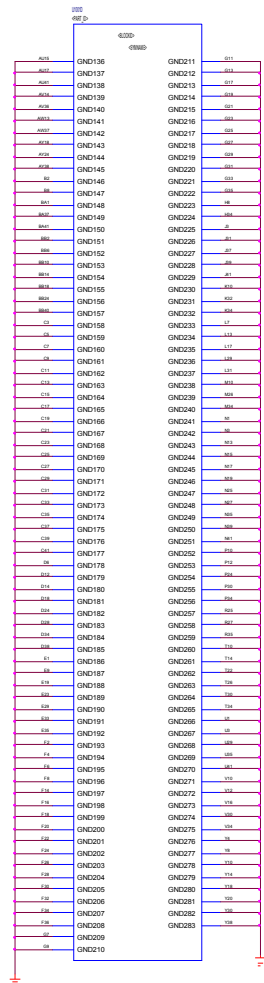


SDM439 GPIO Configuration For QRD439+PMI632

GPIO_0	NFC_SPI_ESE_MOSI	GPIO_41		GPIO_82	FM_DATA
GPIO_1	NFC_SPI_ESE_MISO	GPIO_42	ACCL_INT1	GPIO_83	BT_CTL
GPIO_2	NFC_SPI_CS_N_0	GPIO_43	ALSP_INT_N	GPIO_84	BT_DATA
GPIO_3	NFC_SPI_ESE_CLK	GPIO_44	MAG_DRDY_INT	GPIO_85	FP_SPI_MOSI
GPIO_4	QUP_UART_TX_2	GPIO_45	GYRO_INT	GPIO_86	FP_SPI_MISO
GPIO_5	QUP_UART_RX_2	GPIO_46		GPIO_87	FP_SPI_CS
GPIO_6	WSA_SMB_I2C_SDA	GPIO_47	SENSOR_SPI_CS2_N	GPIO_88	FP_SPI_CLK
GPIO_7	WSA_SMB_I2C_SCL	GPIO_48	FP_INT_N1	GPIO_89	
GPIO_8	TP_SPI_MOSI	GPIO_49	UIM_BATT_ALARM	GPIO_90	
GPIO_9	TP_SPI_MISO	GPIO_50		GPIO_91	KEY_VOL_UP_N
GPIO_10	TP_SPI_CS_SDA	GPIO_51	UIM1_DATA	GPIO_92	
GPIO_11	TP_SPI_CLK_SCL	GPIO_52	UIM1_CLK	GPIO_93	NFC_ESE_PWR_REQ
GPIO_12	WSA_INTR	GPIO_53	UIM1_RESET	GPIO_94	WSA_IO_DATA
GPIO_13	LCD_ID	GPIO_54	UIM1_PRESENT	GPIO_95	WSA_IO_CLK
GPIO_14	SENSOR_I2C_SDA	GPIO_55	UIM2_DATA	GPIO_96	WSA_EN
GPIO_15	SENSOR_I2C_SCL	GPIO_56	UIM2_CLK	GPIO_97	HomeKey_FP_INT
GPIO_16	NFC_DISABLE	GPIO_57	UIM2_RESET	GPIO_98	
GPIO_17	NFC_IRQ	GPIO_58	UIM2_PRESENT	GPIO_99	
GPIO_18	NFC_I2C_SDA	GPIO_59		GPIO_100	RFFE1_CLK
GPIO_19	NFC_I2C_SCL	GPIO_60	LCD0_RESET_N	GPIO_101	RFFE1_DATA
GPIO_20	SENSOR_SPI_MOSI	GPIO_61	SMB_INT	GPIO_102	RFFE2_CLK
GPIO_21	SENSOR_SPI_MISO	GPIO_62		GPIO_103	RFFE2_DATA
GPIO_22	SENSOR_SPI_CS0_N	GPIO_63		GPIO_104	
GPIO_23	SENSOR_SPI_CLK	GPIO_64	TP_RST_N	GPIO_105	
GPIO_24	LCD_TE0	GPIO_65	TP_INT_N	GPIO_106	
GPIO_25	WSA_MCLK	GPIO_66		GPIO_107	GRFC3_SEL
GPIO_26	CAM_MCLK0	GPIO_67	SDCARD_DET_N	GPIO_108	
GPIO_27	CAM_MCLK1	GPIO_68		GPIO_109	GRFC5_SEL
GPIO_28		GPIO_69	CDC_PDM_CLK	GPIO_110	GRFC6_SEL
GPIO_29	CAM_I2C_SDA0	GPIO_70	CDC_PDM_SYNC	GPIO_111	GRFC7_SEL
GPIO_30	CAM_I2C_SCL0	GPIO_71	CDC_PDM_TX	GPIO_112	GRFC8_SEL
GPIO_31	CAM_I2C_SDA1	GPIO_72	CDC_PDM_RX0	GPIO_113	GRFC9_SEL
GPIO_32	CAM_I2C_SCL1	GPIO_73	CDC_PDM_RX1	GPIO_114	GRFC10_SEL
GPIO_33		GPIO_74	CDC_PDM_RX2	GPIO_115	
GPIO_34	FLASH_STROBE_NOW	GPIO_75	BT_SSBI	GPIO_116	
GPIO_35	CAM_AVDD_LDO_EN	GPIO_76	WL_CMD_DATA_2	GPIO_117	
GPIO_36	MCAM_RST_N	GPIO_77	WL_CMD_DATA_1	GPIO_118	EXT_GPS_LNA_EN
GPIO_37	FORCE_USB_BOOT	GPIO_78	WL_CMD_DATA_0	GPIO_119	CH0_GSM_TX_PHASE_D0
GPIO_38	SCAM_RST_N	GPIO_79	WL_CMD_SET	GPIO_120	RFFE5_CLK
GPIO_39		GPIO_80	WL_CMD_CLK	GPIO_121	RFFE5_DATA
GPIO_40		GPIO_81	FM_SSBI	GPIO_122	



GPIO_123			
GPIO_124	FP_RESET		
GPIO_125			
GPIO_126			
GPIO_127			
GPIO_128			
GPIO_129			
GPIO_130	NFC_DWL_REQ		
GPIO_131			
GPIO_132	RCM_MARKER1		
GPIO_133	RCM_MARKER2		

PMI632 GPIO/MPP Configuration

GPIO_1	CONNECTOR_THERMAL	GPIO_5	FLASH_STROBE_NOW
GPIO_2	SMB_PARALLEL_CHG_EN	GPIO_6	NEBULA_PWM
GPIO_3	SKIN_THEREMAL	GPIO_7	SMB_VCHG_P
GPIO_4	SMB_THEREMAL	GPIO_8	SMB_VCHG_M

PM439 GPIO/MPP Configuration

GPIO_1		MPP_1	VDD_FX_BIAS_MPP_1
GPIO_2	NFC_CLK_REQ		
GPIO_3	UIM_BATT_ALARM	MPP_3	VREF_DAC_MPP_3
GPIO_4	WLLED_EN	MPP_4	QUIET_THERM_TP_LED_K
GPIO_5			
GPIO_6			
GPIO_7			
GPIO_8	LCM_BL_PWM		



