

THIS PCB HAS
RED SOLDER
MASK

QUASAR-NGWTQCS4490

MB EV1 V19

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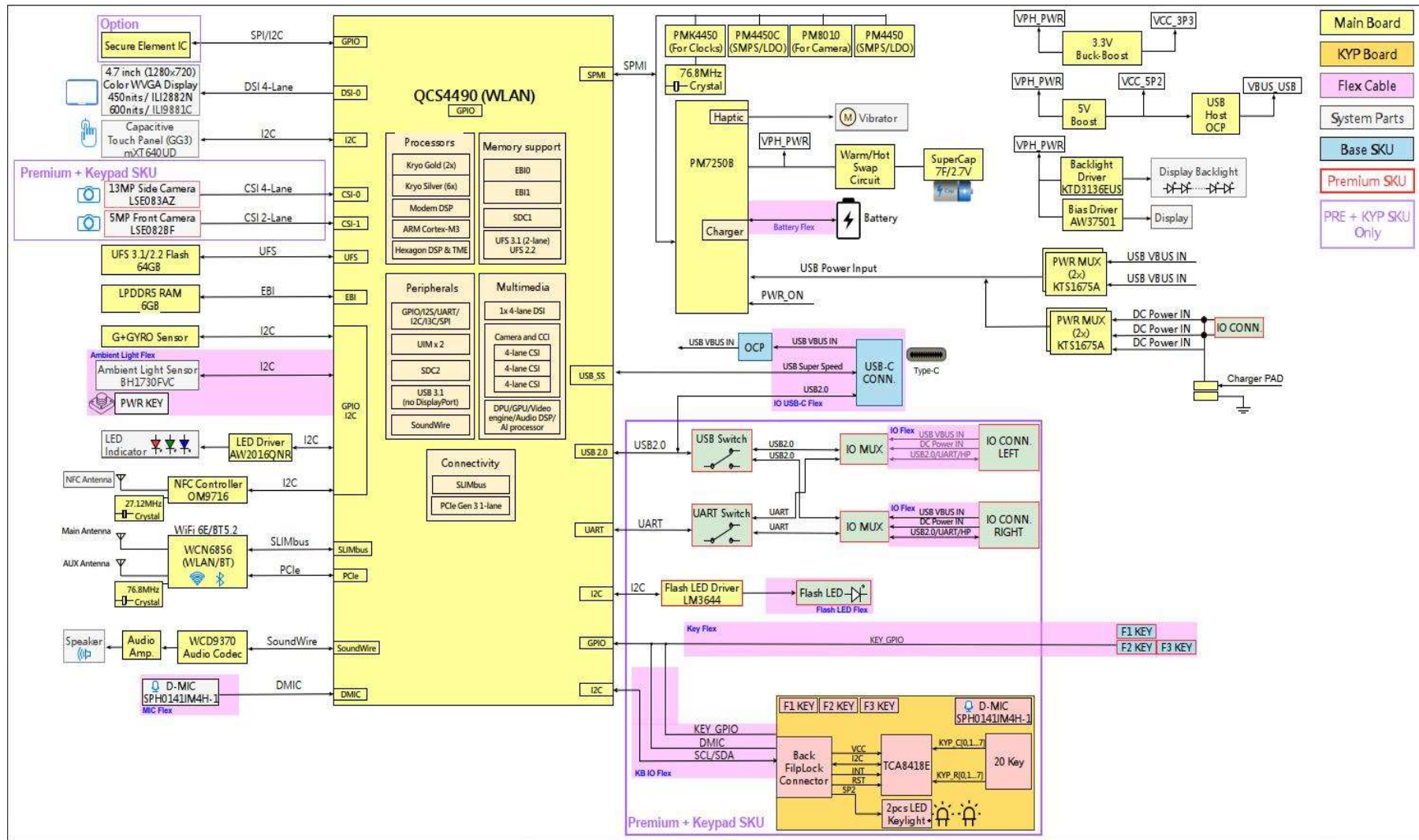
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ITEM	QTY	PART NO.	DESCRIPTION				REMARKS/REF. SYMBOL			
ZEBRA TECHNOLOGIES CORPORATION			PARTS LIST				ZEBRA TECHNOLOGIES CORP. HOLTSVILLE, NEW YORK 11742			
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BLOCK DIAGRAM

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REV	ZONE	DESCRIPTION	E.C.	BY	DATE
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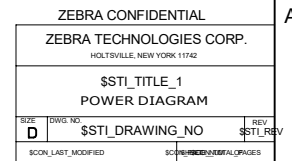
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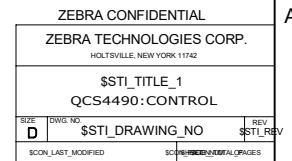
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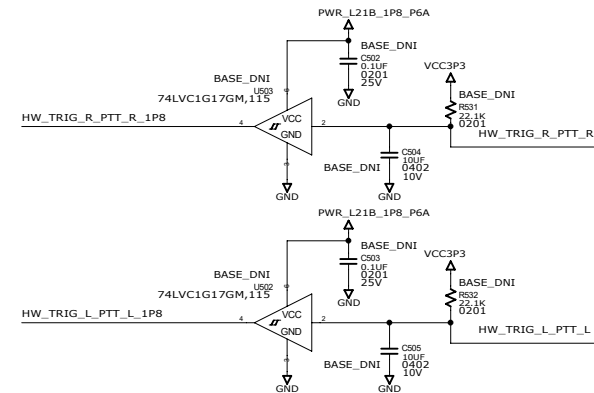
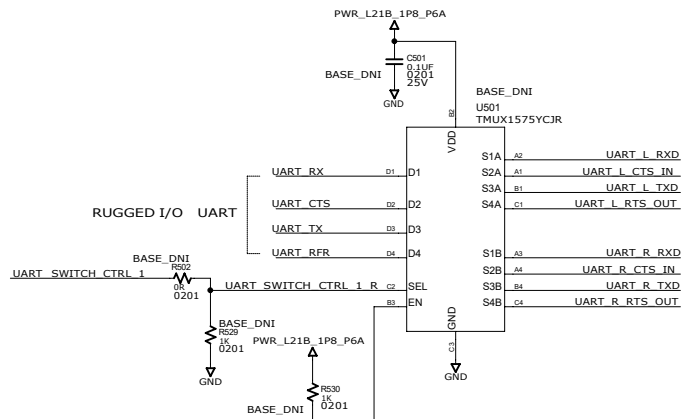
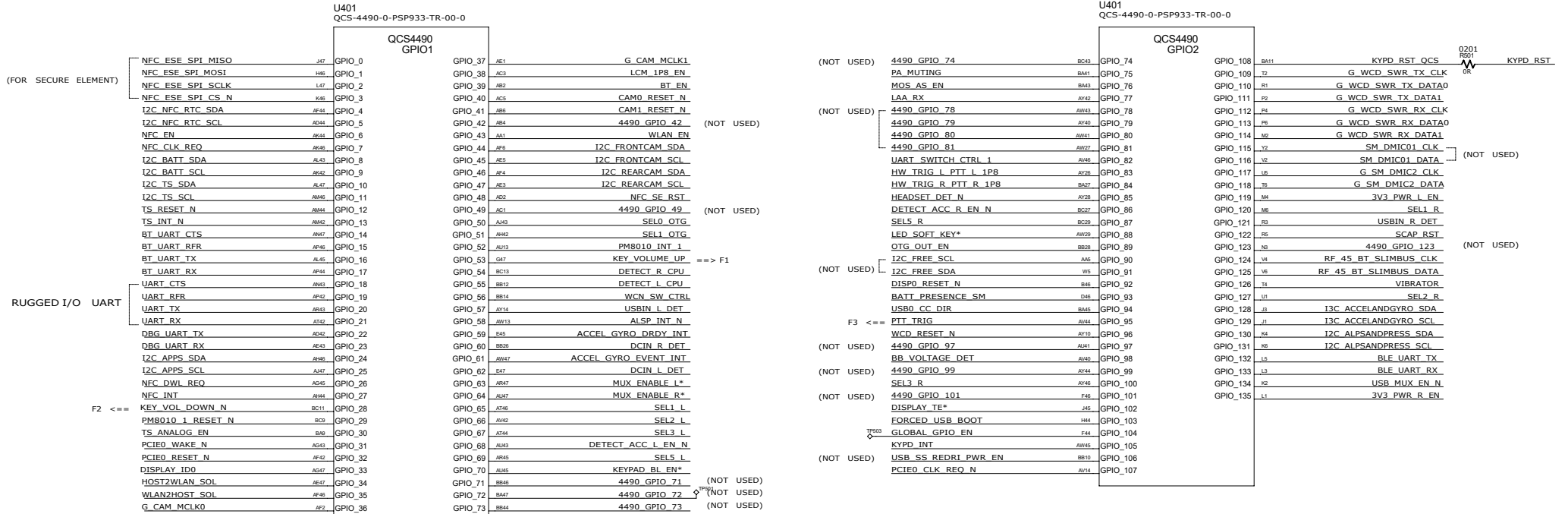


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QCS4490:GPIOs

REV		ZONE	REVISIONS	DESCRIPTION	E.C.	BY	APVD.	DATE
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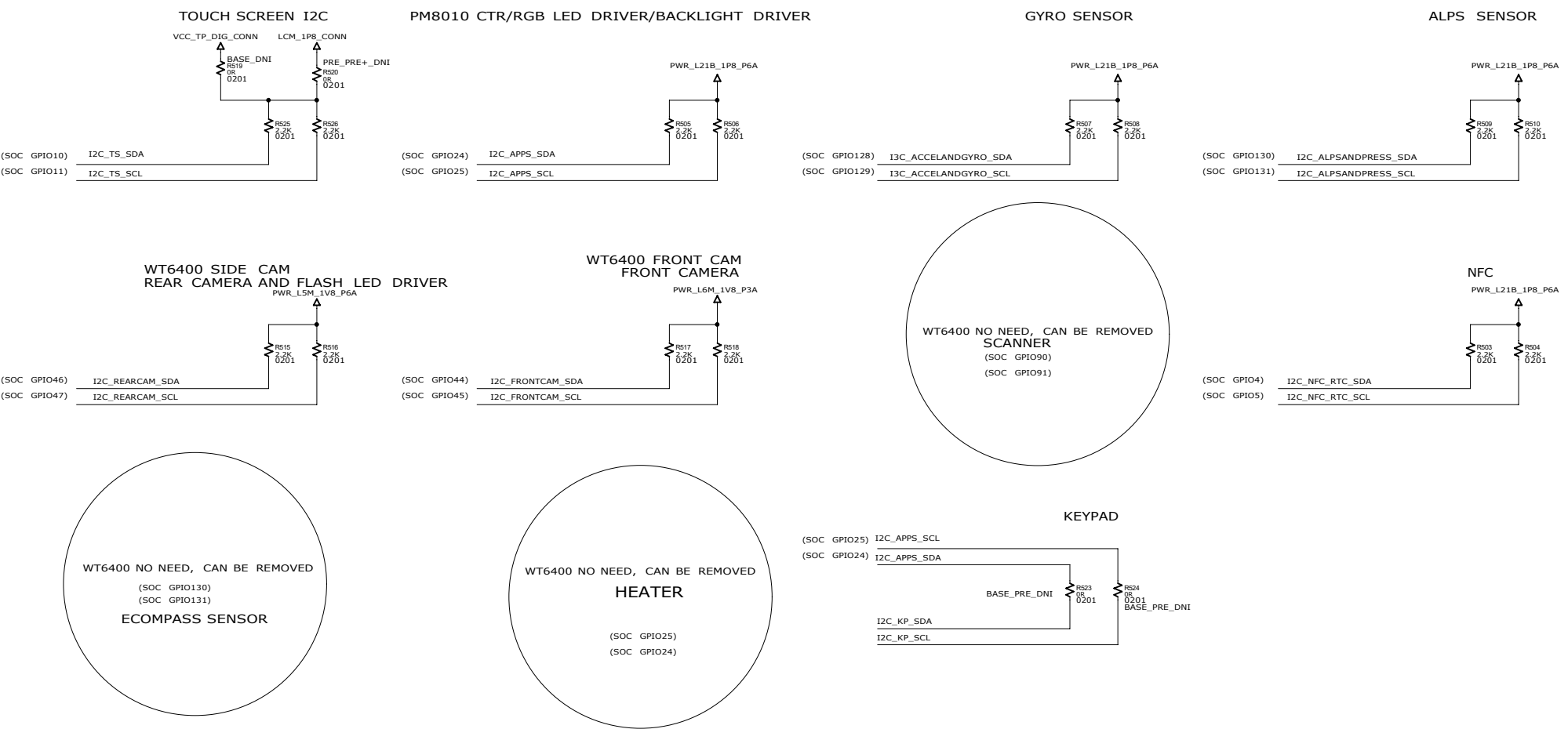
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QCS4490:GPIOs

