Title: Page Name = Table of Content

REV: V10

DOCUMENT NO: Design Name + 80-NL1_1-SB01_20160808105

Size: D

DEPARTMENT: DEPARTMENT + DIRECTION/JOB

DWG NO: DWG NO + wingtech

WINGTECH

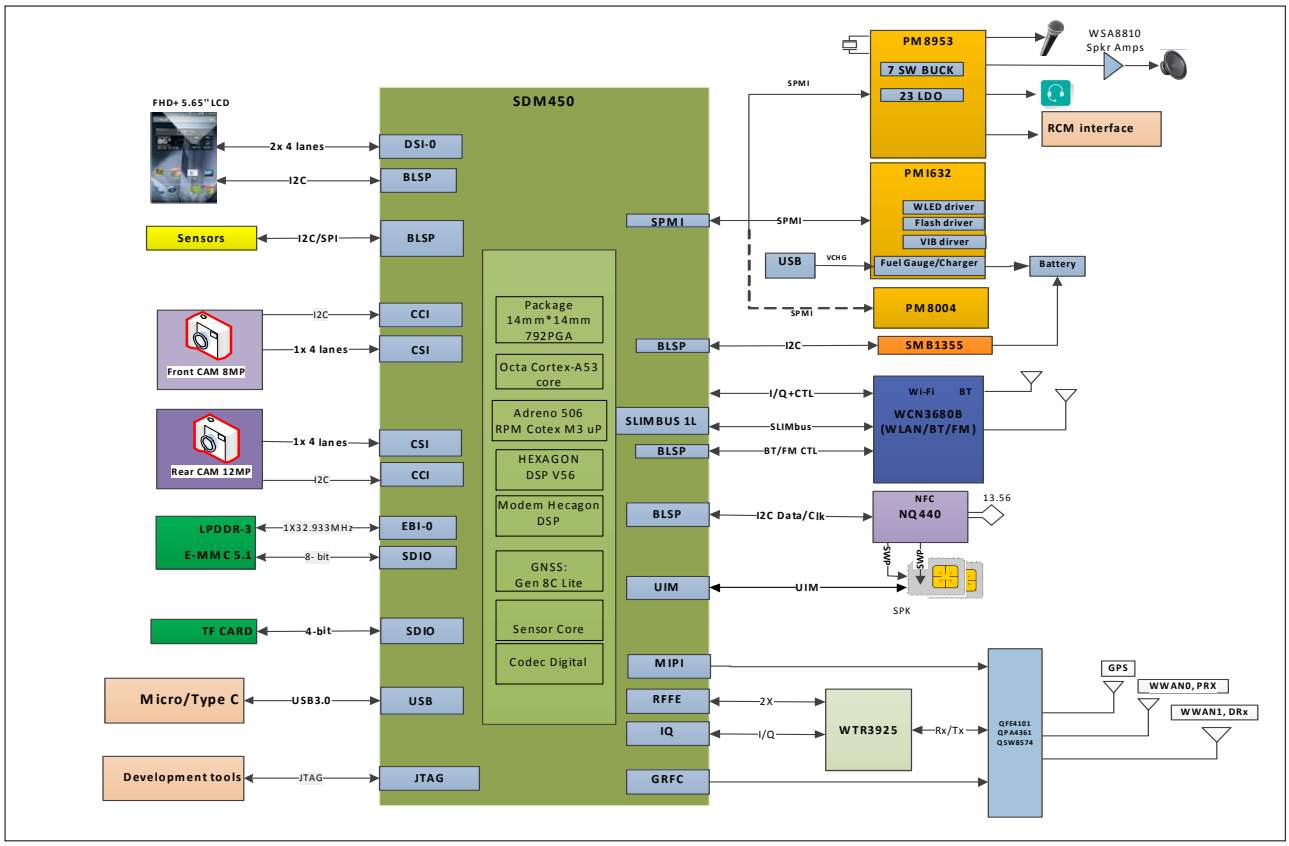
Sheet: Page Modify Date + Thursday, August 11, 2016 1 of 62

Revision History

REV	DESCRIPTION
A	EVT1.2 release. The detailed change refer to item 29 to 34 on page <Change list>.

Board Change History

SCHEMATIC MCN	HW VERSION	REVISION	DESCRIPTION OF CHANGE
LD20-PF494-11	EVT1.0	A	Preliminary release for early reference.
		B	The detailed change refer to item 1 to 8 on page <Change list>.
		C	The detailed change refer to item 9 to 18 on page <Change list>.
LD20-PF494-12	EVT1.1	A	The detailed change refer to item 19 to 26 on page <Change list>.
		B	The detailed change refer to item 27 to 28 on page <Change list>.
LD20-PF494-13	EVT1.2	A	The detailed change refer to item 29 to 34 on page <Change list>.


SDM450
FHD+ 5.65" LCD
2x 4 lanes
DSI-0
I2C
BLSP
Sensors
I2C/SPI
BLSP
I2C
CCI
1x 4 lanes
CSI
Front CAM 8MP
1x 4 lanes
CSI
I2C
CCI
Rear CAM 12MP
LPDDR-3
E-MMC 5.1
1X32.933MHz
8- bit
EBI-0
SDIO
TF CARD
4-bit
SDIO
Micro/Type C
USB3.0
USB
Development tools
JTAG
JTAG
Package 14mm*14mm 792PGA
Octa Cortex-A53 core
Adreno 506 RPM Cotex M3 uP
HEXAGON DSP V56
Modem Hecagon DSP
GNSS: Gen 8C Lite
Sensor Core
Codec Digital
SPMI
BLSP
SLIMBUS 1L
BLSP
BLSP
UIM
MIPI
RFFE
IQ
GRFC
PM8953
7 SW BUCK
23 LDO
WSA8810
Spkr Amps
RCM interface
PMI632
WLED driver
Flash driver
VIB dirver
Fuel Gauge/Charger
USB
VCHG
Battery
PM8004
SMB1355
I2C
I/Q+CTL
SLIMbus
BT/FM CTL
Wi-Fi
BT
WCN3680B (WLAN/BT/FM)
I2C Data/Clk
NFC
NQ440
13.56
SWP
SWP
UIM
SPK
2X
I/Q
WTR3925
Rx/Tx
QFE4101
QPA4361
QSW8574
GPS
WWAN0, PRX
WWAN1, DRx

SDM450 GPIO Configuration For QRD450+PMI632

GPIO_0		GPIO_41	DTV_EN	GPIO_82	FM_DATA
GPIO_1		GPIO_42	ACC_GYRO_INT1	GPIO_83	BT_CTL
GPIO_2	PD_I2C_SDA	GPIO_43	ALSP_INT	GPIO_84	BT_DATA
GPIO_3	PD_I2C_SCL	GPIO_44		GPIO_85	KEY_VOL_UP_N
GPIO_4	UART_TX_2	GPIO_45	ACC_GYRO_INT2	GPIO_86	SAR_PS_INT
GPIO_5	UART_RX_2	GPIO_46		GPIO_87	ANT_MATCH_H
GPIO_6	SAR_SPA_I2C_SDA	GPIO_47		GPIO_88	SPKPA_I2S_DATAI
GPIO_7	SAR_SPA_I2C_SCL	GPIO_48	FP_INT	GPIO_89	DTV_RST
GPIO_8	FP_RST_N	GPIO_49	UIM_BATT_ALARM	GPIO_90	
GPIO_9	CC_INT	GPIO_50	CAM_DVDD_EN	GPIO_91	SPKPA_I2S_BCK
GPIO_10	TP_I2C_SDA	GPIO_51	UIM1_DATA	GPIO_92	SPKPA_I2S_LRCK
GPIO_11	TP_I2C_SCL	GPIO_52	UIM1_CLK	GPIO_93	SPKPA_I2S_DATAO
GPIO_12	FP_LDOEN_3V3	GPIO_53	UIM1_RESET	GPIO_94	AUDIO_PA_RST
GPIO_13		GPIO_54	UIM1_PRESENT	GPIO_95	TP_LDO_1V8_EN
GPIO_14	SENSOR_I2C_SDA	GPIO_55	UIM2_DATA	GPIO_96	FP_SPI_MOSI
GPIO_15	SENSOR_I2C_SCL	GPIO_56	UIM2_CLK	GPIO_97	FP_SPI_MISO
GPIO_16	NFC_DISABLE	GPIO_57	UIM2_RESET	GPIO_98	FP_SPI_CS
GPIO_17	NFC_IRQ	GPIO_58	UIM2_PRESENT	GPIO_99	FP_SPI_CLK
GPIO_18	NFC_LCD_I2C_SDA	GPIO_59	SPK/REC_SW_EN	GPIO_100	
GPIO_19	NFC_LCD_I2C_SCL	GPIO_60		GPIO_101	GRFC1_SEL
GPIO_20	SENSOR_SPI_MOSI	GPIO_61	LCD_RST	GPIO_102	GRFC2_SEL
GPIO_21	SENSOR_SPI_MISO	GPIO_62		GPIO_103	GRFC3_SEL
GPIO_22	SENSOR_SPI_CS0_N	GPIO_63	SPKPA_INT	GPIO_104	
GPIO_23	SENSOR_SPI_CLK	GPIO_64	TP_RST	GPIO_105	
GPIO_24	LCD_TE	GPIO_65	TP_IN	GPIO_106	WDOG_DISABLE
GPIO_25	LCD_ID1	GPIO_66	LCD_ID0	GPIO_107	GRFC7_SEL
GPIO_26	CAM_MCLK0	GPIO_67	CDC_PDM_RX0_COMP	GPIO_108	GRFC8_SEL
GPIO_27	CAM_MCLK1	GPIO_68	CDC_PDM_RX1_COMP	GPIO_109	
GPIO_28		GPIO_69	CDC_PDM_CLK	GPIO_110	GRFC10_SEL
GPIO_29	CAM_I2C_SDA0	GPIO_70	CDC_PDM_SYNC	GPIO_111	GRFC11_SEL
GPIO_30	CAM_I2C_SCL0	GPIO_71	CDC_PDM_TX	GPIO_112	GRFC12_SEL
GPIO_31	CAM_I2C_SDA1	GPIO_72	CDC_PDM_RX0	GPIO_113	
GPIO_32	CAM_I2C_SCL1	GPIO_73	CDC_PDM_RX1	GPIO_114	GRFC14_SEL
GPIO_33		GPIO_74	CDC_PDM_RX2	GPIO_115	GRFC15_SEL
GPIO_34	FLASH_STROBE_NOW	GPIO_75	BT_SSBI	GPIO_116	EXT_GPS_LNA_EN
GPIO_35	CAM_AVDD_EN	GPIO_76	WL_CMD_DATA_2	GPIO_117	CH0_GSM_TX_PHASE_D0
GPIO_36	FP_LDOEN_1V8	GPIO_77	WL_CMD_DATA_1	GPIO_118	RFFE1_CLK
GPIO_37	FORCED_USB_BOOT	GPIO_78	WL_CMD_DATA_0	GPIO_119	RFFE1_DATA
GPIO_38	GPIO38_DTV_EINT	GPIO_79	WL_CMD_SET	GPIO_120	RFFE2_CLK
GPIO_39	REAR_MCAM_PWDN	GPIO_80	WL_CMD_CLK	GPIO_121	RFFE2_DATA
GPIO_40		GPIO_81	FM_SSBI	GPIO_122	

GPIO_123		GPIO_134	BOARD_ID2
GPIO_124	RFFE5_CLK	GPIO_135	DTV_SPI_CLK
GPIO_125	RFFE5_DATA	GPIO_136	DTV_SPI_CS_N
GPIO_126		GPIO_137	DTV_SPI_MOSI
GPIO_127		GPIO_138	DTV_SPI_MISO
GPIO_128	SPK/REC_SW_IN	GPIO_139	USB_SS_SEL
GPIO_129		GPIO_140	
GPIO_130	FRONT_CAM_RST	GPIO_141	
GPIO_131	BOARD_ID1		
GPIO_132			
GPIO_133	SDCARD_DET_N		

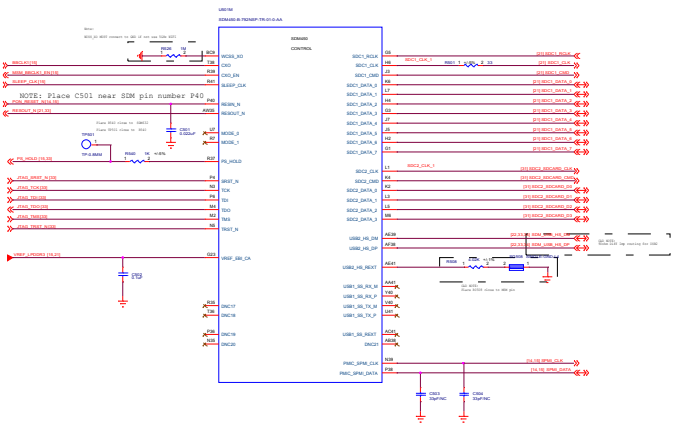
PMI632 GPIO/MPP Configuration

GPIO_1	TYPE_C_CON_THERMAL	GPIO_5	
GPIO_2		GPIO_6	NEBULA_PWM
GPIO_3	QUITE_THERMAL	GPIO_7	
GPIO_4	FLASH_STROBE_NOW	GPIO_8	

PM8953 GPIO/MPP Configuration

GPIO_1		MPP_1	VDD_PX_BIAS_MPP_1
GPIO_2	NFC_CLK_REQ	MPP_2	CHG_THERM
GPIO_3	UIM_BATT_ALARM	MPP_3	VREF_DAC_MPP_3
GPIO_4	WLED_EN	MPP_4	MSM_THERM
GPIO_5			
GPIO_6	VIB_RST_N		
GPIO_7			
GPIO_8	LCD_BL_PWM		