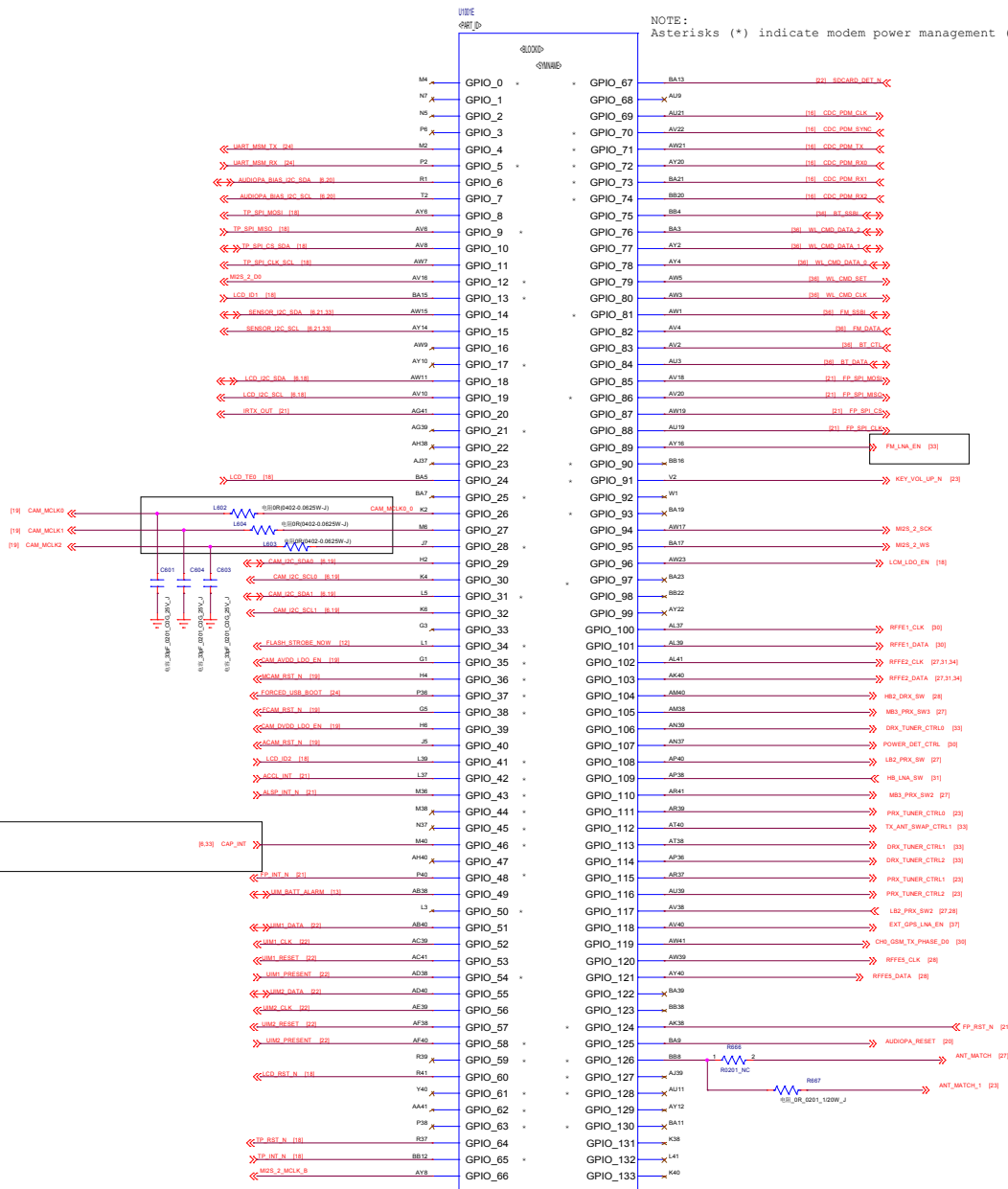
SDM439 EBI

NOTE:
Asterisks (*) indicate modem power management (MPM) wake-up pins

GPIO_0	GPIO_00
GPIO_1	GPIO_01
GPIO_2	GPIO_02
GPIO_3	GPIO_03
GPIO_4	GPIO_04
GPIO_5	GPIO_05
GPIO_6	GPIO_06
GPIO_7	GPIO_07
GPIO_8	GPIO_08

GPIO_9	GPIO_09
GPIO_10	GPIO_10
GPIO_11	GPIO_11
GPIO_12	GPIO_12
GPIO_13	GPIO_13
GPIO_14	GPIO_14
GPIO_15	GPIO_15
GPIO_16	GPIO_16
GPIO_17	GPIO_17
GPIO_18	GPIO_18
GPIO_19	GPIO_19
GPIO_20	GPIO_20
GPIO_21	GPIO_21
GPIO_22	GPIO_22
GPIO_23	GPIO_23
GPIO_24	GPIO_24
GPIO_25	GPIO_25
GPIO_26	GPIO_26
GPIO_27	GPIO_27
GPIO_28	GPIO_28
GPIO_29	GPIO_29
GPIO_30	GPIO_30
GPIO_31	GPIO_31
GPIO_32	GPIO_32
GPIO_33	GPIO_33
GPIO_34	GPIO_34
GPIO_35	GPIO_35
GPIO_36	GPIO_36
GPIO_37	GPIO_37
GPIO_38	GPIO_38
GPIO_39	GPIO_39
GPIO_40	GPIO_40
GPIO_41	GPIO_41
GPIO_42	GPIO_42
GPIO_43	GPIO_43
GPIO_44	GPIO_44
GPIO_45	GPIO_45
GPIO_46	GPIO_46
GPIO_47	GPIO_47
GPIO_48	GPIO_48
GPIO_49	GPIO_49
GPIO_50	GPIO_50
GPIO_51	GPIO_51
GPIO_52	GPIO_52
GPIO_53	GPIO_53
GPIO_54	GPIO_54
GPIO_55	GPIO_55
GPIO_56	GPIO_56
GPIO_57	GPIO_57
GPIO_58	GPIO_58
GPIO_59	GPIO_59
GPIO_60	GPIO_60
GPIO_61	GPIO_61
GPIO_62	GPIO_62
GPIO_63	GPIO_63
GPIO_64	GPIO_64
GPIO_65	GPIO_65
GPIO_66	GPIO_66

Default boot Config (SD000) is SD01(SD000)