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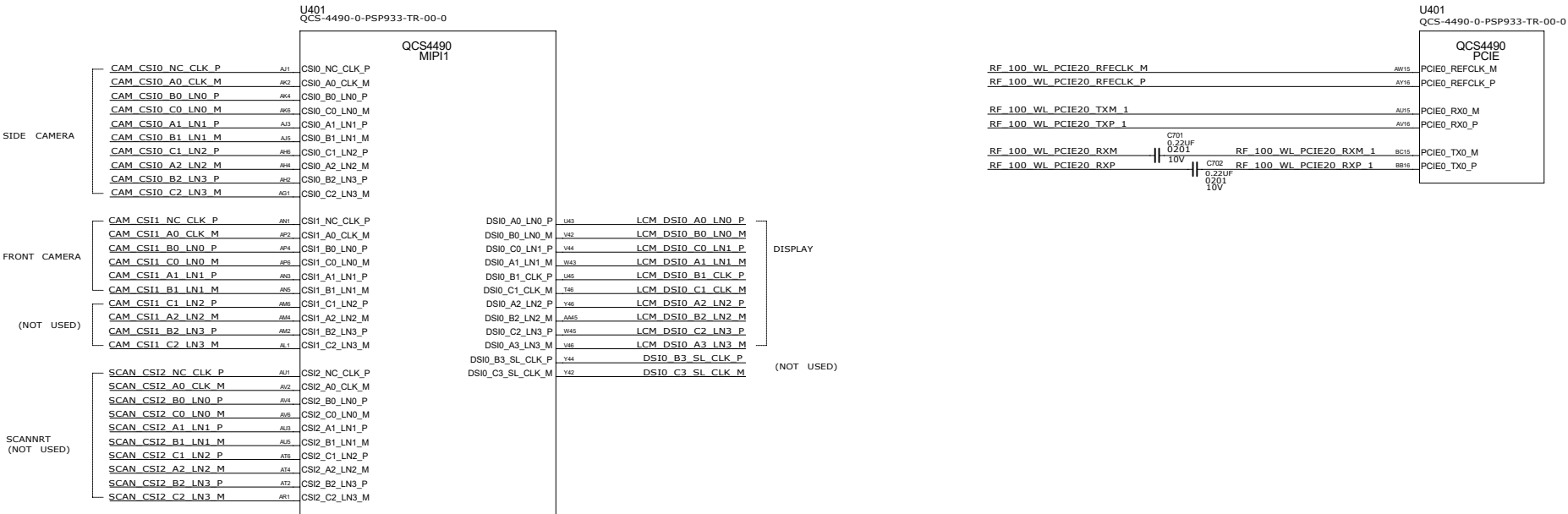
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SSTI_TITLE_1			
QCS4490:I2C PULL UPS			
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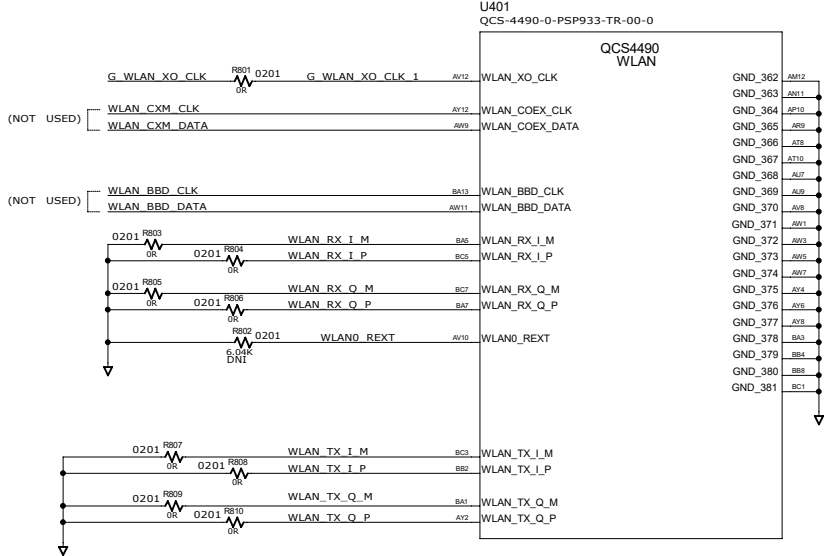
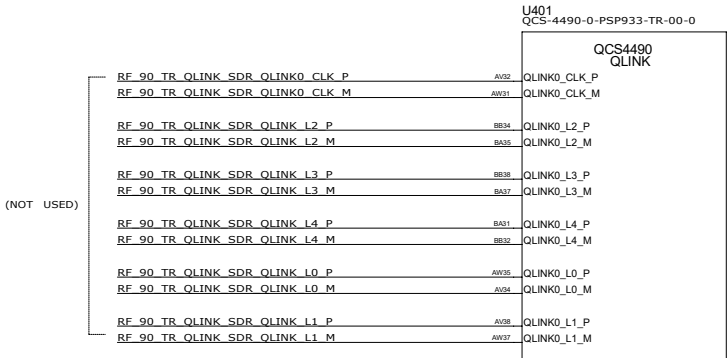
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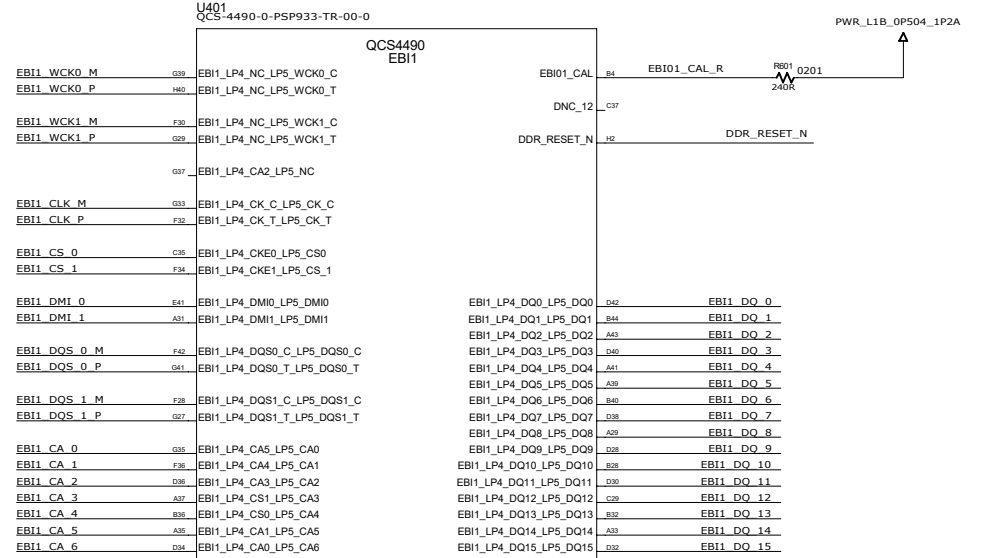
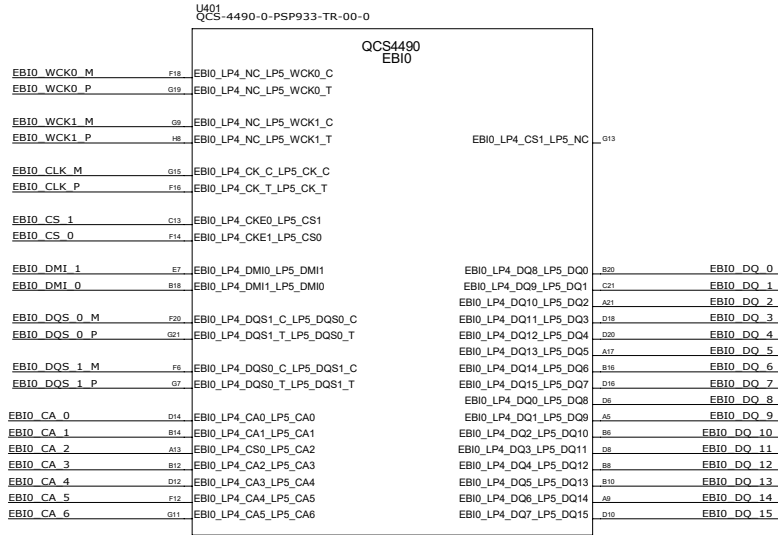
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QCS4490 EBI0/1

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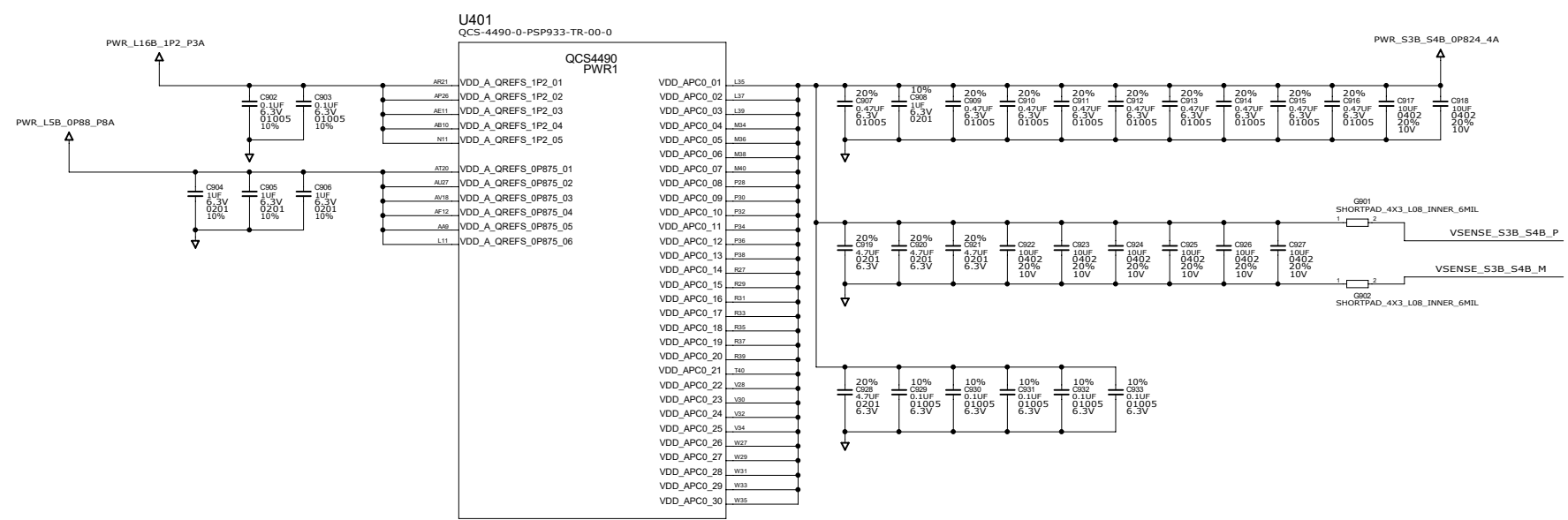
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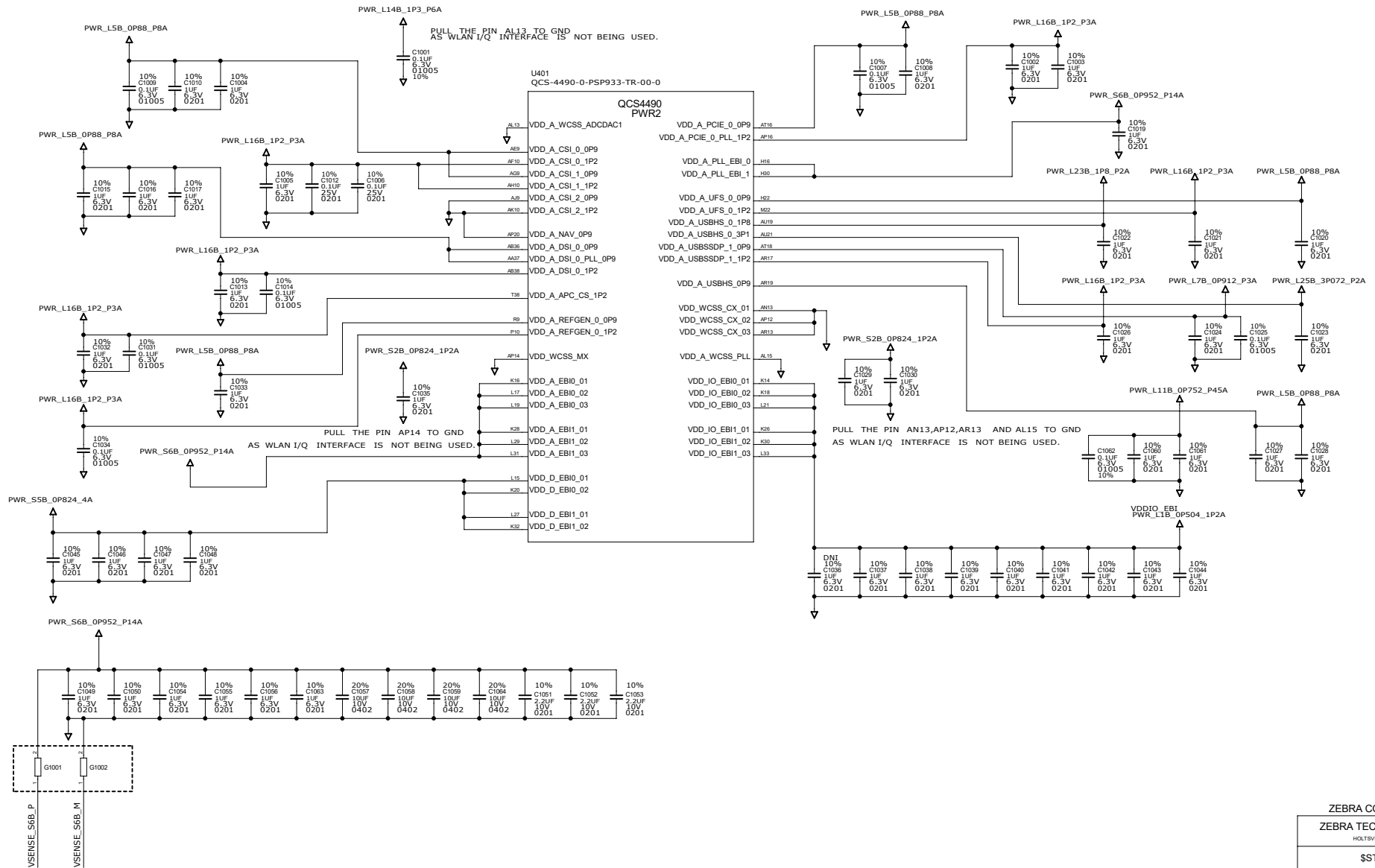
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HOLTSVILLE, NEW YORK 11742					
SSTI_TITLE_1					
QCS44990:POWER					
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QCS4490:PWR2