GPIO TABLE



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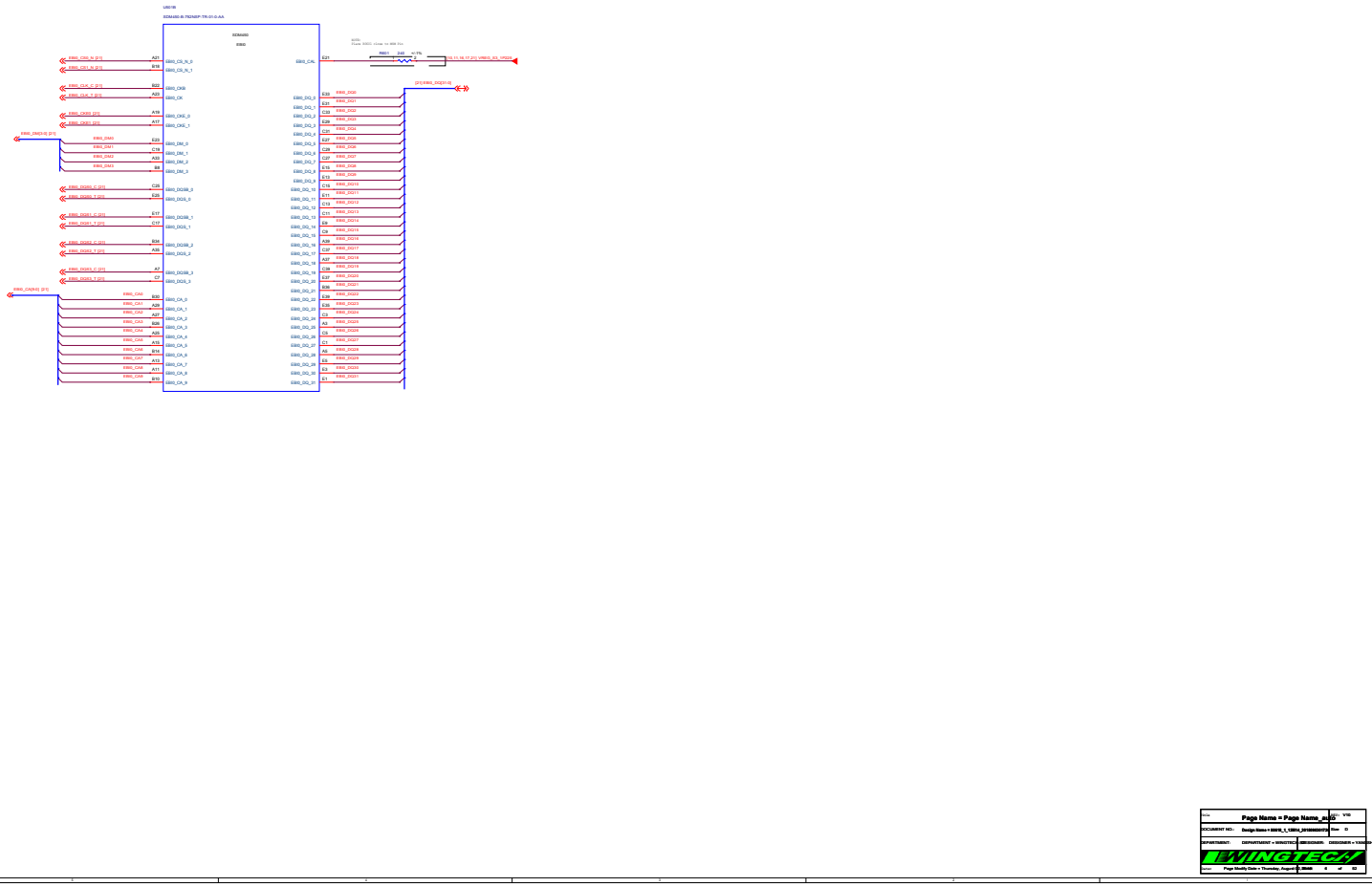

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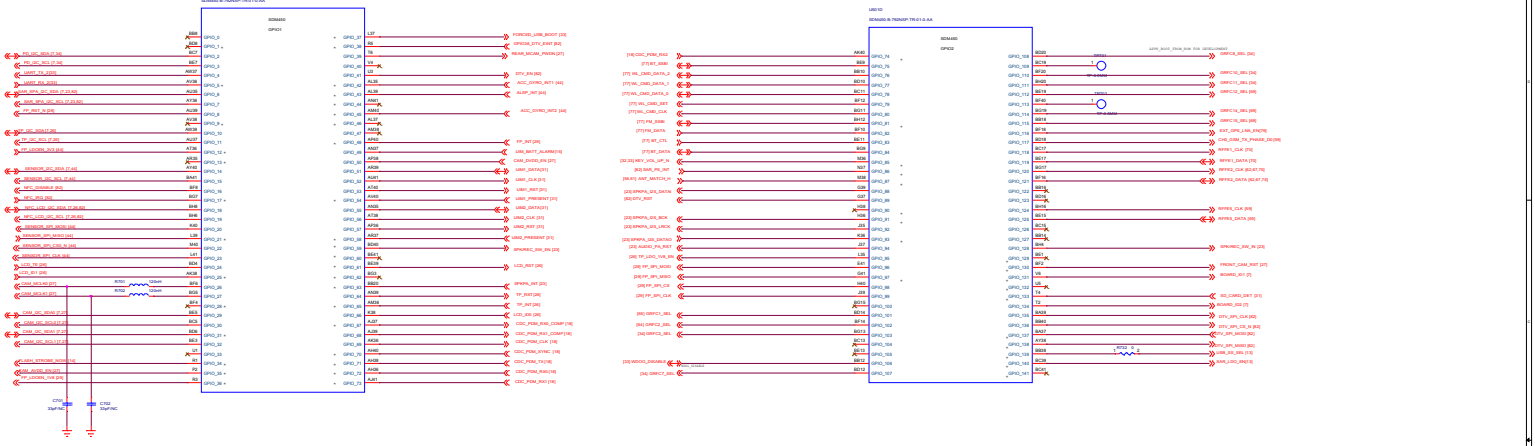
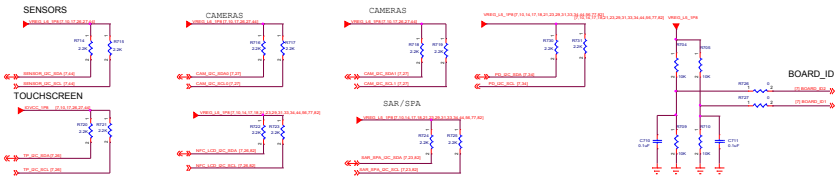
Date:	Page Modify Date = Thursday, August 01, 2019	Sheet	4 of 53

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



Change pull up resistors is 2.2K

I2C PULL-UP RESISTORS



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.

GPIO_0	WAKE_SPA_REQ
GPIO_1	WAKE_HOST
GPIO_2	WAKE_SPA_REQ
GPIO_3	WAKE_HOST
GPIO_4	
GPIO_5	
GPIO_6	
GPIO_7	

BOOT_CONFIG[2:0]	BOOT_CONFIG
0x000	000 = SDC1 -> SDC-1
0x001	001 = SDC1 -> SDC-2
0x010	010 = SDC1 -> SDC-3
0x011	011 = SDC1 -> SDC-4
0x111	SDC-2

Default Boot Config (0x111) is SDC1->SDC-2

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WINGTECH					
Date:	Page Modify Date = Wednesday, September 30, 2015			Time:	17 of 53

CSI Pin Name	CSI DPHY 4-lane	CSI DPHY 2+1 Mode	CSI CPHY 3Phase Mode
CSI0_3PHASE_PIN0	CSI0_CLKP	CSI0_2LANE_CLKP	NC
CSI0_3PHASE_PIN1	CSI0_CLKN	CSI0_2LANE_CLKN	CSI0_TRI0_A
CSI0_3PHASE_PIN2	CSI0_DP0	CSI0_2LANE_DP0	CSI0_TRI0_B
CSI0_3PHASE_PIN3	CSI0_DN0	CSI0_2LANE_DN0	CSI0_TRI0_C
CSI0_3PHASE_PIN4	CSI0_DP1	CSI0_2LANE_DP1	CSI0_TRI1_A
CSI0_3PHASE_PIN5	CSI0_DN1	CSI0_2LANE_DN1	CSI0_TRI1_B
CSI0_3PHASE_PIN6	CSI0_DP2	CSI0_1LANE_DP0	CSI0_TRI1_C
CSI0_3PHASE_PIN7	CSI0_DN2	CSI0_1LANE_DN0	CSI0_TRI2_A
CSI0_3PHASE_PIN8	CSI0_DP3	CSI0_1LANE_CLKP	CSI0_TRI2_B
CSI0_3PHASE_PIN9	CSI0_DN3	CSI0_1LANE_CLKN	CSI0_TRI2_C
CSI1_3PHASE_PIN0	CSI1_CLKP	CSI1_2LANE_CLKP	NC
CSI1_3PHASE_PIN1	CSI1_CLKN	CSI1_2LANE_CLKN	CSI1_TRI0_A
CSI1_3PHASE_PIN2	CSI1_DP0	CSI1_2LANE_DP0	CSI1_TRI0_B
CSI1_3PHASE_PIN3	CSI1_DN0	CSI1_2LANE_DN0	CSI1_TRI0_C
CSI1_3PHASE_PIN4	CSI1_DP1	CSI1_2LANE_DP1	CSI1_TRI1_A
CSI1_3PHASE_PIN5	CSI1_DN1	CSI1_2LANE_DN1	CSI1_TRI1_B
CSI1_3PHASE_PIN6	CSI1_DP2	CSI1_1LANE_DP0	CSI1_TRI1_C
CSI1_3PHASE_PIN7	CSI1_DN2	CSI1_1LANE_DN0	CSI1_TRI2_A
CSI1_3PHASE_PIN8	CSI1_DP3	CSI1_1LANE_CLKP	CSI1_TRI2_B
CSI1_3PHASE_PIN9	CSI1_DN3	CSI1_1LANE_CLKN	CSI1_TRI2_C
CSI2_3PHASE_PIN0	CSI2_CLKP	CSI2_2LANE_CLKP	NC
CSI2_3PHASE_PIN1	CSI2_CLKN	CSI2_2LANE_CLKN	CSI2_TRI0_A
CSI2_3PHASE_PIN2	CSI2_DP0	CSI2_2LANE_DP0	CSI2_TRI0_B
CSI2_3PHASE_PIN3	CSI2_DN0	CSI2_2LANE_DN0	CSI2_TRI0_C
CSI2_3PHASE_PIN4	CSI2_DP1	CSI2_2LANE_DP1	CSI2_TRI1_A
CSI2_3PHASE_PIN5	CSI2_DN1	CSI2_2LANE_DN1	CSI2_TRI1_B
CSI2_3PHASE_PIN6	CSI2_DP2	CSI2_1LANE_DP0	CSI2_TRI1_C
CSI2_3PHASE_PIN7	CSI2_DN2	CSI2_1LANE_DN0	CSI2_TRI2_A
CSI2_3PHASE_PIN8	CSI2_DP3	CSI2_1LANE_CLKP	CSI2_TRI2_B
CSI2_3PHASE_PIN9	CSI2_DN3	CSI2_1LANE_CLKN	CSI2_TRI2_C

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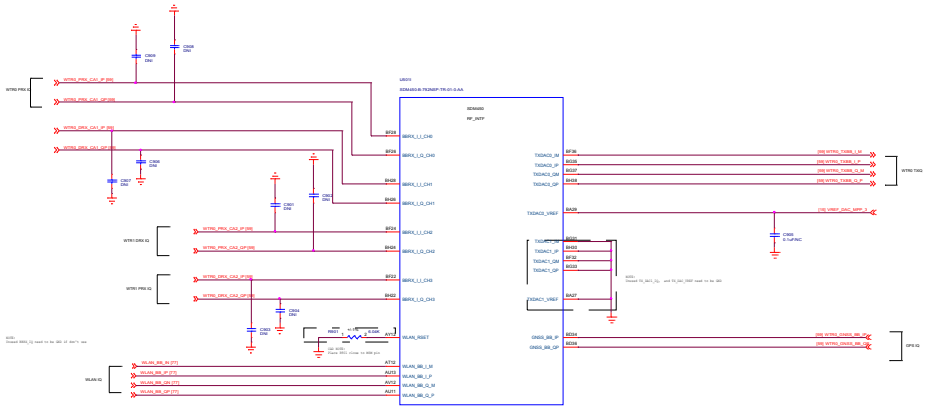

