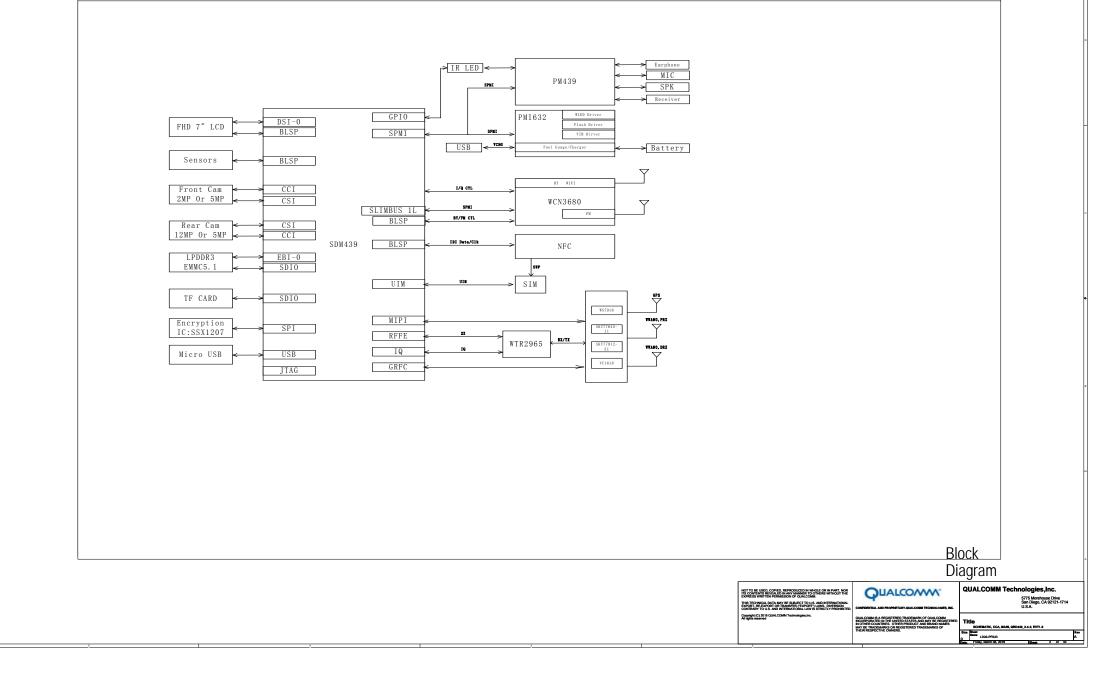
Sheet #	Content	Sheet #	Content	
01. 02. 03. 04. 05. 06. 07. 08. 09. 10. 11. 12. 13. 14. 15. 16. 17. 18. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 31. 32. 33. 34. 35. 36. 37. 37. 37. 37. 37. 37. 37. 37	Table of Content Revision History Block Diagram GPIO MAP SDM439 Control SDM439 EBI SDM439 GPIO SDM439 MIPI SDM439 RF SDM439 POWER1 RESERVED SDM439 GND PMI632 Charger PMI632 Control/Interface PM439 Control/Interface PM439 SMPS PM439 LDO PM439 CODEC/Audio PA RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED MEMORY (LPDDR3+EMMC V5.1) RESERVED Audio DISC Parts RESERVED WSA Display I/F and Backlight Front Camera and LDOs Rear Camera/Flash Sensor SIM/TF card Keypad and Indicator	https://Devi	BAT/B2B Connetor JTAG/Test Point/Sheild WTR 2965 QPA8685/6 TRX_LB QPA8675 TRX MB TRX HB PRX_MATCHING DRX_FEM RESERVED FBRX QFE4101 ASDIV RESERVED ANT WCN3680B WLAN_FEM GPS RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED NFC Change Sistvice Manual, Firm CeDB.xyz/new/ TOUP: @ DeviceDB - https:/	



	SDM43	9 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	Free Schema	GPIO_103	DEFEZ DATACE IVIANUAI, FIRM
GPIO_22	SENSOR_SPI_CSO_N	GPIO_63	https://Dovice	GPIO_104	()/7/00/4/
GPIO_23	SENSOR_SPI_CLK	GPIO_64	TP_RST_N	GPIO_105	NYZ/TIEW/
GPIO_24	LCD_TE0	GPIO_65	TPINIPORAM Gro	GPIO_106	@ DeviceDB - https://
GPIO_25	WSA_MCLK	GPIO_66	i ologiani or	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	CHO_GSM_TX_PHASE_DO
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	PIO_2 SMB_PARALLEL_CHG_EN		NEBULA_PWM				
GPIO_3	SKIN_THEREMAL	GPIO_7	SMB_VCHG_P				
GPIO_4	SMB_THEREMAL	GPIO_8	SMB_VCHG_M				

		PM439 GPIO/MPP Configuration								
	nwa	GP16_1	Solution	MPP_1	VDD_PX_BIAS_MPP_1					
		GPIO_2	NFC_CLK_REQ							
		GPIO_3	UIM_BATT_ALARM	MPP_3	VREF_DAC_MPP_3					
-	//t.n	GPI0_4	WLED EN ICEDB	MPP_4	QUIET_THERM_TP_LED_K					
		GPIO_5								
		GPIO_6								
		GPIO_7								
		GPIO_8	LCM_BL_PWM							

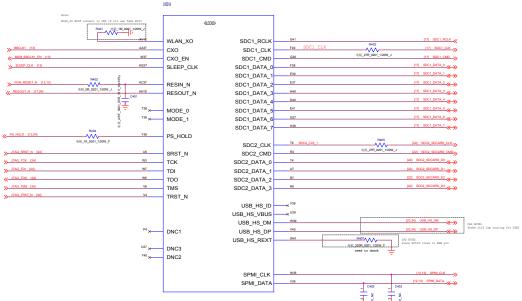
GPIO TABLE

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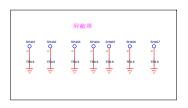


