

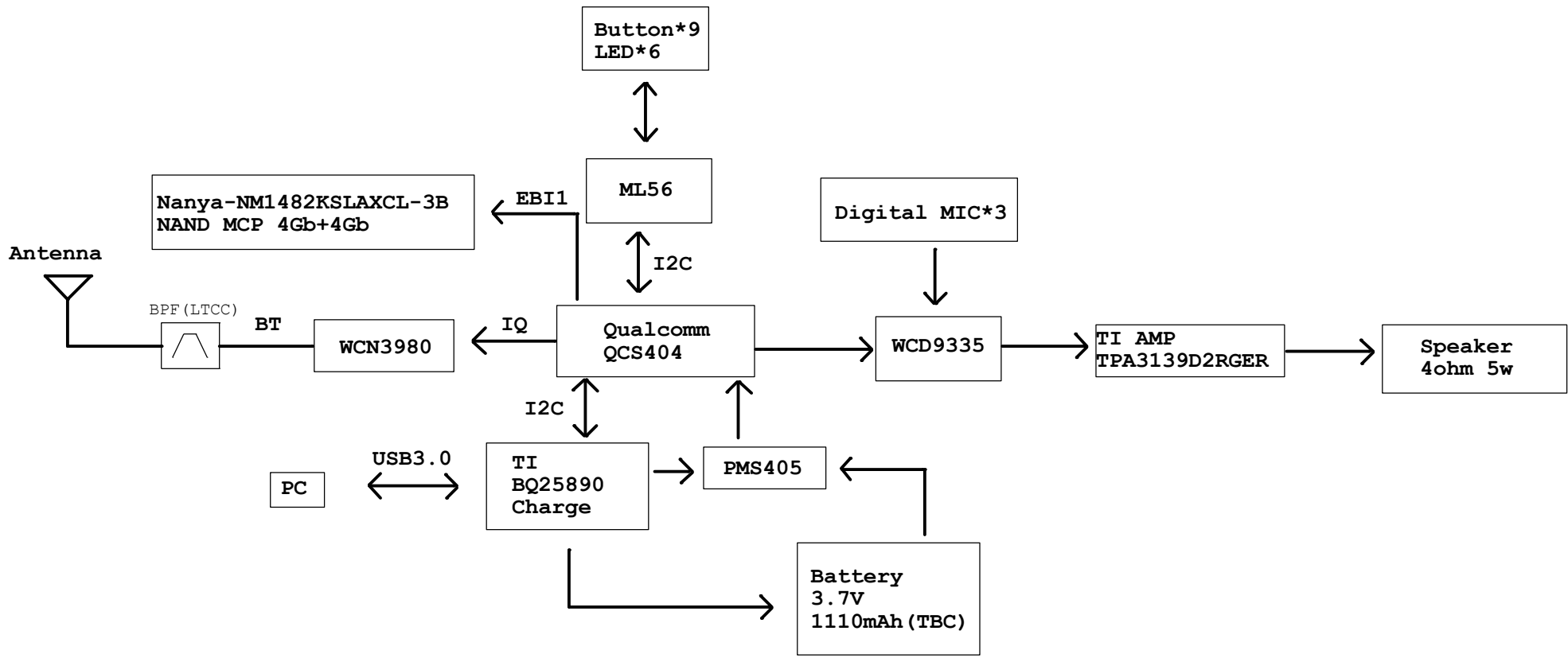
AS330(T757S)-A

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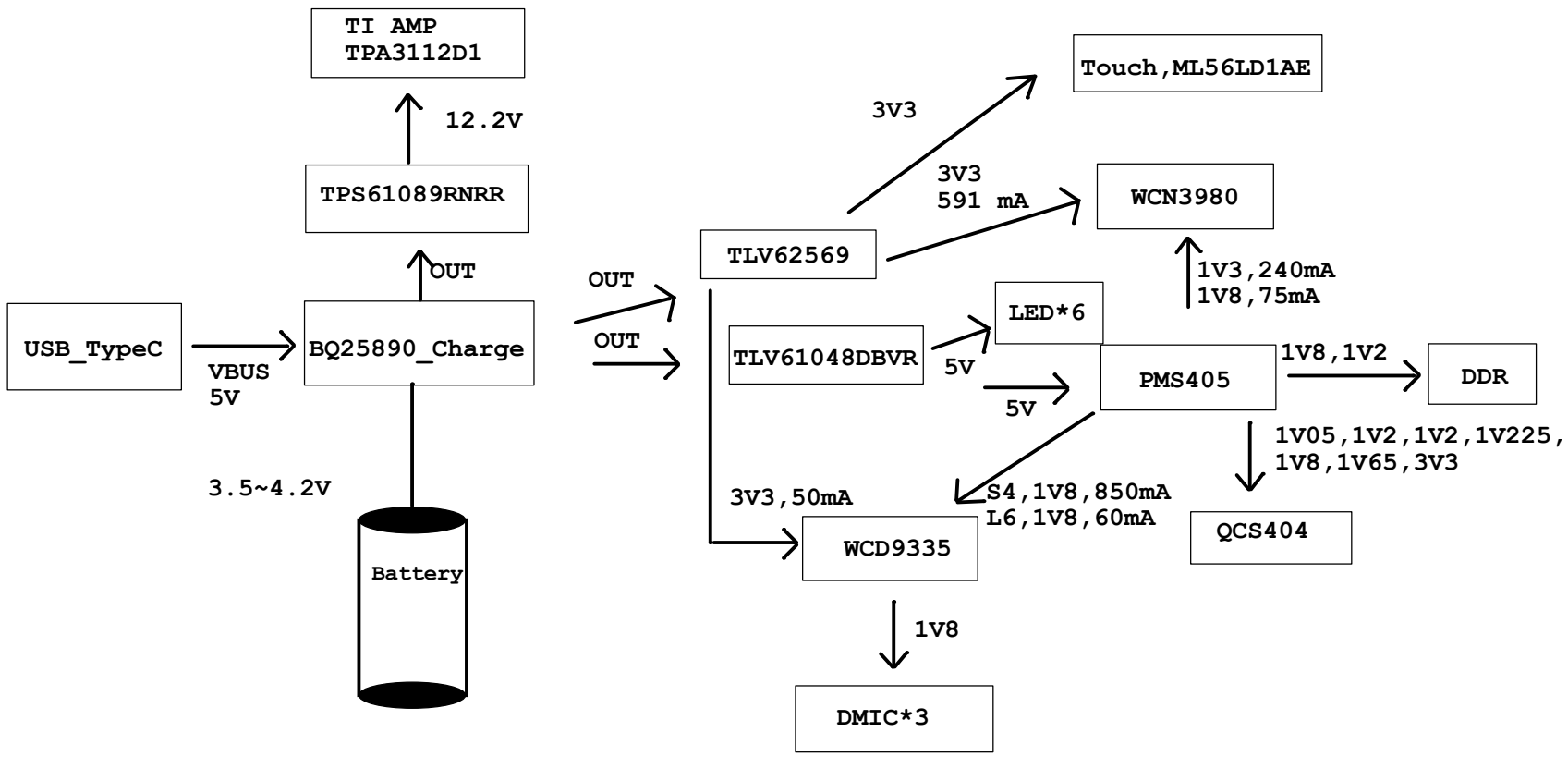
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REVISION	PAGE	DATE	DESCRIPTION
A	PAGE ALL	2021/06/24	NEW Design

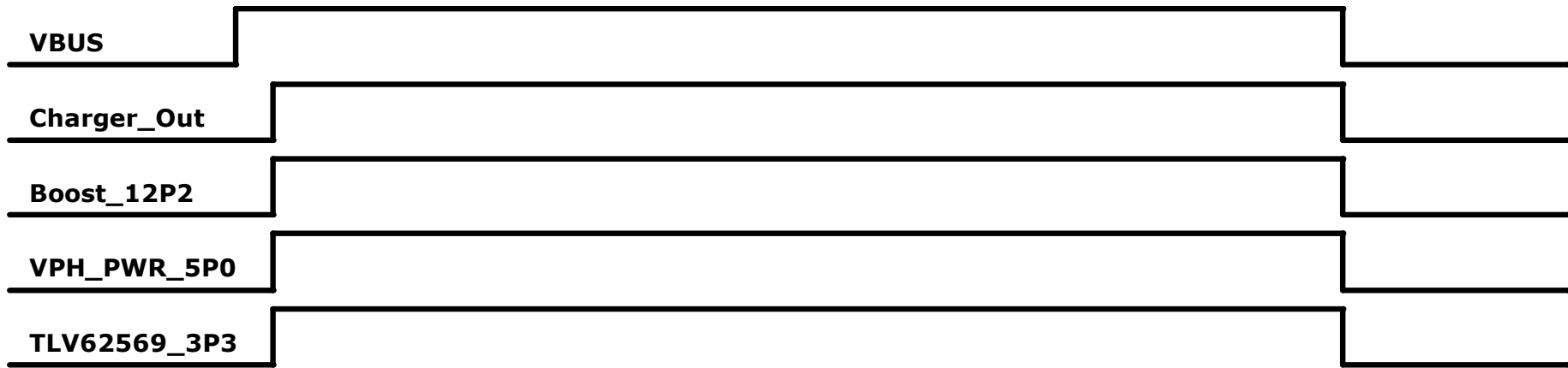
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Title			
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Size	Document Number	Rev	
B	Revision History	A	
Designer: Bill Nieh	Date: Tuesday, August 17, 2021	Sheet: 1 of 31	



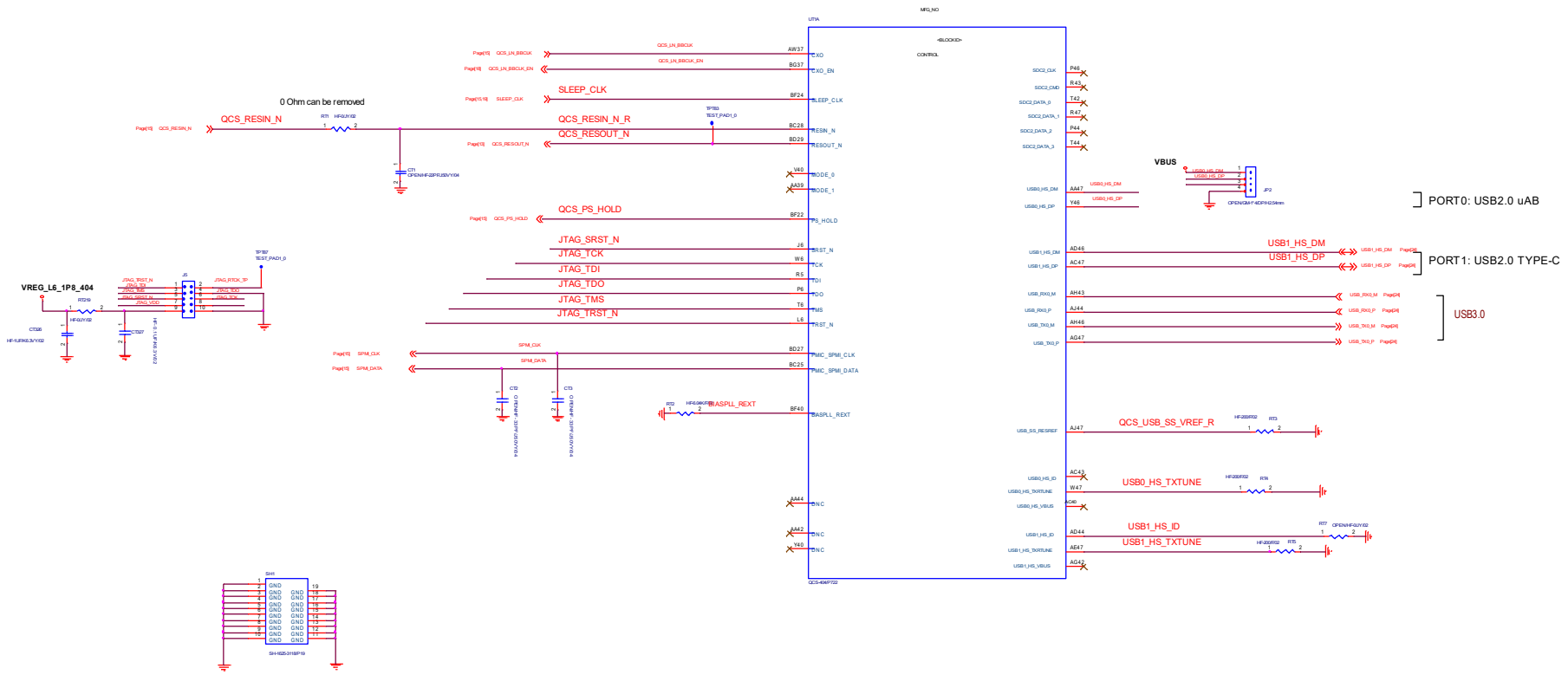
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Title	AS330(T757S)		
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B	Block Diagram	A	
Designer: Bill Nieh	Date: Tuesday, August 17, 2021	Sheet: 2 of 31	