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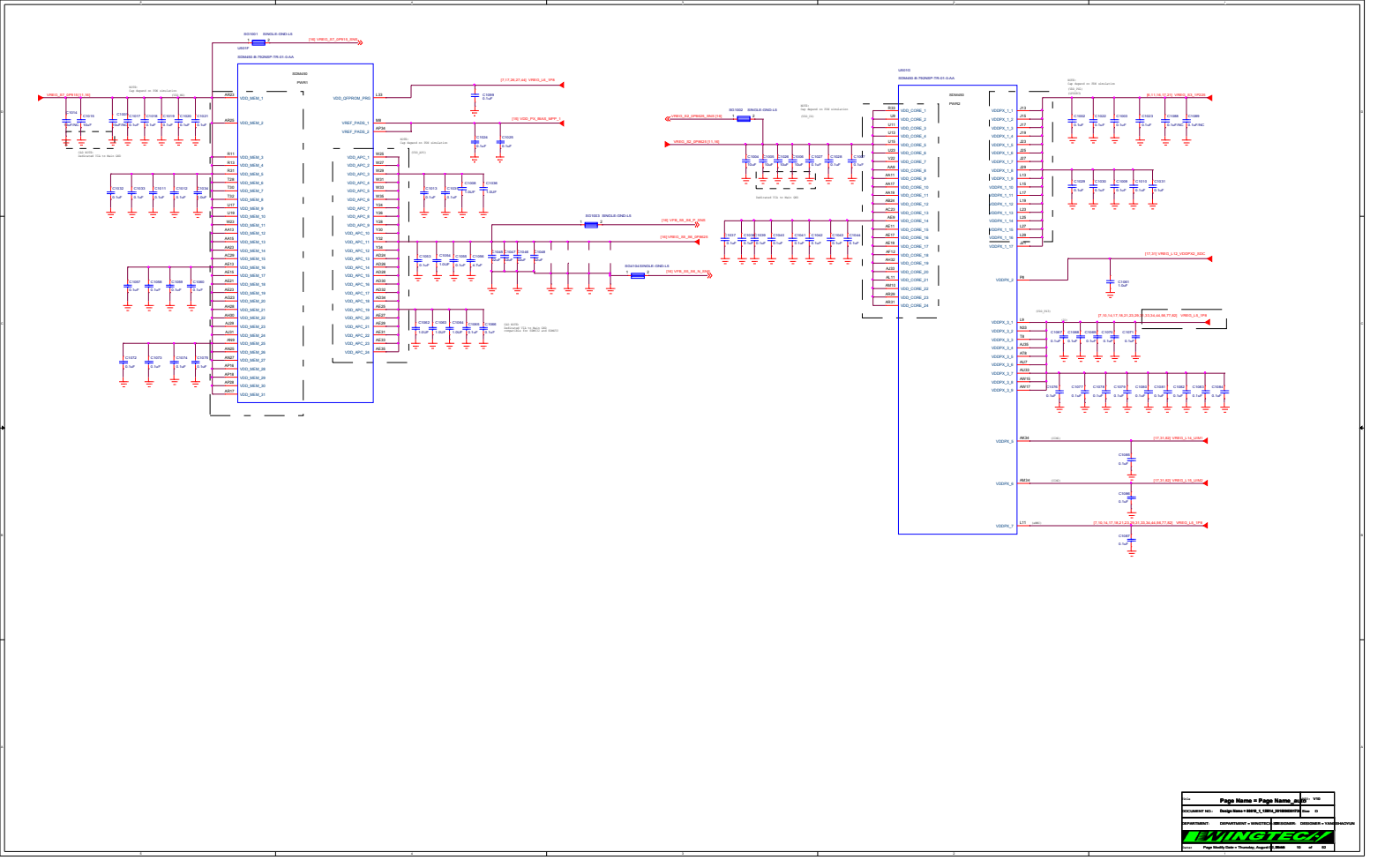

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Rev	V1E
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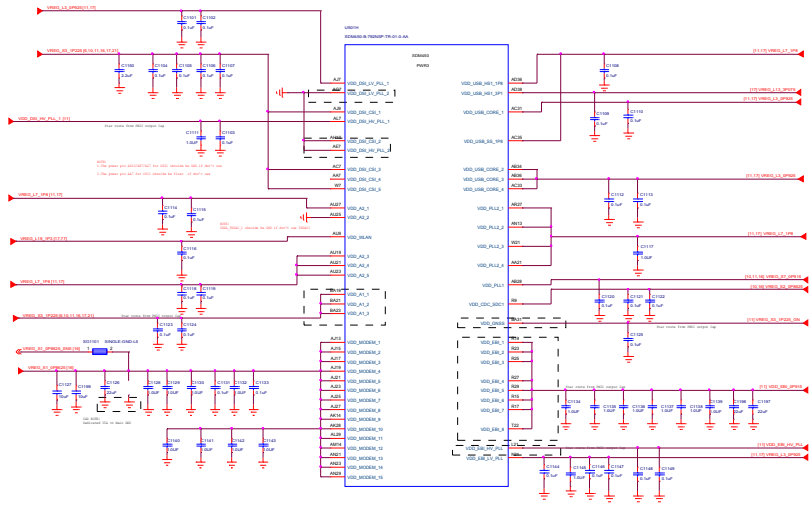

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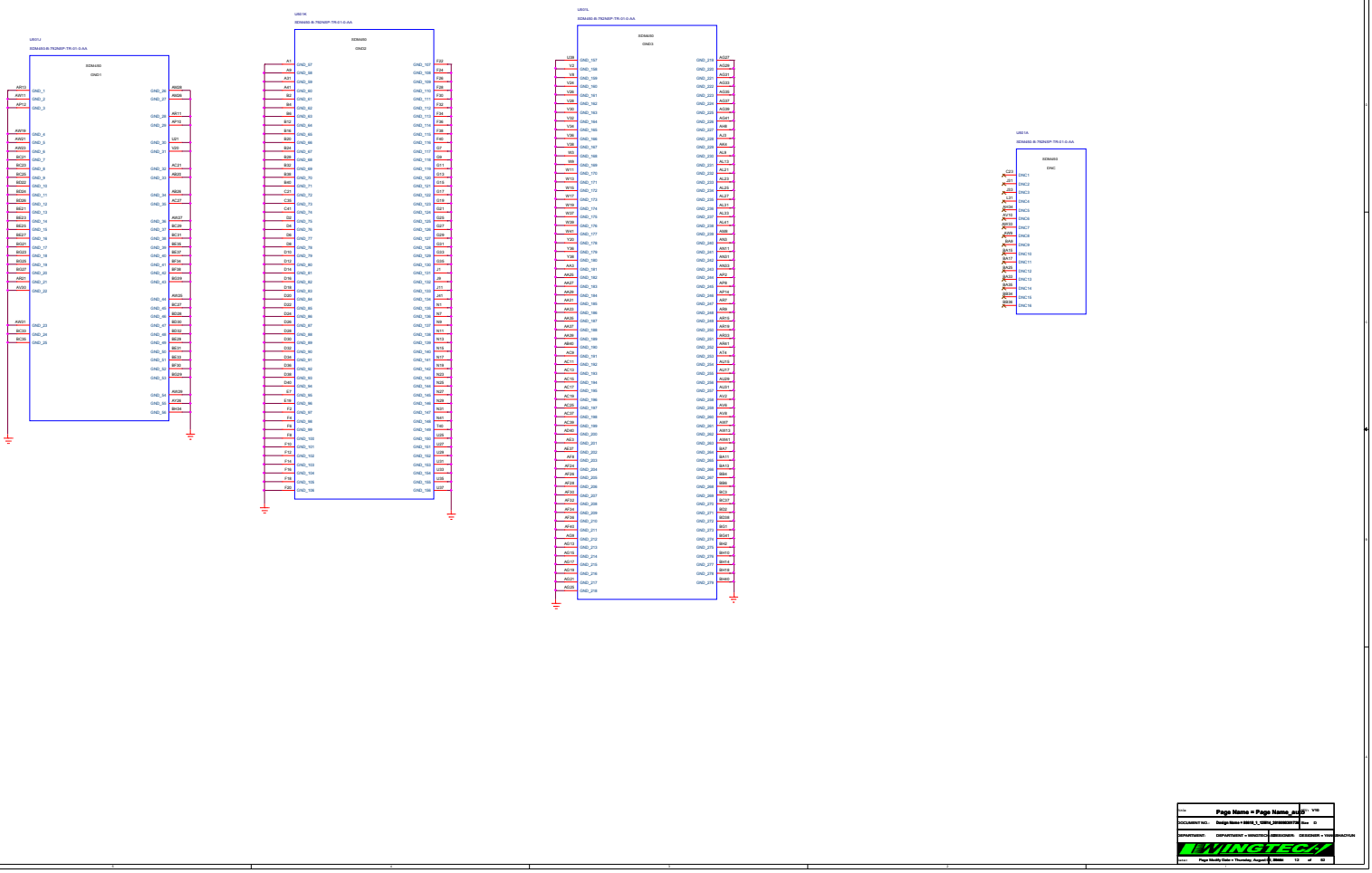

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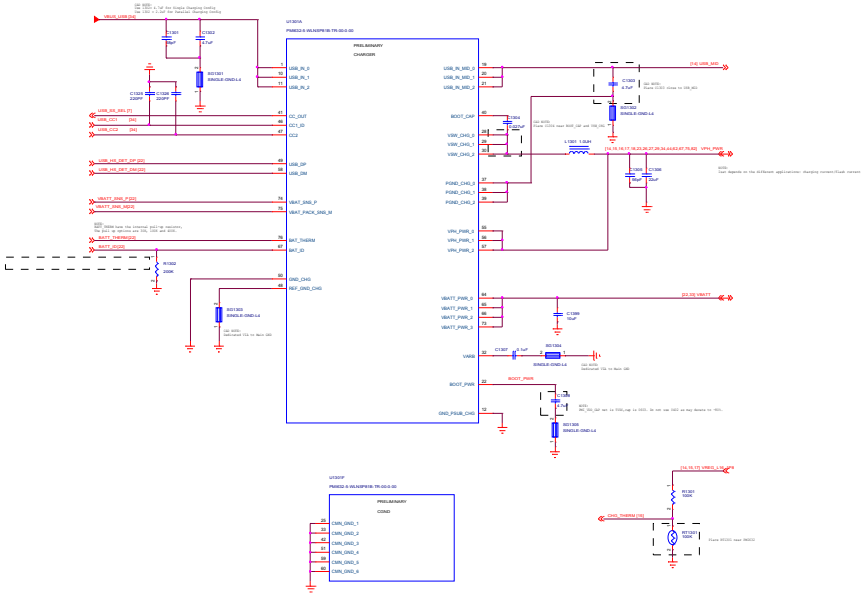

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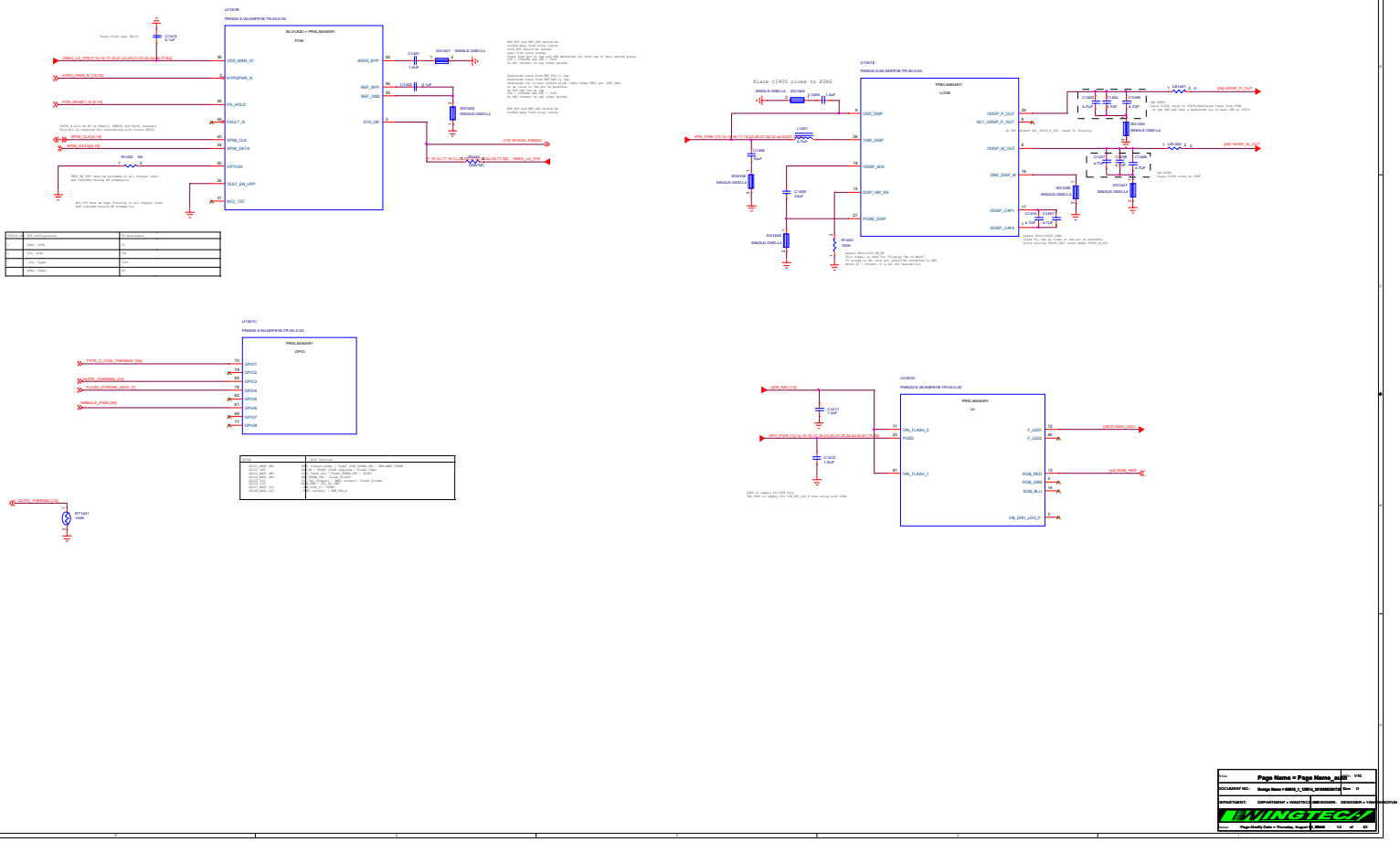