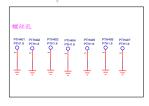
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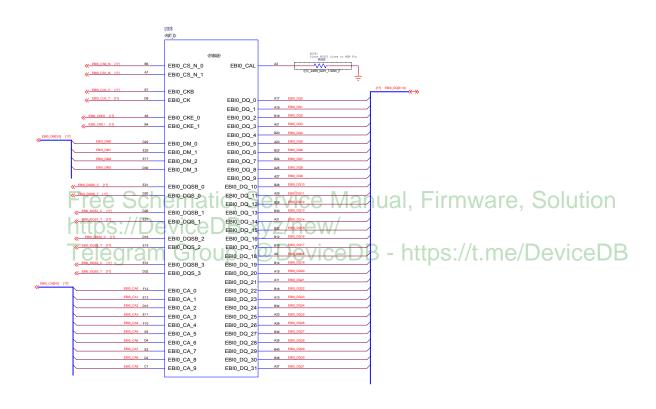
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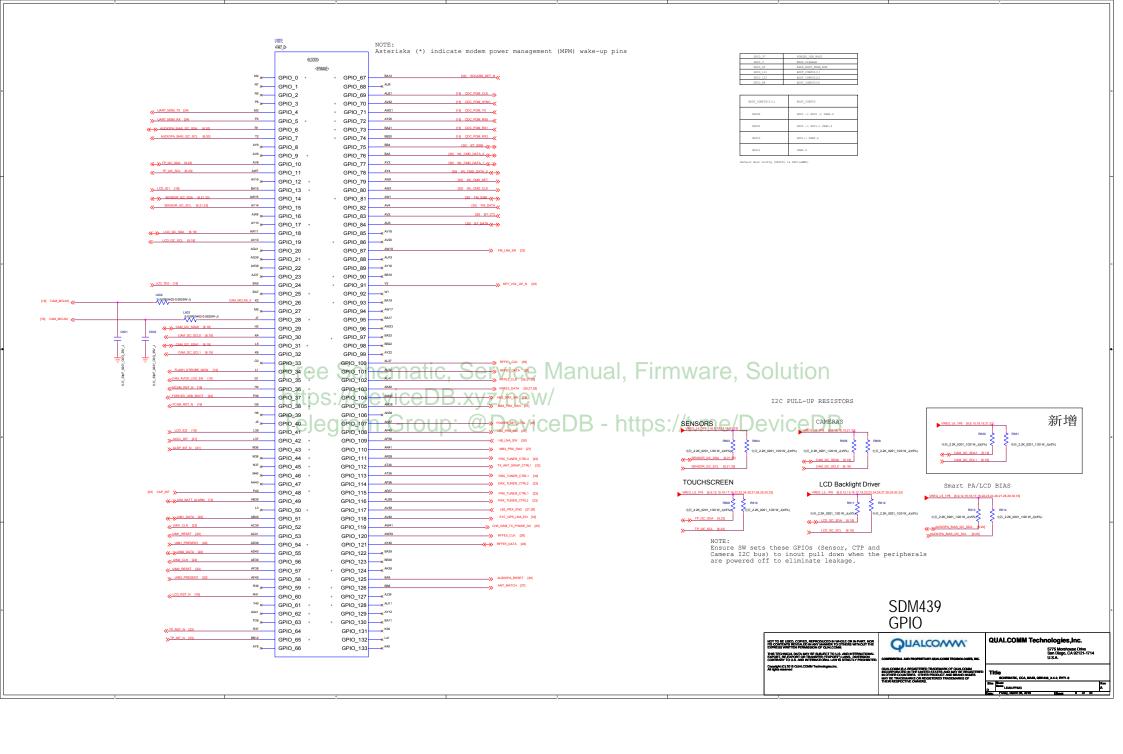
SDM439 Control

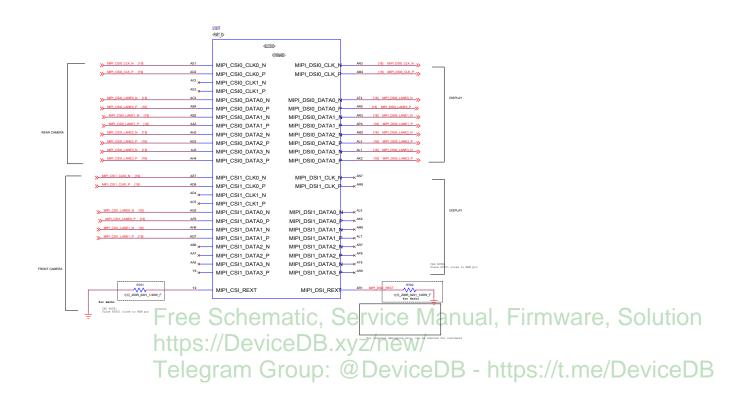




SDM439 EBI

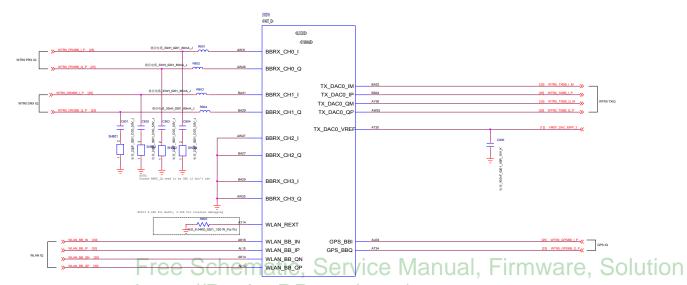






SDM439 MIPI

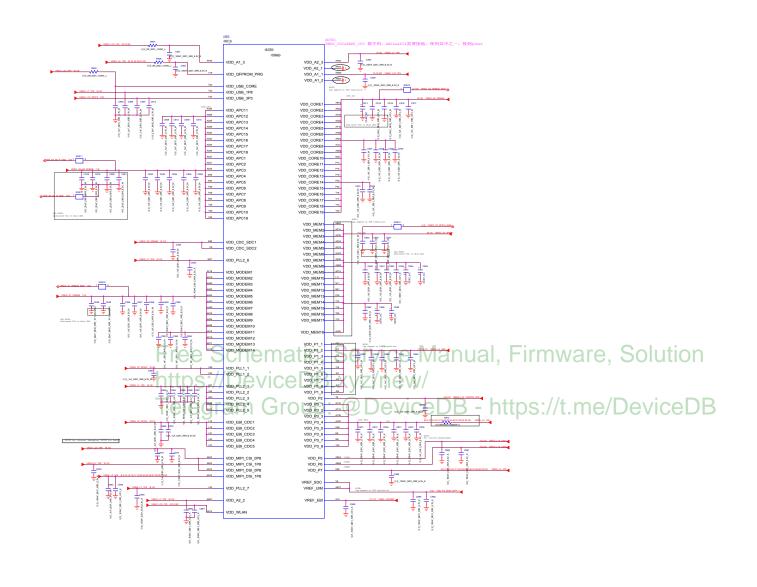




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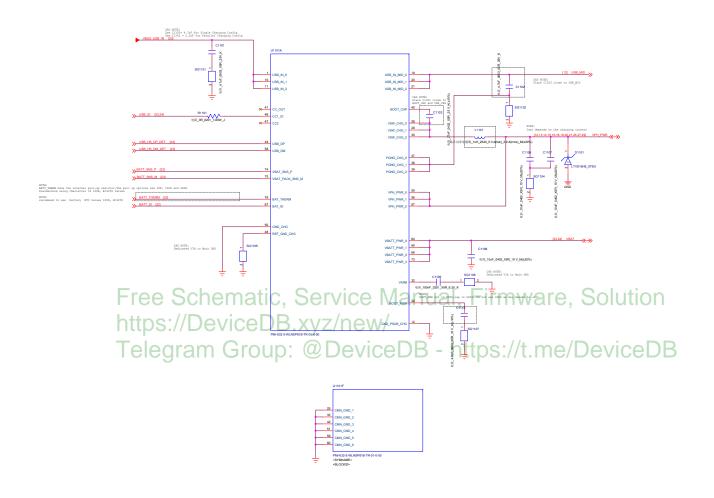


