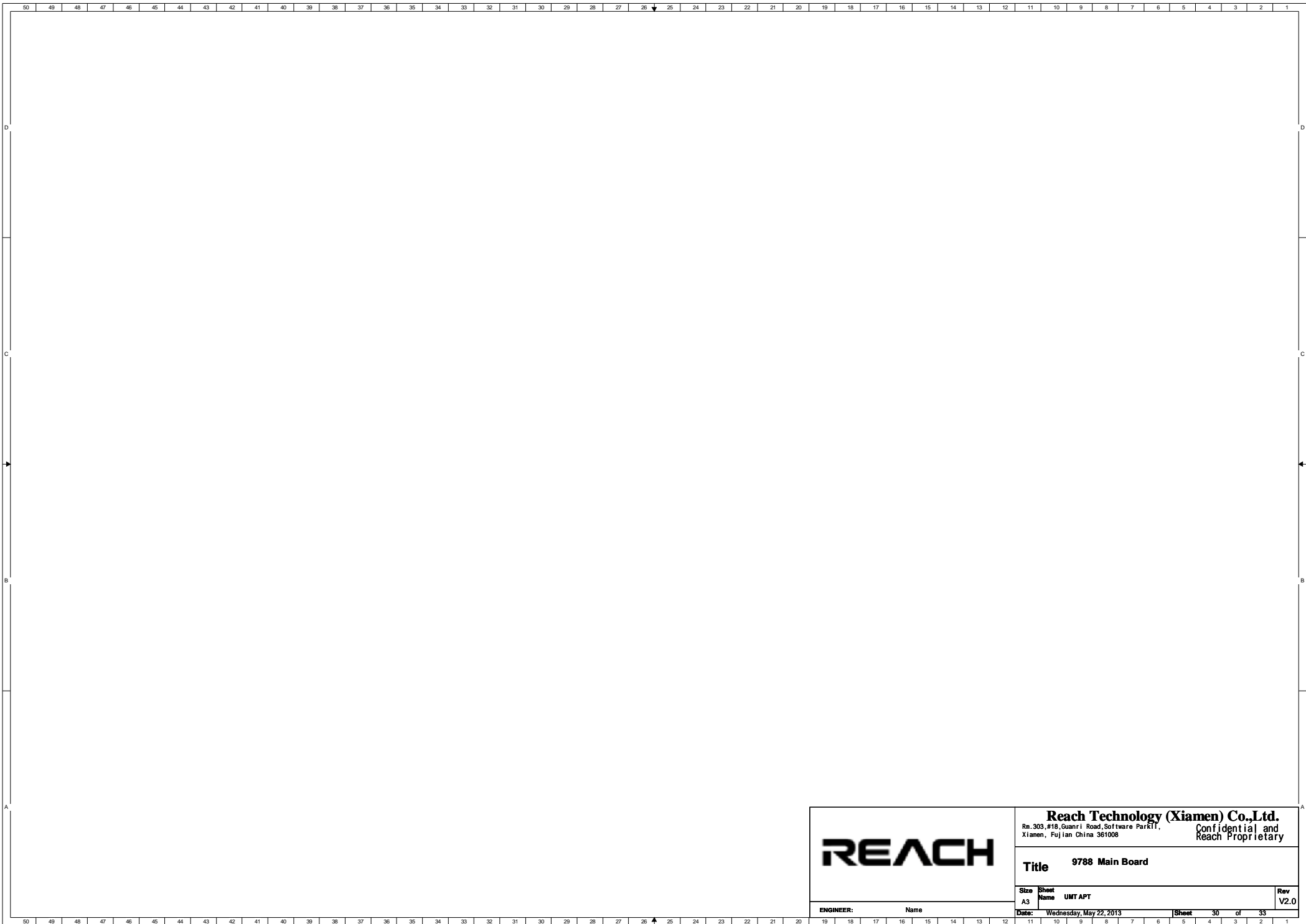
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