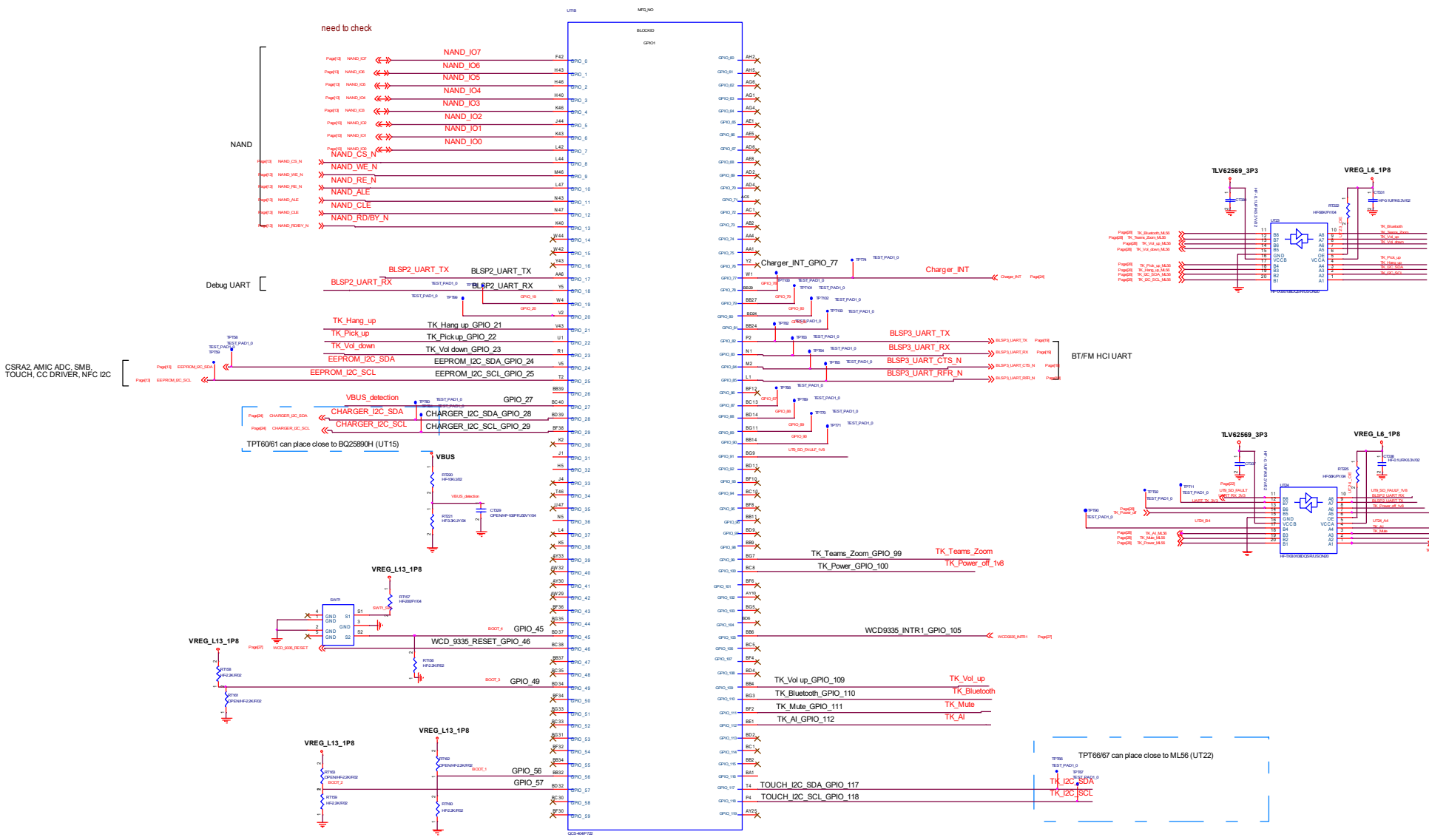
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Title	AS330(T757S)		
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B	Power Diagram	A	
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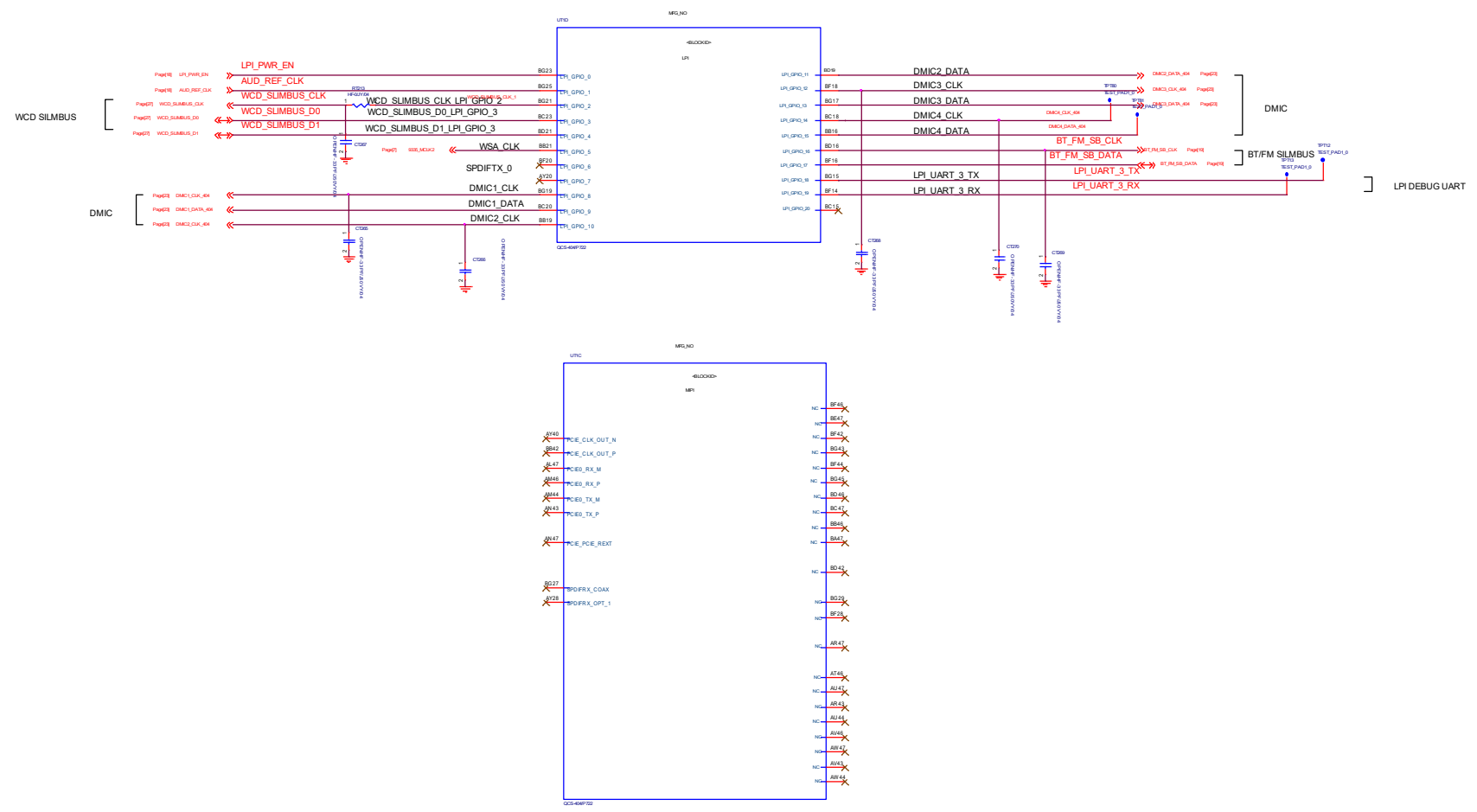
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Title			AS330(T757S)		
Size	Document Number			Rev	
A		Power sequence & Reset		A	
Designer: Bill Nieh		Date: Tuesday, August 17, 2021		Sheet: 4 of 31	