SDM439 POWER1



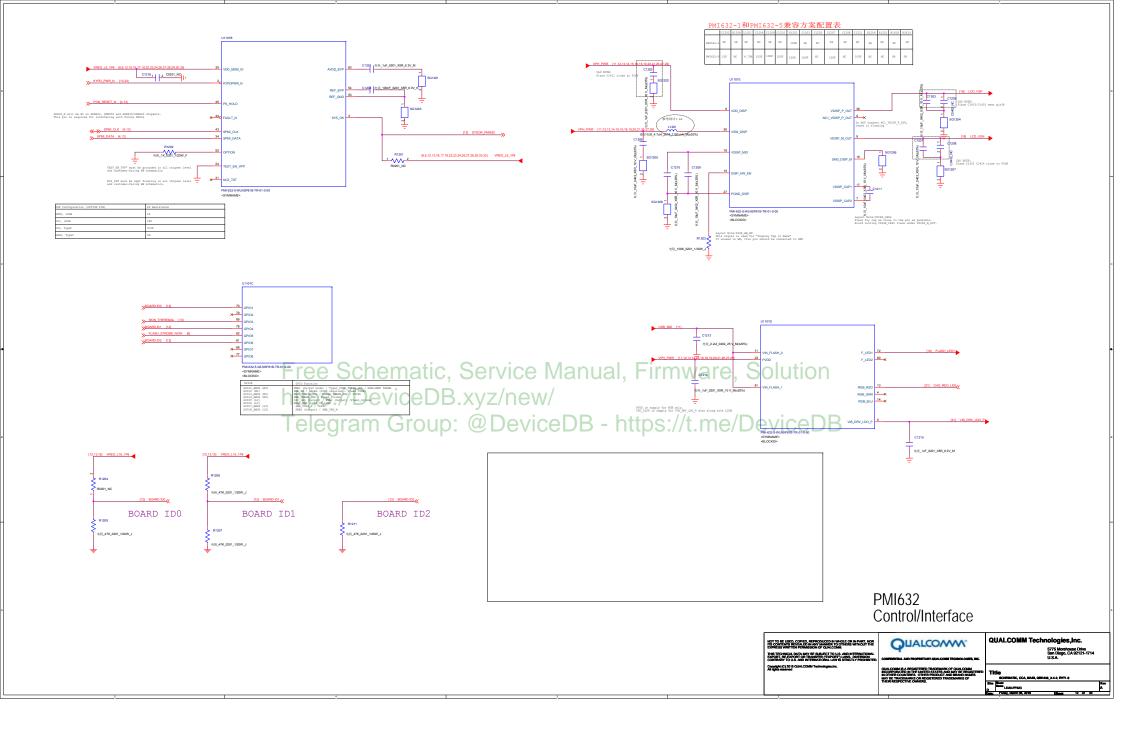


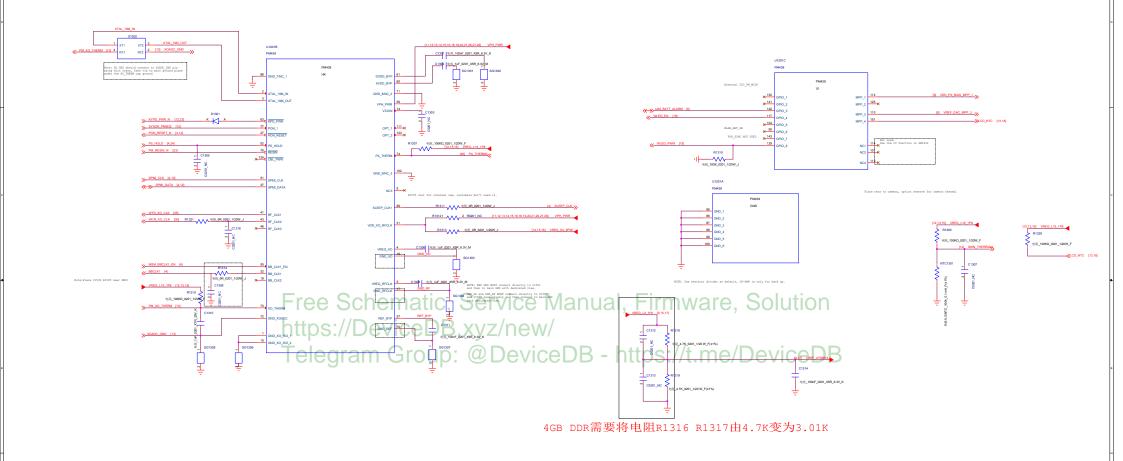




PMI632 Charger

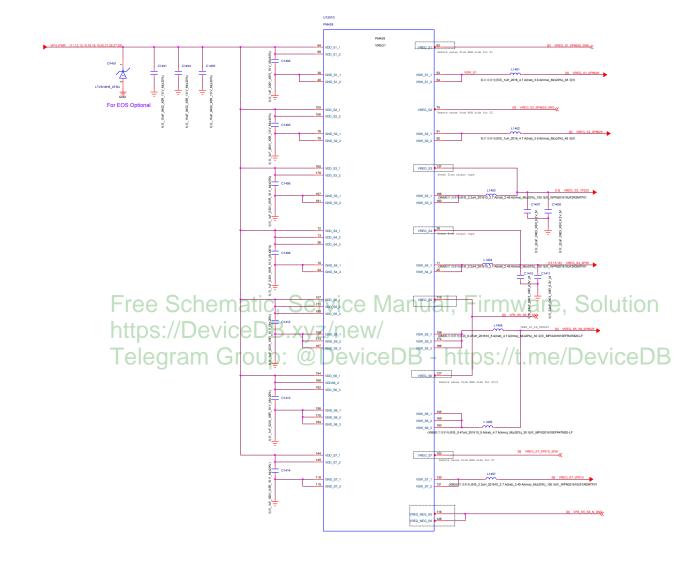






PM439 Control/Interface





PM439 SMPS



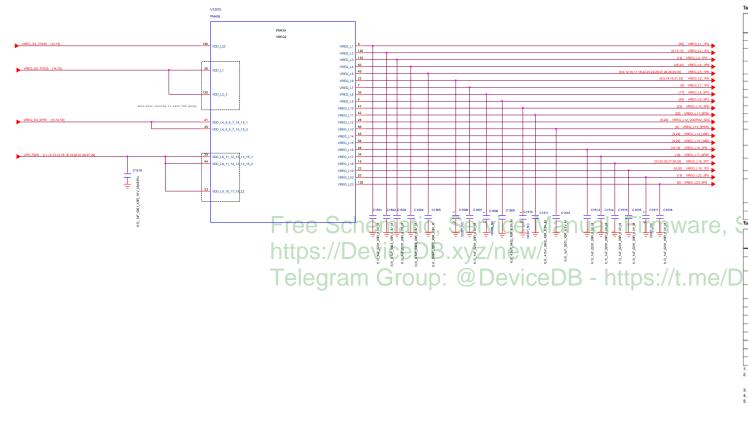


Table 3-6 PM439 regulators and their intended uses for SDM439/SDM429 when paired with PMI632