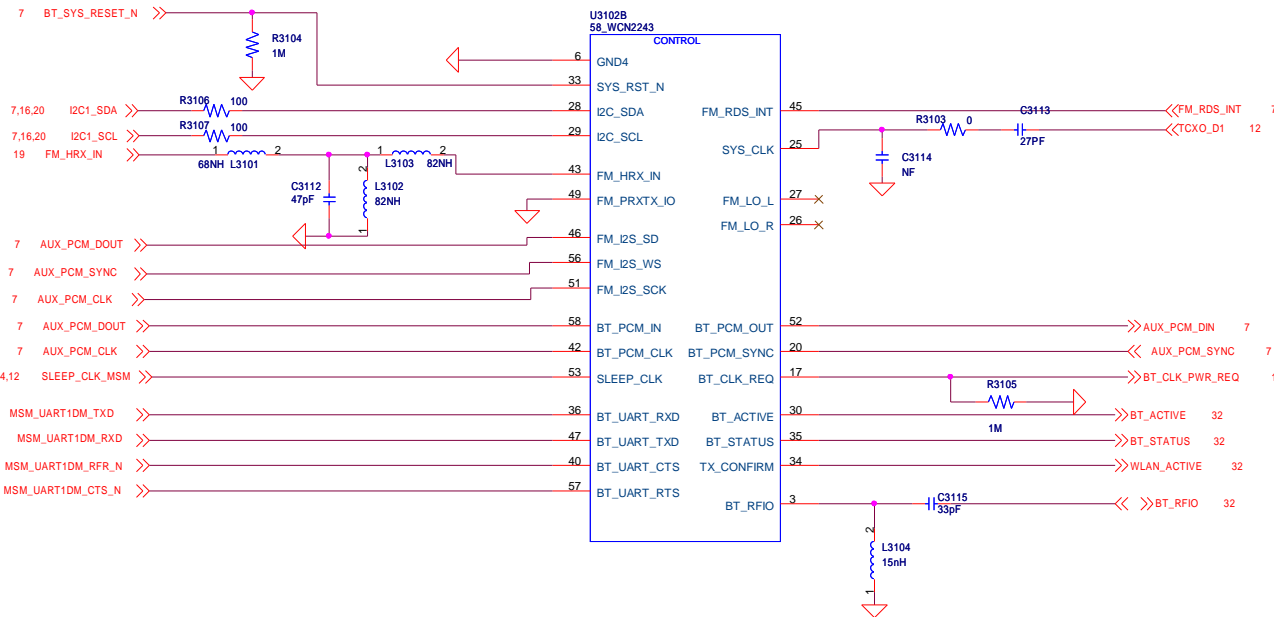
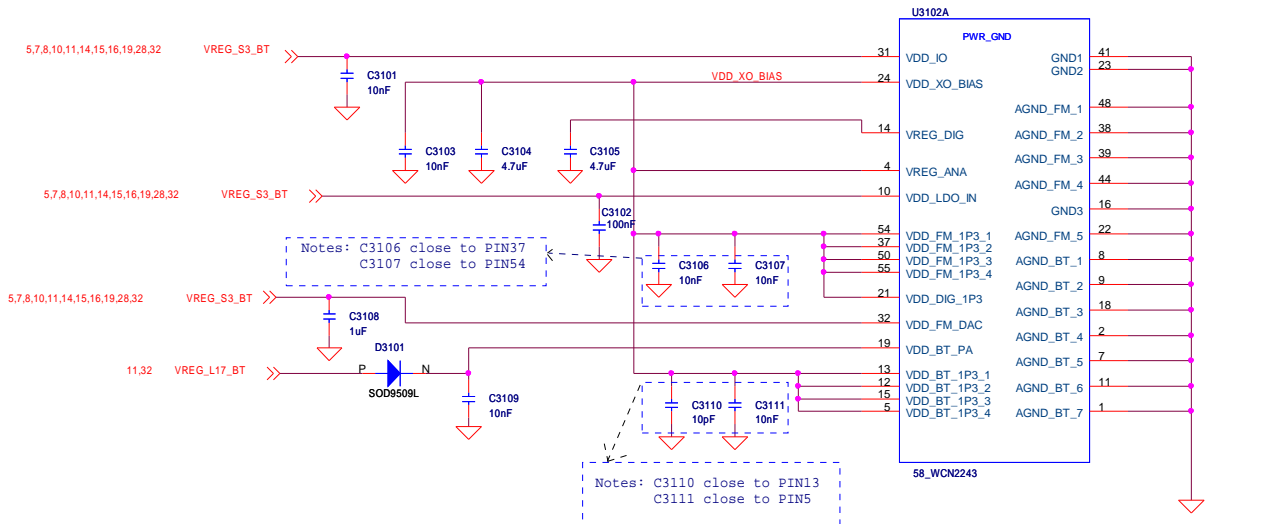