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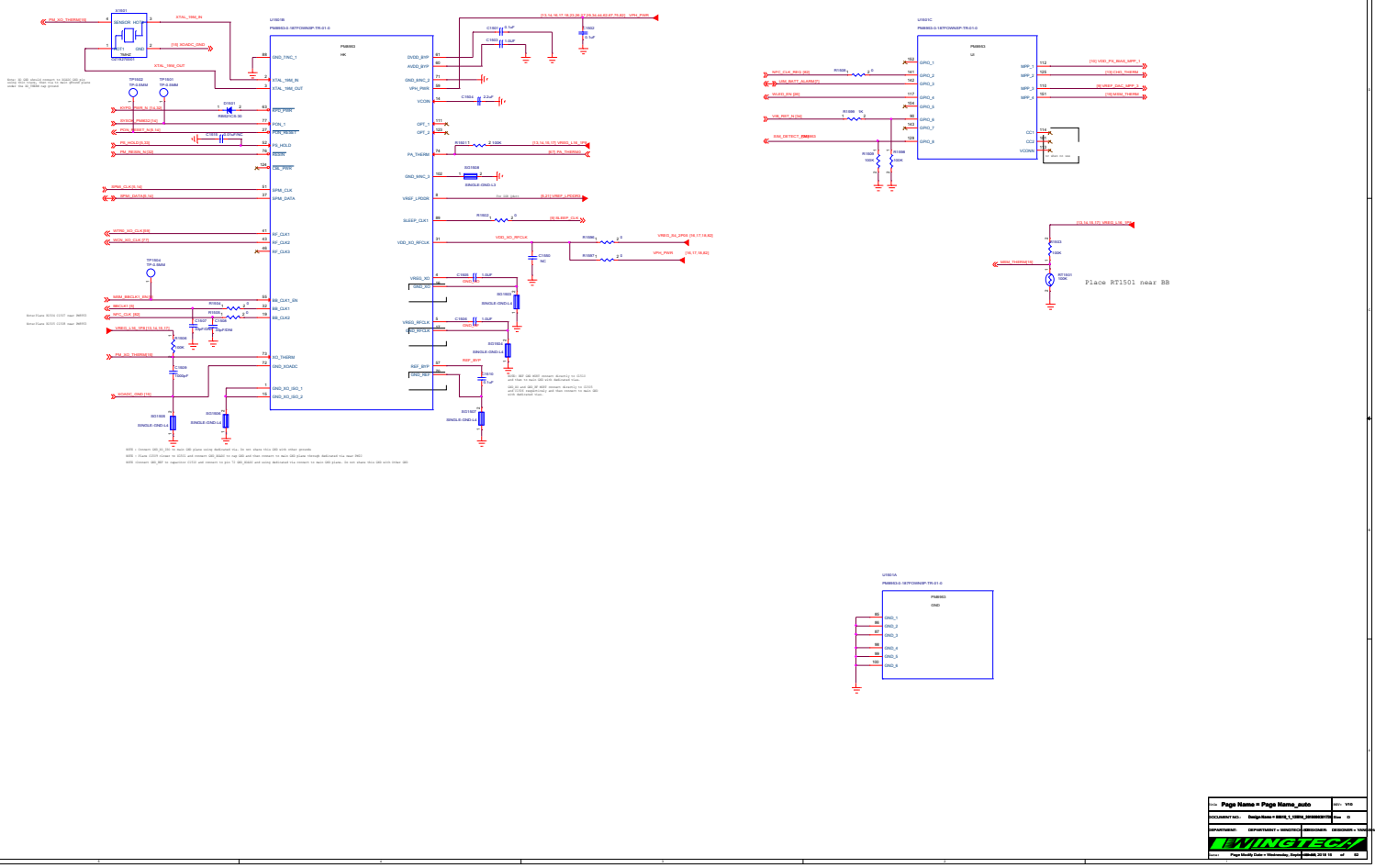
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U1501A
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PM8953
GND
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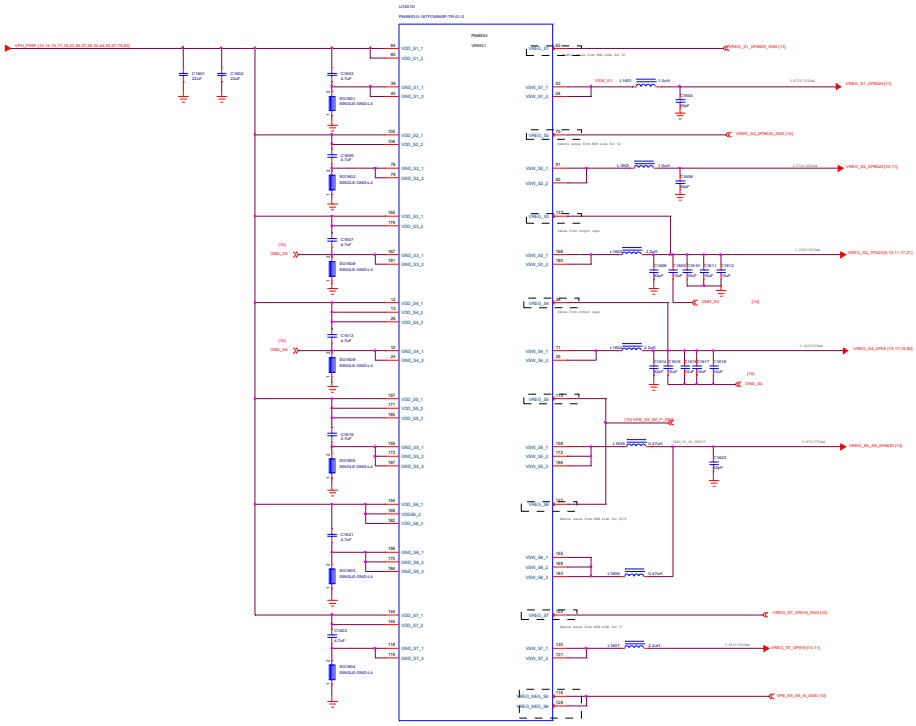

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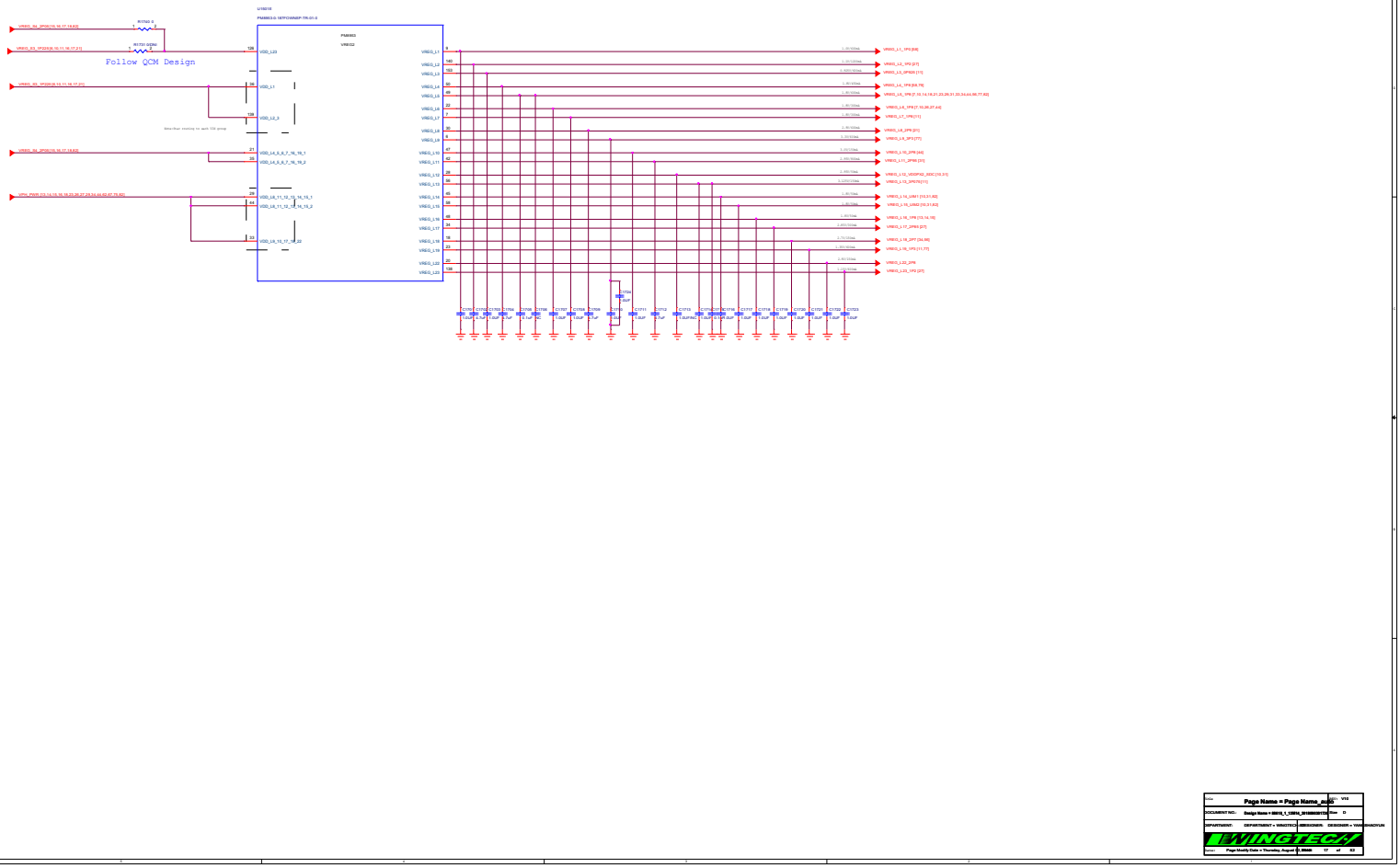

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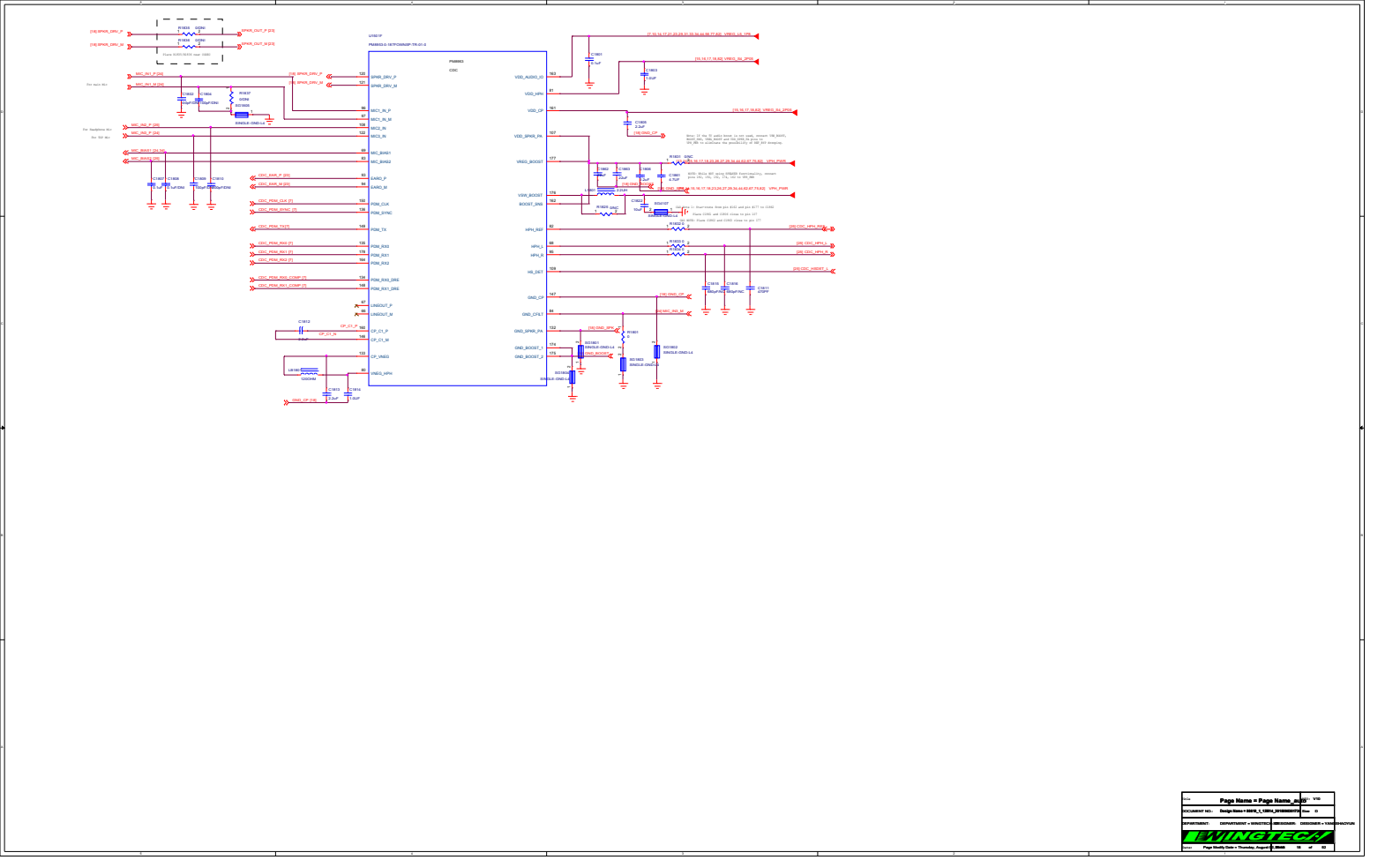
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CDC
SPKR_DRV_P
SPKR_DRV_M
MIC1_IN_P
MIC1_IN_M
MIC2_IN
MIC3_IN
MIC_BIAS1
MIC_BIAS2
EARO_P
EARO_M
PDM_CLK
PDM_SYNC
PDM_TX
PDM_RX0
PDM_RX1
PDM_RX2
PDM_RX3_DRE
PDM_RX1_DRE
LINEOUT_P
LINEOUT_M
CP_C1_P
CP_C1_M
CP_VREG
VREG_HPH
VDD_AUDIO_IO
VDD_HPH
VDD_CP
VDD_SPKR_PA
VREG_BOOST
VSW_BOOST
BOOST_SNS
HPH_REF
HPH_L
HPH_R
HS_DET
GND_CP
GND_CFILT
GND_SPKR_PA
GND_BOOST_1
GND_BOOST_2
SPKR_DRIVER_OUT_P
SPKR_DRIVER_OUT_M
Flame 82R5/1N5404 near U1602
For main Mic
For Headphone Mic
For TOP Mic
SINGLE-GND1-L4
SINGLE-GND1-L6
SINGLE-GND2-L4
SINGLE-GND2-L6
SINGLE-GND3-L4
SINGLE-GND3-L6
Wire 12 the 32 audio trace is not used, ensure VIN_BUCK1, BUCK1_SW1, VIN2_BUCK2 and VIN_LDO5_1A pins to VPH_PWR to minimize the possibility of MM_BAT decaping.
BUCK: Whilst NOT using BUCK2SW functionality, connect pins VIN1, VIN2, VIN3, VIN4 to VPH_PWR
Note 1: Use 1% Shortwire from pin A143 and pin A177 to U1402
Flame C1401 and C1810 close to pin 117
Flame C1802 and C1803 close to pin 177
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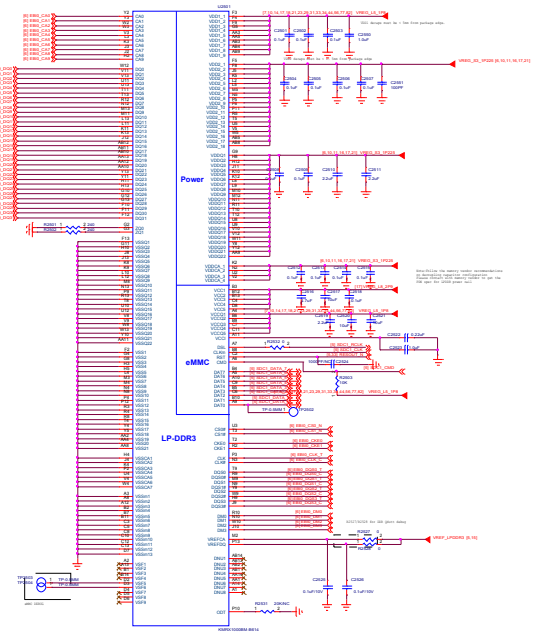
Page Modify Date = Thursday, August 23, 2018
WINGTECH