Function	Circuit type	Default voltage (V) ¹	Specified range (V) ² (SDM439/SDM429)	Programmable range (V)	Rated current (mA)	Default on	Expected use (SDM439/SDM429)
\$1	SMPS	0.744	0.4-1.14	0.32-2.04	3000	N	MSM modem
82	SMPS	0.744	0.4-1.14	0.32-2.04	4000	Y	MSM core and graphics
53	SMPS	1.28	1.2-1.25	0.32-2.04	2000	Y	MIPI CSI, and DSI. Low-voltage LDC (1, 2, 3, and 23)
54	SMPS	2.04	1.8-2.04	0.32-2.04	2000	Y	High-voltage LDOs (4, 5, 6, 7, 16, and 19)
55	SMPS	0.735	0.4-1.14	0.350=1.355	3750	Y	MSM applications processor
56	SMPS	0.735	0.4-1,14	0.350-1.355	3750	Y	MSM applications processor
87	SMPS	0.752	0.4-1.14	0.32-2.04	2000	Y	MSM VDD memory rail (VDDMX)
L1	NMOS LDO	1.0 3	1.03	0.375-1.5375	600	N	RFICs
L2	NMOS LDO	1.2	12	0.375-1.5375	1200	Y	VREF generator for LPDDR3
L3	NMOS LDO	1.2	1.2 07 .6	0.375-1.5375	600	N	Camera digital
L4	PMOS LDO	1.800	1,800	1.750=3.3375	450	N	RFICs and GPS eLNA
L5 4	PMOS LDO	1.800	1,800	1.750-3.3375	600	Y	Most digital I/Os, MSM pad groups 3 and 7, LPDDR, and eMMC
L6	PMOS LDO	1.800	1.800	1.750-3.3375	300	N	MSM QFPROM, camera, touchscreen, display, and sensors
L7	PMOS LDO	1.800	1.800	1.750=3.3375	300	Y	MSM analog, USB and PLLs, WCN XO, and PM baseband clock driver
L8	PMOS LDO	2.900	2.900	1.750-3.3375	600	Y	eMMC
L9	PMOS LDO	V _{out} = 3.3 V for VBAT > 3.575 V; V _{out} = 3 V for VBAT < 3.575 V	3.000-3.300	1.750-3.3375	600	N	WCN
L10	PMOS LDO	3.0	3.0	1.750-3.3375	150	N	Sensors and touchscreen
L11 5	PMOS LDO	2.950	2.950	1.750-3.3375	800	Y	Micro SD

Function	Circuit type	Default voltage (V) ¹	Specified range (V) ² (SDM439/SDM429)	Programmable range (V)	Rated current (mA)	Default on	Expected use (SDM439/SDM429)
L12*	PMOS LDO	2.950	1.800/2.950	1.750-3.3375	50	Y	MSM pad group 2
L13	PMOS LDO	3.075	3.075	1.750-3.3375	150	Y	MSM USB and PMIC and external codec audio
L14 5	PMOS LDO	1.800	1.800	1.750-3.3375	50	N	MSM pad group 5, dual-voltage UIM1, and NFC
L15.5	PMOS LDO	1.800	1.800	1.750-3.3375	50	N	MSM pad group 6 and dual-voltage UIM2
L16	PMOS LDO	1.800	1.800	1.750-3.3375	5	N	PMIC HKADC
L17	PMOS LDO	2.850	2.850	1,750-3.3375	300	N	Camera and display
L18	PMOS LDO	2.700	2.700	1,750-3.3375	150	N	QTI RF front-end
L19	NMOS LDO	1.350	1,350	0.375-1.5375	600	N	MSM analog, WCN, and WGR
L20	Low-noise LDO	1.7625	1.7625	1.74-3.3375	5	Y	PMIC XO circuits
L21	Low-noise LDO	1.7625	1.7625	1.74=3.3375	5	N	PMIC RF clock buffers
L22	PMOS LDO	2.800	2.800	1.750-3.3375	150	N	Camera: analog
L23	NMOS LDO	0.8	0.8	0.375-1.5375	600	Y	MIPI CSI, DSI, and USB

A. All regulators have default voltage settings, whether or not they default on; the voltage and state depends upon the programmable boot sequence (PBS) configuration.

2. The specified voltage range is the programmed range for which performance is guaranteed to meet all specifications.

For usage contains the range, such are use to DTI for approximation.

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NOTICE LOV-ratio current specification are only valid white maintaining their specified headdoors.

NOTICE LOV-ratio current specification are only valid white maintaining their specified headdoors.

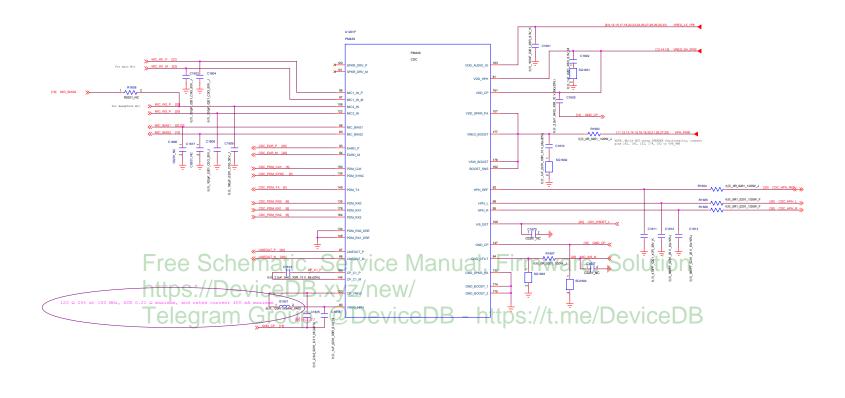
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NOTICE LOV-ratio current specification are only valid white maintaining their specified headdoors.

NOTICE LOV-ratio current specification are only valid with the programmed voltage and state of the control of the specified or the sp

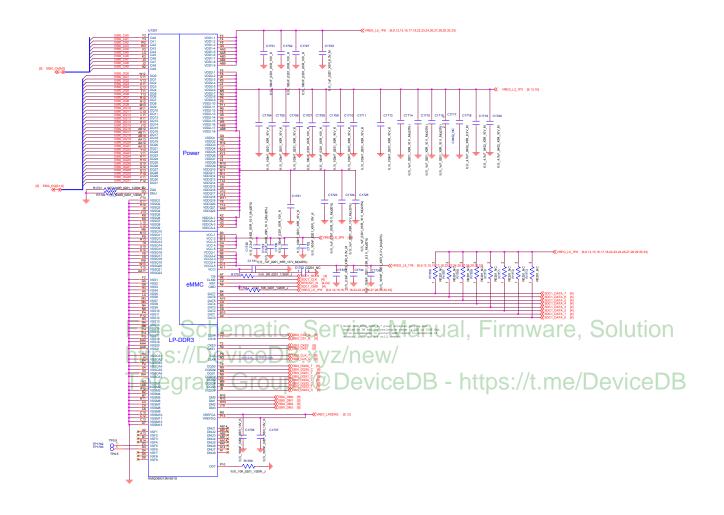
PM439 LDO

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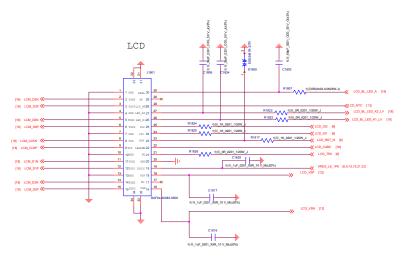
PM439 CODEC/Audio PA