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Size A3	Sheet Name UMTS2100 RX FILTER	Rev V2.0	
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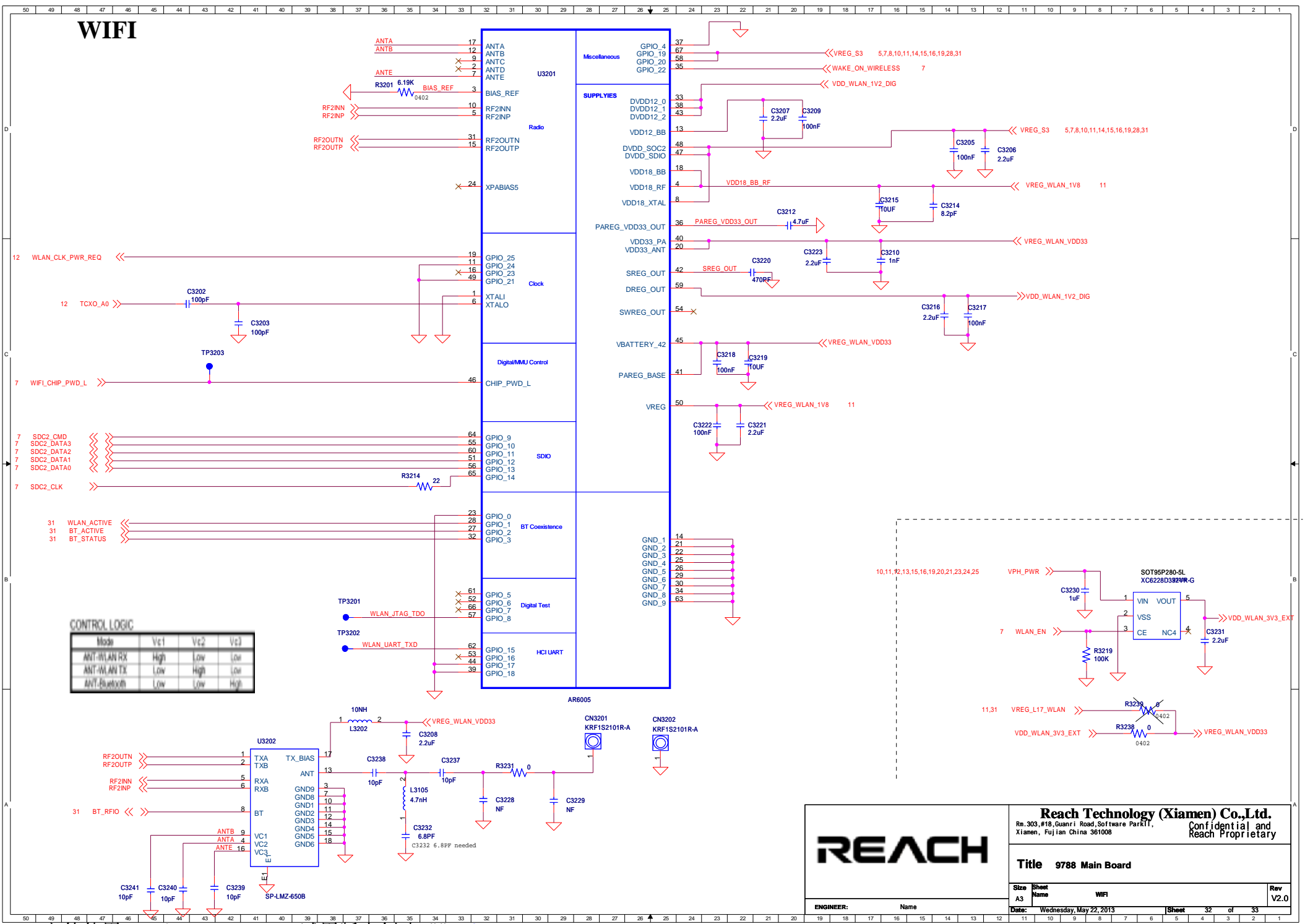
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Size A3	Sheet Name UMT APT	Date: Wednesday, May 22, 2013		Rev V2.0
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BT / FM