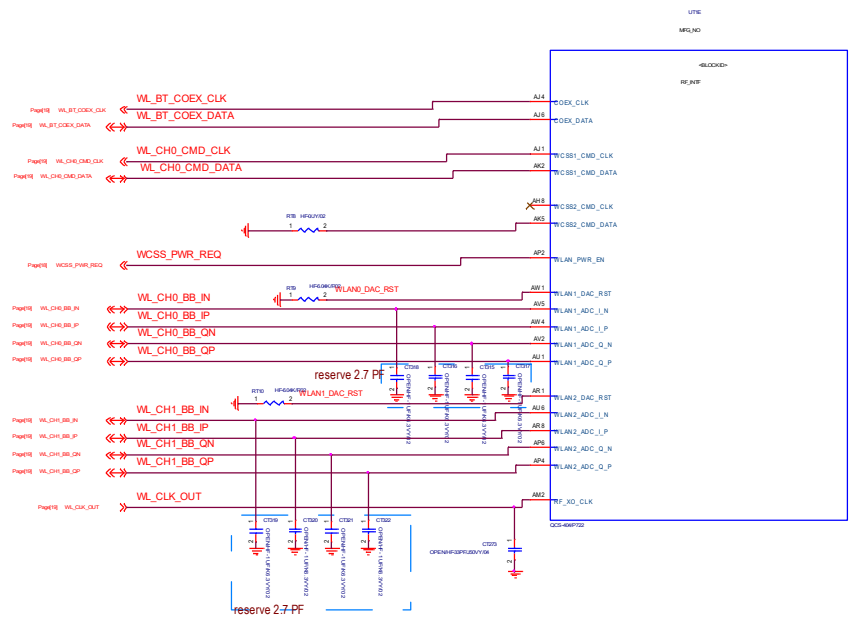
QCS404: CONTROL

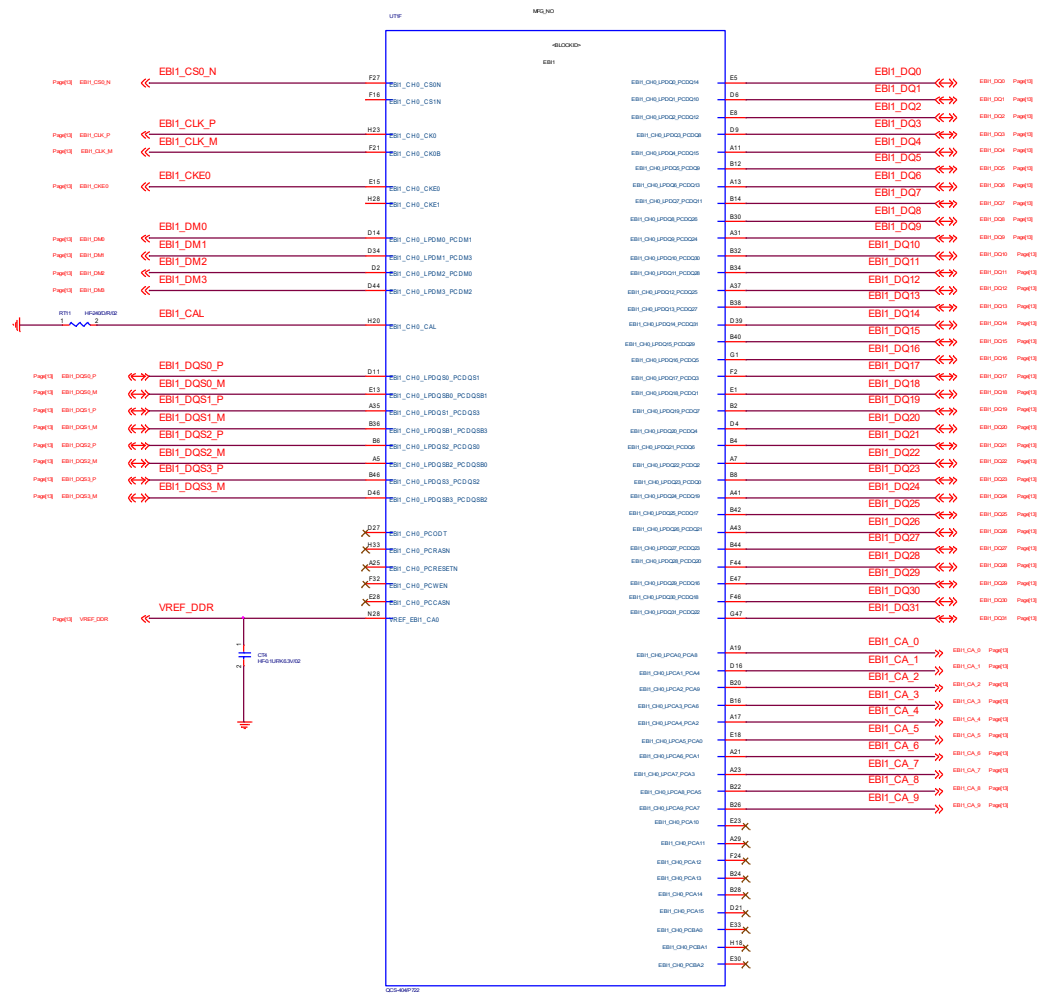


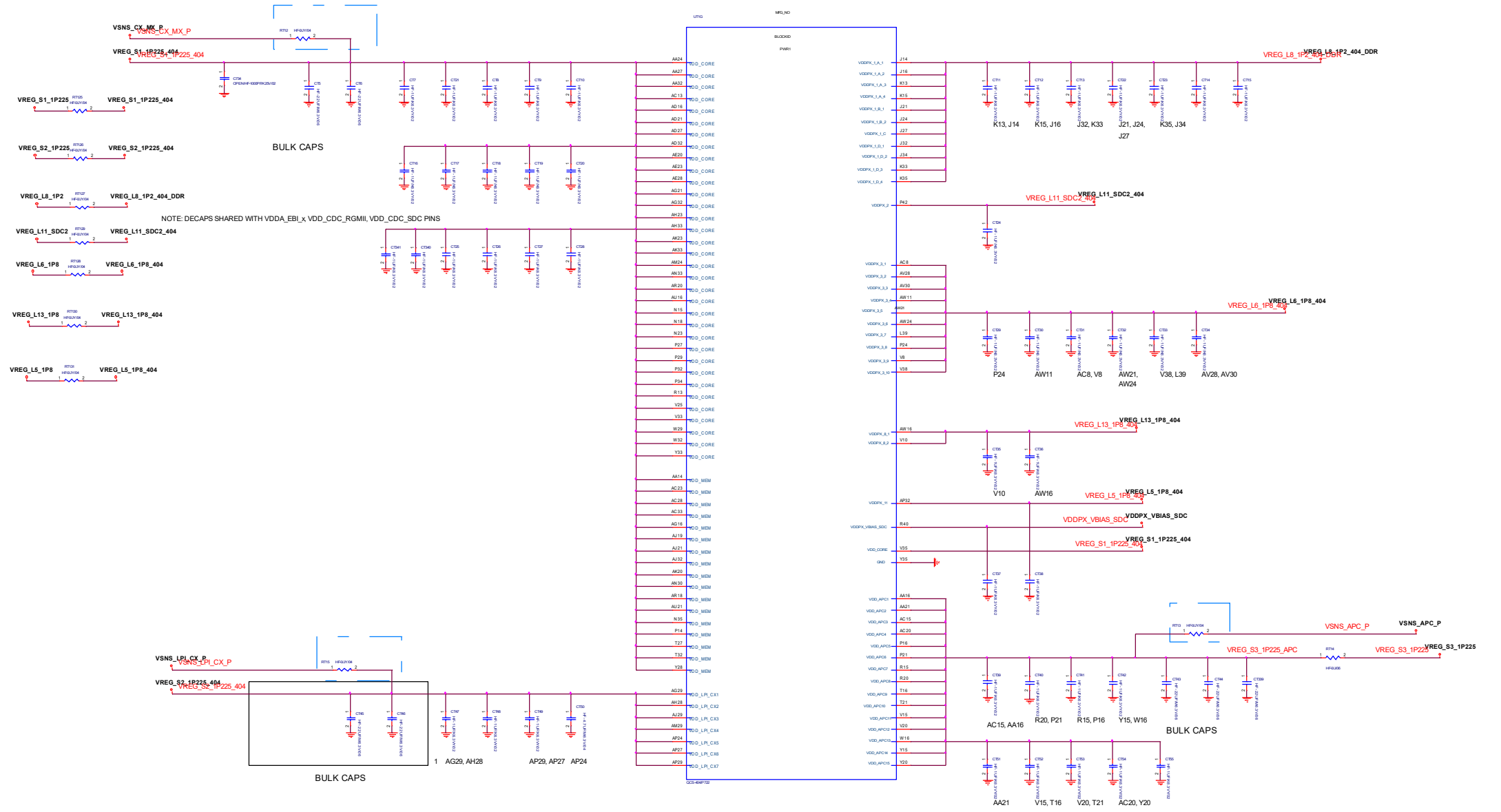
QCS404: GPIOs



QCS404: LPI/DSI/HDMI/PCIE

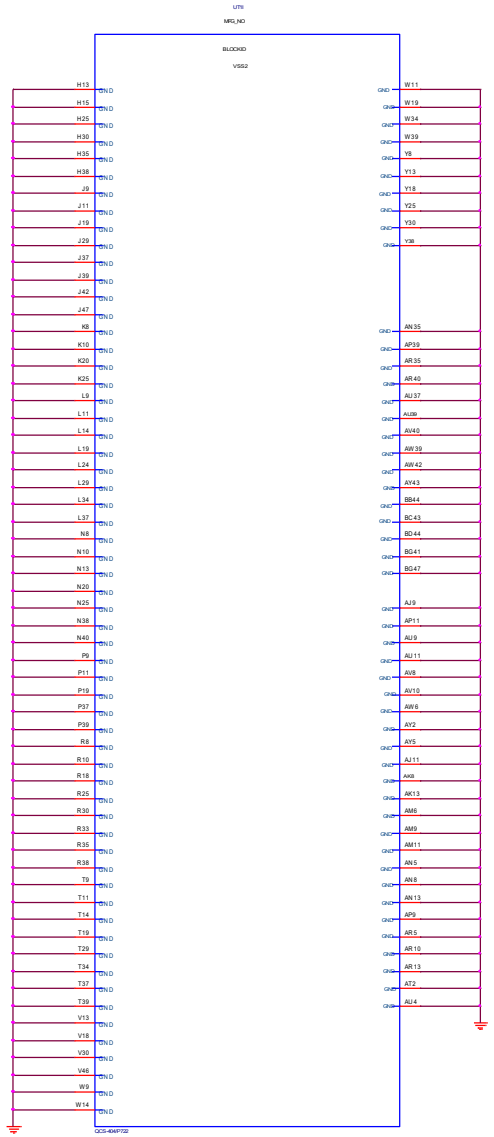
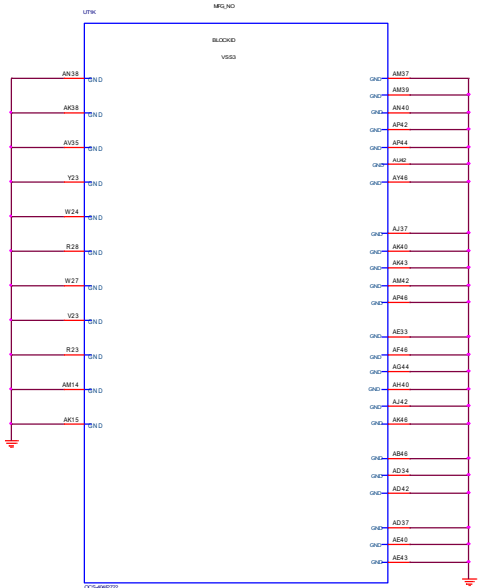
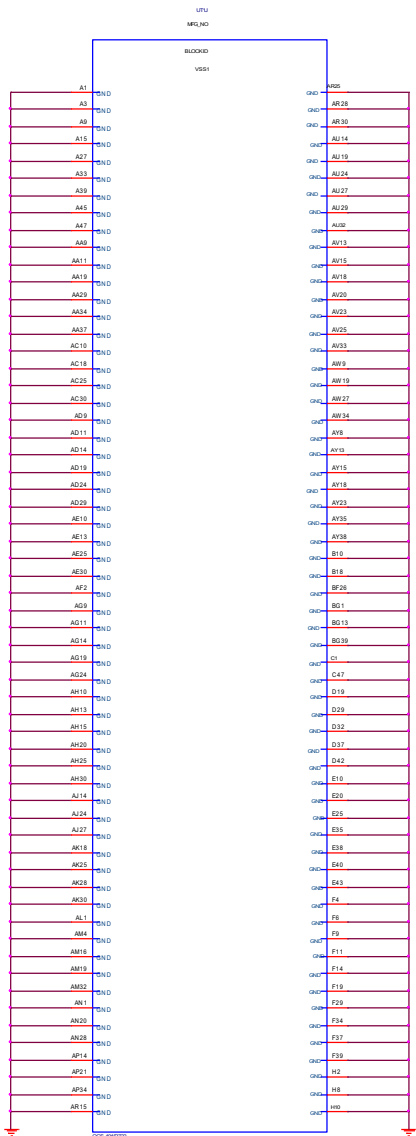