I2C PULL-UP RESISTORS

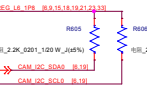
SENSORS



TOUCHSCREEN



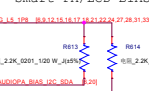
CAMERAS



LCD Backlight Driver

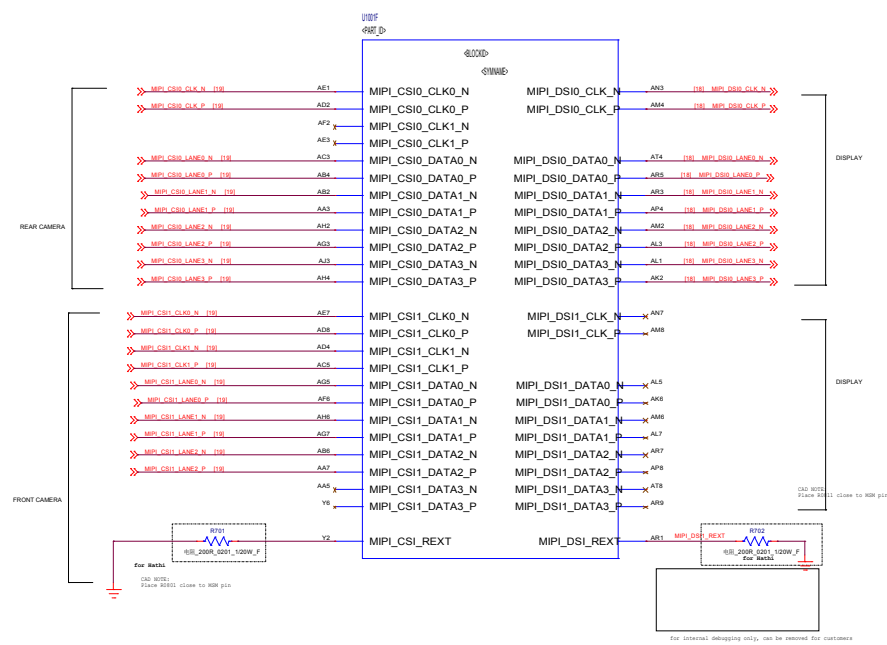


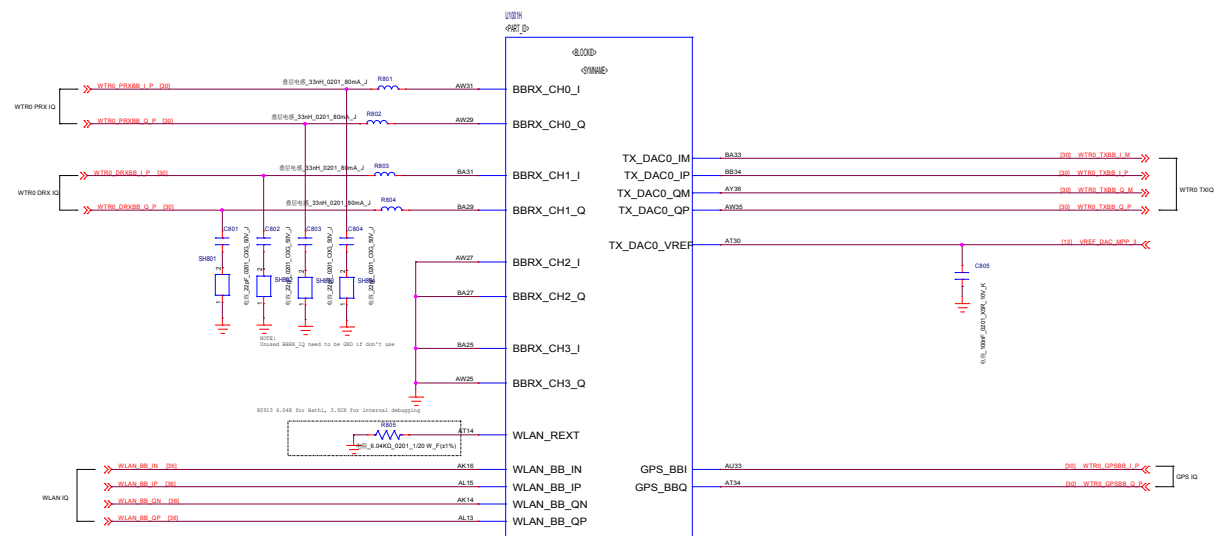
Smart PA/LCD BIAS

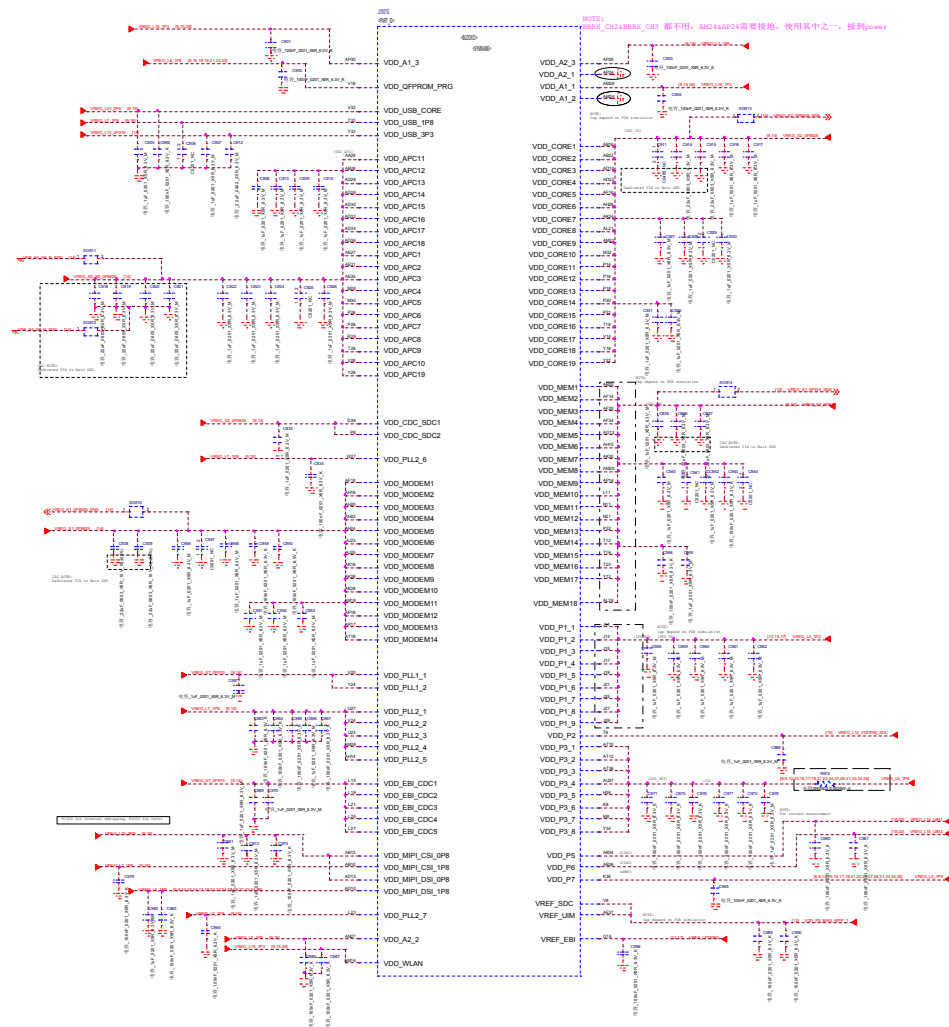


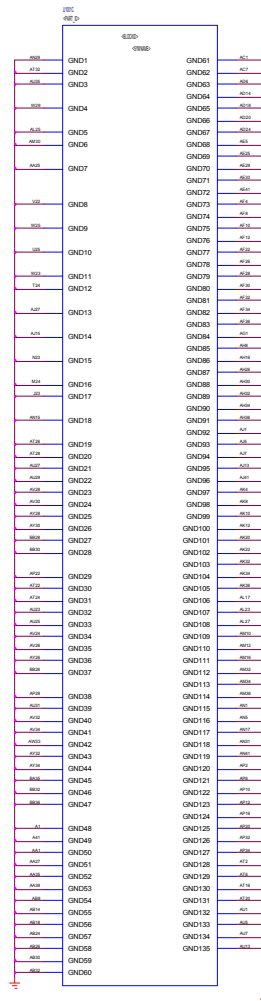
NOTE:
Ensure SW sets these GPIOs (Sensor, CTP and Camera I2C bus) to inout pull down when the peripherals are powered off to eliminate leakage.