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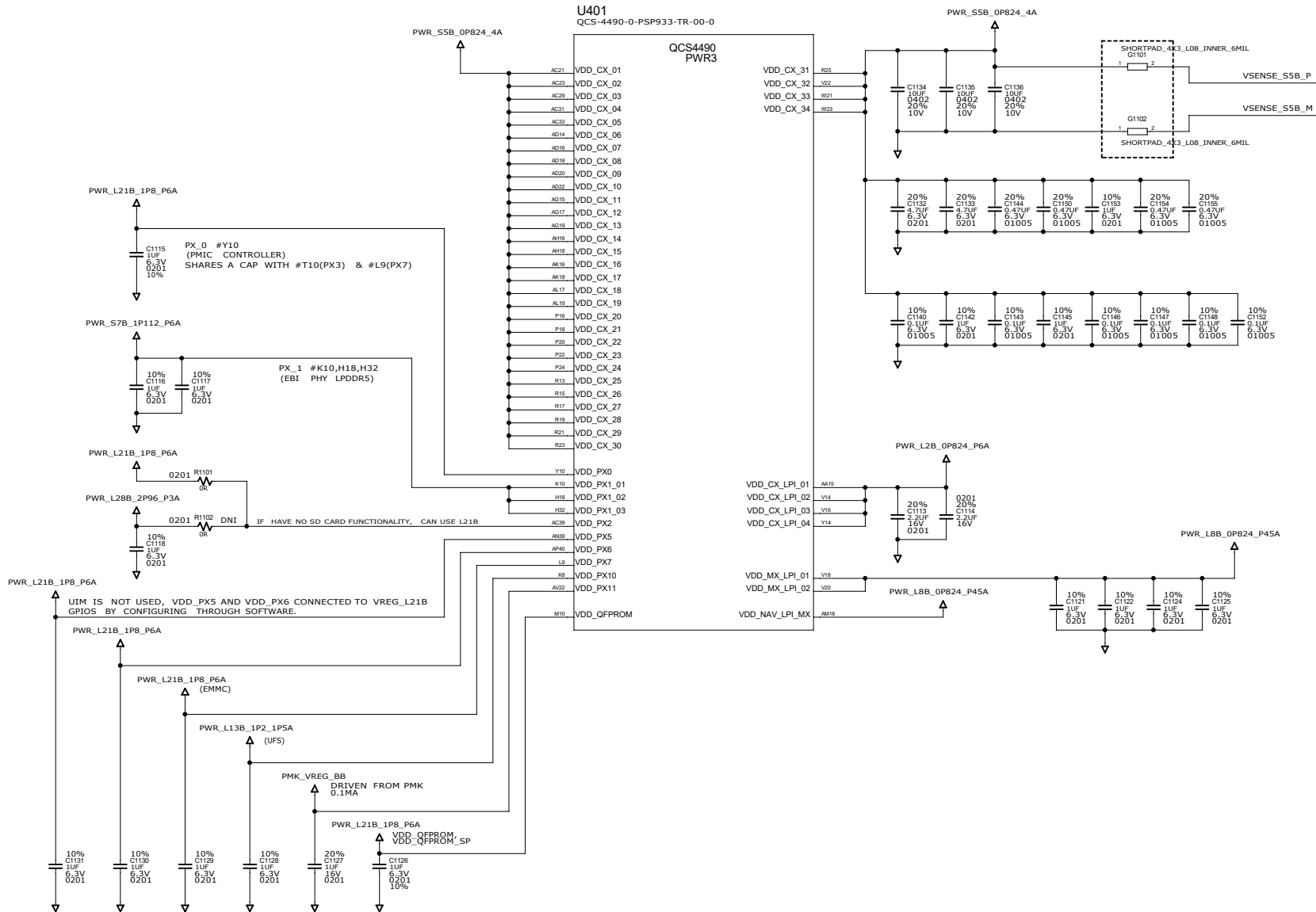
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QCS4490: POWER

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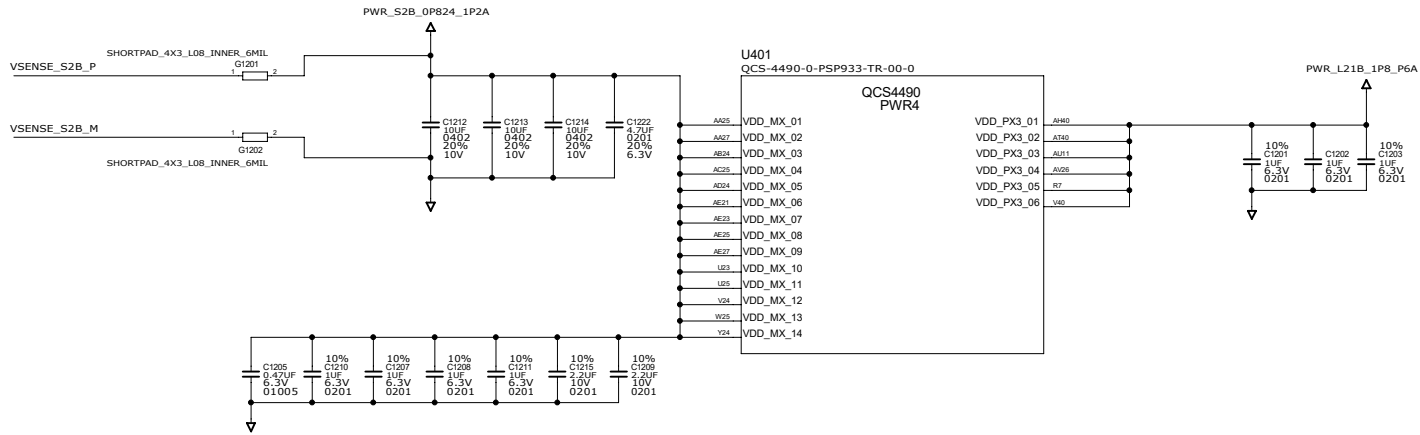
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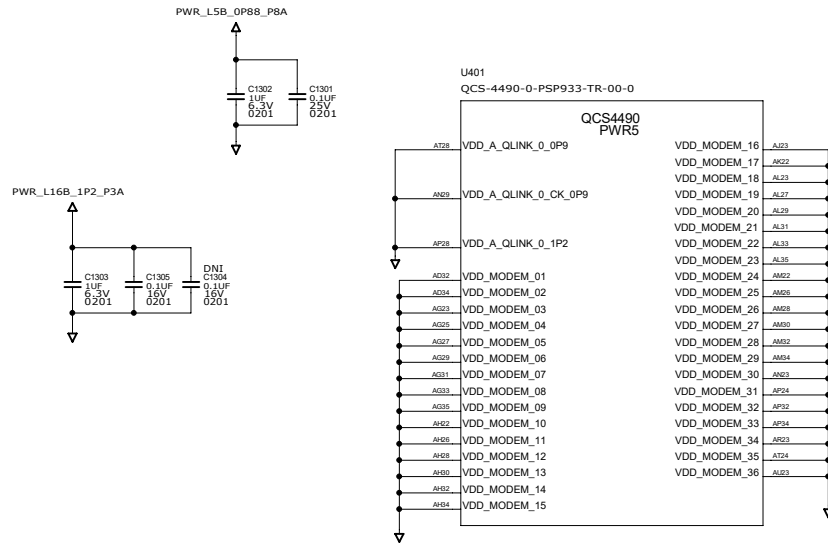
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QCM/QCS4490 PWR4

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QCM/QCS4490 PWR5



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CCFL TITLE 5 4

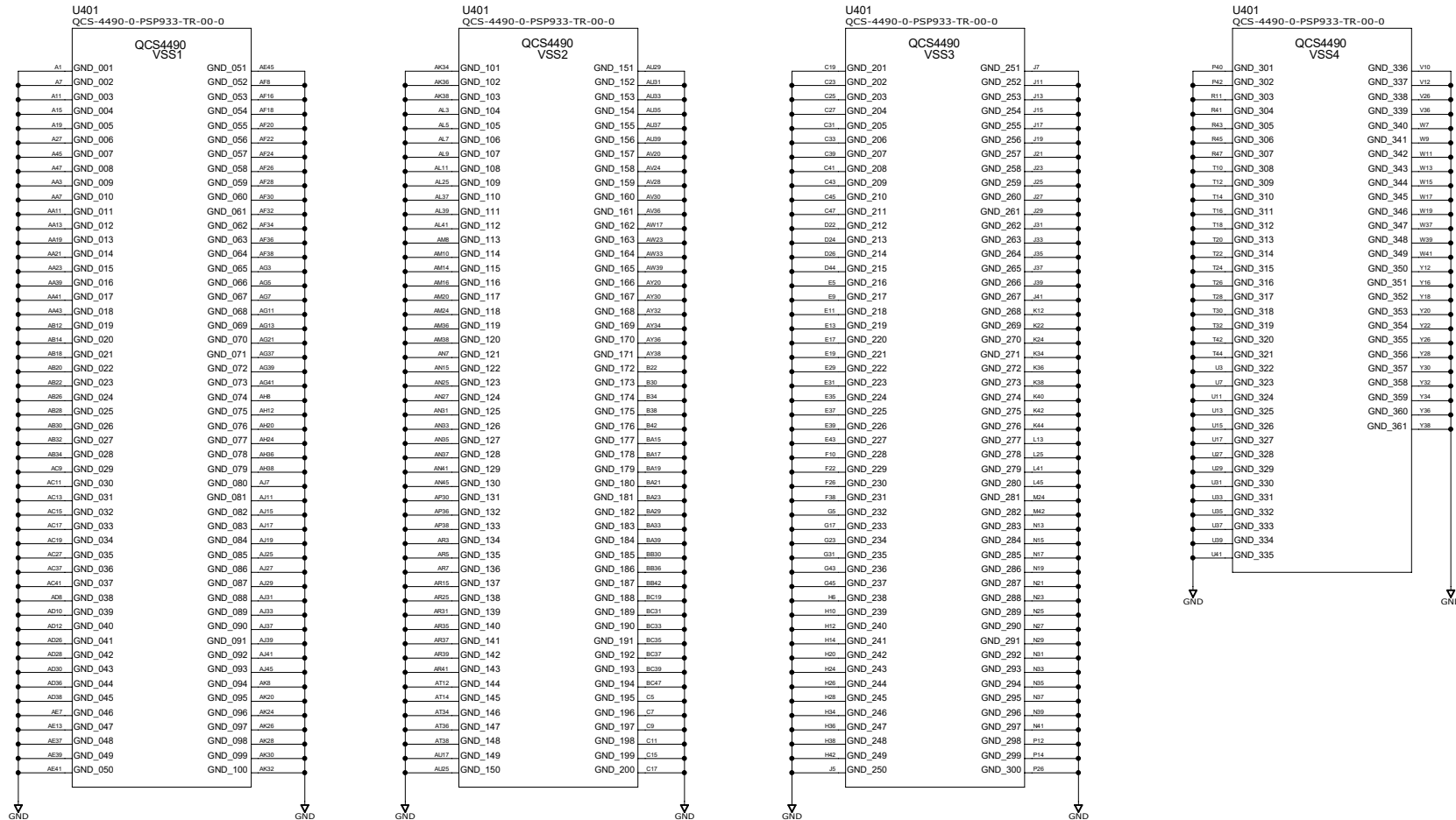
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QCS4490:GND