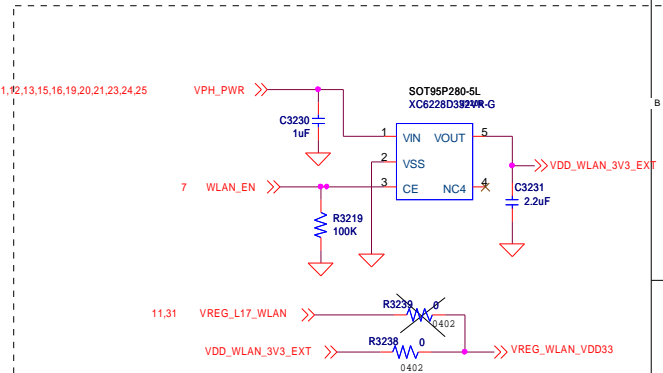
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WIFI



CONTROL LOGIC

Mode	Ve1	Ve2	Ve3
ANT-WLAN RX	High	Low	Low
ANT-WLAN TX	Low	High	Low
ANT-Bluetooth	Low	Low	High



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Revision History

DATE	VERSION	PROJECT STAGE	DESCRIPTION	DATE	VERSION	PROJECT STAGE	DESCRIPTION
2012.02.23	V1.0		1.初始原理图	2012.04.19	V2.0		添加C1206为100NF; 添加R1809为0 欧0402; 添加R1616, R1617为NF 添加R1619, R1618, R2010, R2011, R1503, R1502为100 ohm 添加U1602为MOP02326; C1607为220NF (0402) C1615为100nF(0201) C1612为1uF C1611改为4.7uF(0402) 删除C2029, C2032
2012.02.23	V1.0		添加R1807\R1805\R1806				
2012.02.24	V1.0		R1004改为MRLC00812; R1005改为MRLC00811; FIL2303改为MOP02408; FIL2501改为MOP02215				
2012.02.27	V1.0		CP2201改为MRLC00474 (10UF)				
2012.02.29	V1.0		修改page01框图; COMPASS_INT改为GP1038; HOOK_DET_MSM改为GP1040; AUDIO_PA_SHD改为GP1088; 删除HOOK_DET_PMIC网络, TP0701; C2805改为MRLC00542(22pF); SW1809改为MOP00315; B1905\B1904改为CON00645				
2012.03.02	V1.0		纠正I2C1_SCL_GSENSOR与I2C1_SDA_GSENSOR反接				
2012.03.05	V1.0		L2304 1.2NH LQP03TN1N2B00 C2313 5.6NH LQP03TNSN6H00 C2710 9.1NH LQP03TN9N1H00 C2712 9.1NH LQP03TN9N1H00 L2705 8.2NH LQP03TNSN2H00 C2719 2.0NH LQP03TN2N0B00 C2725 2.0NH LQP03TN2N0B00 L2701 15NH LQP03TNI5NH00 L2707 NF L2712 15NH LQP03TNI5NH00 L2722 2.0NH LQP03TN2N0B00 C2724 2.0NH LQP03TN2N0B00 L2711 NF C2730 39PF MRLC00544 L2718 4.3NH LQP03TN4N3H00 L2717 1.2PF MRLC00536 C2728 3.1NH LQP03TN3N1B00 C2729 3.1NH LQP03TN3N1B00 L2716 NF L2709 3.1NH LQP03TN3N1B00 C2722 1.2NH LQP03TN1N2B00 C2721 1.2NH LQP03TN1N2B00 L2708 NF FB2801 BLM15HG601SN1 FB2802 BLM15HG601SN1 FB2810 0 MRLC00277 C2720 NF R1004改为6.98K R1005改为16.5K				
2012.03.15	V2.0		RECI901改为1506封装 R1912改为69k				
2012.04.05	V2.0		L2721 4.3NH R2704 39PF C2736 1.2PF C2401 2NH FB2801 FP2802 0欧 C2410 5.0PF L2725 NF L2401 7.5NH C2414 1.8NH L2904 0.5PF C2903 1.5NH C2904 1.5NH C2419 33PF C2708 1.8NH L2706 NF FIL2501改为 MOP02483 L2502 3.9NH C2515 8.2PF C2512 2.2PF C2502 1.2NH L2501 NF C2503 1.2NH C2735 33PF R2703 3.1NH L2704 27NH C2713 6.2NH C2714 6.2NH L2703 1.8PF L2723 1.5PF C2734 5.6NH				

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