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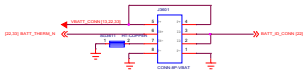
WINGTECH

Battery Connector



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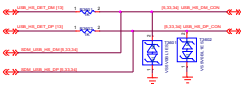

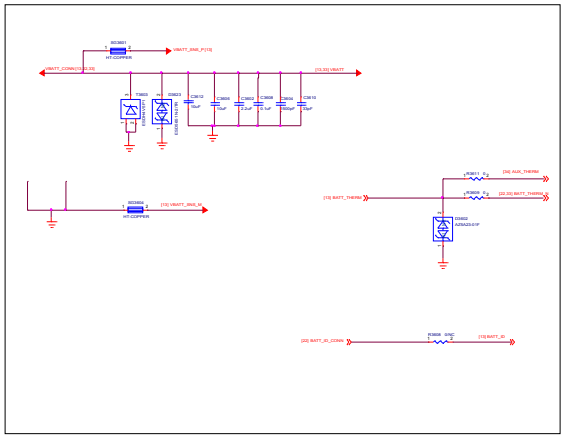

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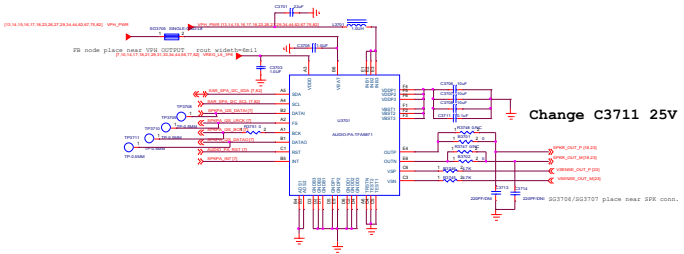
DEPARTMENT:	DEPARTMENT = WINGTECH	DESIGNER: DESIGNER = YANGHAOYUN
WINGTECH		
Author:	Page Modify Date = Thursday, August 30, 2018	22 of 62

AUDIO PA



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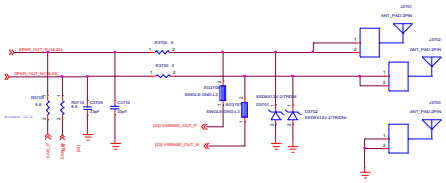

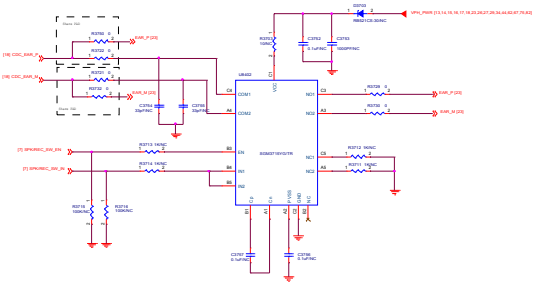

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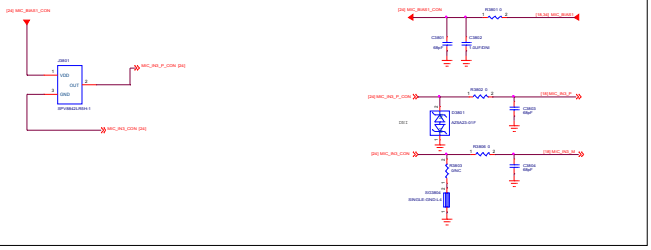
Mic2



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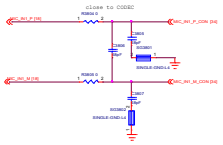

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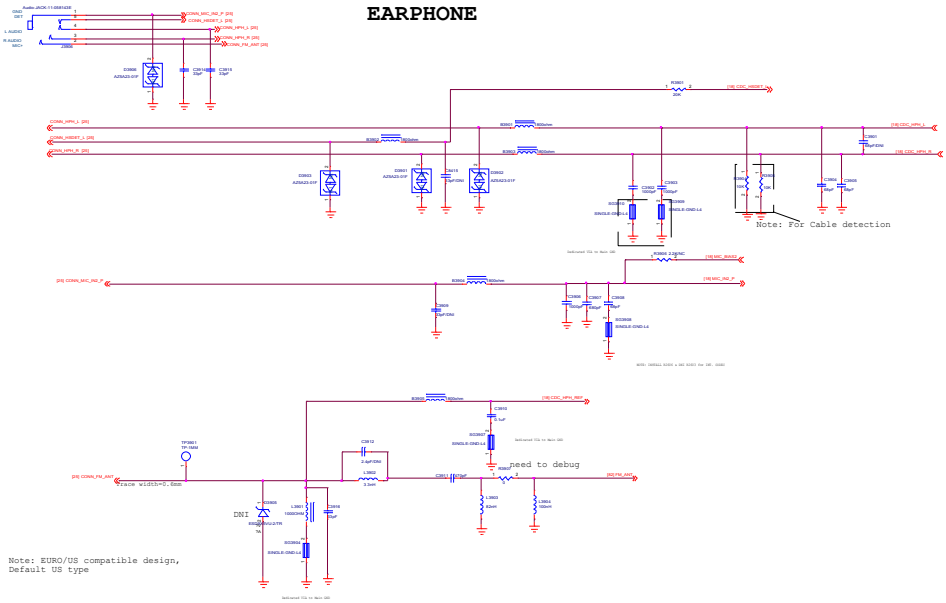
Size: B
DESIGNER = YANGHONGYUN
24 of 62

EARPHONE



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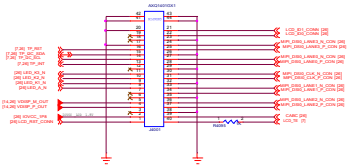
Date:	Page Modify Date = Friday, August 03, 2018	Sheet	28 of 62

LCD-Connector



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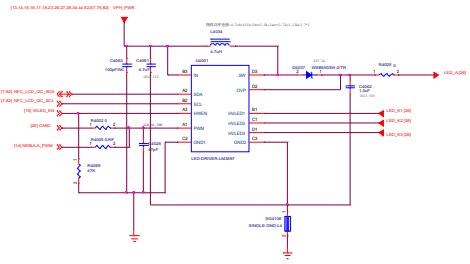

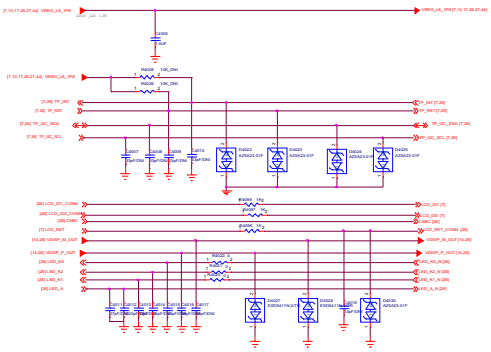

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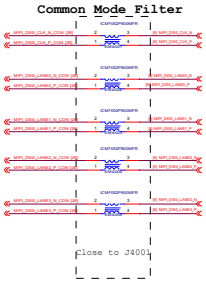

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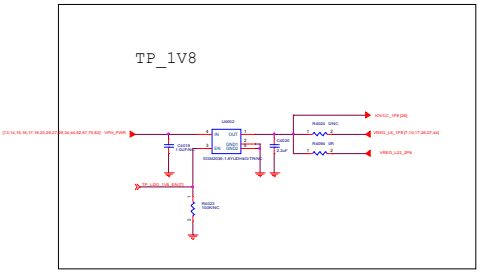

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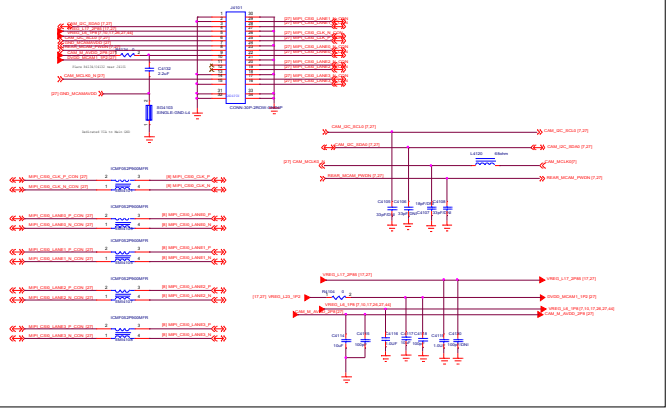
Main Camera

CAD note: Ensure the DGND to main-GND directly and robustly



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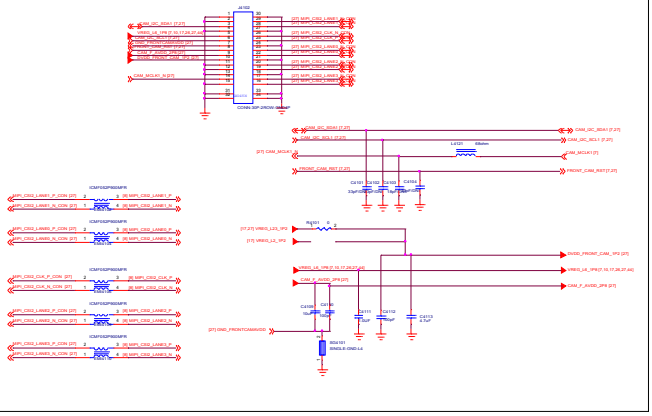

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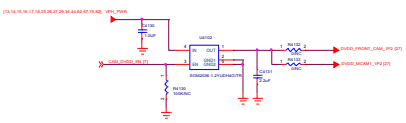

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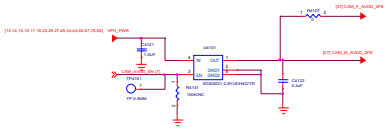

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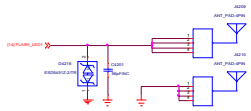
Flash



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Date:	Page Modify Date = Thursday, August 13, 2020	Sheet	28 of 62

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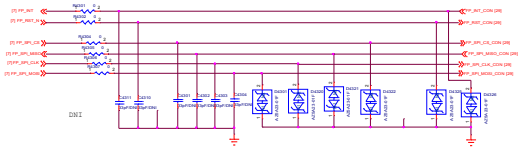

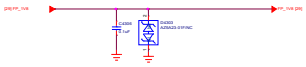

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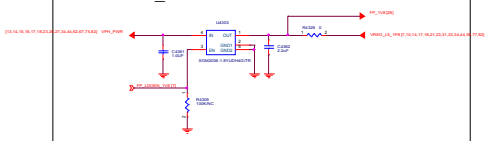

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WINGTECH

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Size: B
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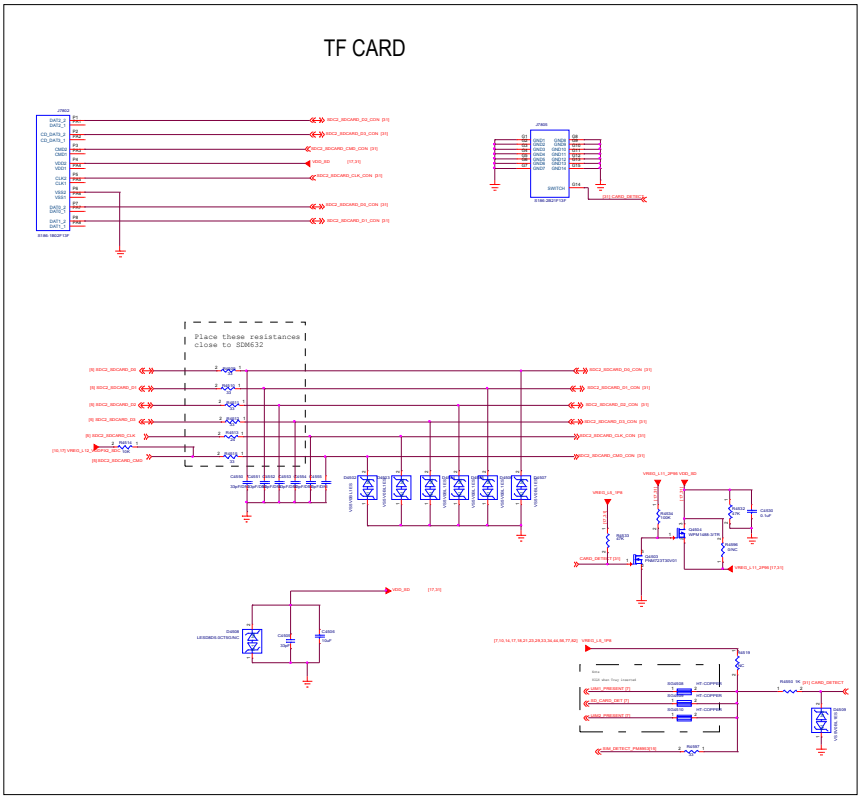