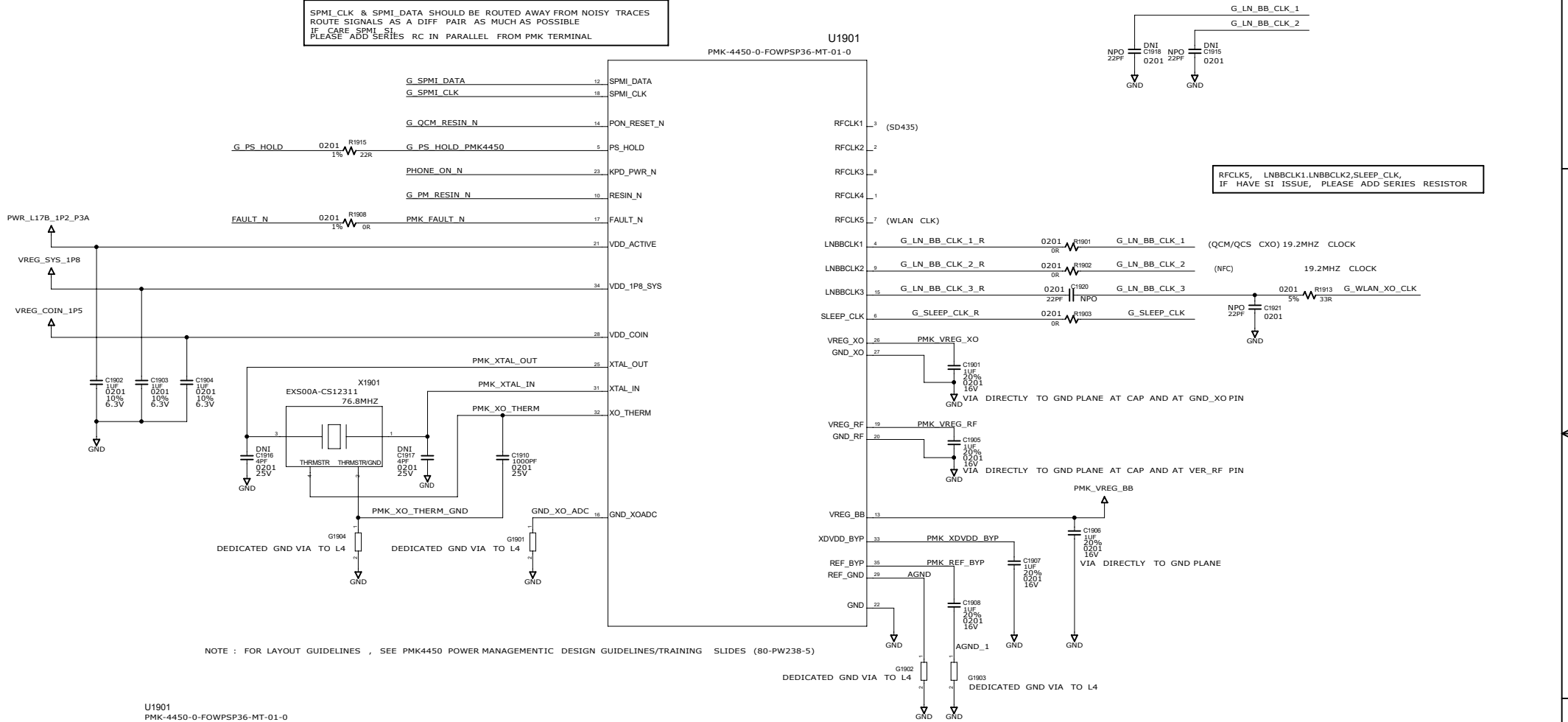
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REV	ZONE	DESCRIPTION	E.C.	BY	DATE
		SEE SHEET 1			



PMK4450

SPMI_CLK & SPMI_DATA SHOULD BE ROUTED AWAY FROM NOISY TRACES
ROUTE SIGNALS AS A DIFF PAIR AS MUCH AS POSSIBLE
IF CARE SPMI_SI PLEASE ADD SERIES RC IN PARALLEL FROM PMK TERMINAL

REVISIONS							
REV	ZONE	DESCRIPTION	E.C.	BY	APD.	DATE	
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U1901
PMK4450-0-FOWPSP36-MT-01-0

GPIO_01 24 SCAM MODULE THERM
GPIO_02 30 PA_THERM1 (NOT USED)
GPIO_03 11 PM4450C_RESET_N
GPIO_04 38 PMK_GPIO_4

NOTE : REFER - OPTION PIN STATE (PMK4450) TABLE FROM 80-PW238-1

Options	Resistor values (Ω)	LPDDR options	UFS option	SD card option
1	3240	LPDDR5	USF2.2	SD card LDO enabled
2	10200	LPDDR5	USF2.2	Skip SD Card LDO enable
3	18700	LPDDR5	USF2.2	SD card LDO enabled
4	28000	LPDDR5	USF2.2	Skip SD Card LDO enable
5	39200	LPDDR5	UFS3.1	SD card LDO enabled
6	52300	LPDDR5	UFS3.1	Skip SD Card LDO enable
7	68100	LPDDR5	UFS3.1	SD card LDO enabled
8	88700	LPDDR5	UFS3.1	Skip SD Card LDO enable

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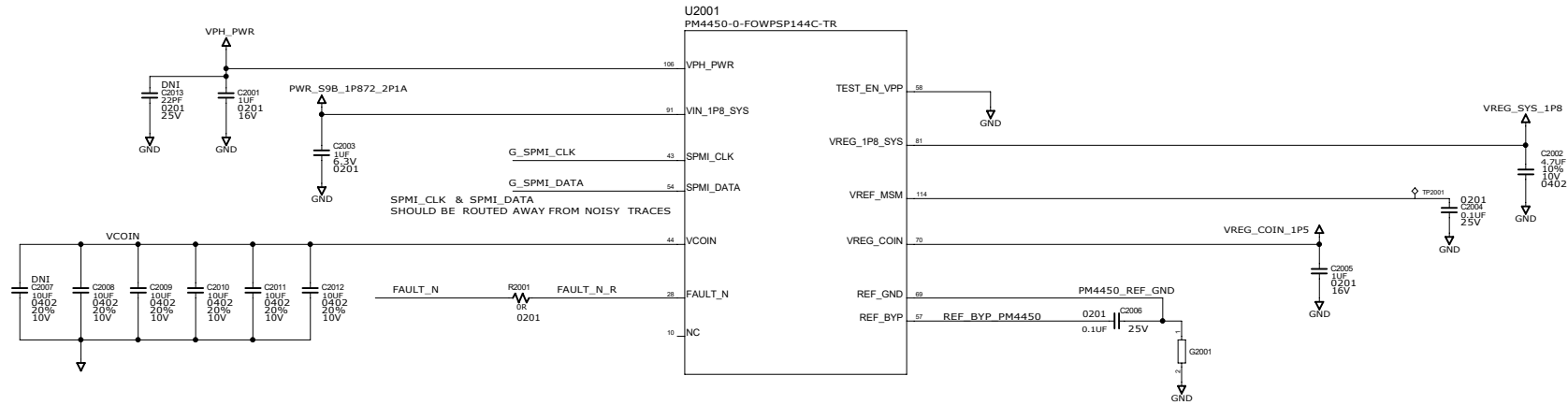
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\$\$\$TITLE_1
PMK4450

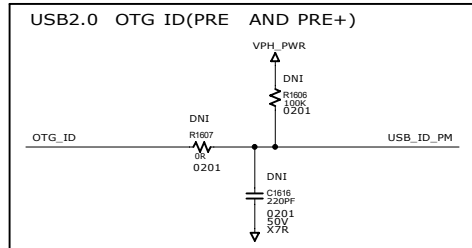
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PM4450:CONTROL/GPIOS/GND

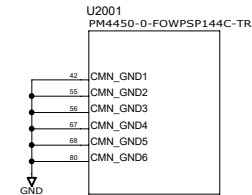
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REV	ZONE	DESCRIPTION	E.C.	BY	DATE
		SEE SHEET 1			



DEDICATED TRACE FROM REF_BYP TO CAP.
DEDICATED TRACE FROM REF_GND TO CAP.
DEDICATED VIA TO MAIN GROUND PLANE RIGHT UNDER PMIC PIN (REF_GND) OR AS CLOSE TO THE PIN AS POSSIBLE.
DO NOT ADD VIA AT CAP.
REF_BYP AND REF_GND SHOULD BE ROUTED AWAY FROM NOISY TRACES



(NOT USED)	PM4450_GPIO_01	32	GPIO_01
	QUIET_THERM	79	GPIO_02
	MSM_THERM	45	GPIO_03
(NOT USED)	PA_THERM2	17	GPIO_04
	CAM_FLASH_THERM	118	GPIO_05
	CONN_EDP_BL_EN	31	GPIO_06
(NOT USED)	PM4450_GPIO_07	30	GPIO_07
	USB0_TYPEC_EN_SW	135	GPIO_08
	USB_ID_PM	39	GPIO_09



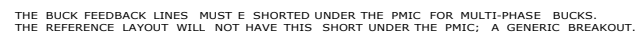
NOTE : FOR LAYOUT GUIDELINES , SEE PM4450 POWER MANAGEMENTIC DESIGN GUIDELINES/TRAINING SLIDES : 80-36266-5

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SSTI_TITLE_1		
PM4450:CONTROL/GPIOS/GND		
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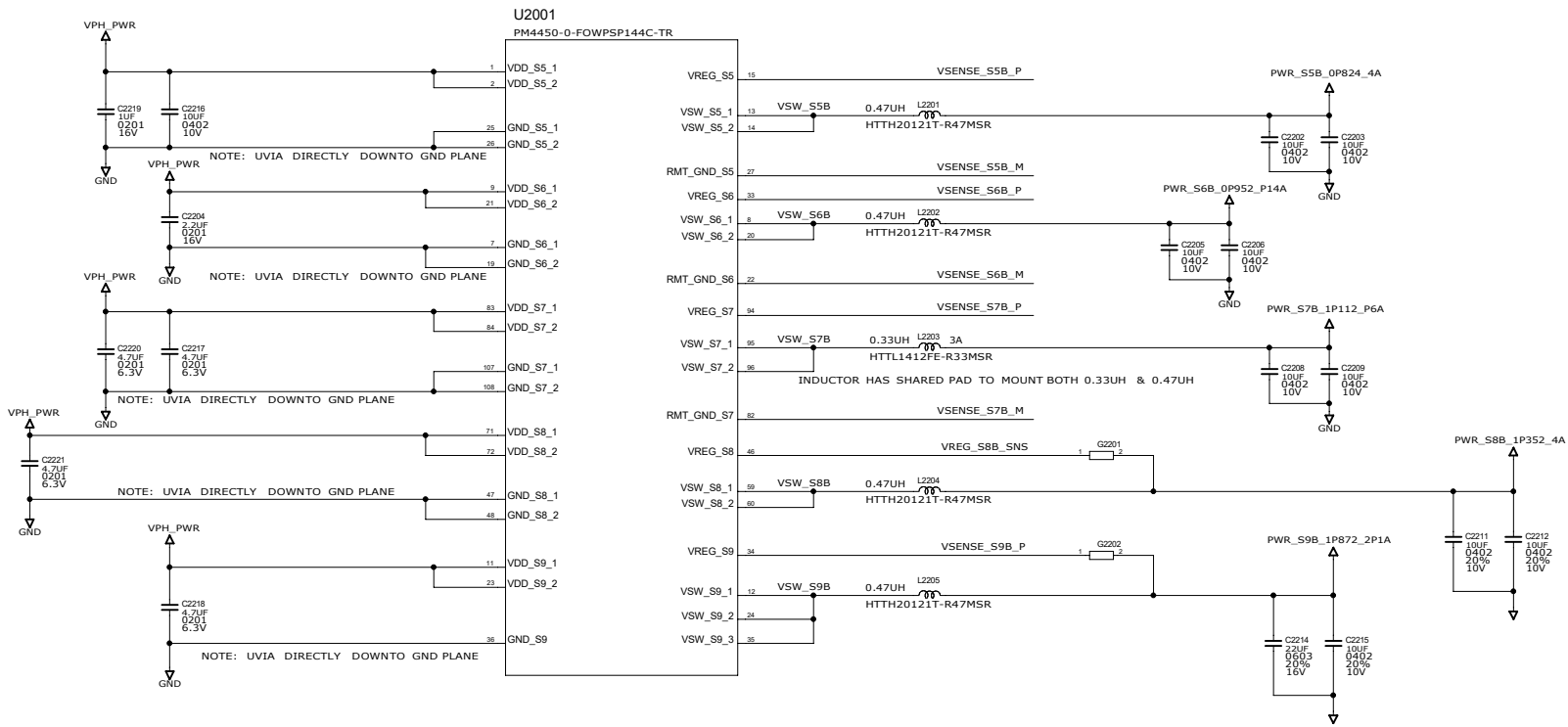
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PM4450:SMPS5-9/VREG S5B-S9B