NOTE: DECAPS SHARED WITH VDDA_EBI_x VDD_CDC_RGMII_VDD_CDC_SDC PINS

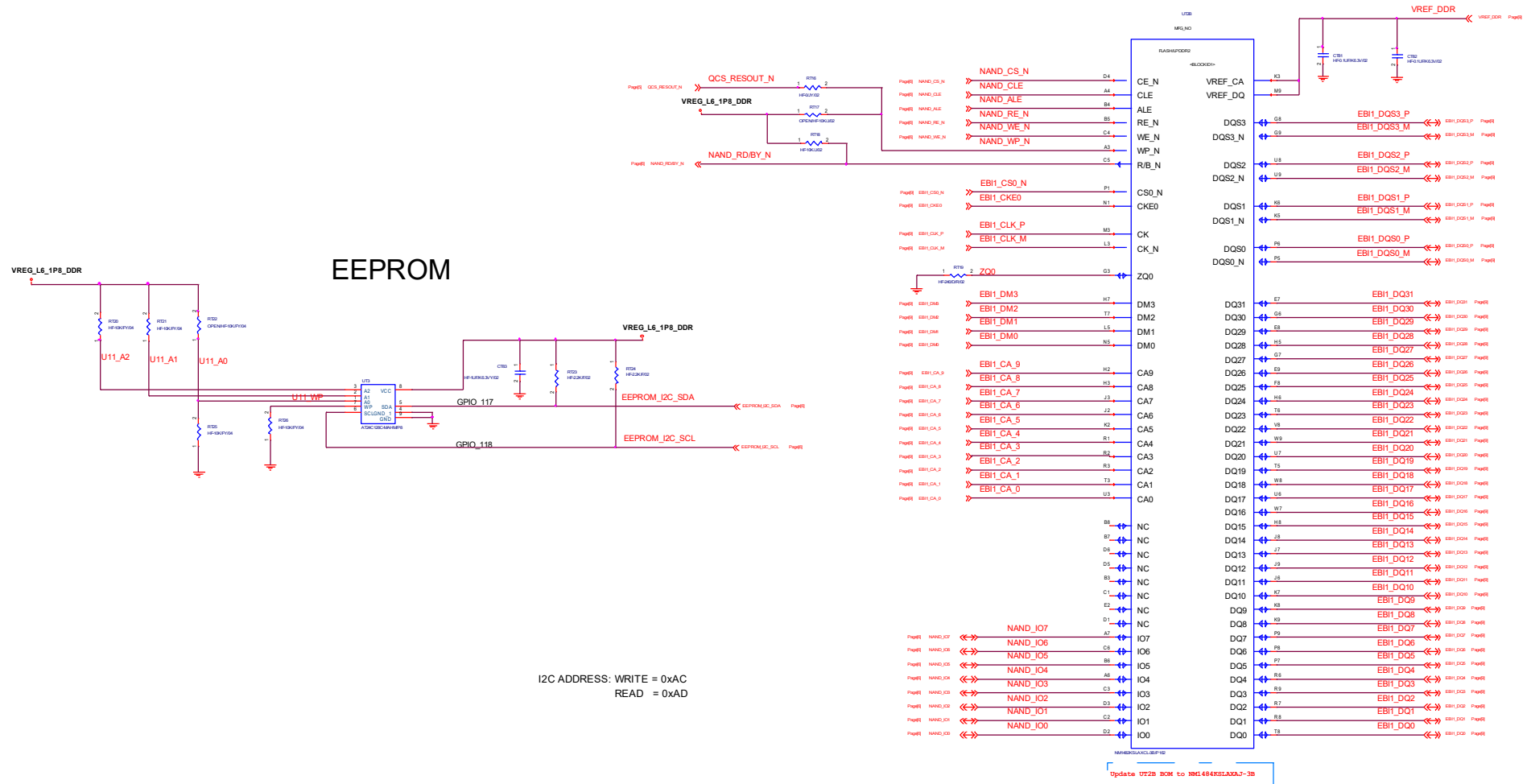
CAD NOTES:
 1. Dedicated GND vias from bulk caps to main GND plane