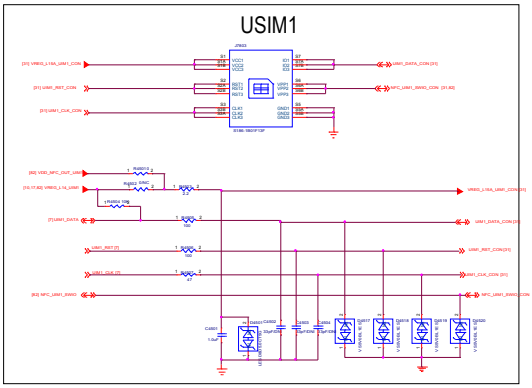

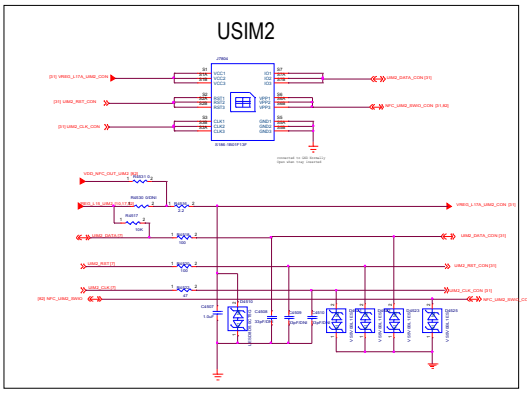

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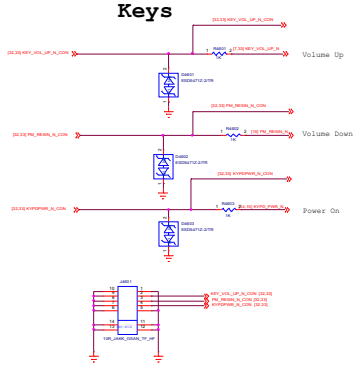
Keys



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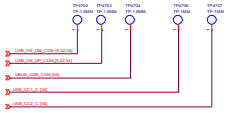
WINGTECH			
Sheet	Page Modify Date = Thursday, August 2, 2018	32	of 62

USB



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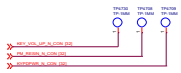

DOWNLOAD

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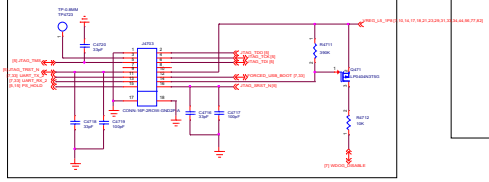

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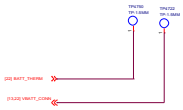
BATTERY



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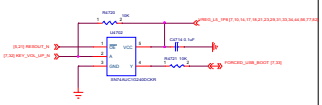

GND

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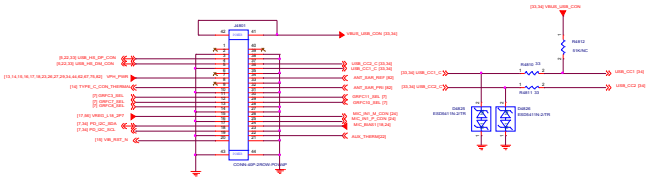
WINGTECH			
Sheet	Page Modify Date = Thursday, August 21, 2008	53	of 62

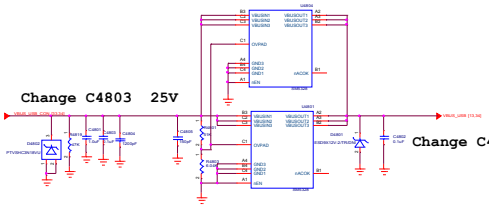
Sub Board Connector



OVP

Change C4803 25V

Change C4802 25V



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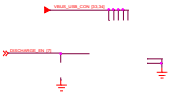
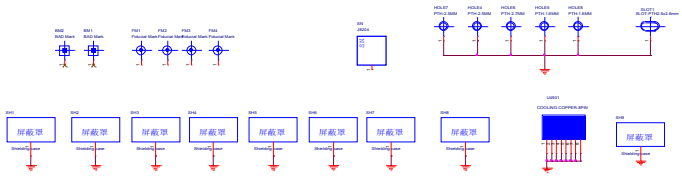


QUALCOMM Technologies,Inc.
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title SCHEMATIC, CCA, QRD SDM630_2-6-2.DVT1.1

LD20-PB825-20



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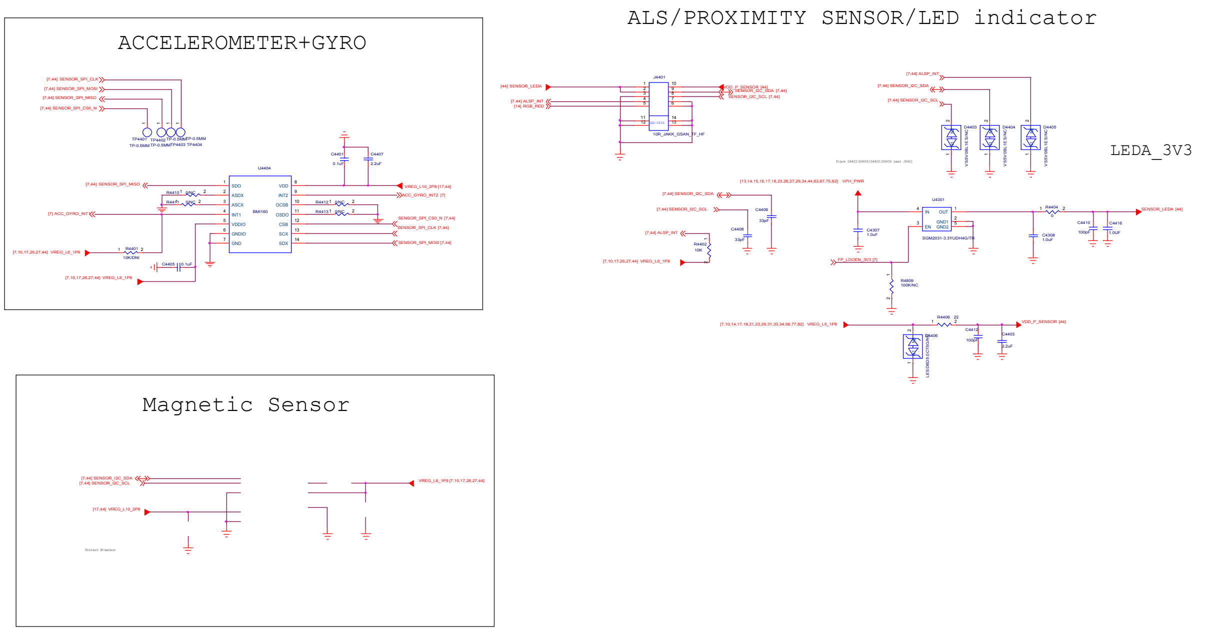
WINGTECH		
Date:	Page Modify Date = Wednesday, September 05, 2018	Sheet 35 of 60



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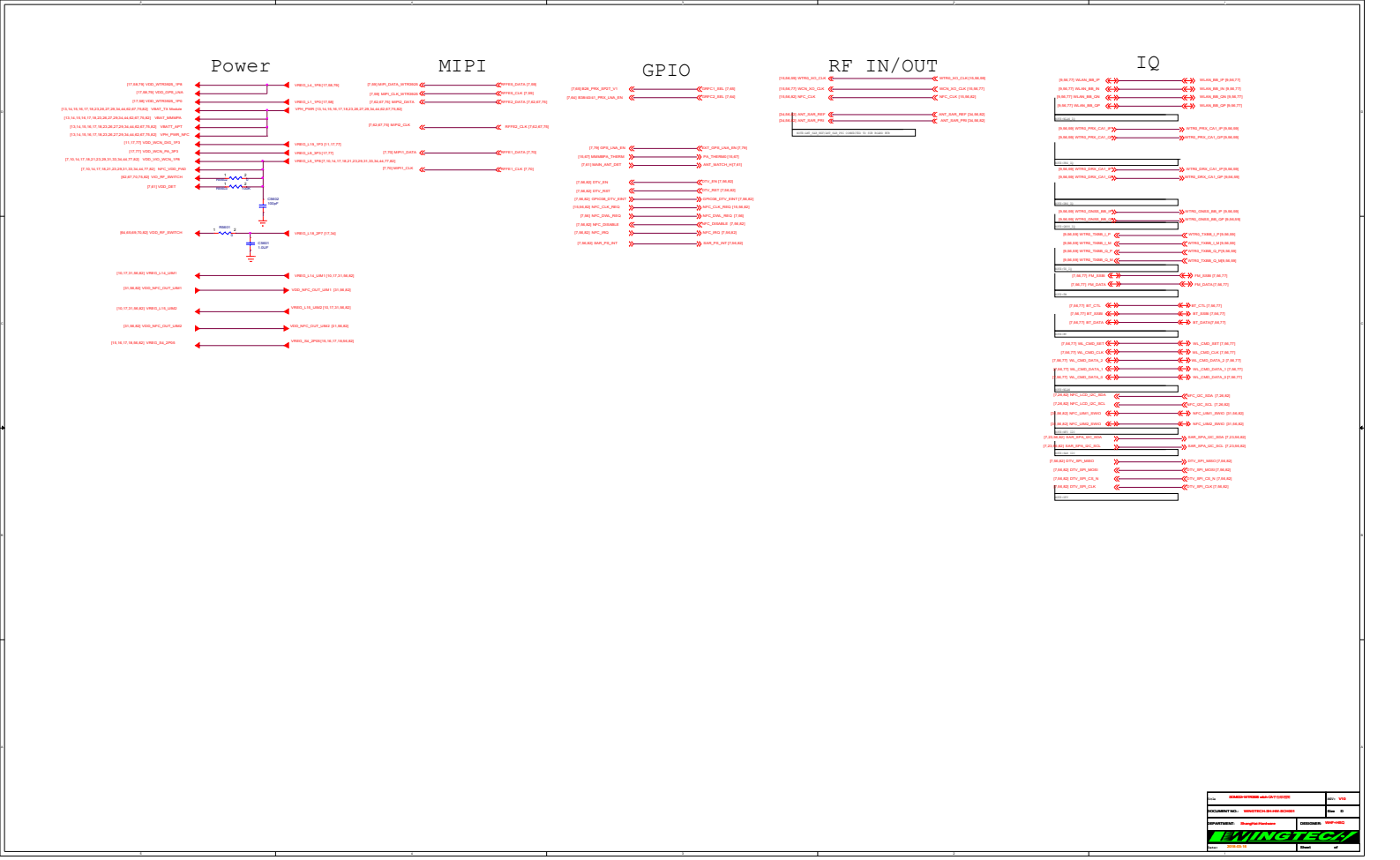
Date:	Page Modify Date = Thursday, August 02, 2018	Sheet 44	of 46


Power
MIPI
GPIO
RF IN/OUT
IQ

detailed radar vs twin GT block diagram.pdf

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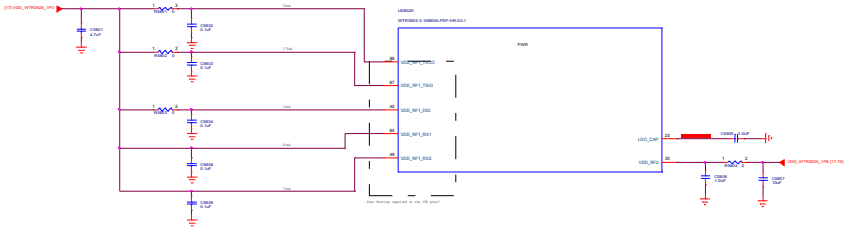
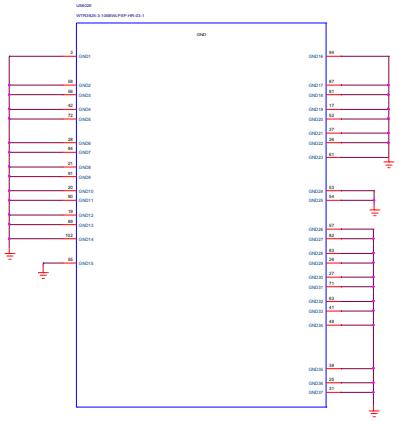
DEPARTMENT:	Shanghai Hardware	DESIGNER: WANFANG
	WINGTECH	
Date:	2023-03-10	Sheet: of