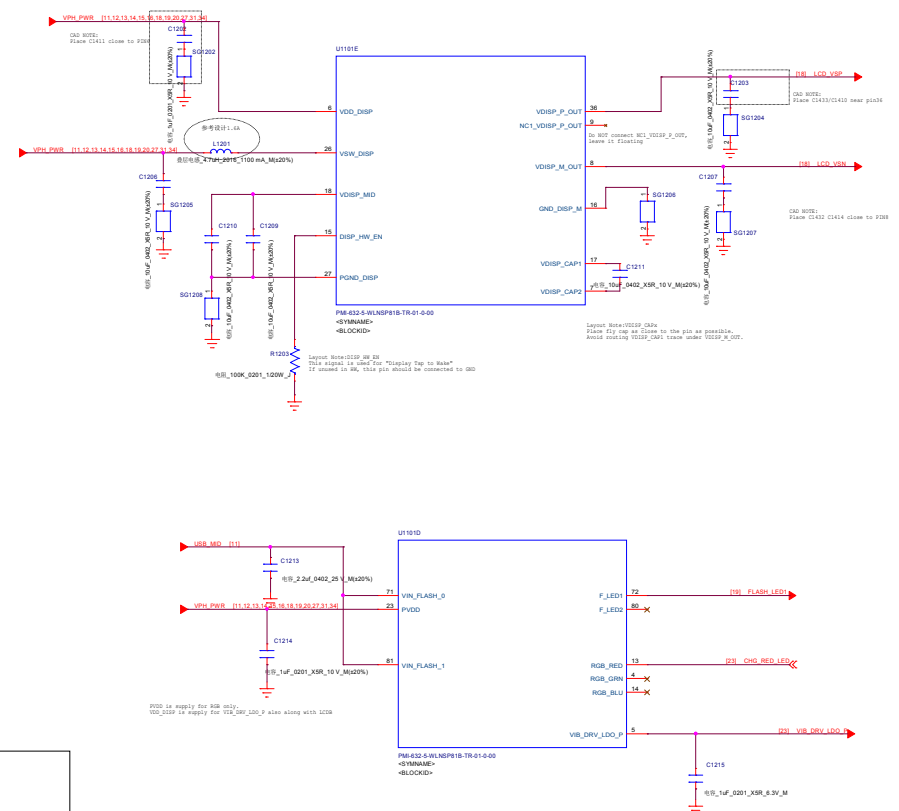
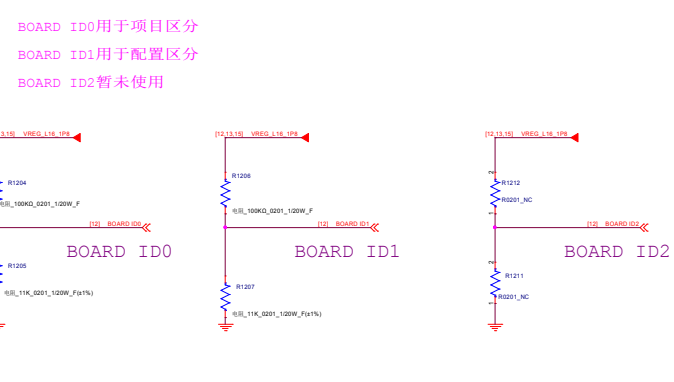
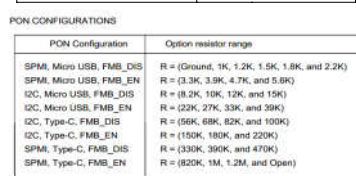
SDM439