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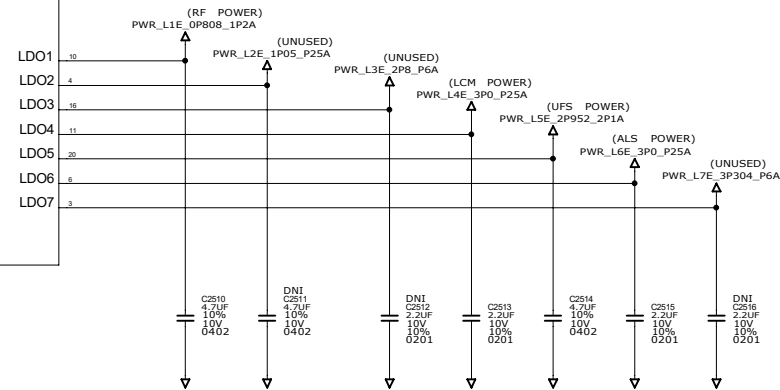
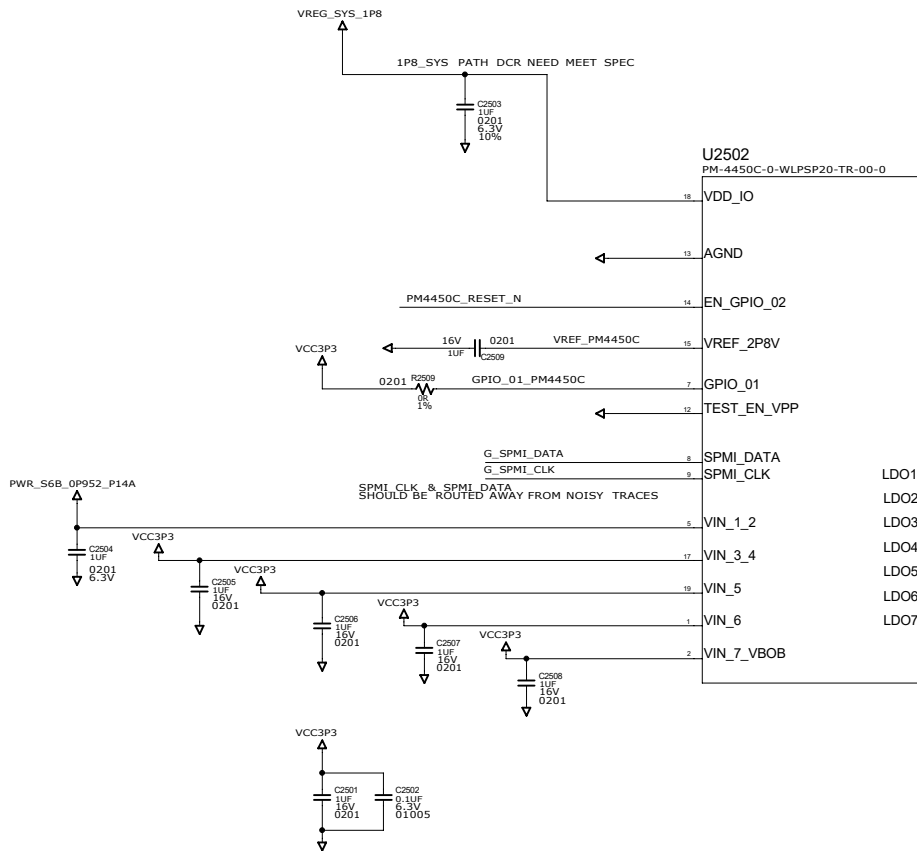
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HOLTSVILLE, NEW YORK 11742			
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PM4450C CORE PMIC

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

Regulator	Circuit type	I _{rated} (mA)	Specified/ programmable range (V)	Expected use
L1	Linear NMOS LDO	1200	0.528 to 1.504	SDR VDDCX
L2	Linear NMOS LDO	1200	0.528 to 1.504	Unused
L3	Linear PMOS LDO	300	1.808 to 3.312	VDD
L4	Linear PMOS LDO	300	1.808 to 3.312	Touch_AVDD
L5	Linear PMOS LDO	600	1.2, 1.504 to 3.544 ^a	FS VCC/eMMC VCC
L6	Linear PMOS LDO	300	1.808 to 3.312	VLED
L7	Linear PMOS LDO	600	1.2, 1.504 to 3.544 ^b	WCN 3P3

^a To configure L5 to 1.2 V, set register 0x4454 bit 1 to 1
^b To configure L7 to 1.2 V, set register 0x4654 bit 1 to 1



CAD NOTE: PLACE THESE CAPACITORS CLOSE TO PMIC, DIRECTLY CONNECTED ON THE POWER PATH, NOT WITH SKINNY TRACE.

NOTE : FOR LAYOUT GUIDELINES , SEE PM4450C POWER MANAGEMENTIC DESIGN GUIDELINES/TRAINING SLIDES : 80-48924-5

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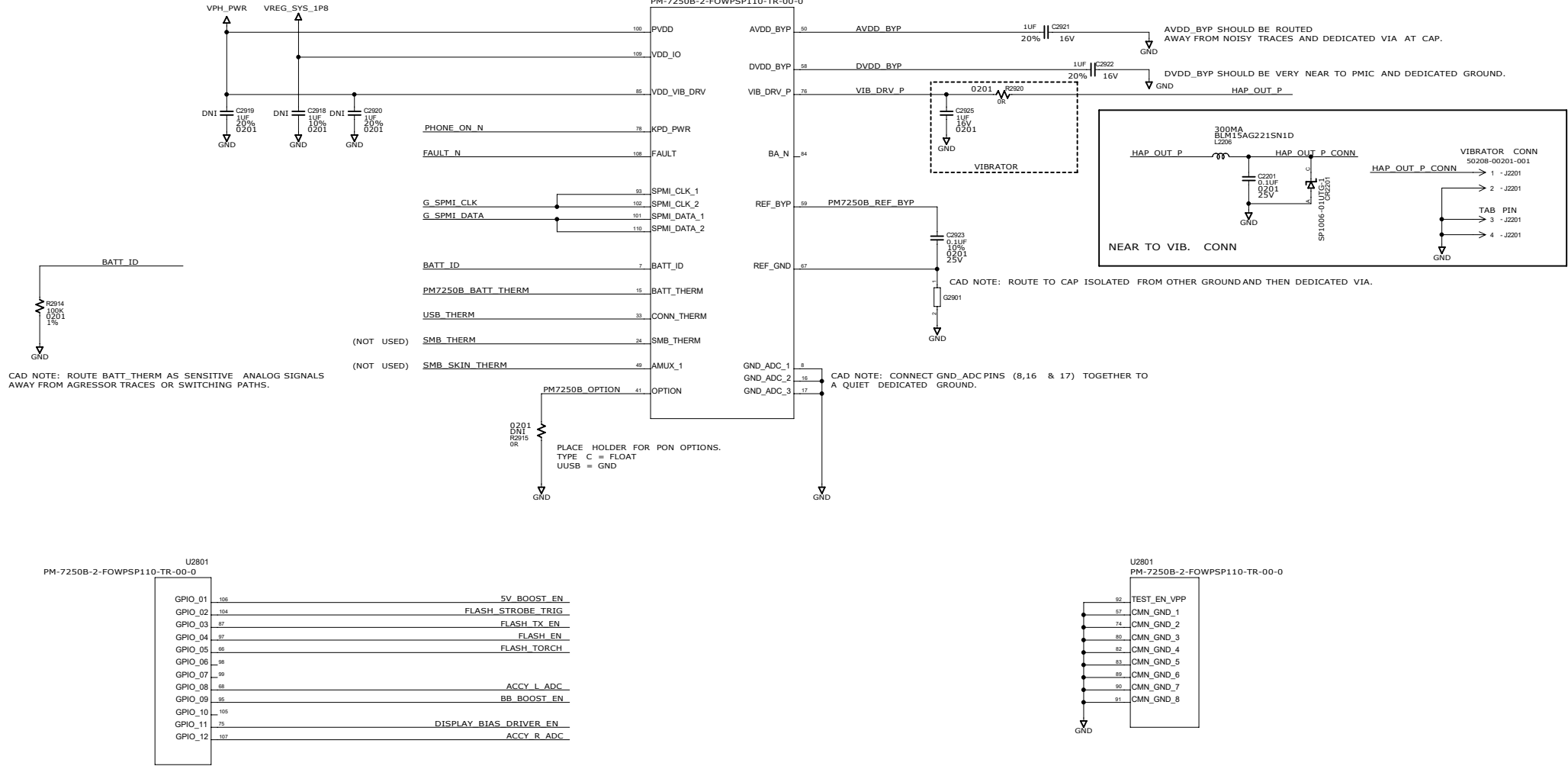
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PM4450C CORE PMIC

SIZE	DWG NO.	REV
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PM7250B-2:HK/GPIOS/HAPTICS

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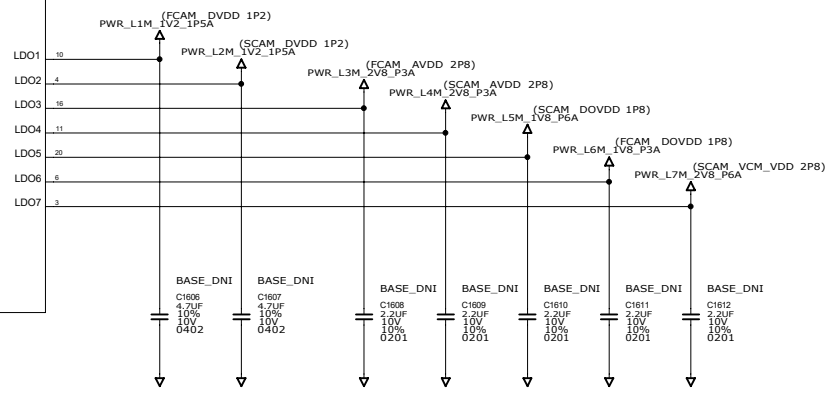
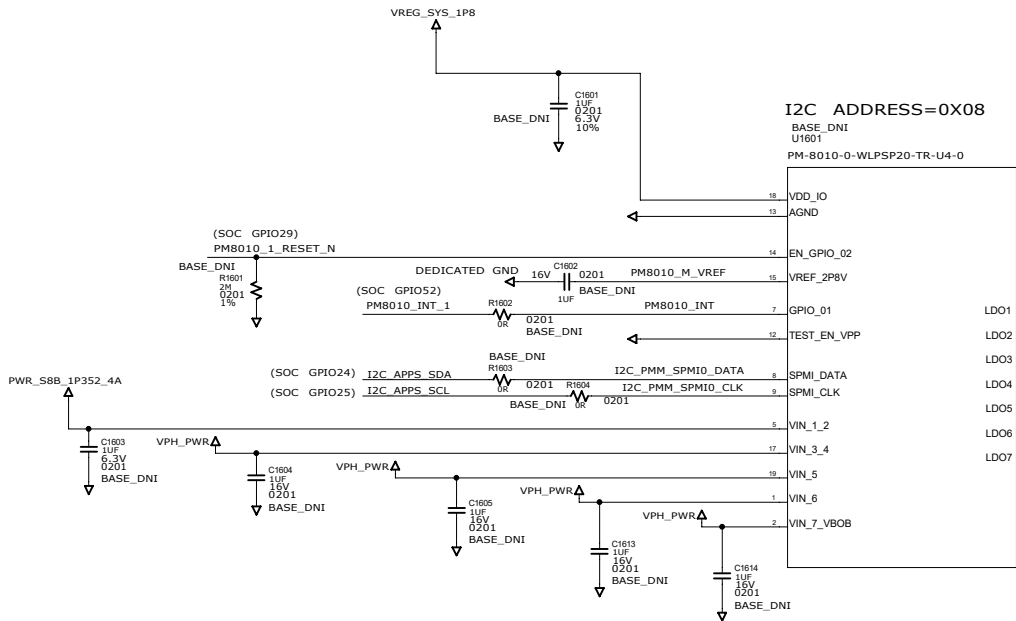