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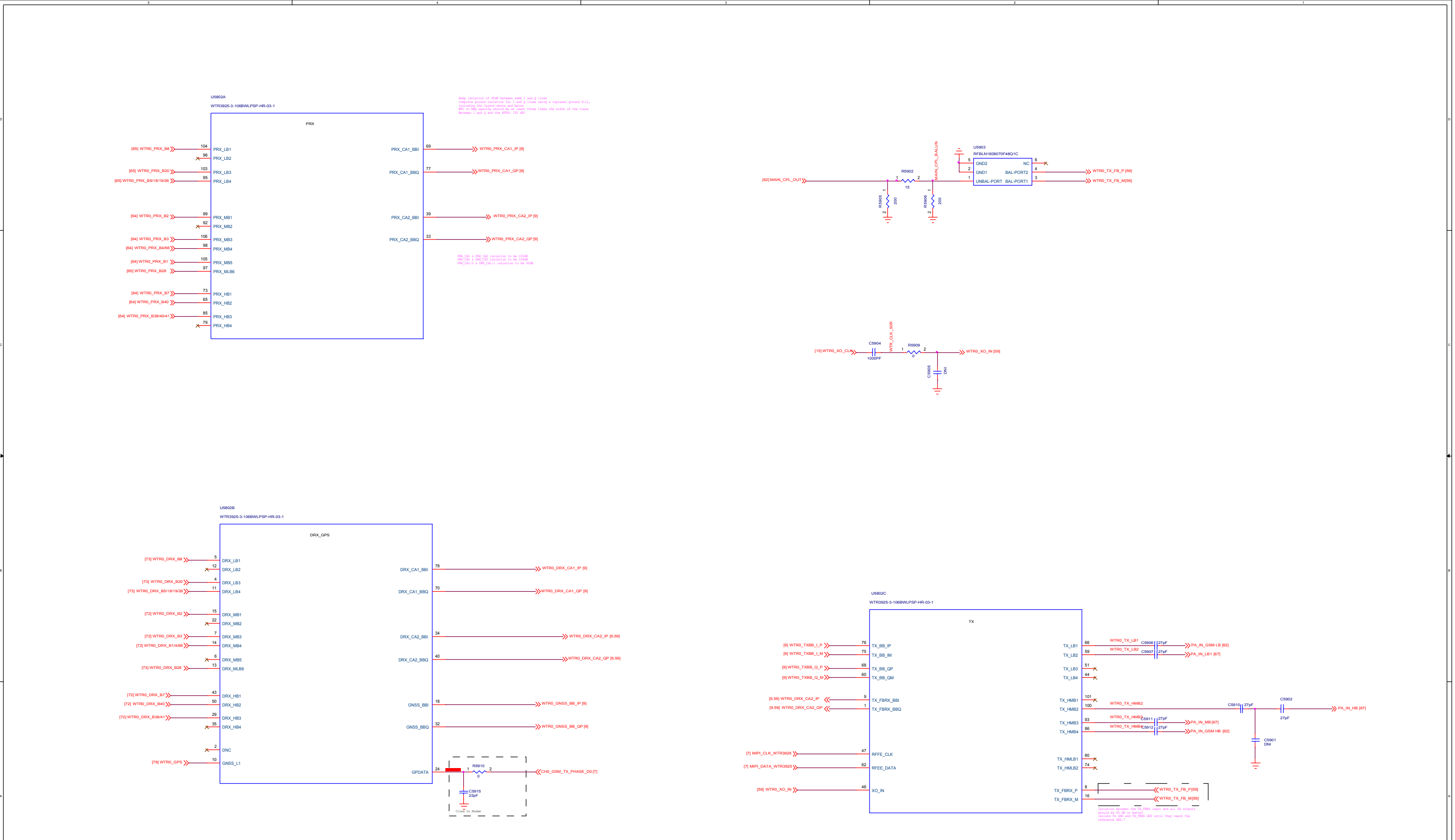
WINGTECH		
Author: WANG-XU-YE		Sheet: of



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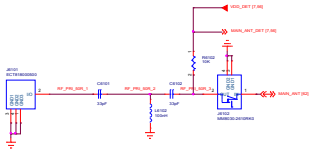
WINGTECH			
Date:	2018-03-15	Sheet	of



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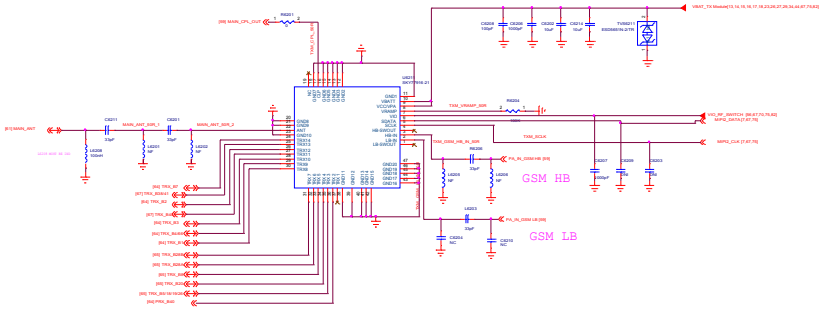
WINGTECH		
Author:	WM-01-10	Sheet: of



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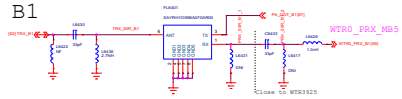
DEPARTMENT	Shanghai Hardware	DESIGNER	WANP-HARD
WINGTECH			
Author	WANG-XIN	Sheet	of

B1



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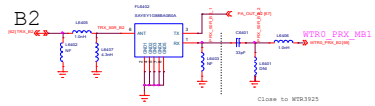

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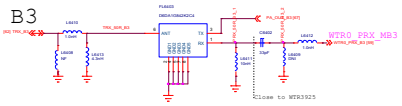
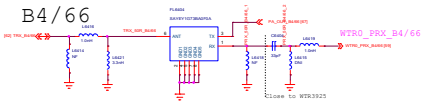


B4/66



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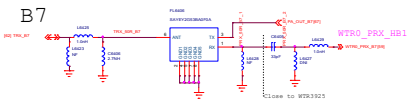

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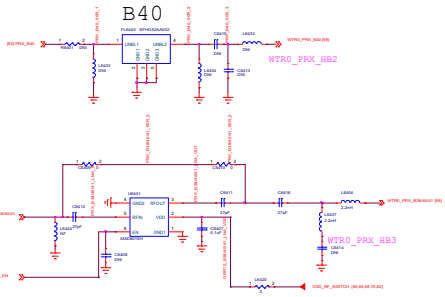

B38/40/41

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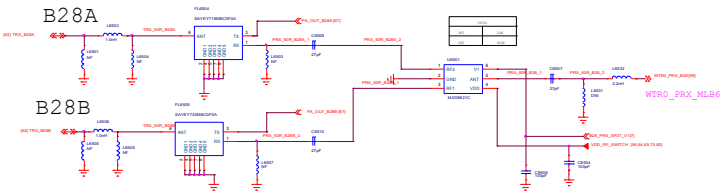
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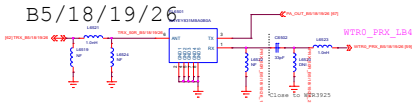
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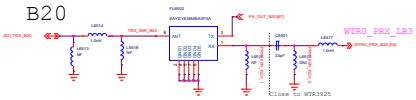
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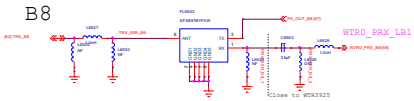
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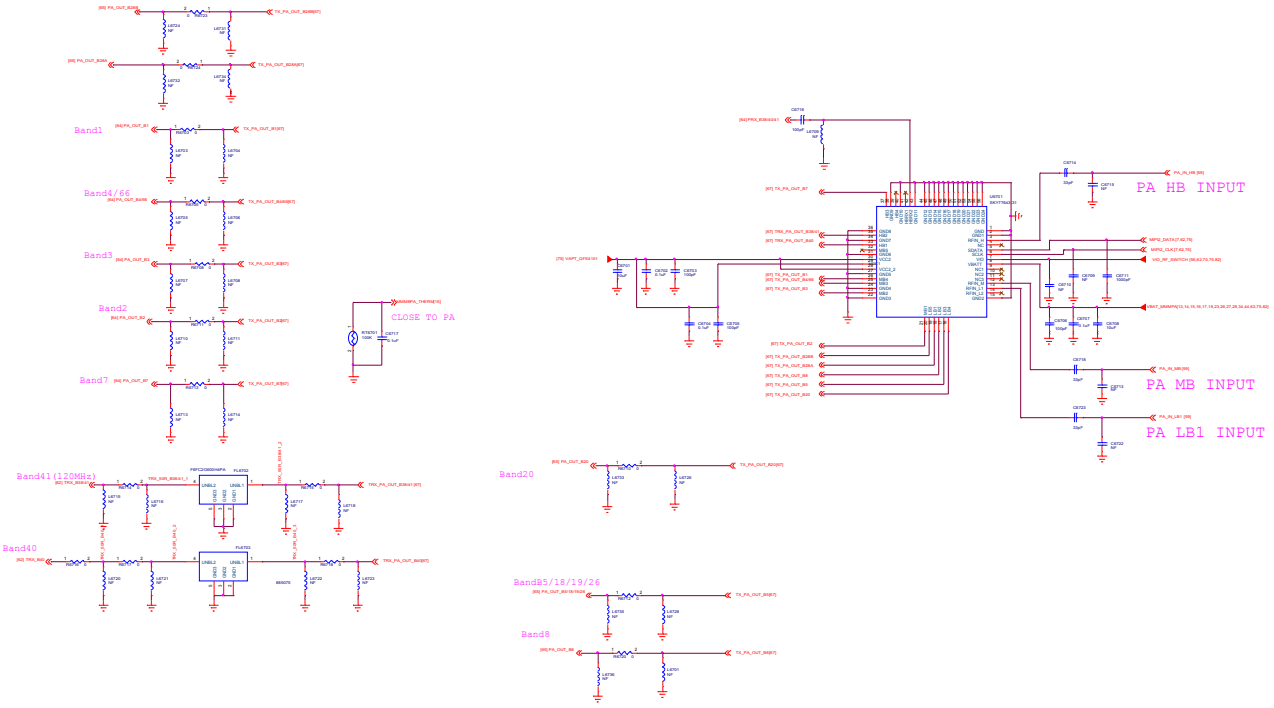

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DEPARTMENT:	Shanghai Hardware	DESIGNER: WANP-HMEI
WINGTECH		
Date:	2020-03-16	Sheet: of

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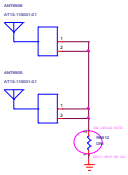

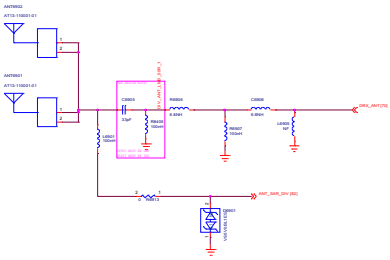

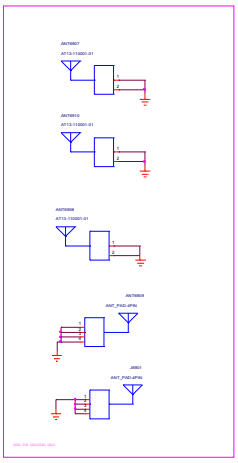

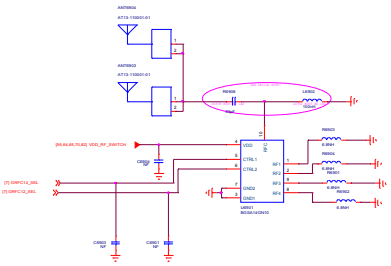

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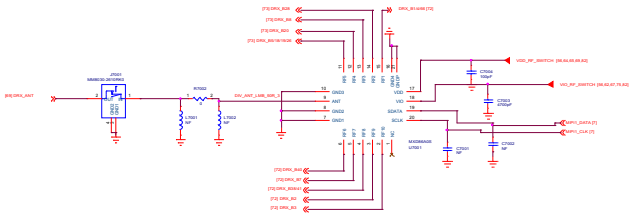

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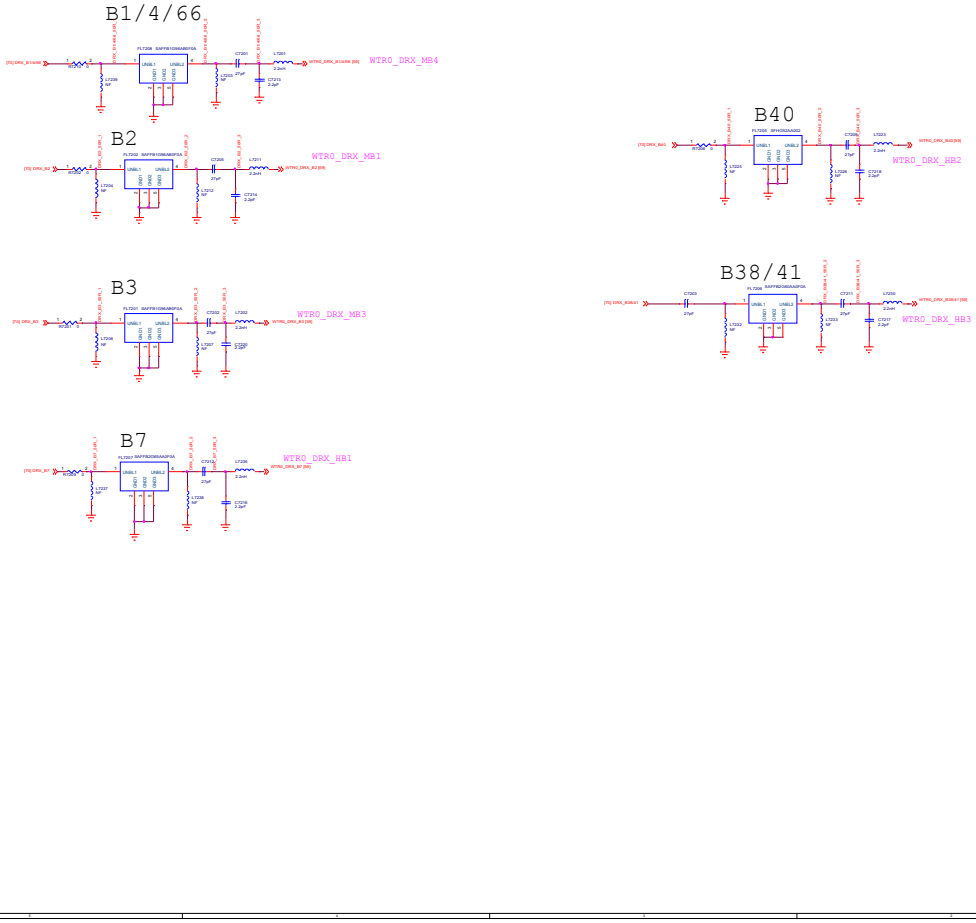
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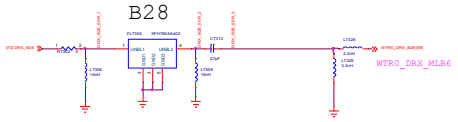