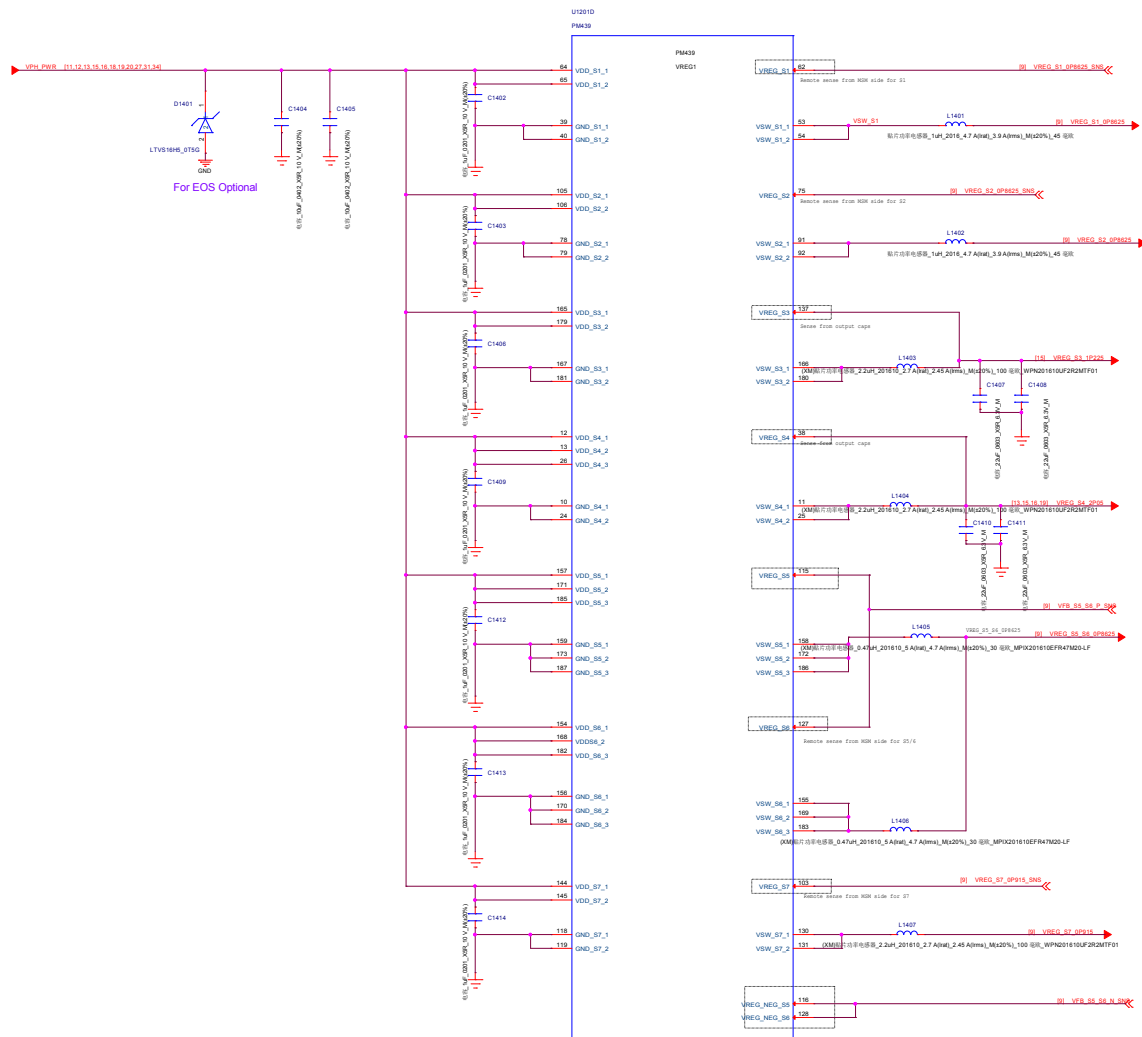


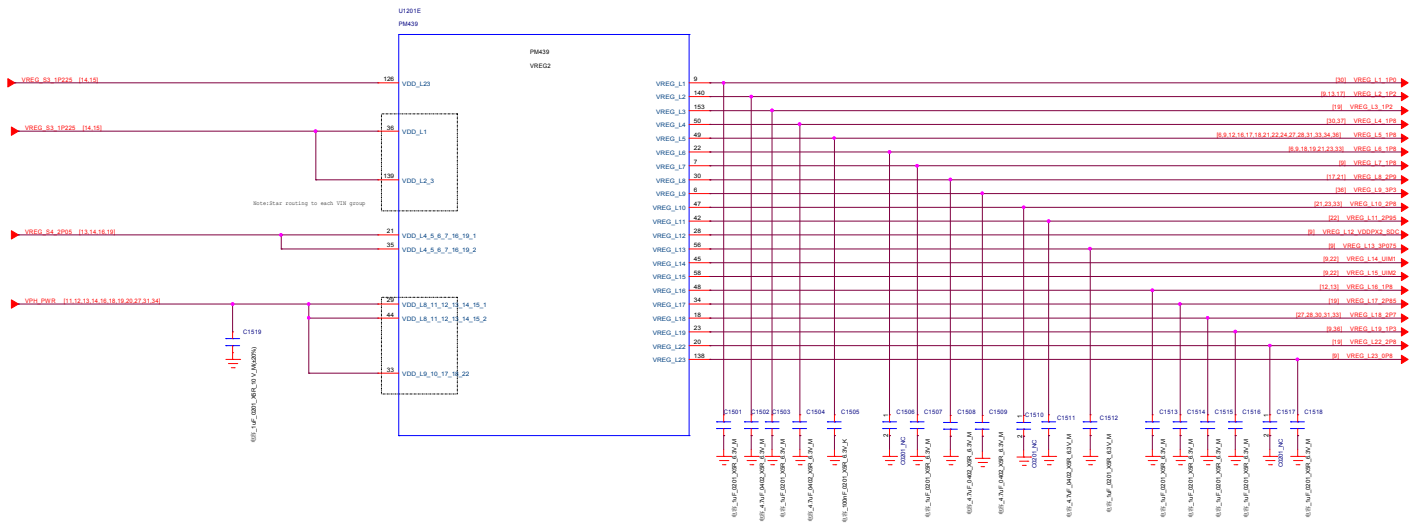


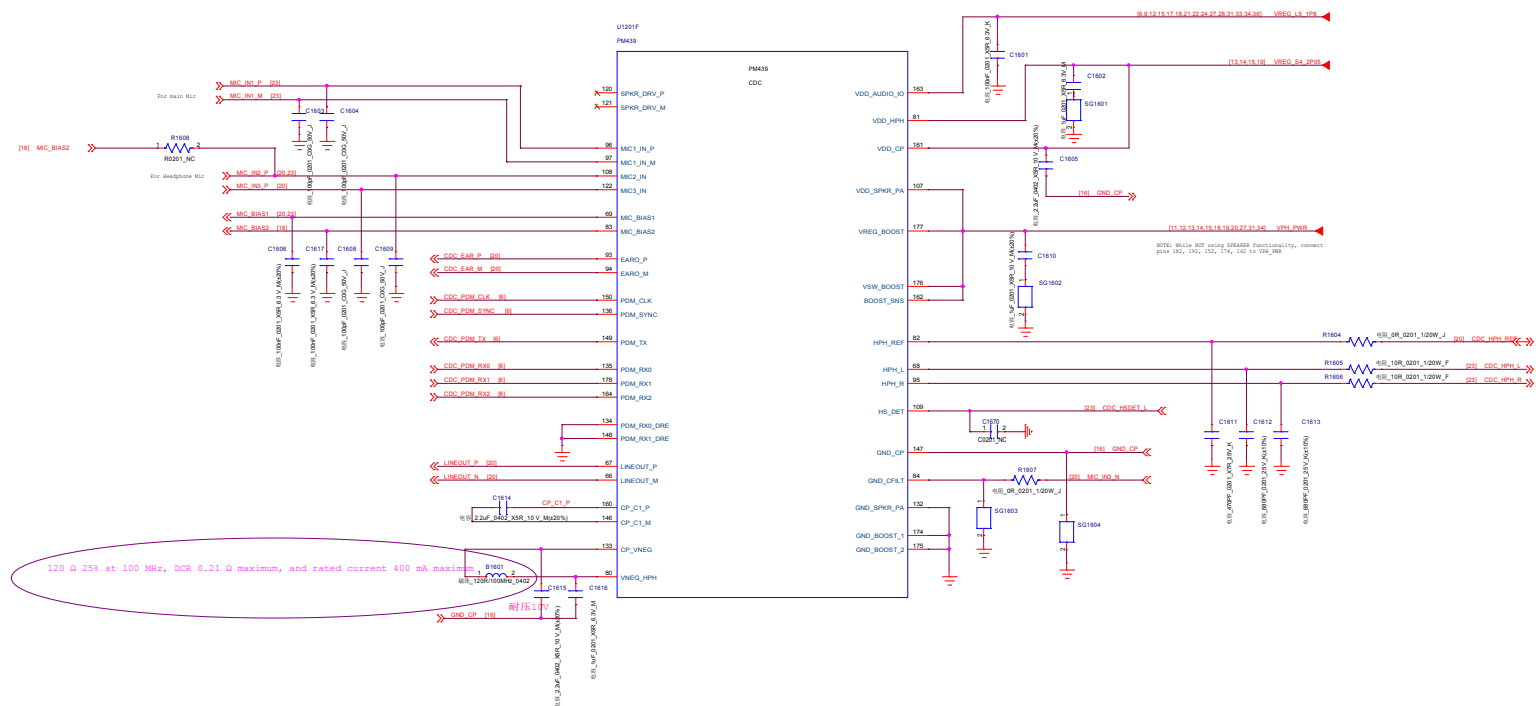


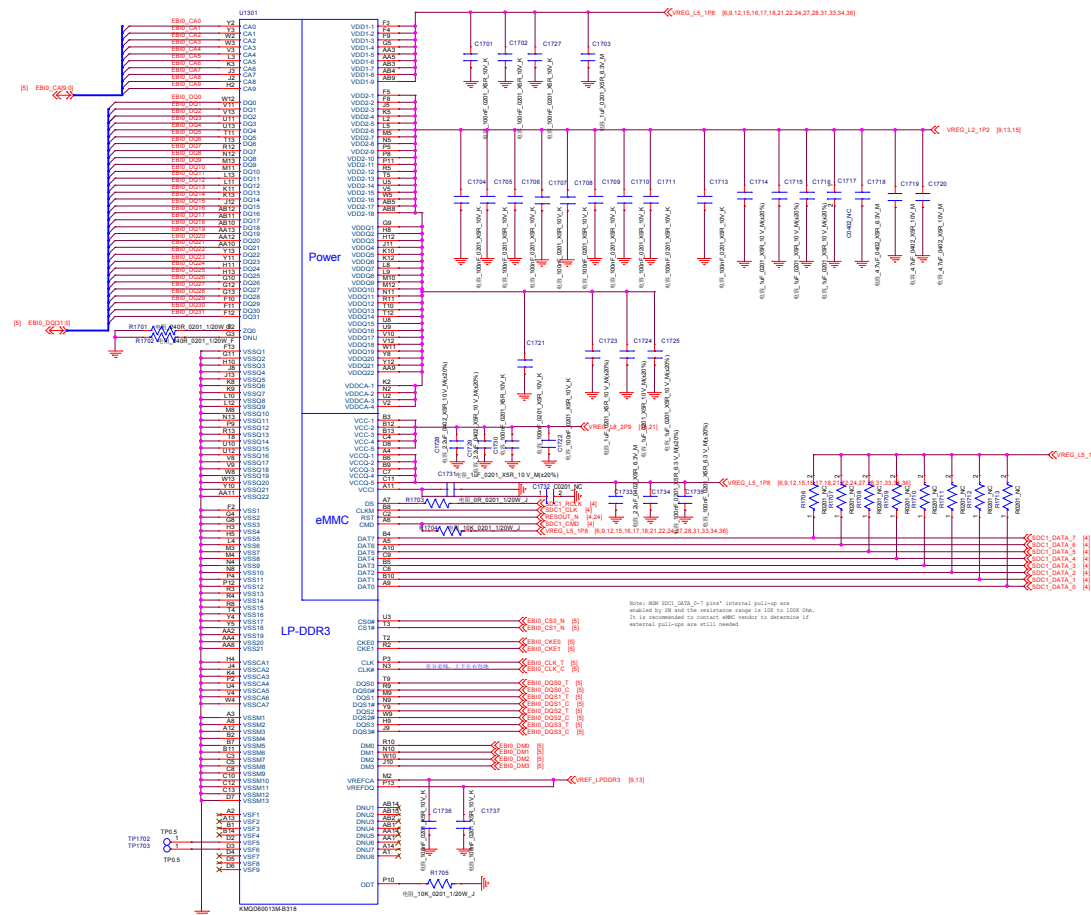






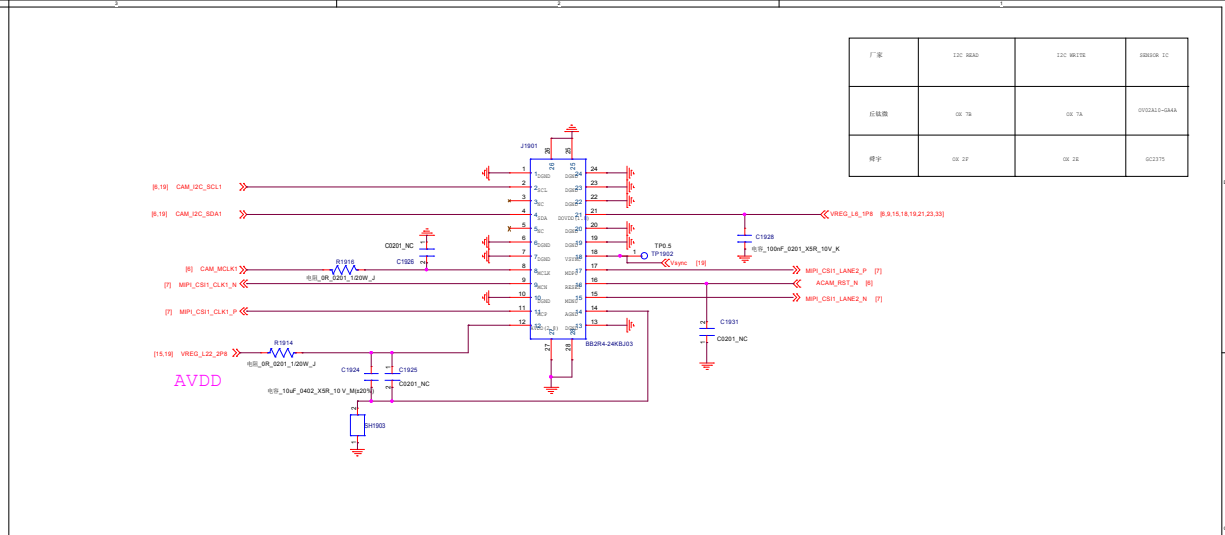
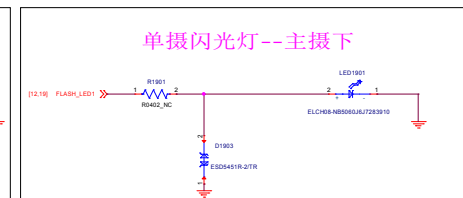






Note: MSM SDC1_DATA 0-7 pins' internal pull-up are enabled by SW and the resistance range is 10K to 100K Ohm. It is recommended to contact ANNC vendor to determine if external pull-ups are still needed

厂家	12C 86AD	12C 8677E	28869R 1C
点钰数	0E 79	0E 7A	00DAD-0AAA
频率	0E 2F	0E 2E	0C337D