QCS404: GND

MCN NEEDS TO BE REPLACED TO Z71-92643-0000 NANYA PART

LPDDR2 NAND

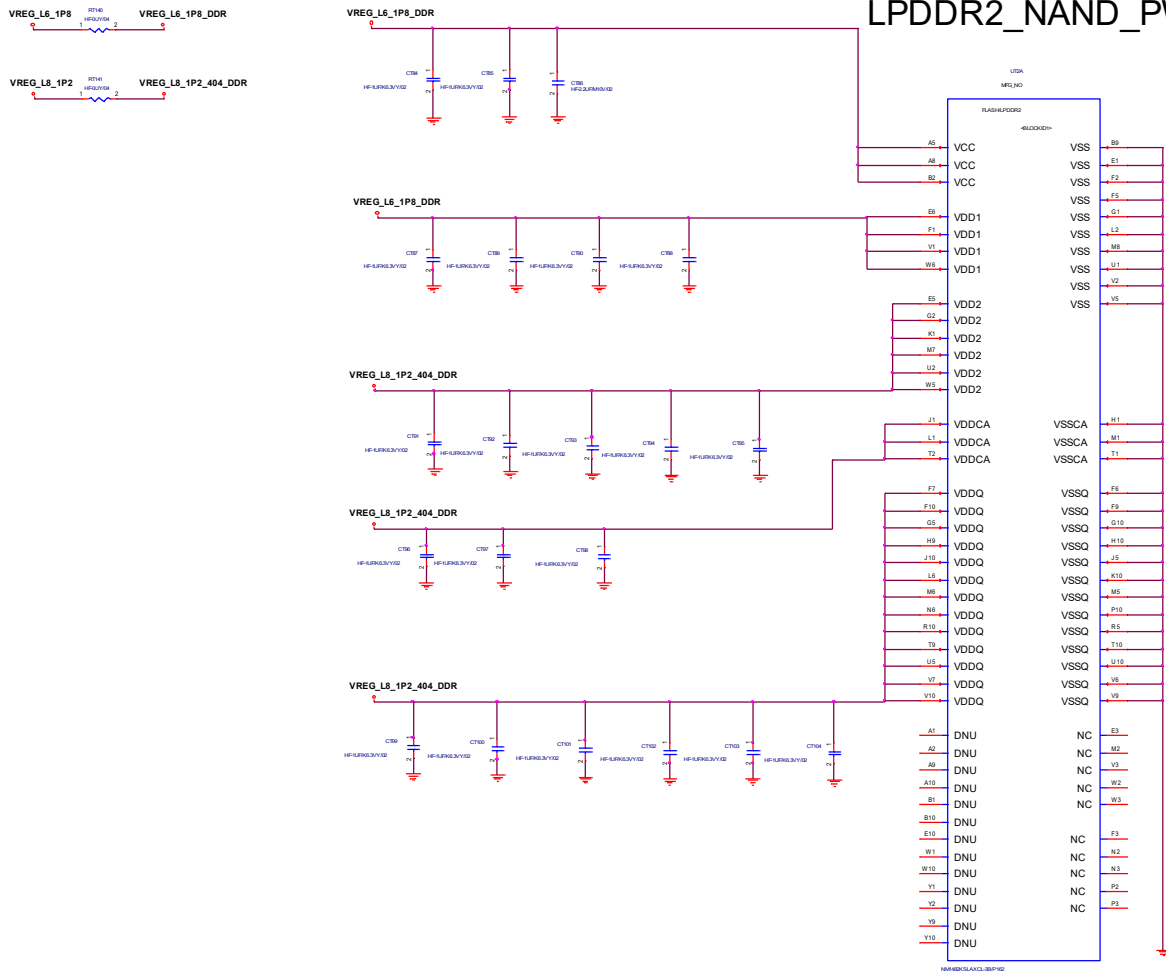


I2C ADDRESS: WRITE = 0xA0
READ = 0xA1

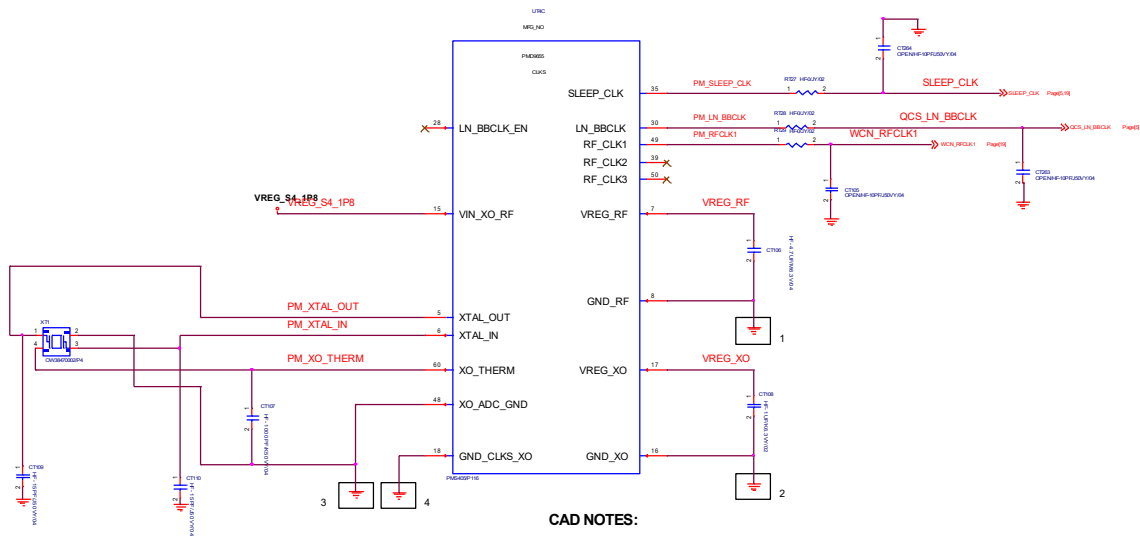
Update U728 BOM to H614843SLA2A3-3B

LPDDR2 NAND

LPDDR2_NAND_PWR

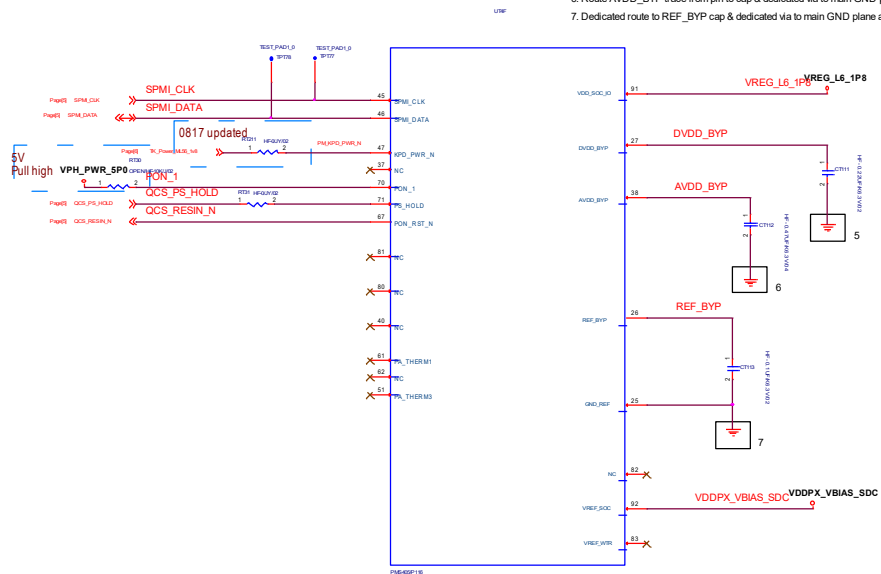


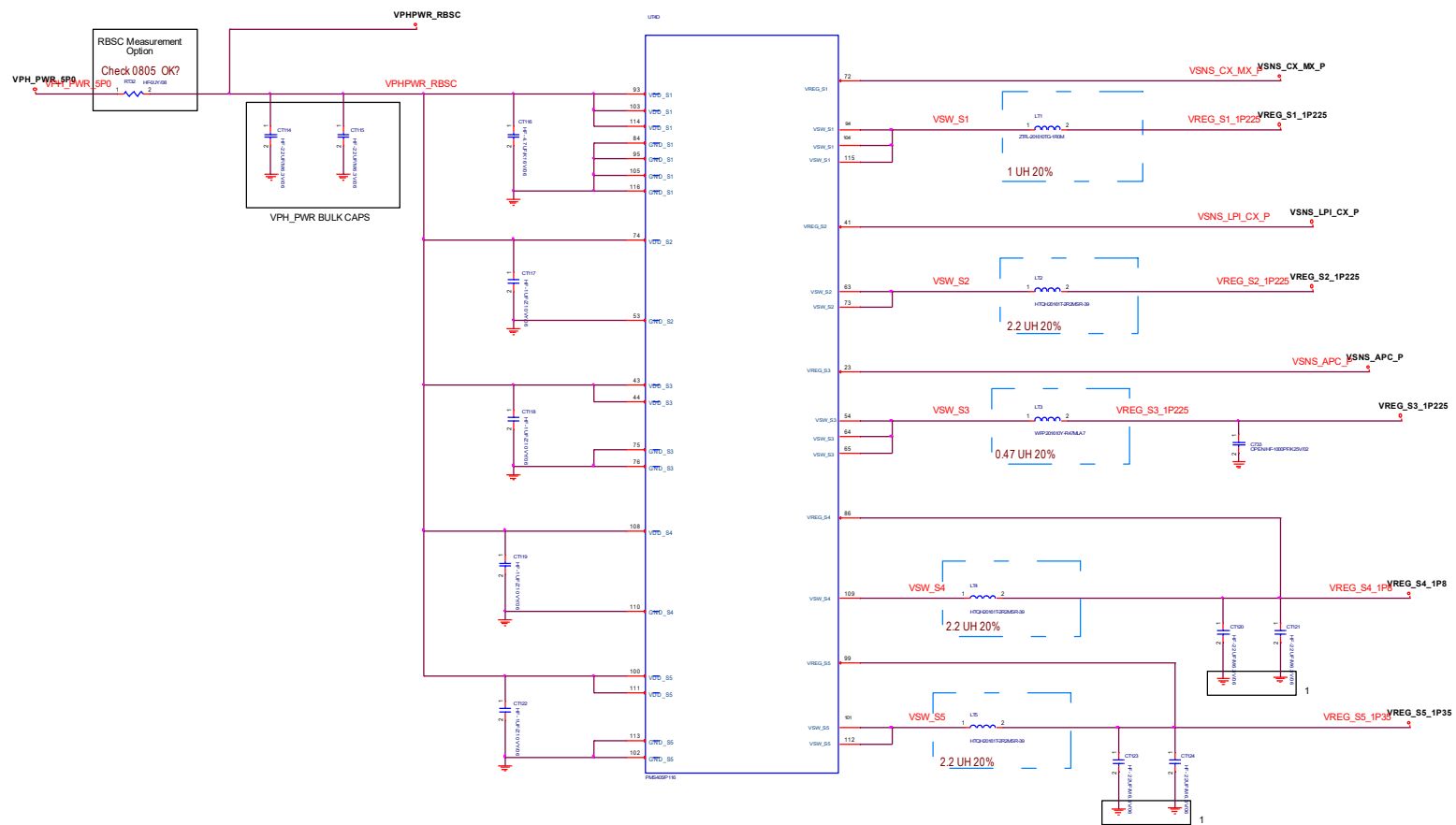
LPDDR2_NAND_PWR



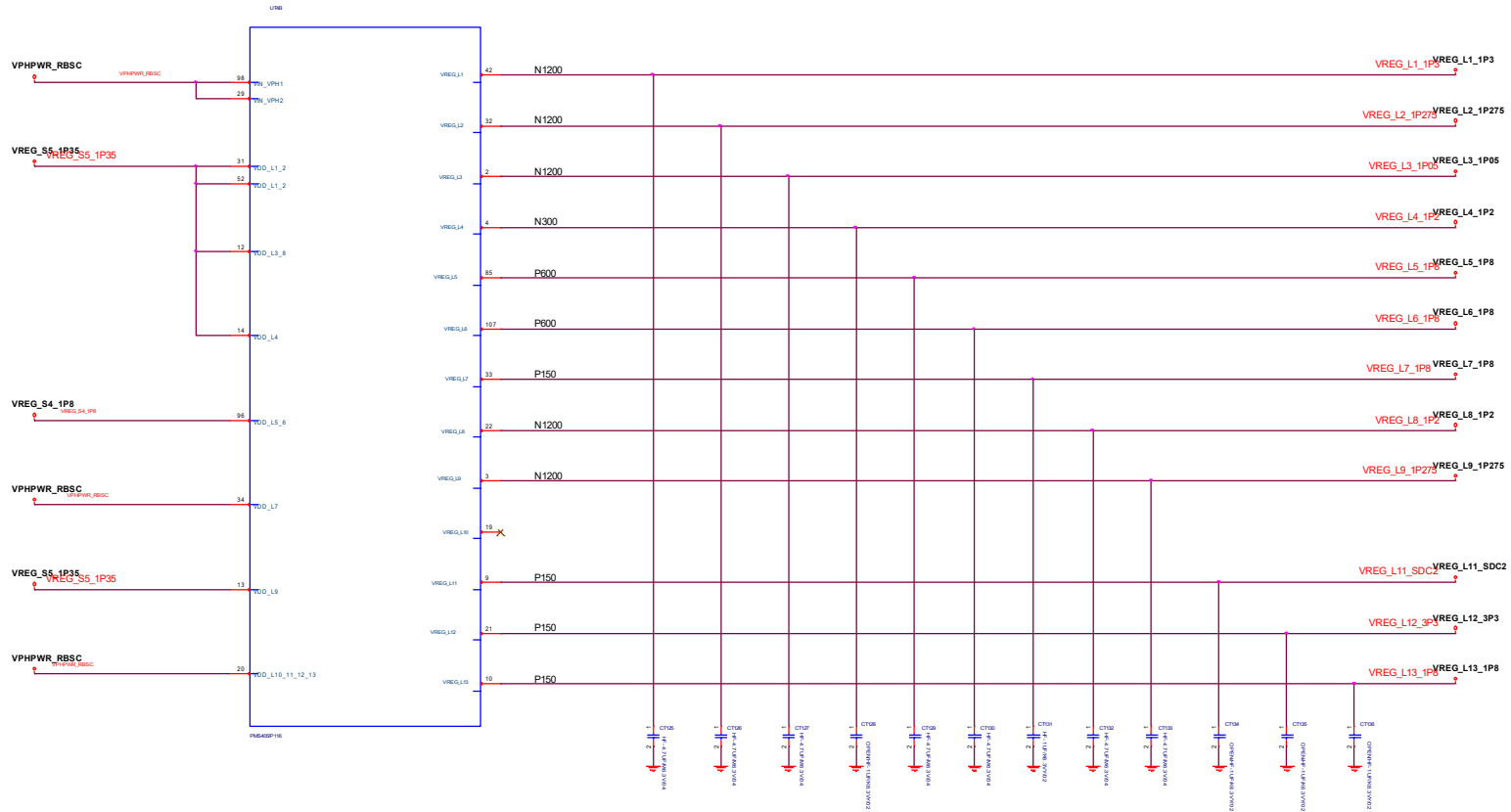
CAD NOTES:

1. Dedicated GND trace route to VREG_RF cap & dedicated via to main GND plane at C2 cap
2. Dedicated GND trace route to VREG_XO cap & dedicated via to main GND plane at Pin# 16
3. Dedicated GND trace route from C9 cap to Y1-2 pin & dedicated via to main GND plane close to Pin# 48
4. Short Pin# 18 with Pin# 8 & dedicated via to main GND plane at C2 cap
5. Route DVDD_BYP trace from pin to cap & dedicated via to main GND plane at C7 cap
6. Route AVDD_BYP trace from pin to cap & dedicated via to main GND plane at C11 cap
7. Dedicated route to REF_BYP cap & dedicated via to main GND plane at Pin# 25