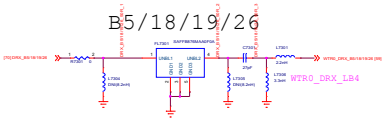

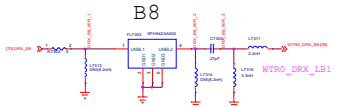

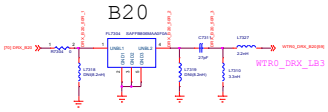

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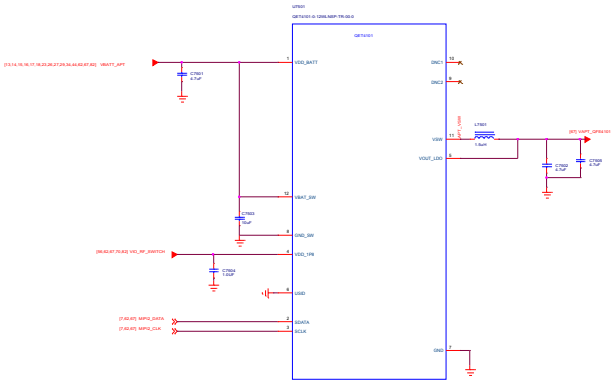

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DEPARTMENT: Shanghai Hardware	DESIGNER: WMP14883
WINGTECH	
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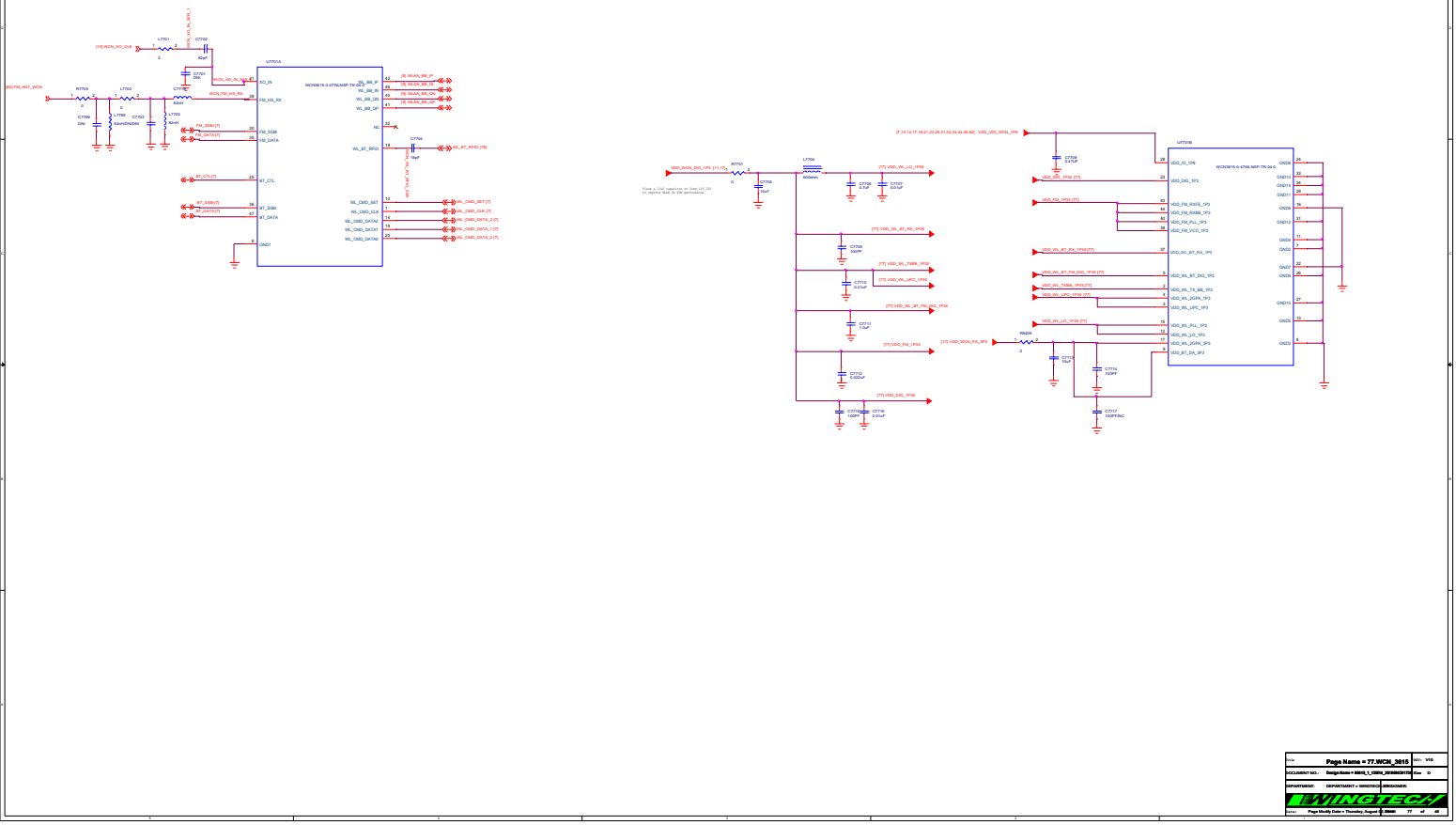

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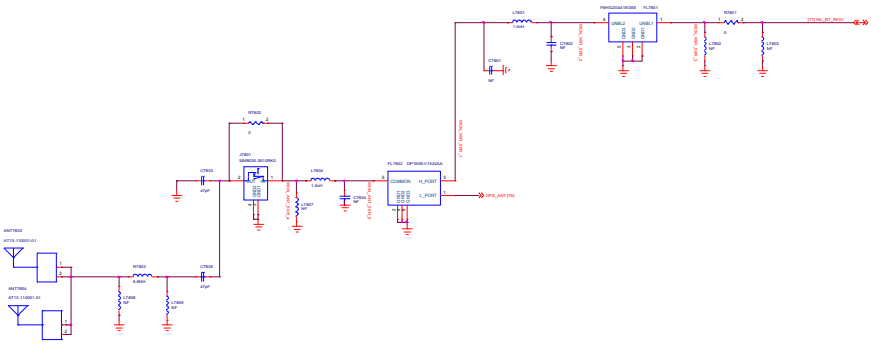
Date:	Page Modify Date = Thursday, August 13, 2020		



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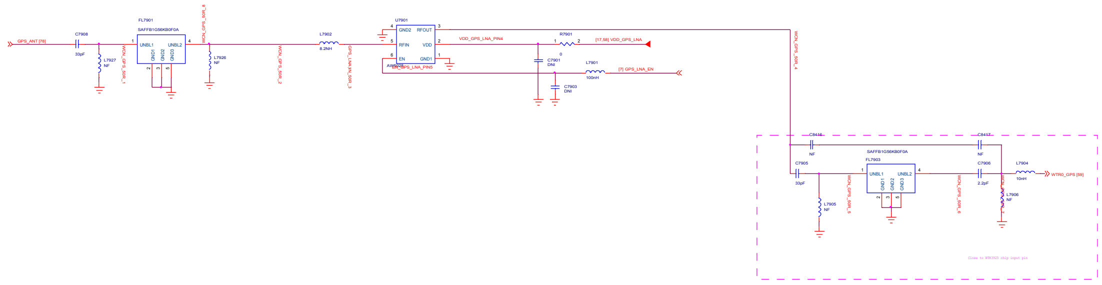
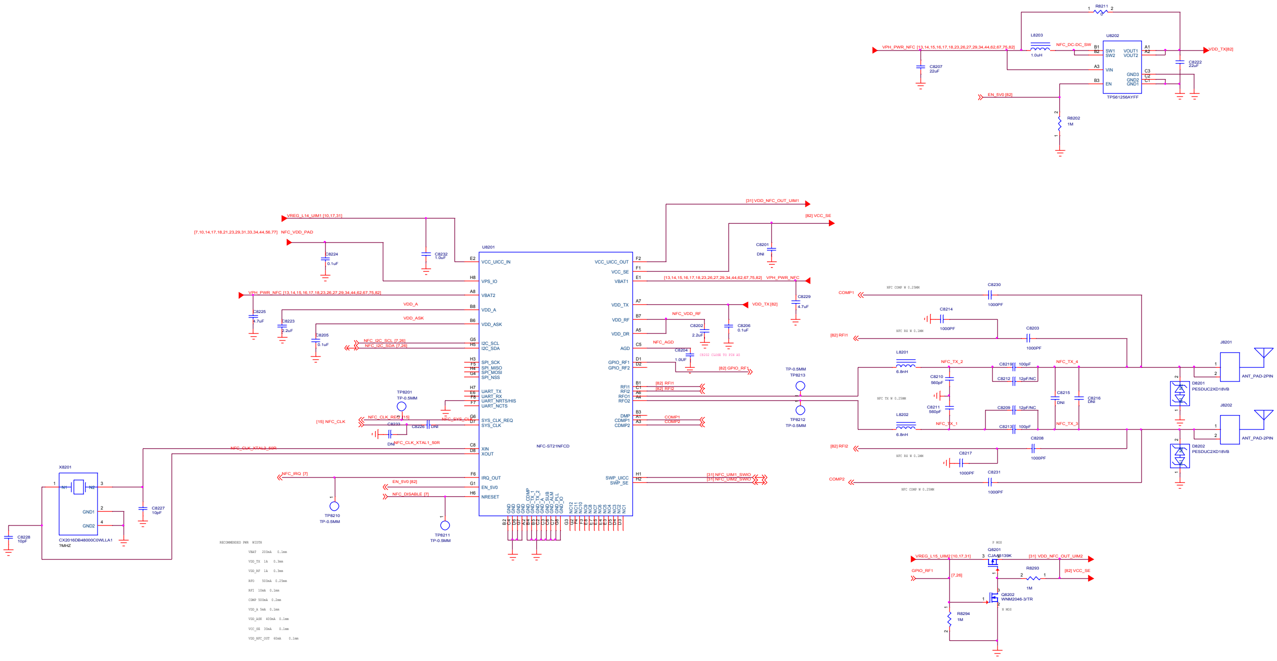
DOCUMENT NO.: WI8G0T8CH-SH-ANN (8C0A00)	Size: B
DEPARTMENT: Shanghai Hardware	DESIGNER: WANP-HARD
WINGTECH	
Author: WANG-XU-YE	Sheet: of



Title	SDM632+WTR3925 witch CA平台原理图	REV:	V10
DOCUMENT NO.:	WINGTECH-SH-HW-SCH001	Size	D
DEPARTMENT:	ShangHai-Hardware	DESIGNER:	WHF+HSQ
Date:	2018-03-15	Sheet	of



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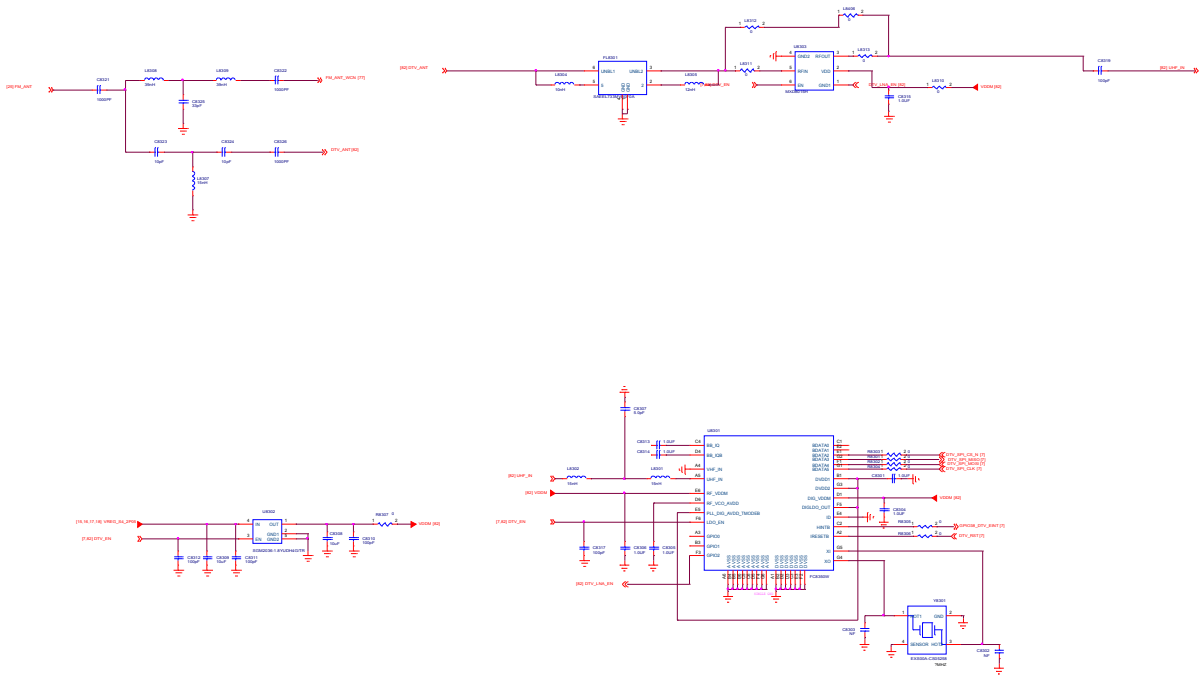

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REV:	V1.0
DOCUMENT NO.:	W6027SCH-B0-WW-BCN001
Size:	B
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DESIGNER:	WANFANG
WINGTECH	
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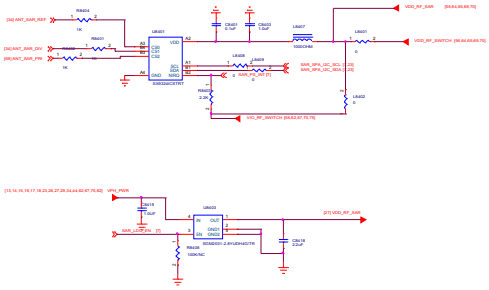

Title	XEMDH-WYH000 wlan DVT1/2/EEE	REV: V1.0
DOCUMENT NO.:	WIN3770CH-SI-HW-SCH001	Size: B
DEPARTMENT:	Shanghai Hardware	DESIGNER: WANP14823
WINGTECH		
Author: WANG XU		Sheet: of