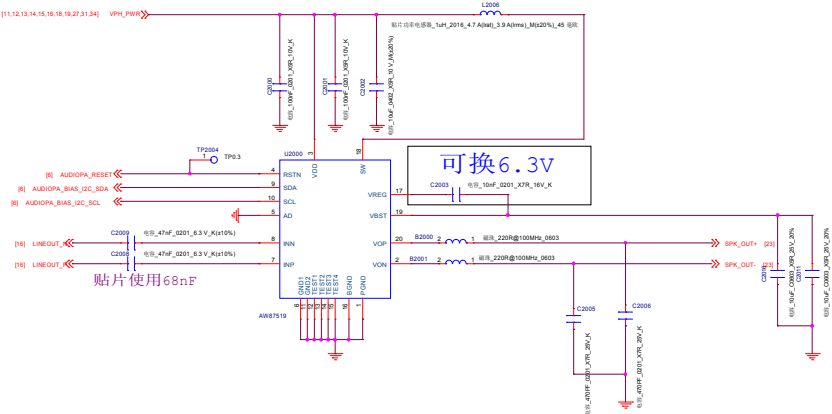
Rear Camera Flash FH15B

The left diagram shows the VPH_PWR and CAM_AVDD_LDO_EN connections to the U1900 LDO regulator. The right diagram shows the VREG_0A_PPS0 and CAM_DVDD_LDO_EN connections to the U1901 LDO regulator. Both diagrams include component values like resistors R1913, R0201_NC, R1917, R0201_NC and capacitors C1922, C1929, and C1927, C1928.

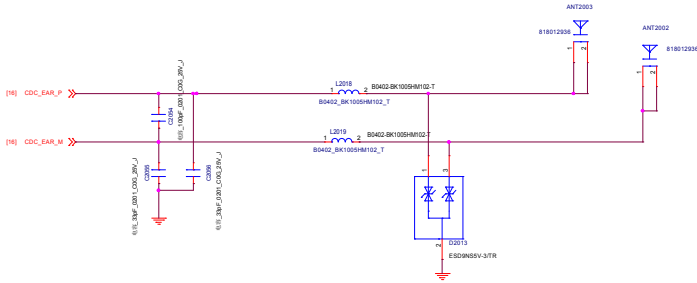
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AUDIO PA

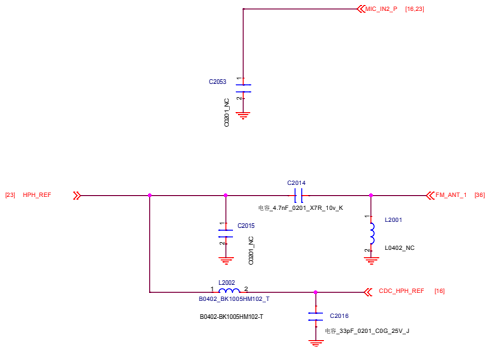
厂家	11C A028020
AWR7119 A028020	0058-1011000