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PM7250B-2:HK/GPIOS/HAPTICS			
SIZE	DWG NO.	REV	SSTI_REV
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PM8010 CAMERA POWER

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

Regulator	Circuit type	I _{rated} (mA)	Specified/ programmable range (V)	Expected use
L1	Linear NMOS LDO	1500	0.528 to 1.504	Sensor DVDD
L2	Linear NMOS LDO	1500	0.528 to 1.504	Sensor DVDD
L3	Linear PMOS LDO	300	1.808 to 3.312	All are fully programmable and can be used for AVDD, AF, IO, and OIS
L4	Linear PMOS LDO	300	1.808 to 3.312	All are fully programmable and can be used for AVDD, AF, IO, and OIS
L5	Linear PMOS LDO	600	1.2, 1.504 to 3.544 ¹	All are fully programmable and can be used for AVDD, AF, IO, and OIS
L6	Linear PMOS LDO	300	1.808 to 3.312	All are fully programmable and can be used for AVDD, AF, IO, and OIS
L7	Linear PMOS LDO	600	1.2, 1.504 to 3.544 ²	All are fully programmable and can be used for AVDD, AF, IO, and OIS



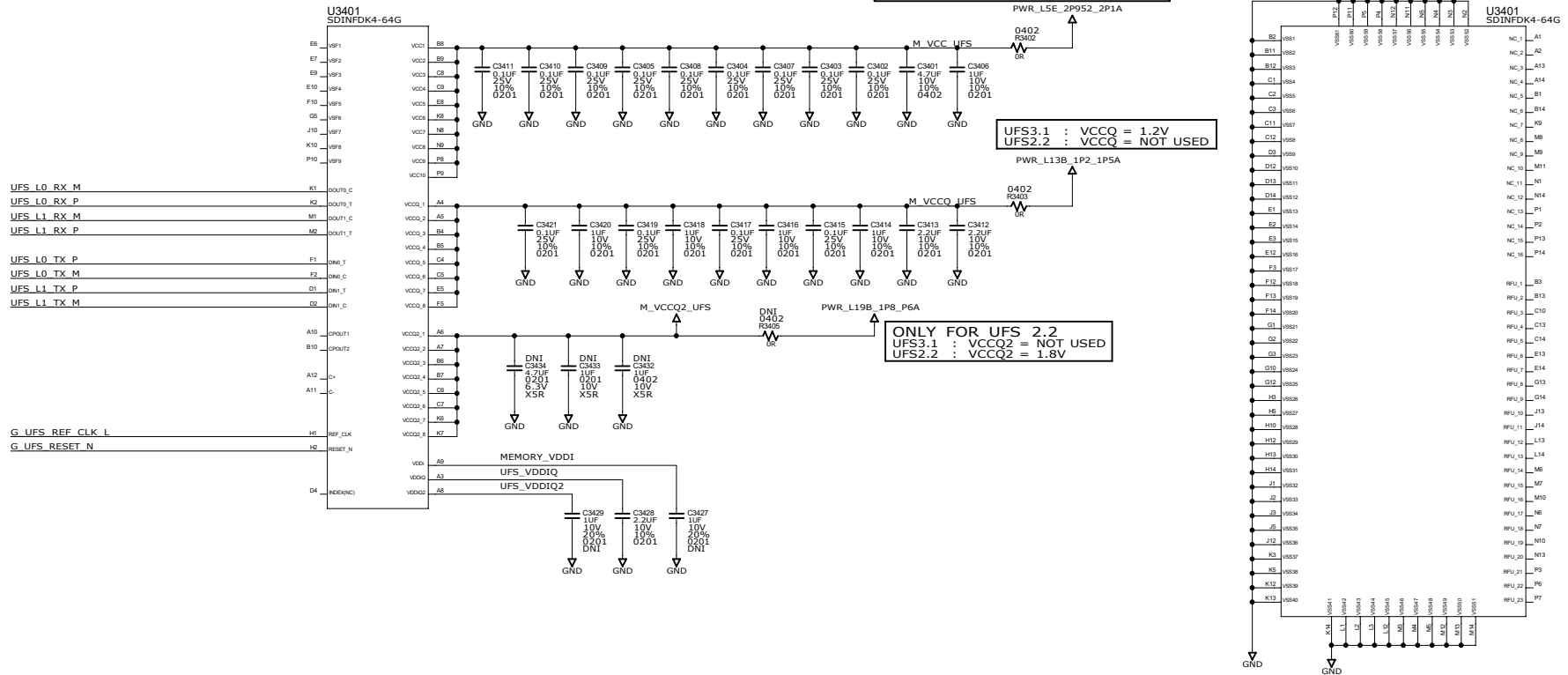
LOCAL CAPACITORS

CAD NOTE: PLACE THESE CAPACITORS CLOSE TO PM8010, DIRECTLY CONNECTED ON THE POWER PATH, NOT WITH SKINNY TRACE.
NOTE : FOR LAYOUT GUIDELINES , SEE PM8010 POWER MANAGEMENTIC DESIGN GUIDELINES/TRAINING SLIDES :80-18582-5

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SSTI_TITLE_1		
PM8010 CAMERA POWER		
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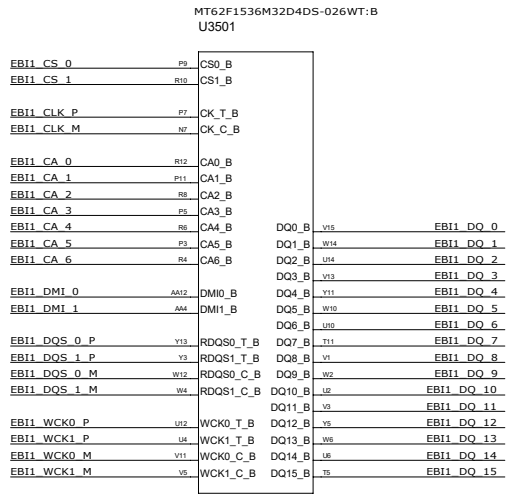
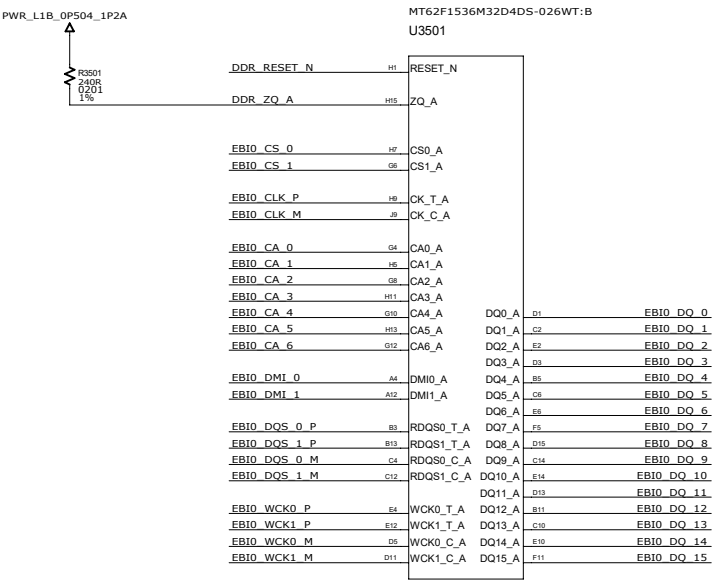
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\$CON_LAST_MODIFIED	\$CON_ID	\$CON_TOTAL_PAGES
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MEMORY:LPDDR5

REV		ZONE	REVISIONS		DESCRIPTION		E.C.	BY	APVD	DATE
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HOLTSVILLE, NEW YORK 11742

\$\$STI_TITLE_1
MEMORY:LPDDR5

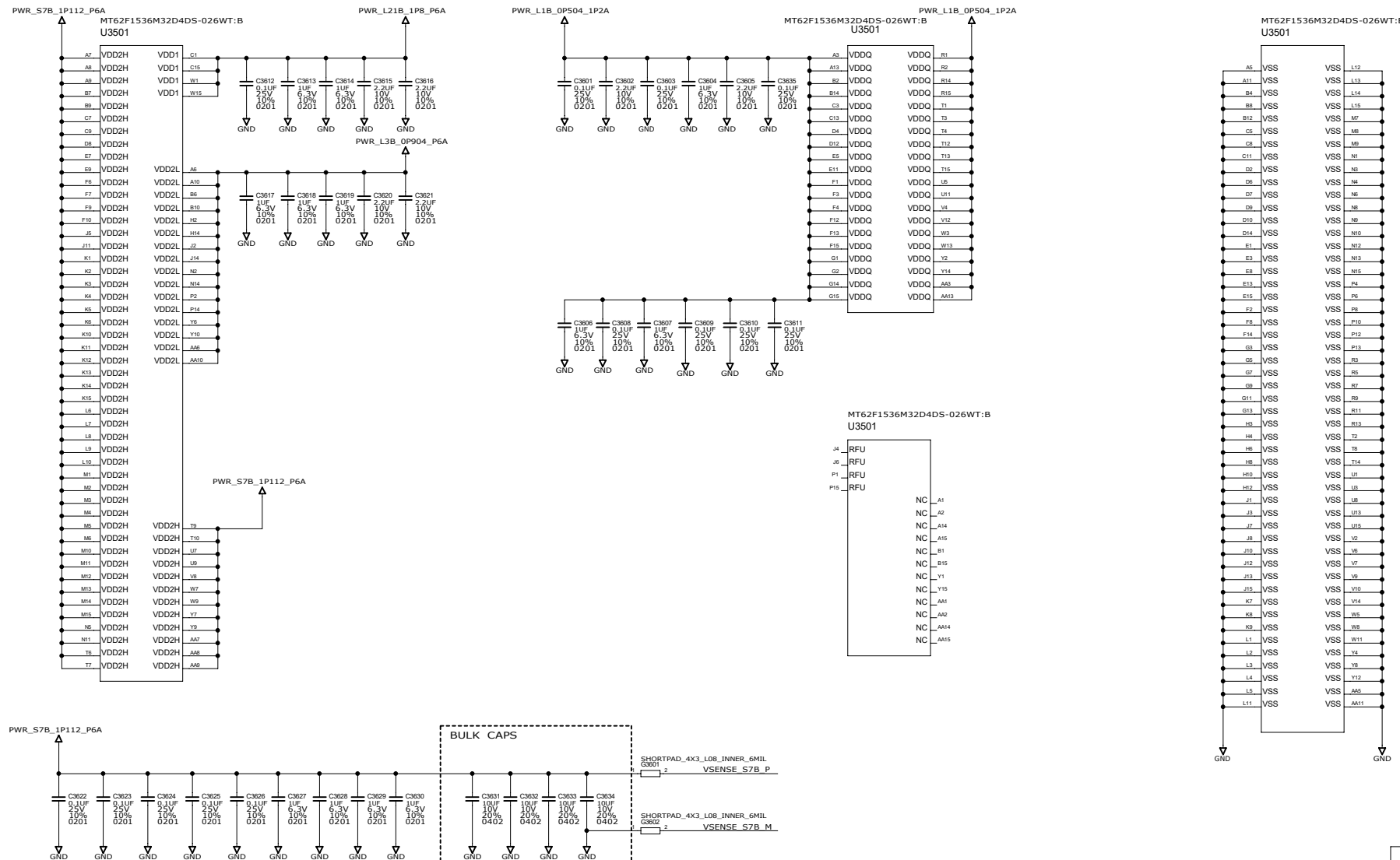
SIZE	DWG NO.	REV
D	\$\$STI_DRAWING_NO	\$\$STI_REV