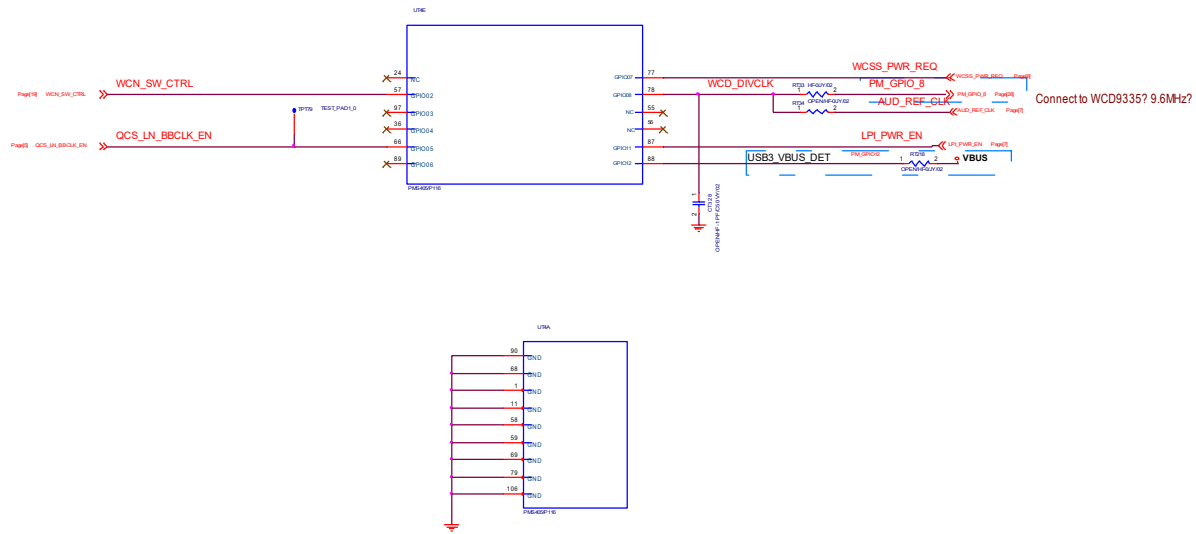


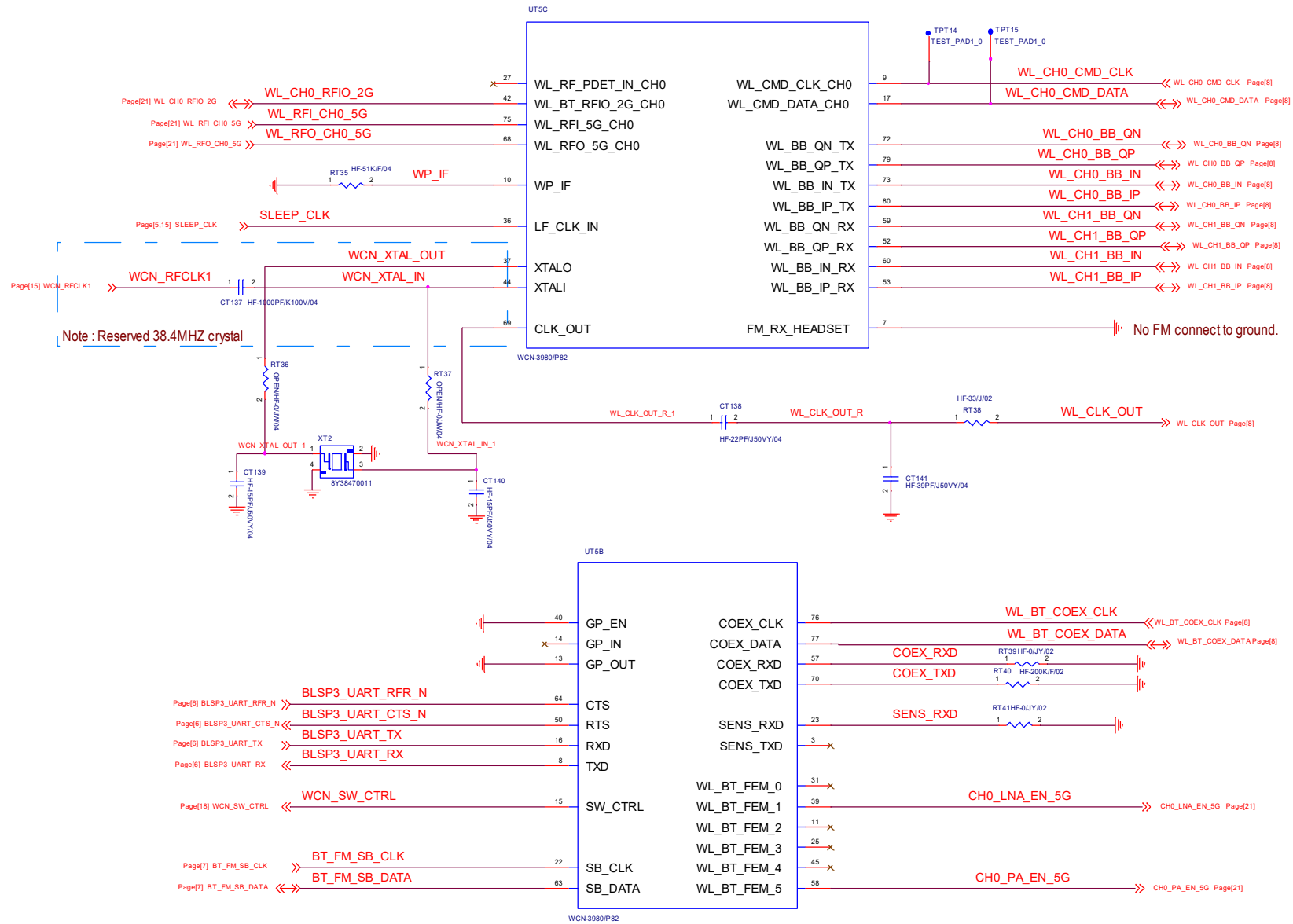


CAD NOTES:
 1. Dedicated GND vias from bulk caps to main GND plane



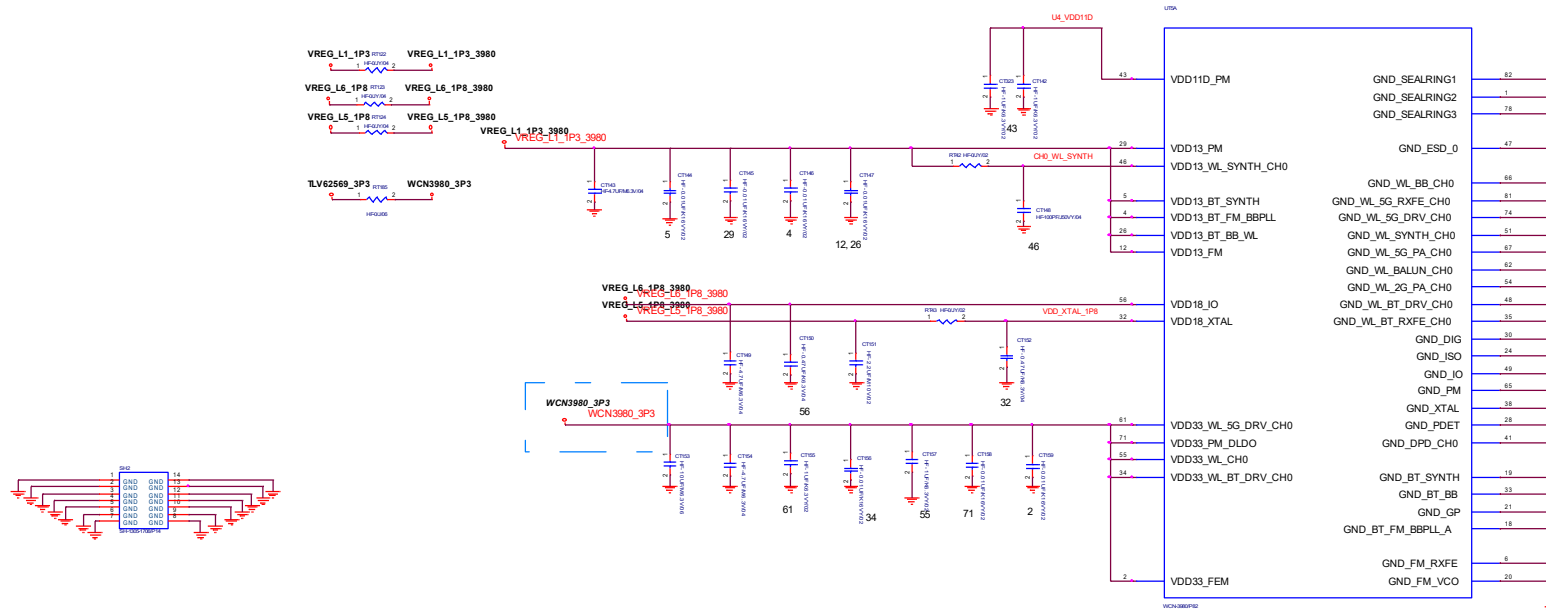
PMS405: LDOs





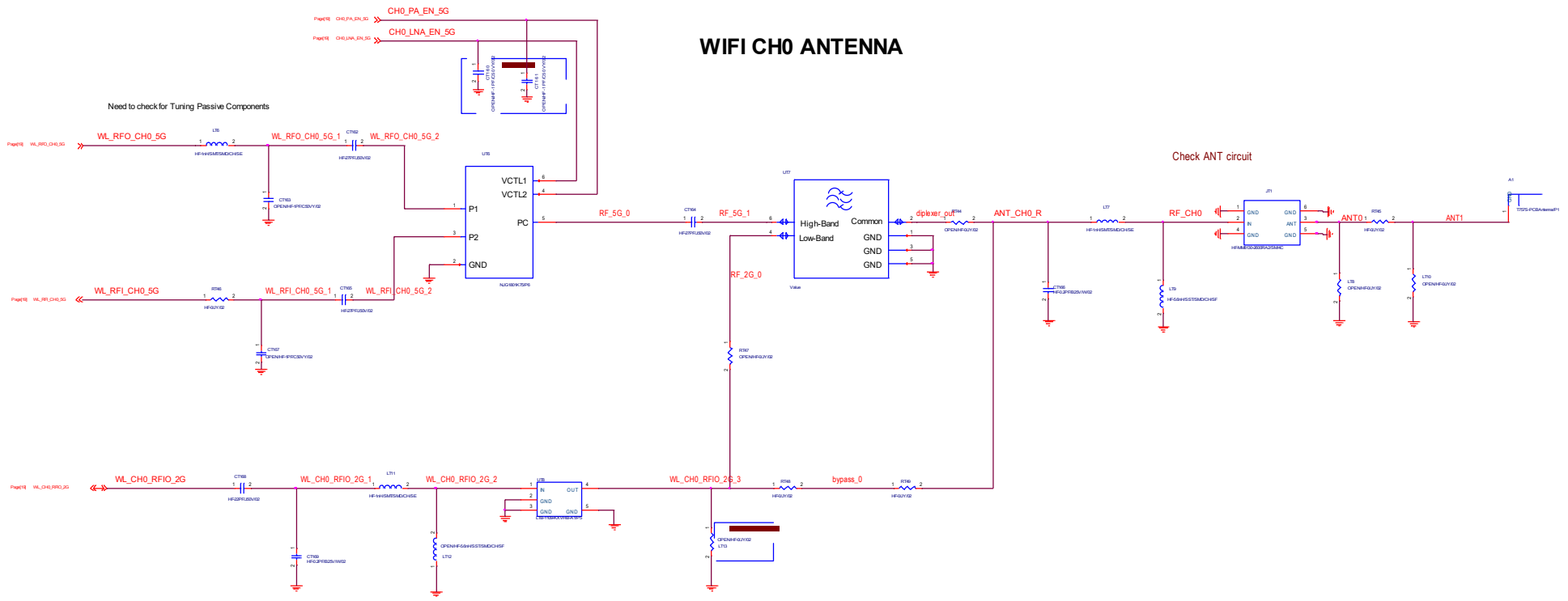
WCN3980_CONTROL

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Size	Document Number	WCN3980_CONTROL	
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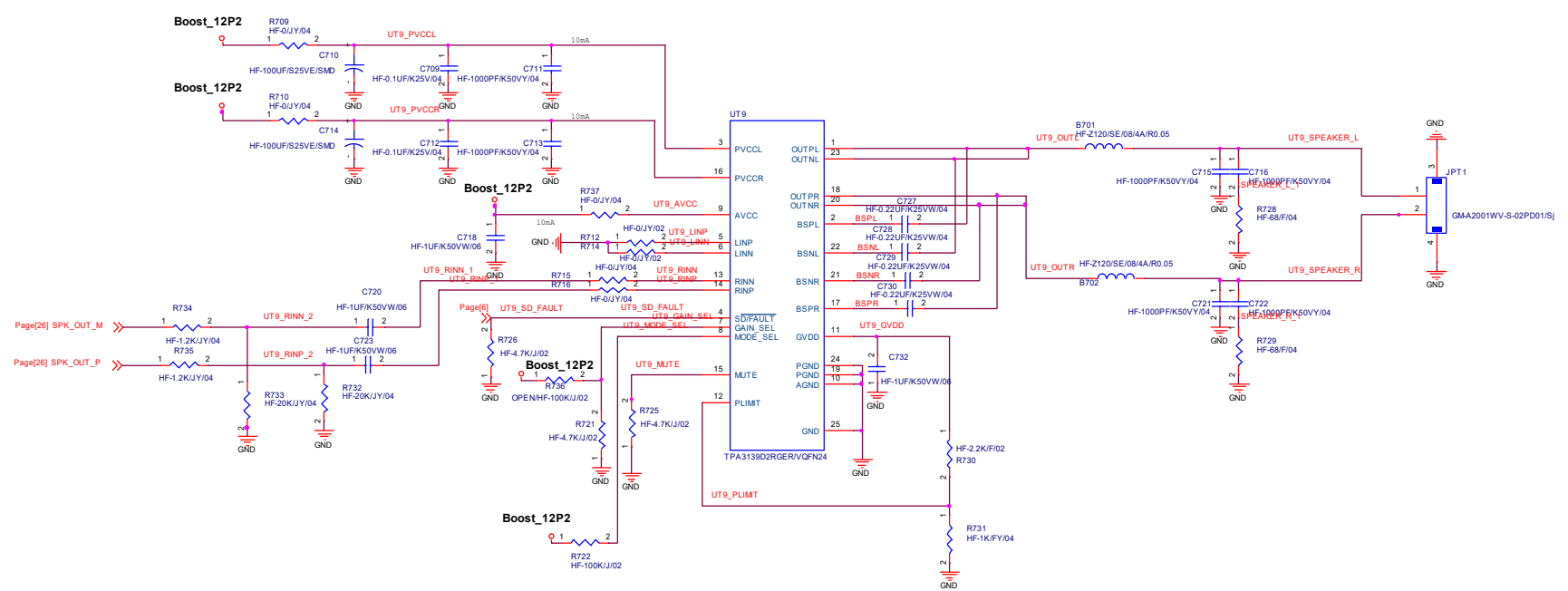
WCN3980: POWER/GND

WIFI CH0 ANTENNA



WCN3980: WLAN/BT CH0

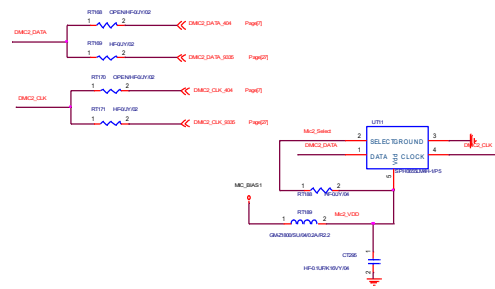
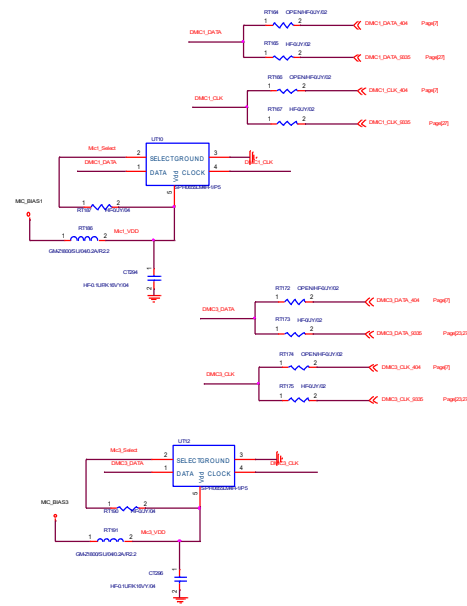
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Doc Name	WCN3980_WLAN_BT_CH0
Doc Version	1.0
Doc Date	2018/08/28