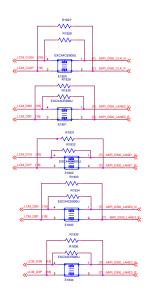




MEMORY(LPDDR3+EMMC V5.1)

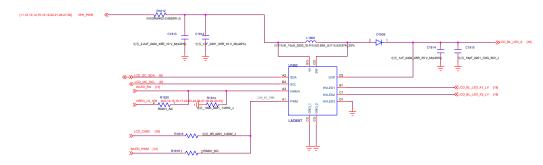






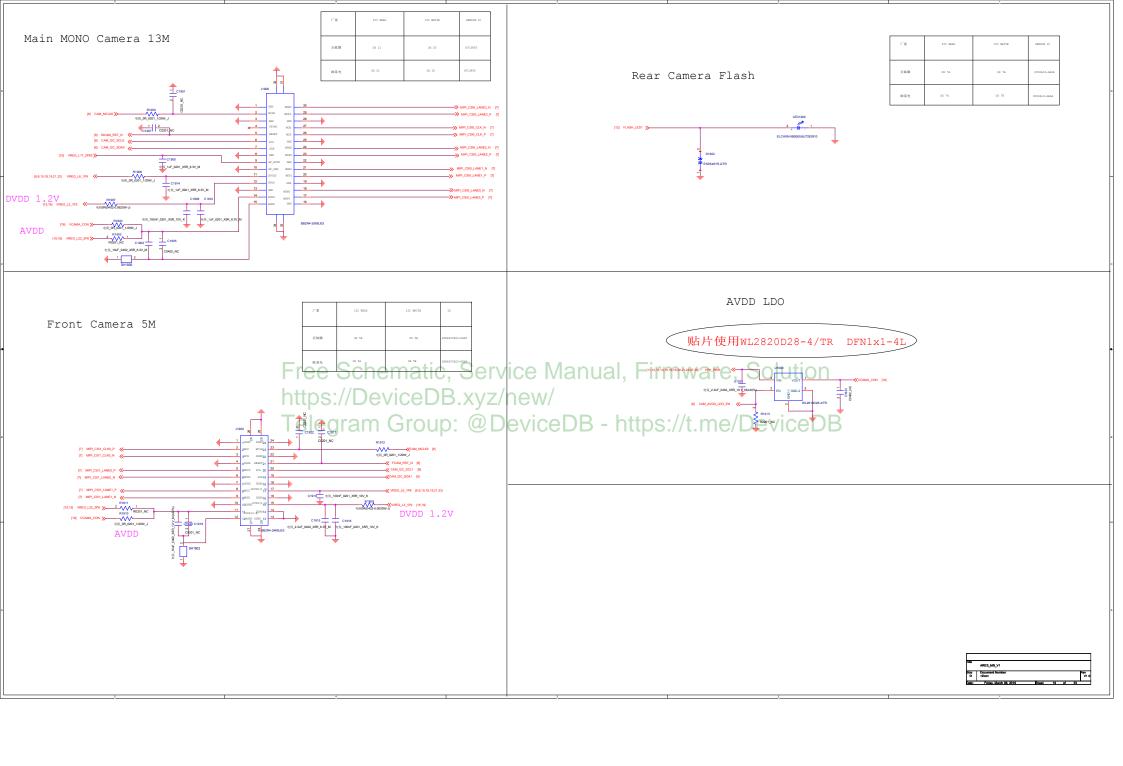
CAP tolerance above 50V!!!

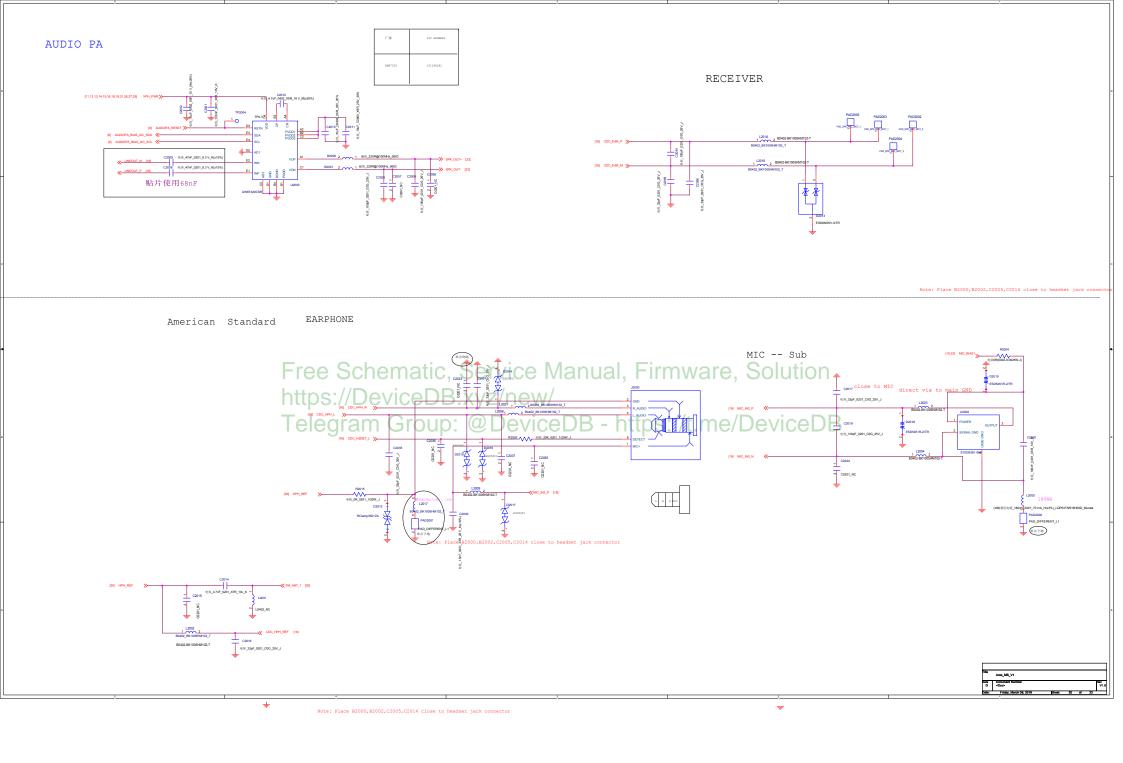
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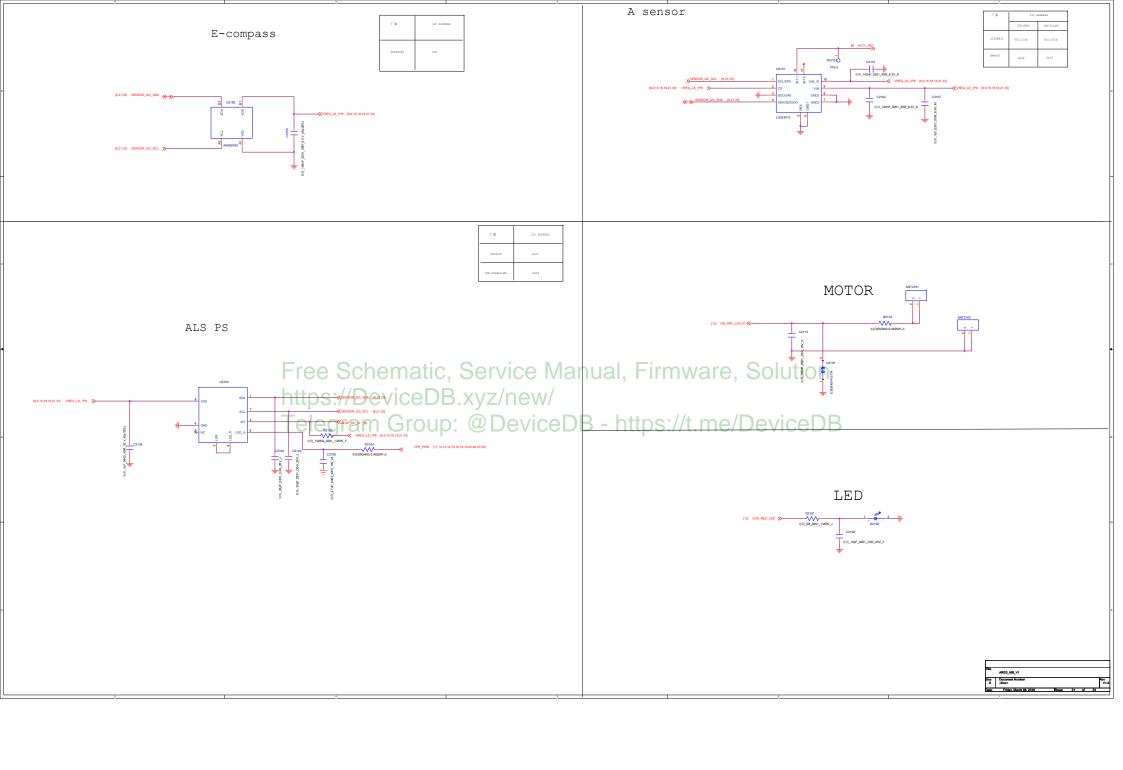