SCN_LAST_MODIFIED

SCN_LAST_MODIFIED

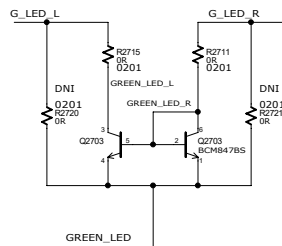
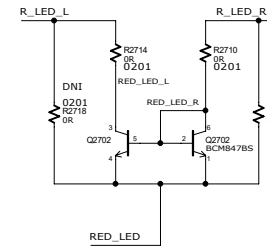
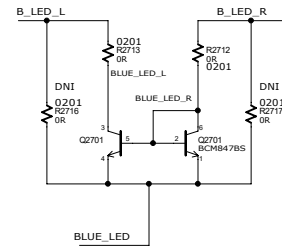
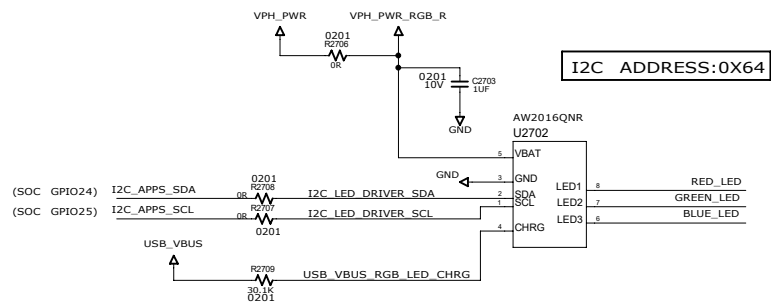
MEMORY:LPDDR5 POWER/GND

REVISIONS					
REV	ZONE	DESCRIPTION	E.C.	BY	DATE
		SEE SHEET 1			

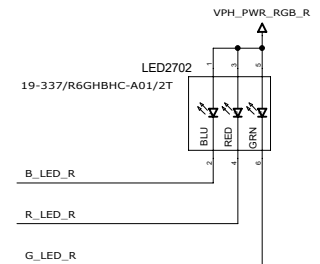
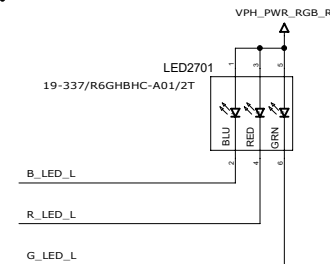


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HOLTSVILLE, NEW YORK 11742			
SSTI_TITLE_1			
MEMORY:LPDDR5 POWER/GND			
SIZE	DWG NO	REV	SSTI_REV
D	SSTI_DRAWING_NO		
SCN_LAST_MODIFIED		SCN_MODIFIED_PAGES	

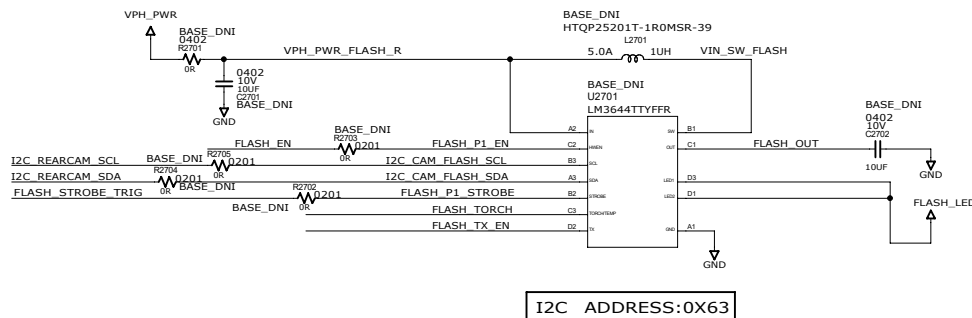
INDICATOR LEDS:RGB DRIVER



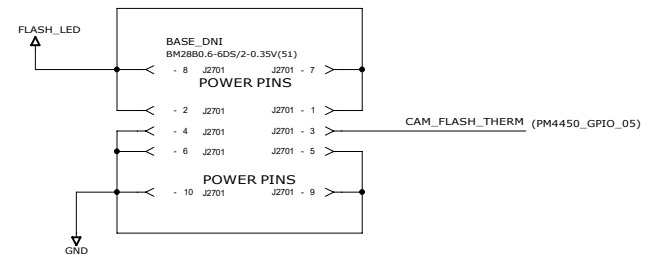
RGB LED



FLASH LED DRIVER



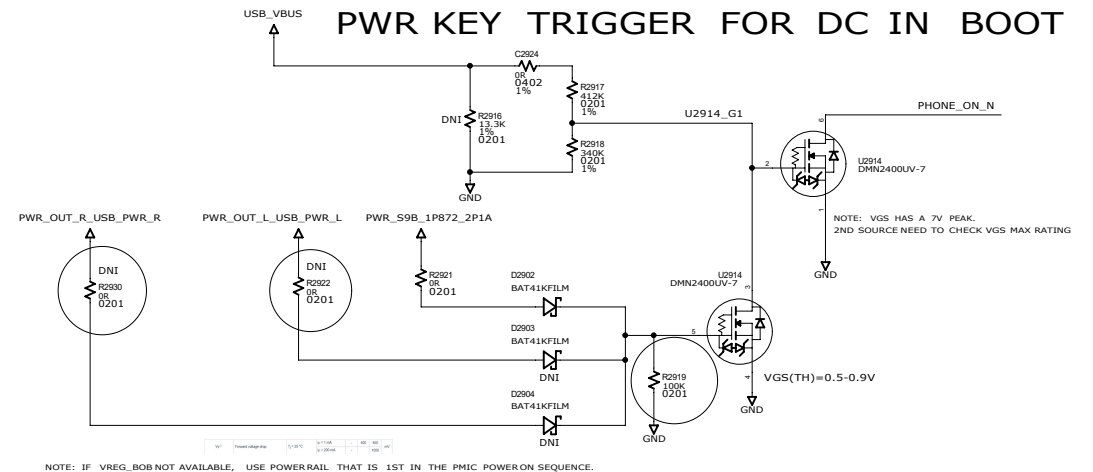
FLASH CONNECTOR



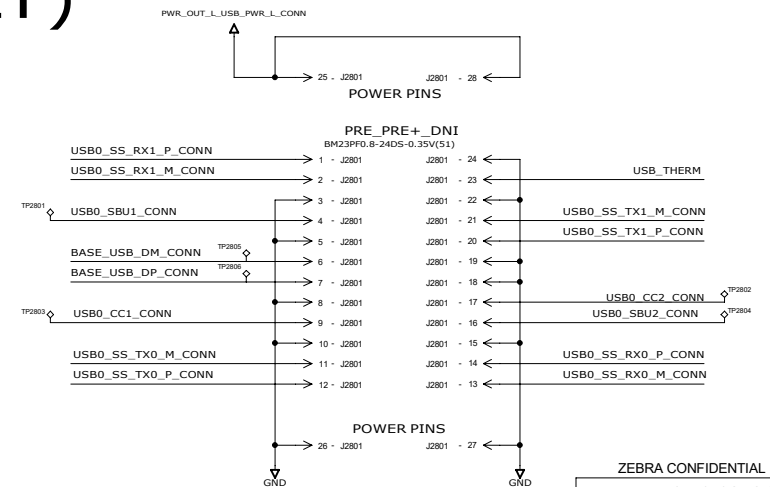
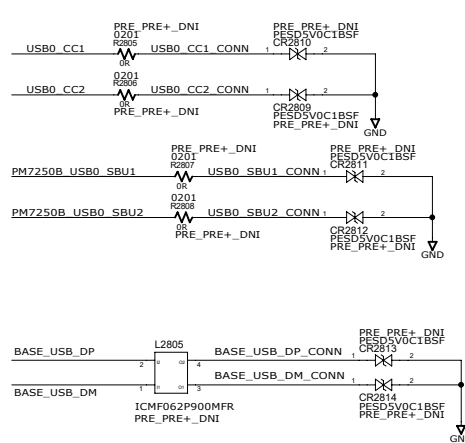
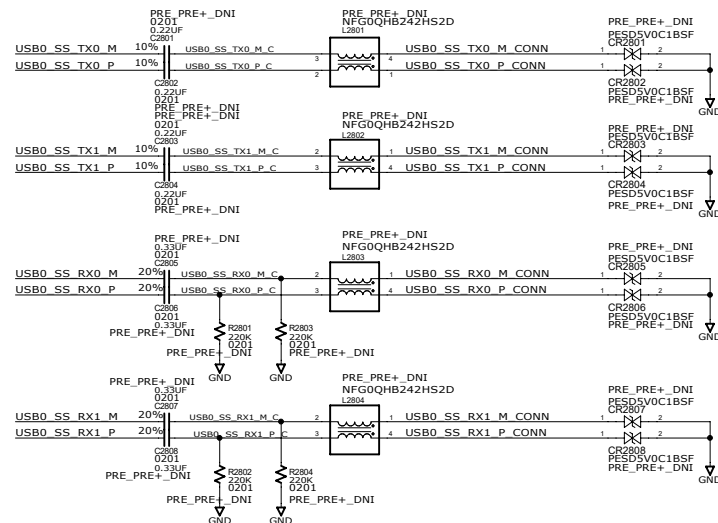
USB OTG PWR SWITCH

HW WORKAROUND TO PREVENT DC_IN_BOOT_UP ISSUE ON PM7250B

MOVE PWR SWITCH NEAR THE RUGGED CONNECTORS



USB SS, CCX, SUBX (BASE ONLY)