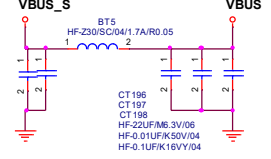
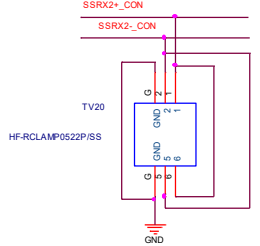
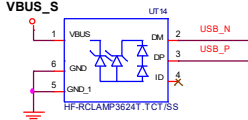
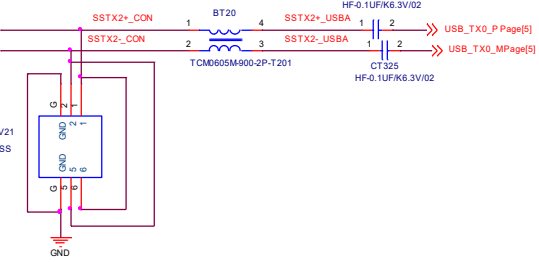
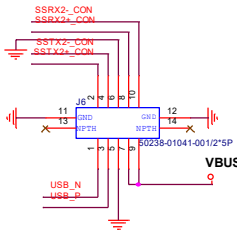
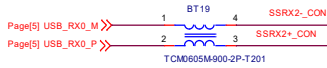


Audio Speaker Class D AMP

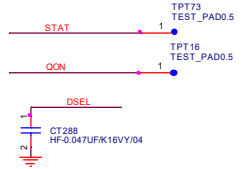
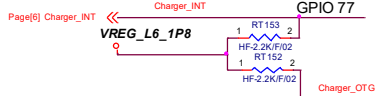
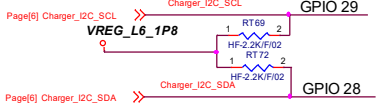
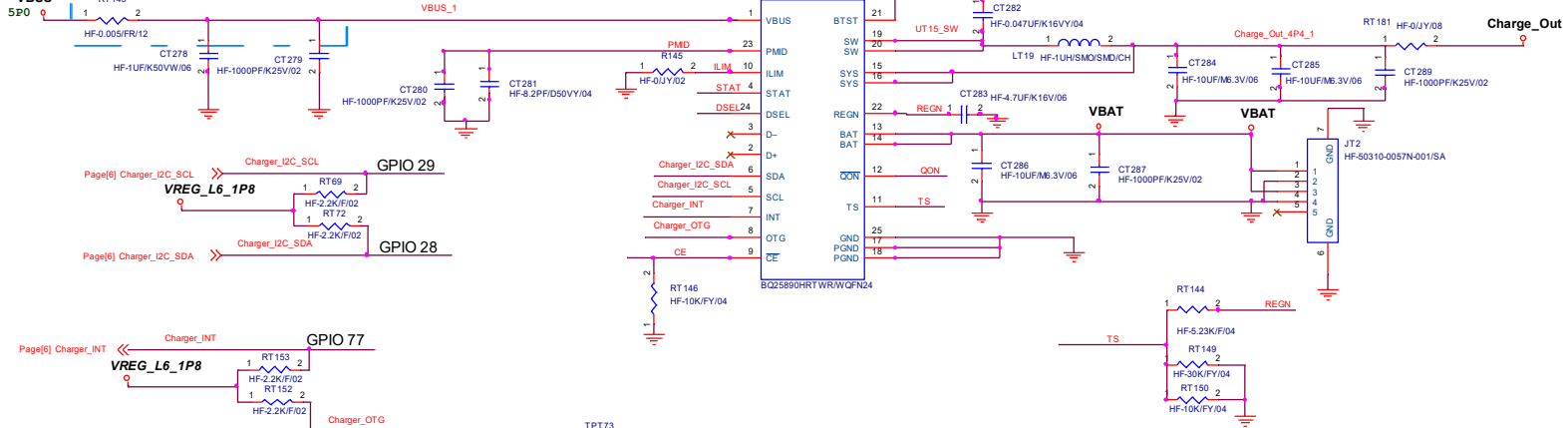
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Size	Document Number	Rev	
C	Audio Speaker Class D AMP	A	
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Audio MIC



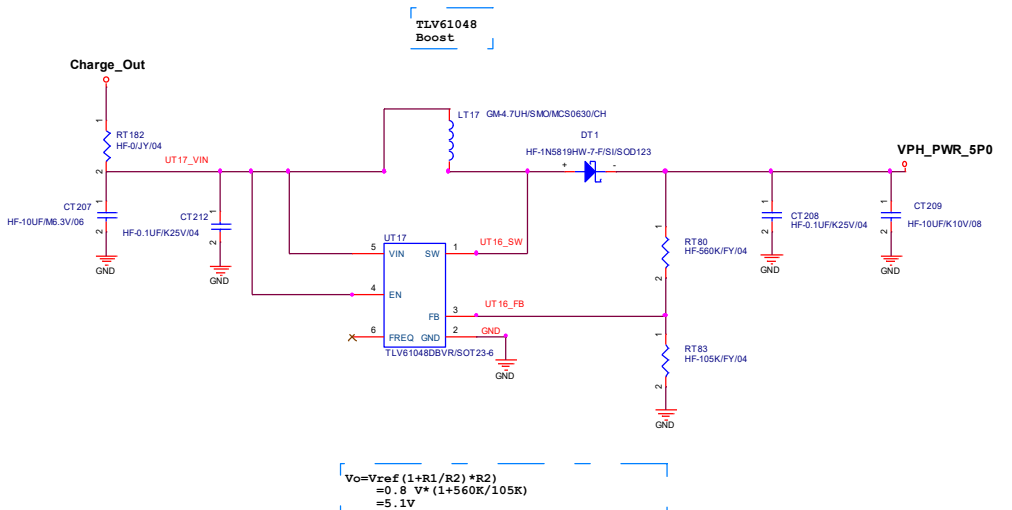
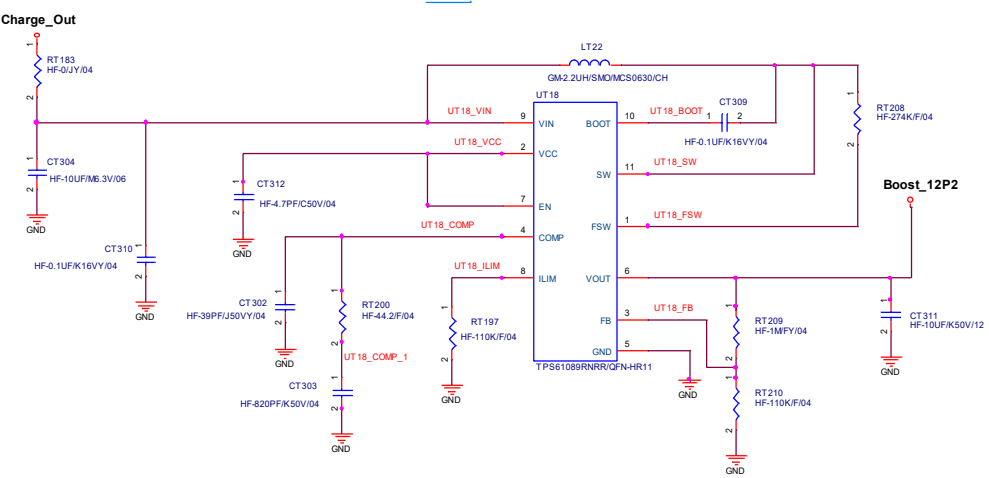


Update RT143 BOM to 007A0000JANX.



BQ25890_Charge

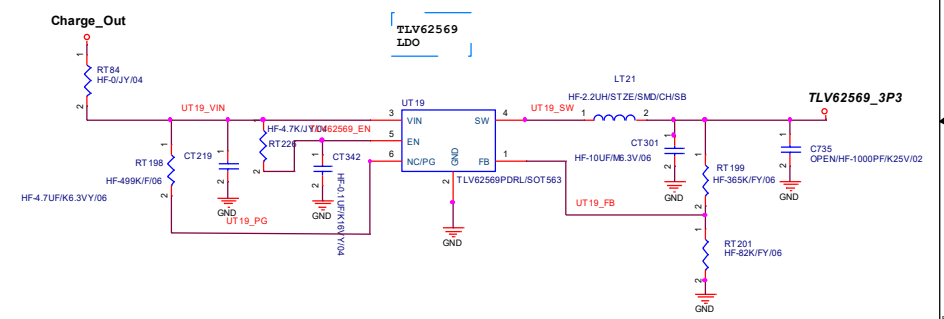
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C			A
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$$V_o = V_{ref} (1 + R1/R2) + R2$$