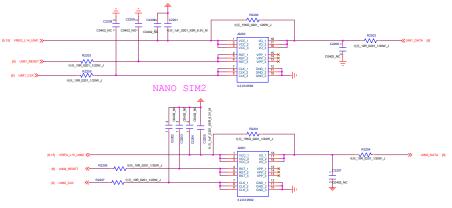
LCD backlight

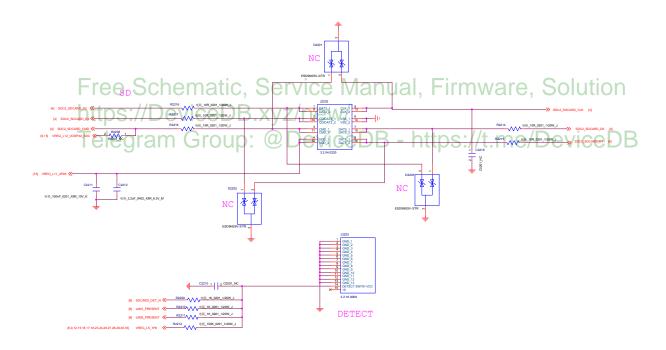


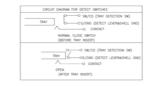


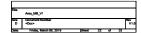


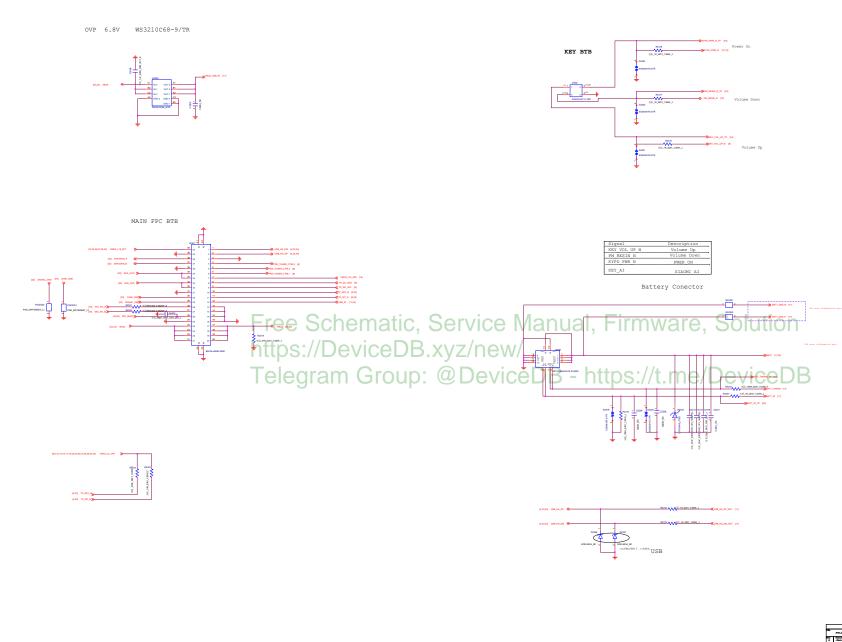