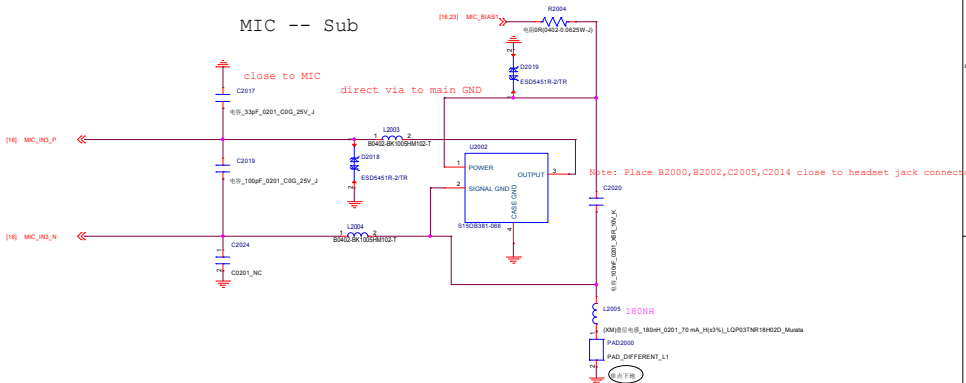
RECEIVER



American Standard EARPPHONE



MIC -- Sub

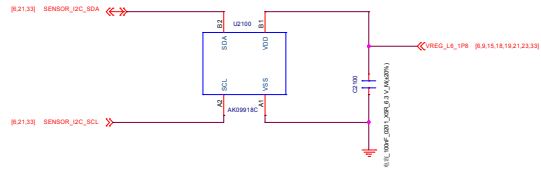


Note: Place B2000,B2002,C2005,C2014 close to headset jack connector

Note: Place B2000,B2002,C2005,C2014 close to headset jack connector

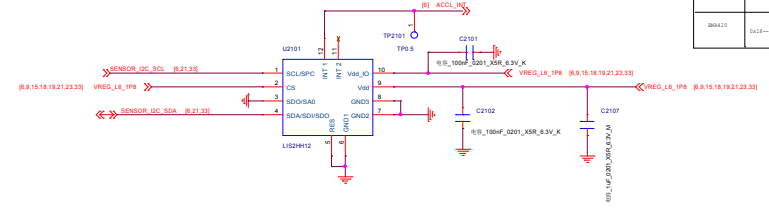
E-compass

厂家	12C A03662
A03662	05h---001100



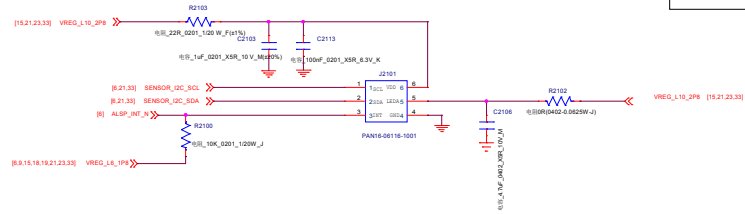
A sensor

厂家	12C A03662	
A03662	05h---001100	00h---001100
A03662	05h---001100	00h---001100

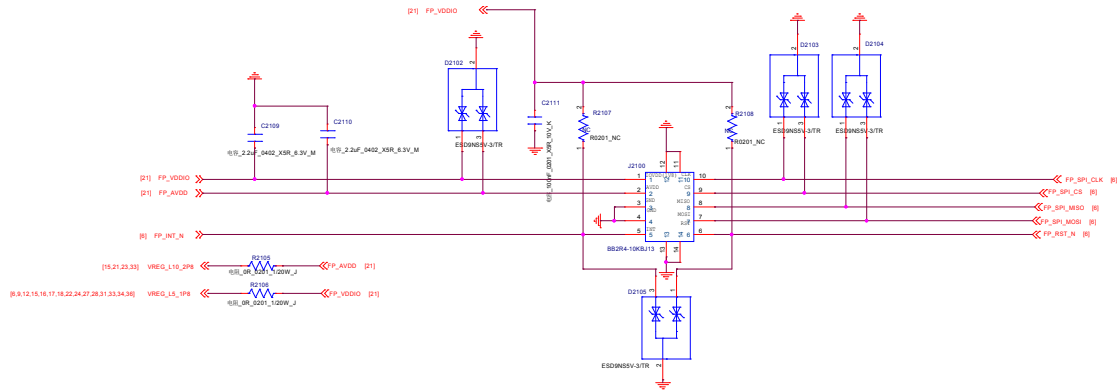


ALS PS LTR2568

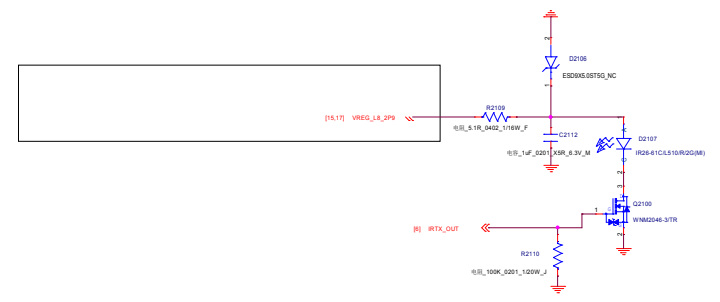
厂家	12C A03662
LTR-2568ALS-00	0x3---010011



Finger Print

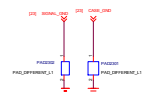


IR



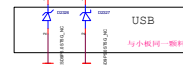
[illegible][illegible][illegible]

OVP 10.5V ET9552

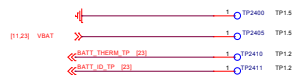

$$V_{\text{out,load}} = V_{\text{out,no}} * (1 + R1/R2)$$


Signal	Description
KEY_VOL_UP_N	Volume Up
FM_RESIN_N	Volume Down
KYPD_PWR_N	PWER ON
KEY_AI	XIAOMI AI