$$= 0.8 \text{ V} * (1 + 560\text{K}/105\text{K})$$

$$= 5.1 \text{ V}$$

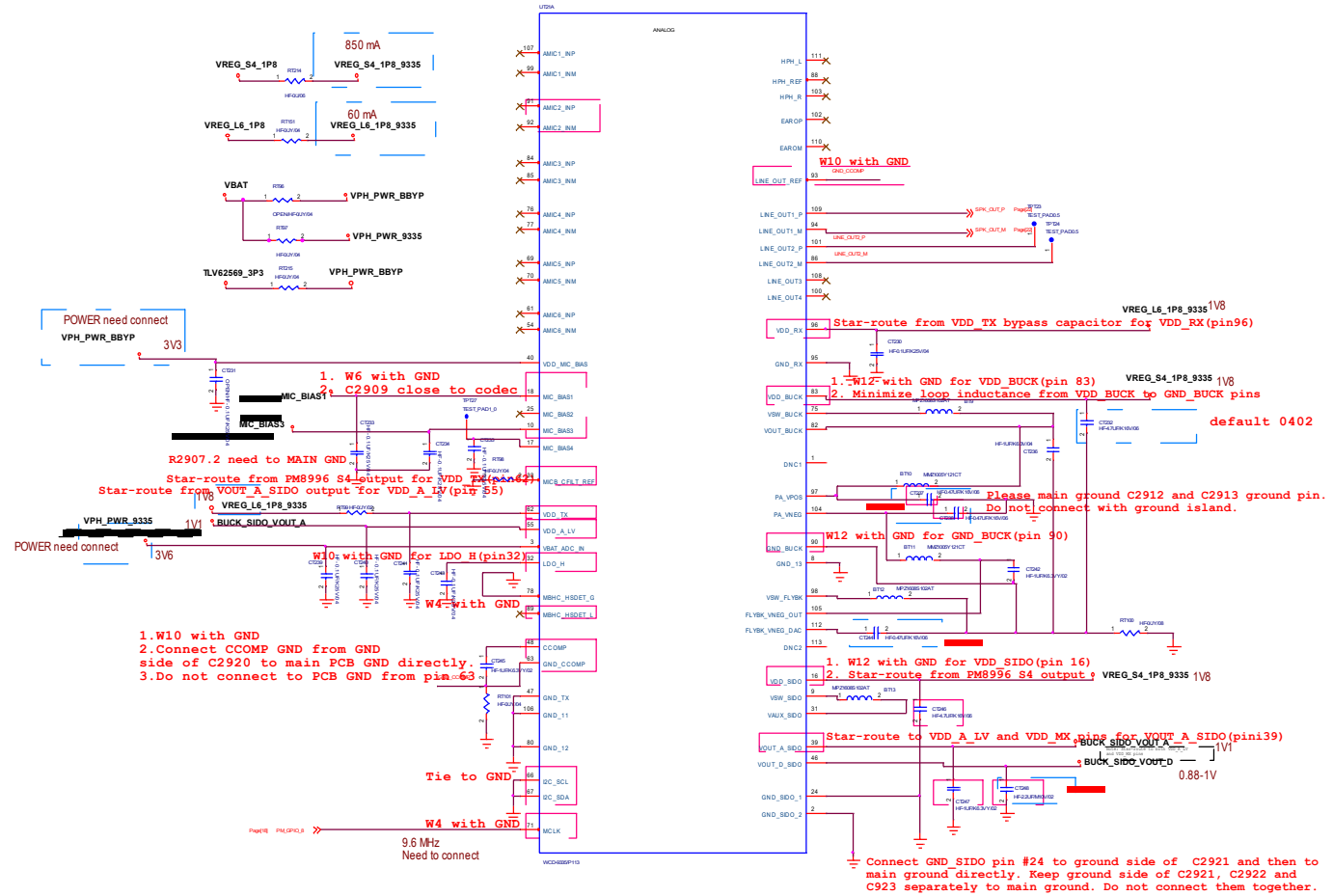


$$V_o = 0.6 * (1 + (365\text{K}/82\text{K}))$$

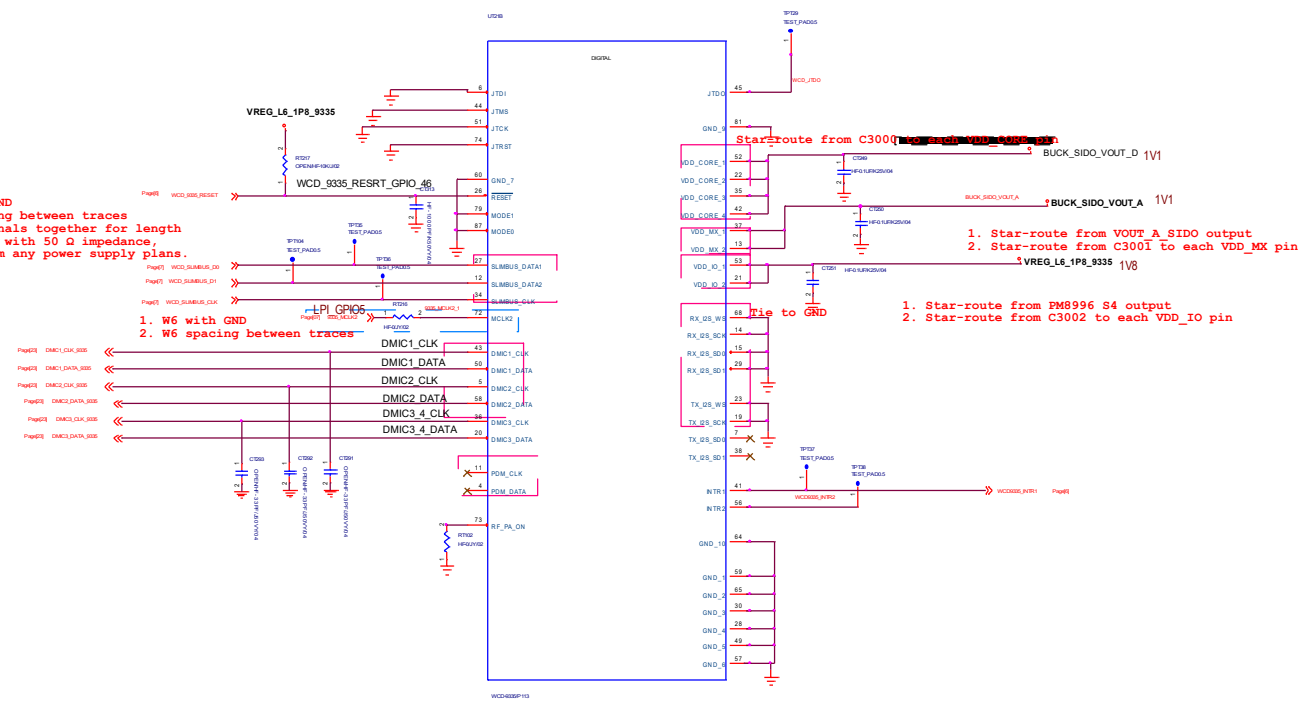
$$= 3.27 \text{ V}$$

Boost LDO

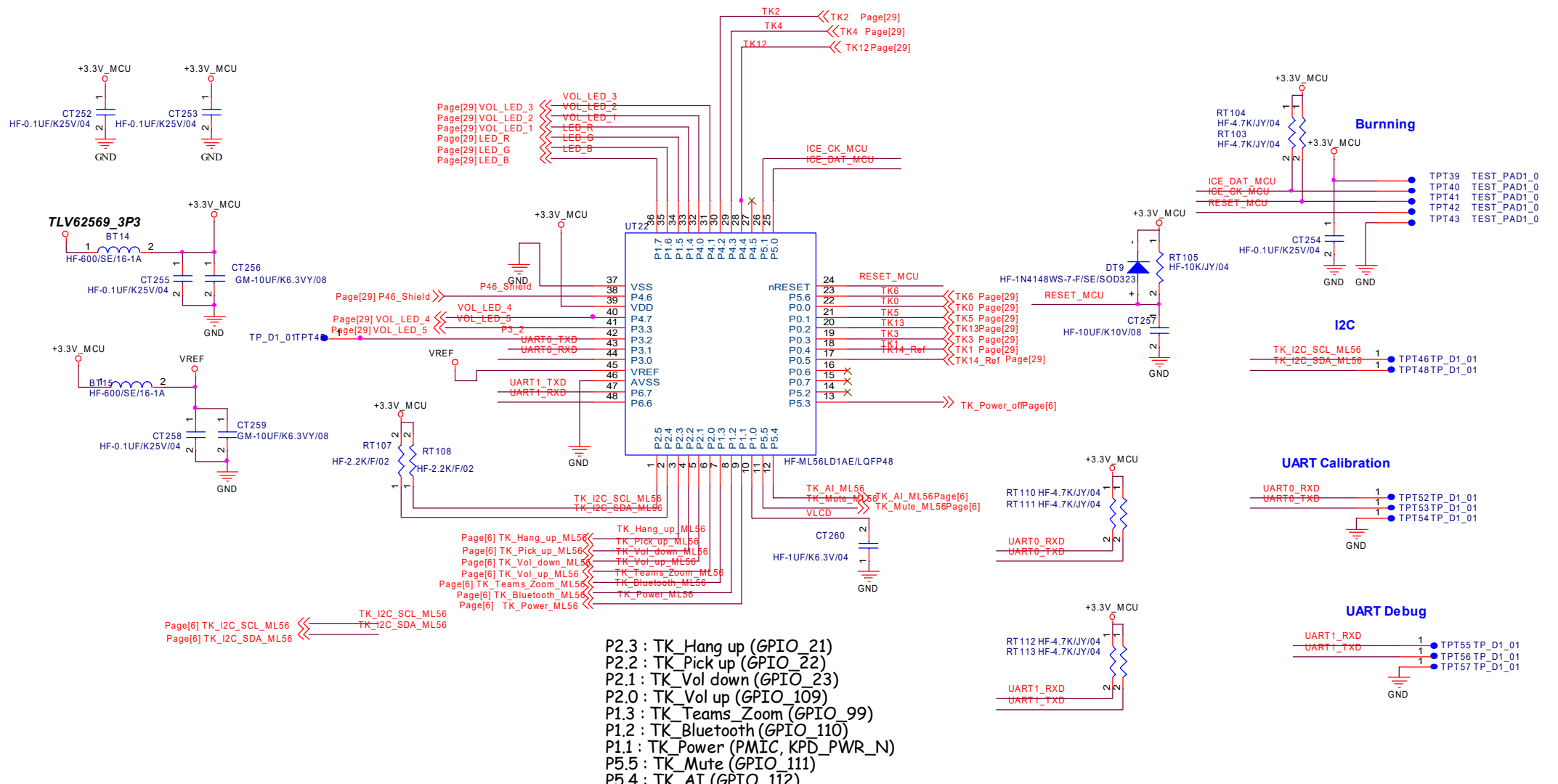
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Size	Document Number	Rev	
C	Boost LDO	A	
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WCD9335-Audio Codec Analog



Touch Key_LED

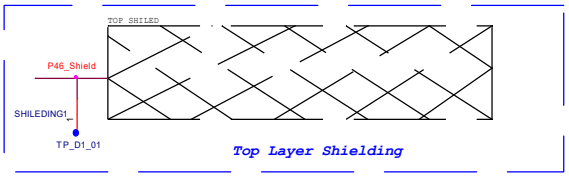
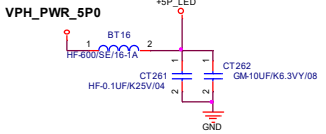
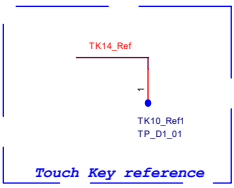


- P2.3 : TK_Hang up (GPIO_21)
- P2.2 : TK_Pick up (GPIO_22)
- P2.1 : TK_Vol down (GPIO_23)
- P2.0 : TK_Vol up (GPIO_109)
- P1.3 : TK_Teams_Zoom (GPIO_99)
- P1.2 : TK_Bluetooth (GPIO_110)
- P1.1 : TK_Power (PMIC, KPD_PWR_N)
- P5.5 : TK_Mute (GPIO_111)
- P5.4 : TK_AI (GPIO_112)

company	AverMedia	
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B	MCU ML56L1AE	A
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Page[28] TK0	TK0
Page[28] TK1	TK1
Page[28] TK2	TK2
Page[28] TK3	TK3
Page[28] TK4	TK4
Page[28] TK5	TK5
Page[28] TK6	TK6
Page[28] TK12	TK12
Page[28] TK13	TK13

Page[28] P46_Shield	P46_Shield
Page[28] TK14_Ref	TK14_Ref



Power



Bluetooth



Teams/Zoom



Vol up



Vol down



Pick up



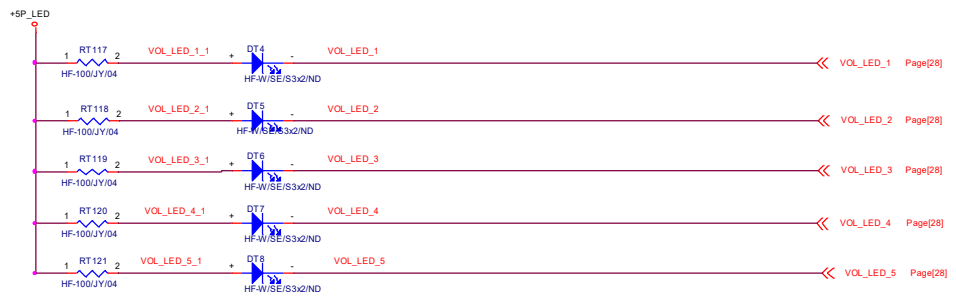
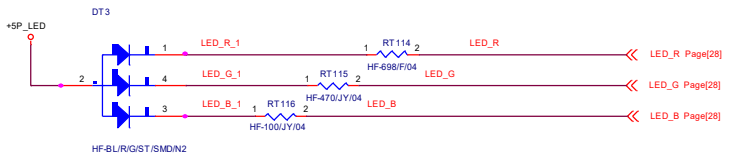
Hang up



Mute



AI



MCU ML56LD1AE

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