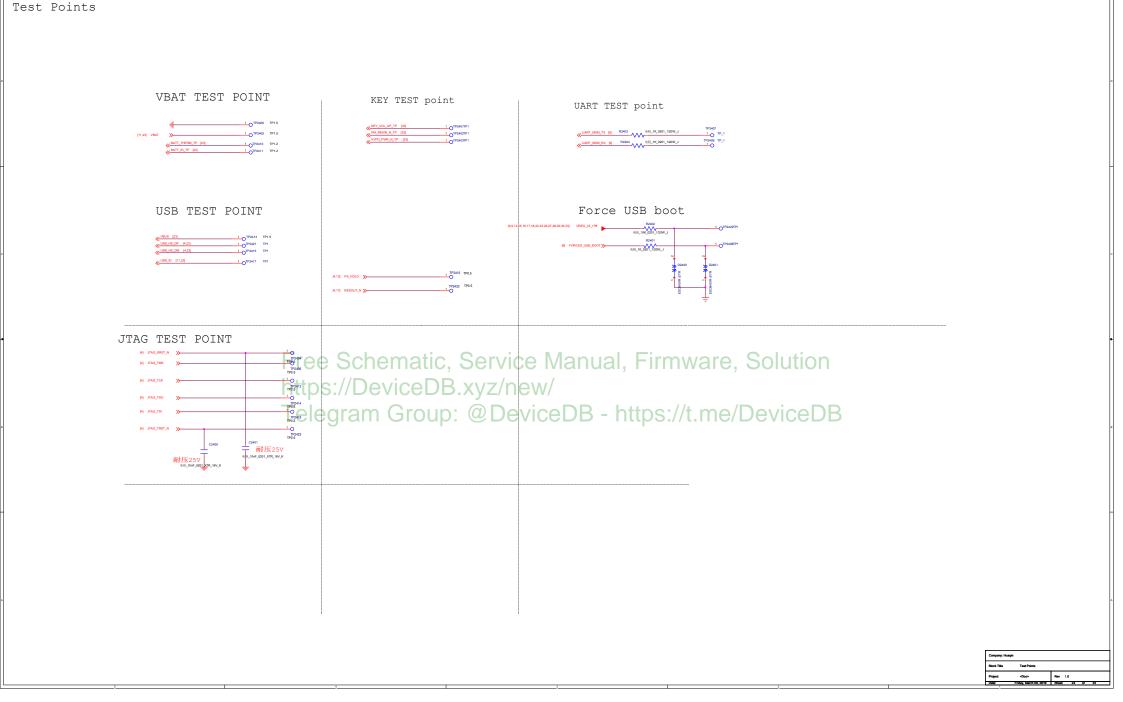


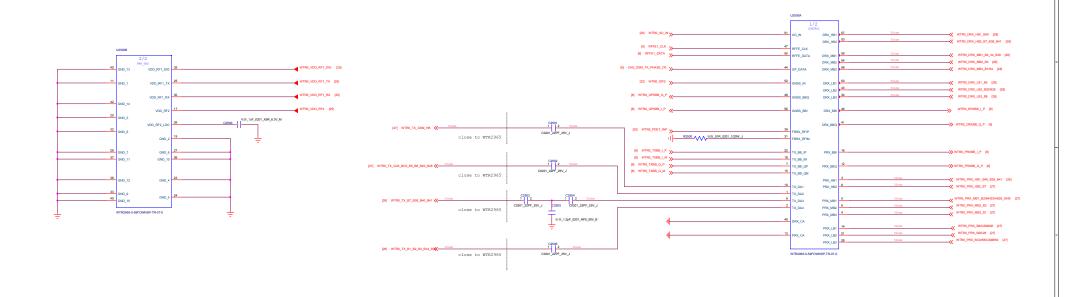


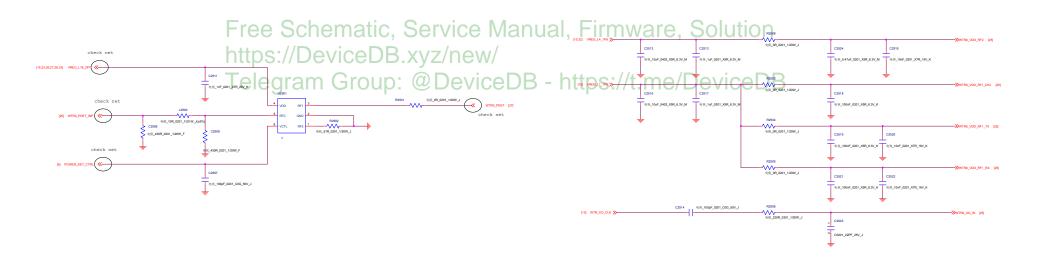


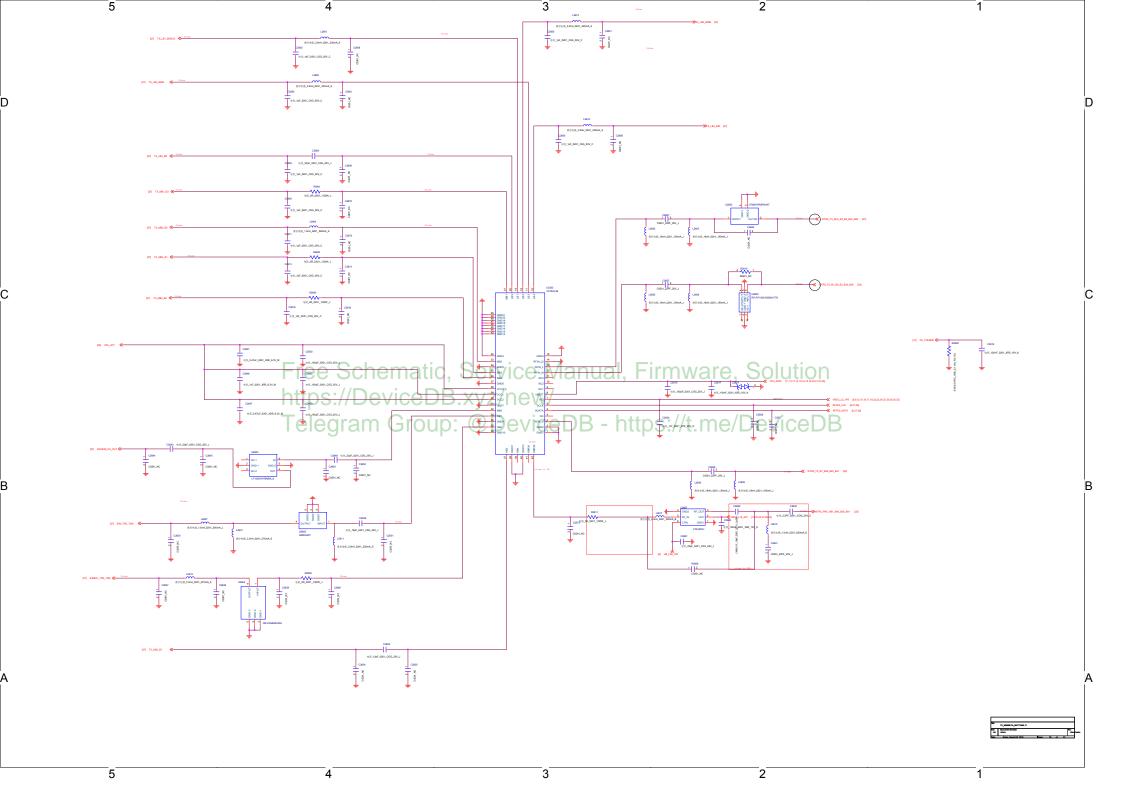


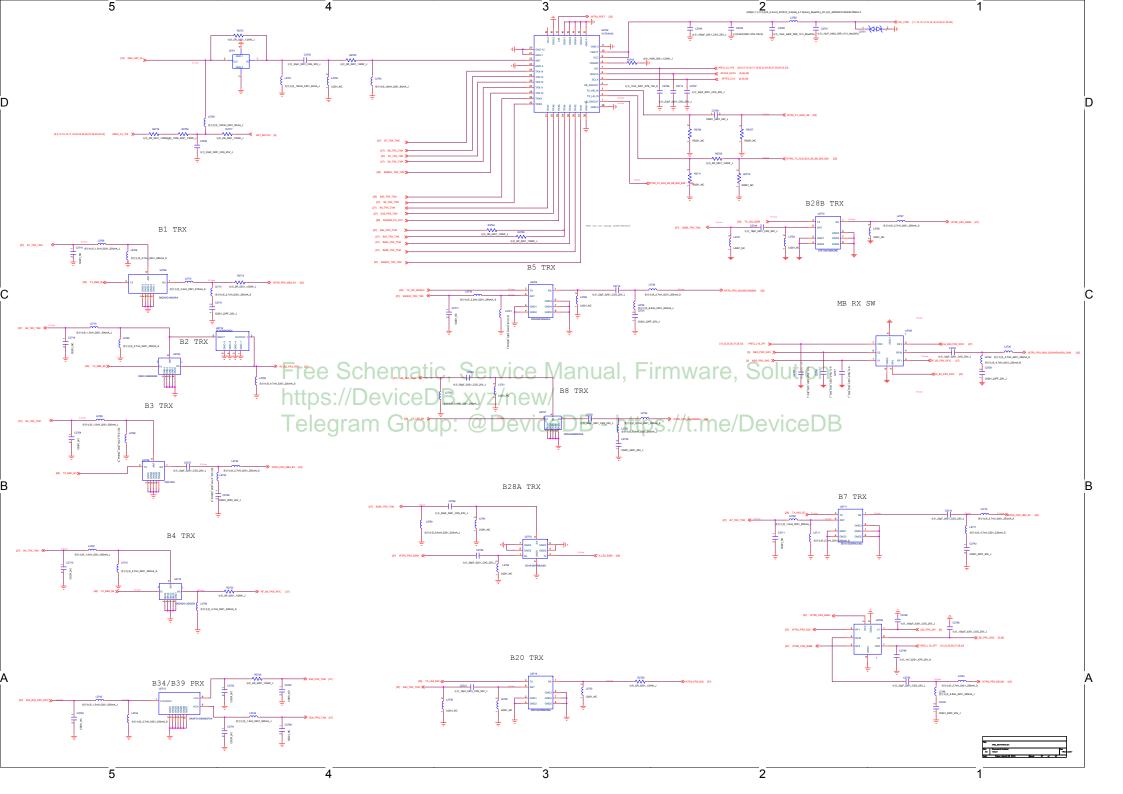