Battery Conector



VBAT TEST POINT



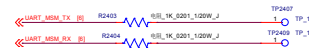
USB TEST POINT



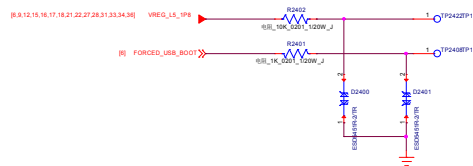
KEY TEST point

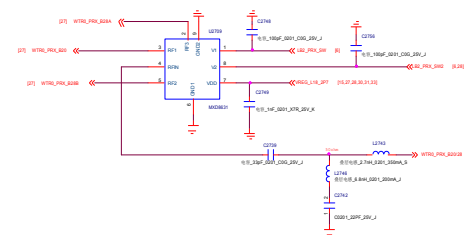


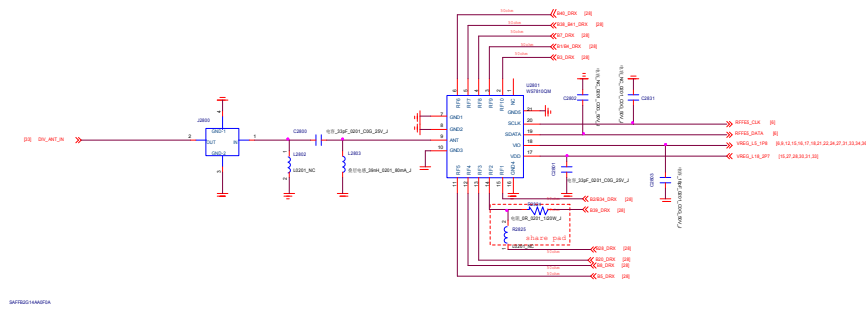
UART TEST point



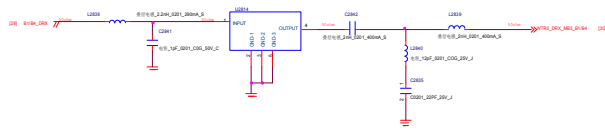
Force USB boot







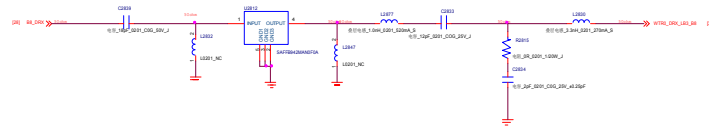
B1/B4 DRX



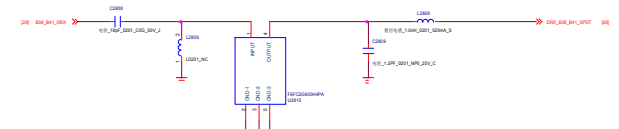
B5 DRX



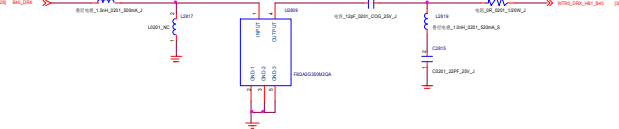
B8 DRX



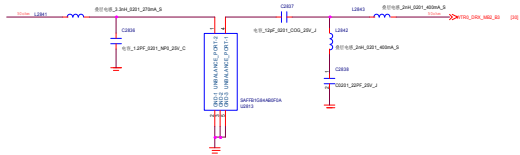
B38_B41 DRX



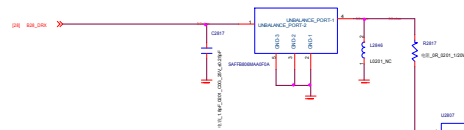
B40 DRX



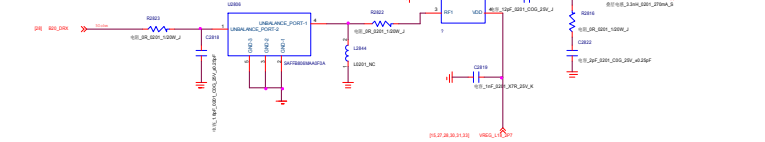
B3 DRX



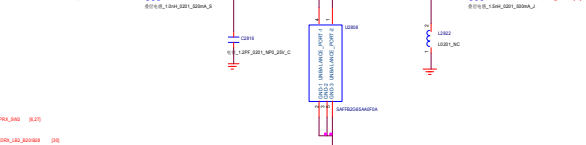
B28 DRX



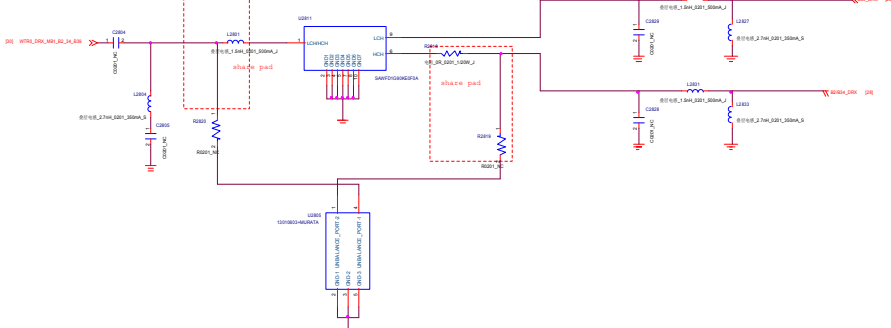
B20 DRX



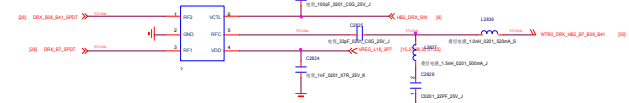
B7 DRX

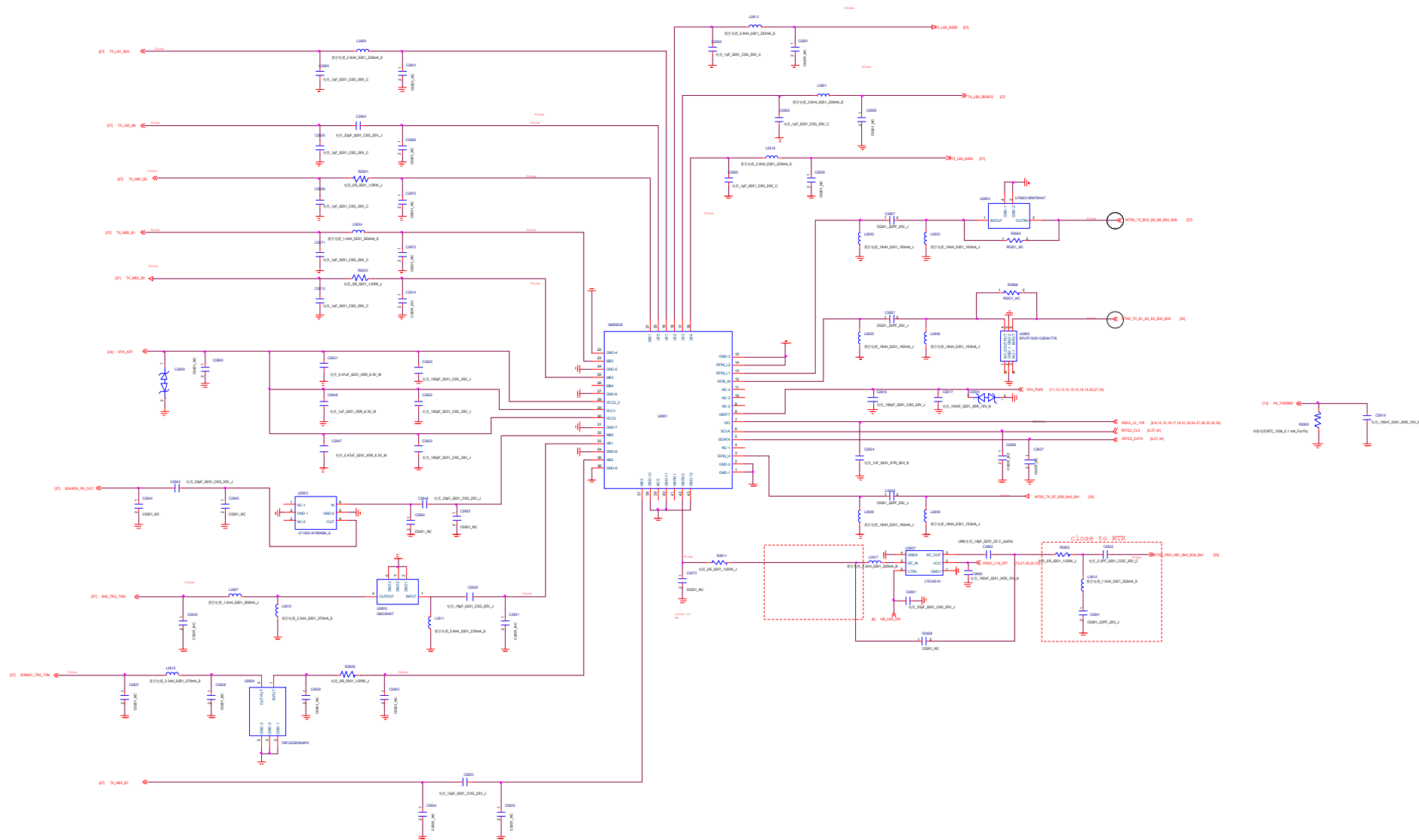


B2/34/B39 DRX

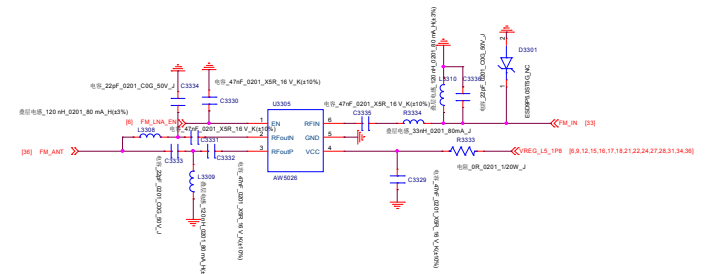
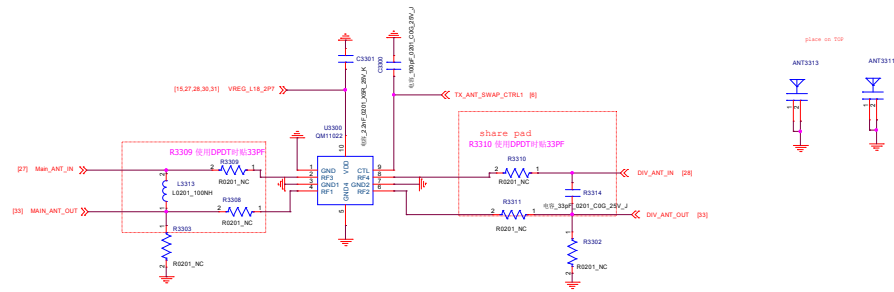


HB RX SW

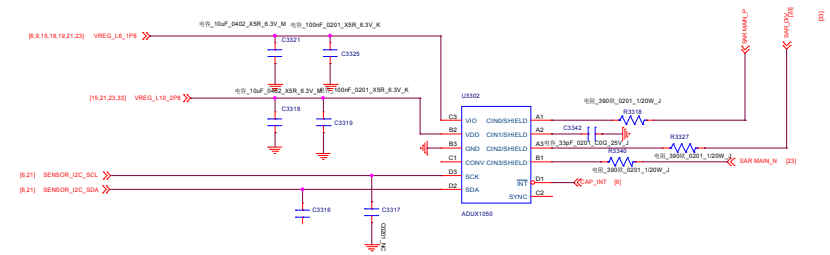




DPDT SWITCH



SAR Sensor



DIV ANT