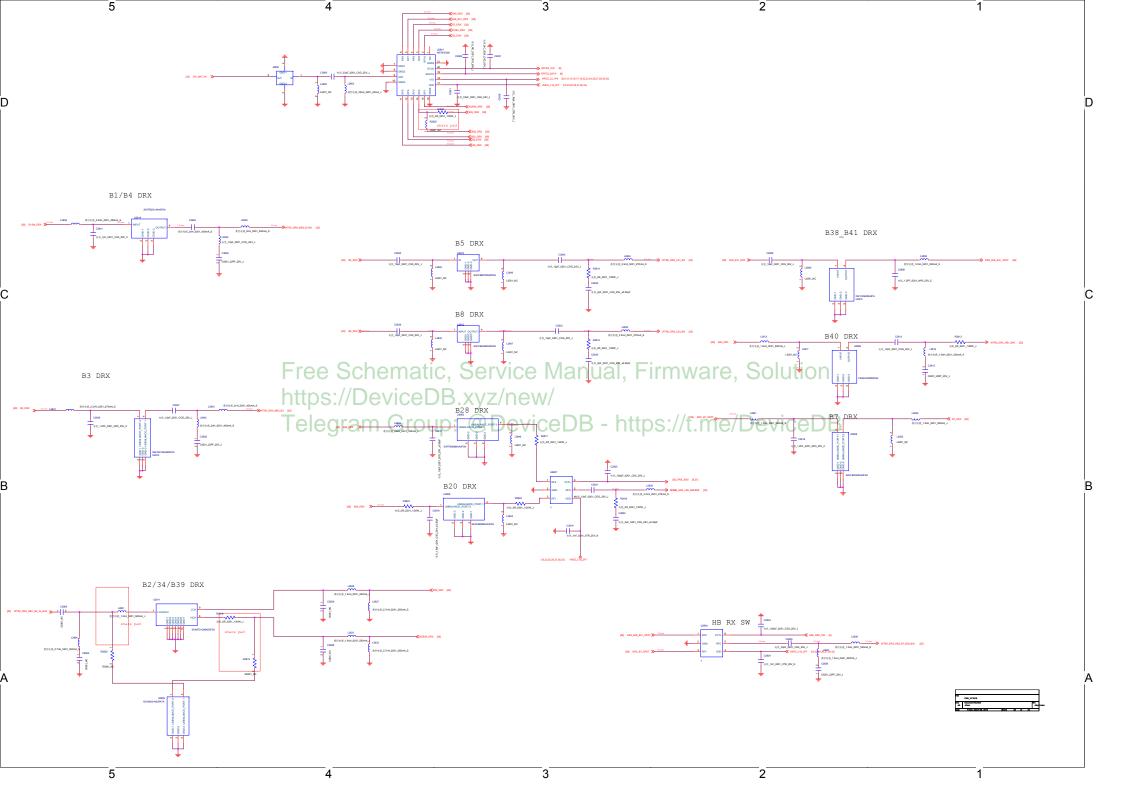


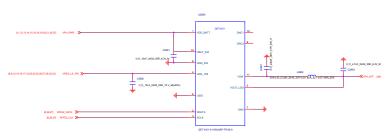






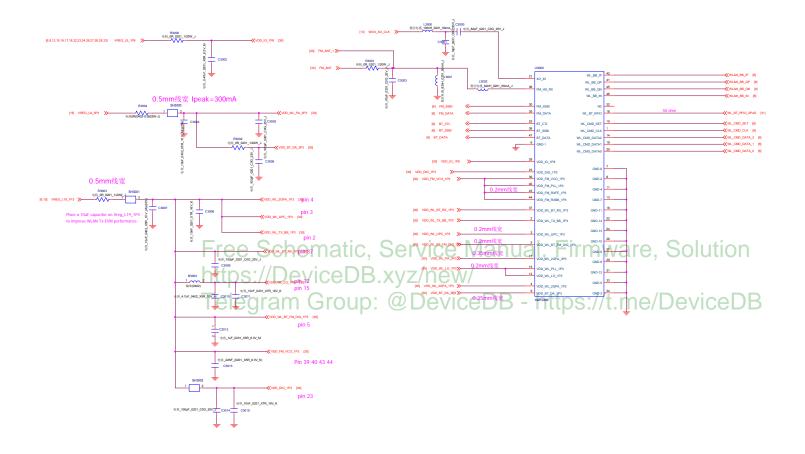




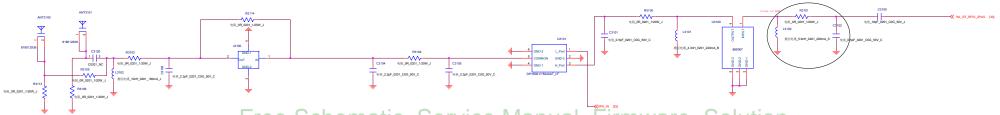


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