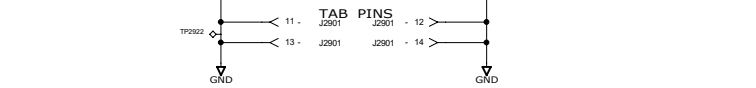
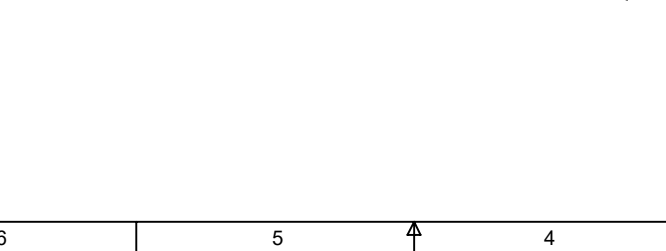
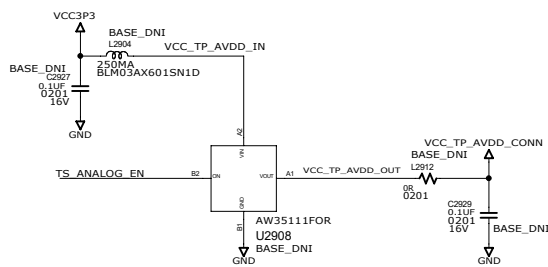
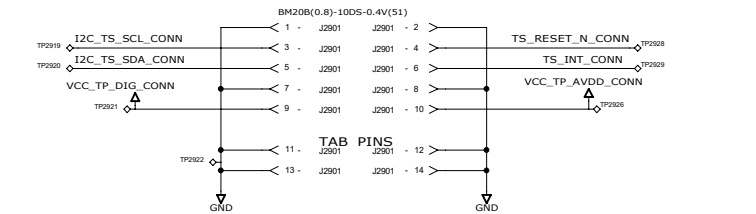
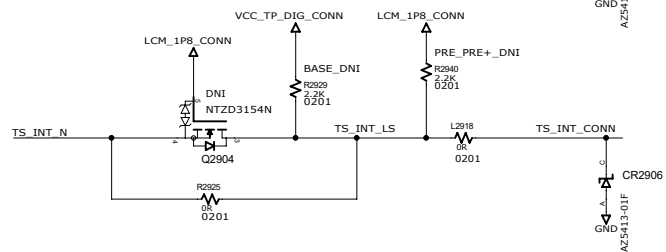
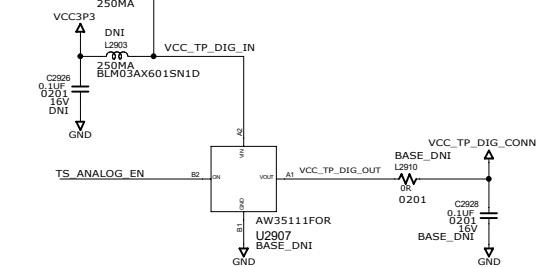
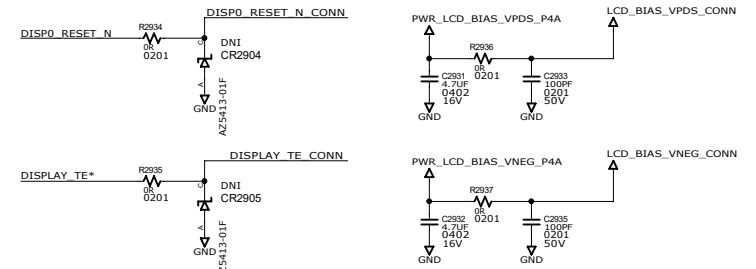
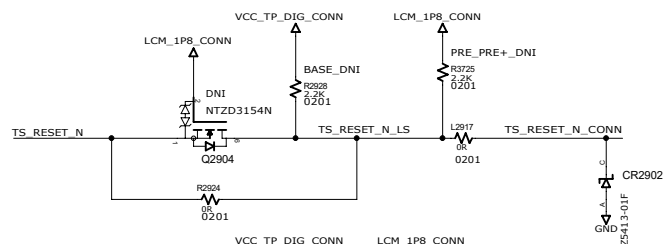
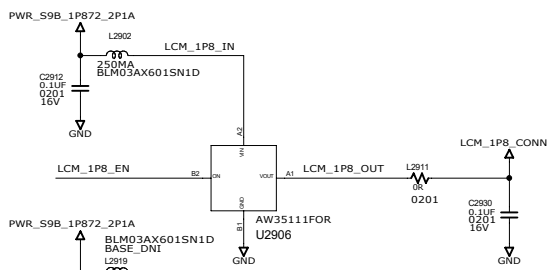
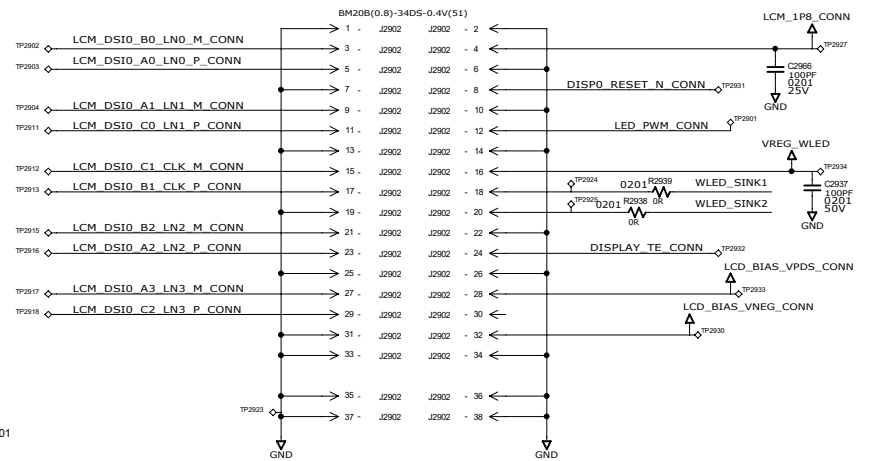
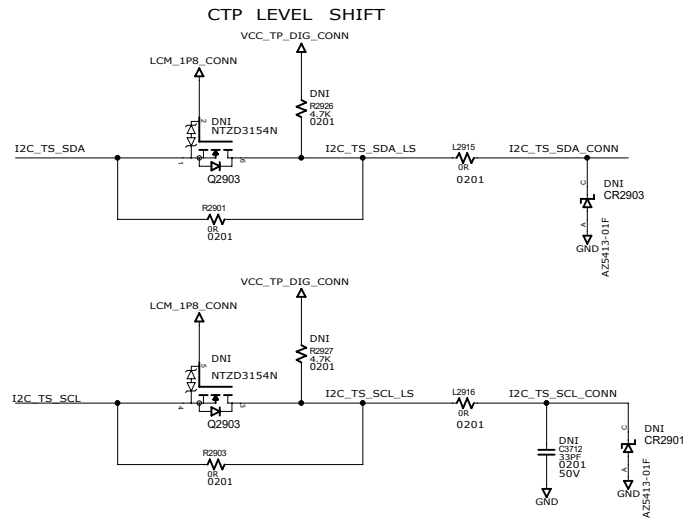
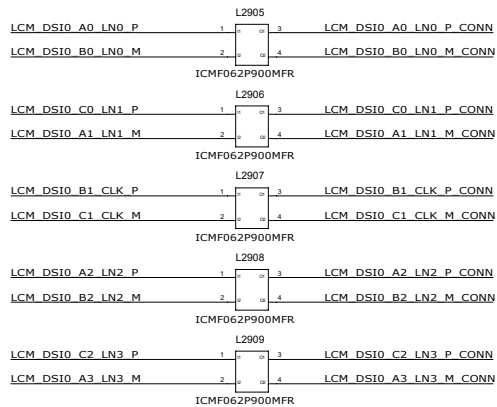


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SSTI_TITLE_1			
USB OTG PWR,SS,CC,SUB/DC BOOT UP			
SIZE	DWG NO.	SSTI_DRAWING_NO	REV.
D			
SCON_LAST_MODIFIED		SCON_MODIFIED_PAGES	

8	7	6	5	4
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DISPLAY AND CTP CONNECTOR

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



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HOLTSVILLE, NEW YORK 11742

\$STI_TITLE_1
DISPLAY AND CTP CONN.

DWG. NO.	\$STI_DRAWING_NO	REV	\$STI_REV
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ON_LAST_MODIFIED	SCORE	IDENT	TOTAL_PAGES
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REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

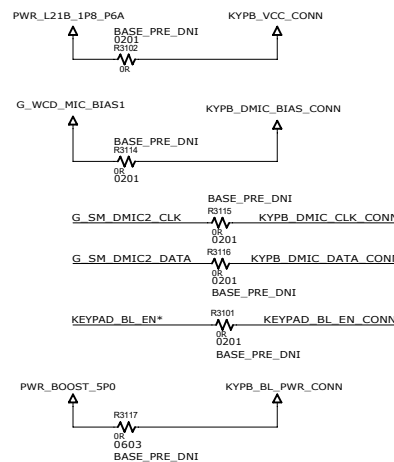
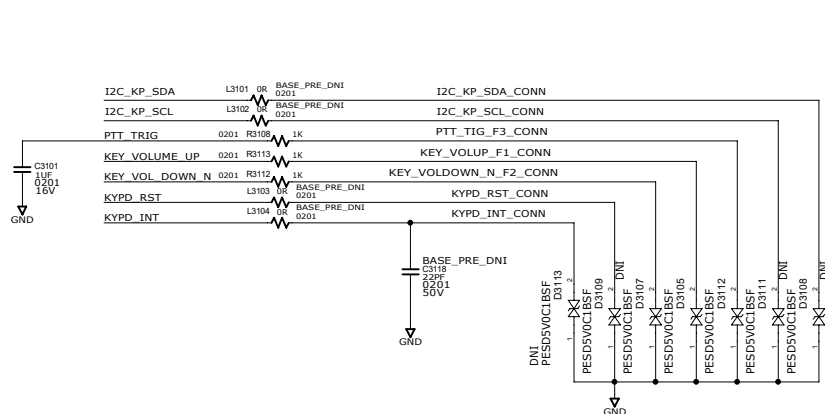
[illegible][illegible]

\$\$STI_TITLE_1 DSLY DRIVER & BIAS DRIVER		
SIZE D	DWG. NO. \$\$STI_DRAWING_NO	REV \$\$STI_REV
\$CON_LAST_MODIFIED		\$CON_NEXT_TO_PAGES

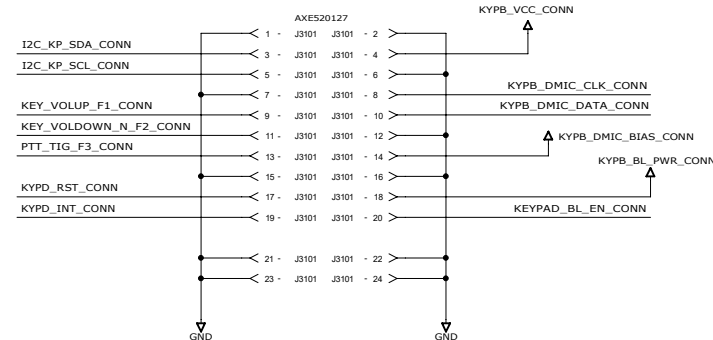
\$CON_LAST_MODIFIED	\$CON_HIERARCHY	\$CON_TOTAL_PAGES
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KEYPAD CONNECTOR(PRE+_ONLY)

REV				REVISIONS				E.C.				BY				DATE			
SEE SHEET 1				DESCRIPTION															

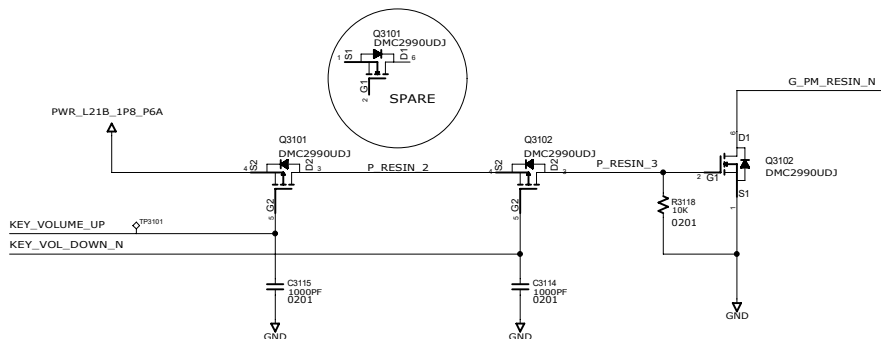


KEYPAD CONNECTOR



3-KEY HW RESET

UP/DOWN+POWERKEY RESET



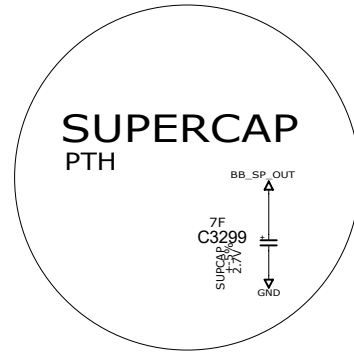
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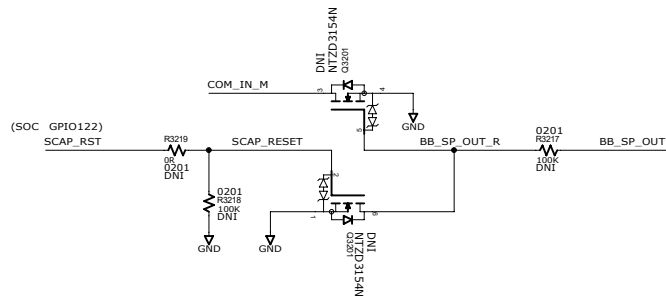
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KEYPAD CONN./3-KEY RESET			
SIZE	DWG NO.	REV	\$STI_REV
D	\$STI_DRAWING_NO		
SCN_LAST_MODIFIED		SCN_LAST_MODIFIED	

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

SUPERCAP
PTH



The schematic diagram illustrates the BB Boost and Charge Pump circuit. It features an AND gate (U301) that combines the BB_BOOST_EN and BATT_PRESENCE signals to drive the EN pin of the SN74LVC1G08DPWR (U301). The output of the AND gate is connected to the EN pin of the U302 (AP2112K-2.6TRG1) charge pump. The charge pump's input is connected to VPH_PWR through a 0.402 Ohm resistor (R3201). The output of the charge pump is connected to the BB_CHR_OUT pin, which is also connected to the BB_CHR_IN pin through a 0.402 Ohm resistor (R3202). The output is filtered by a 2.512 Ohm resistor (R3205) and a 100nF capacitor (C3203). The output voltage is VOUT=2.6V.



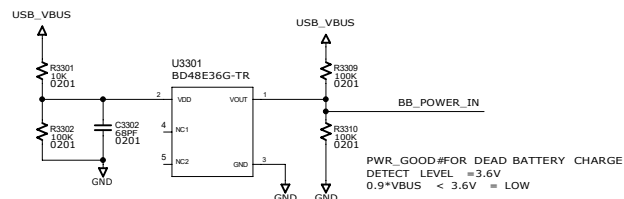
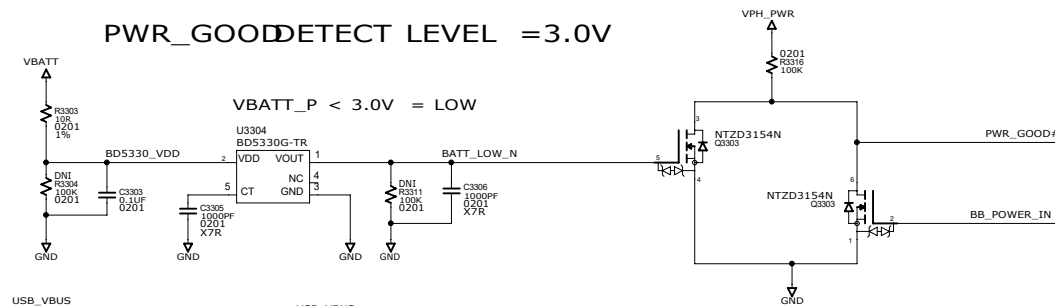
	MIN	TYP	MAX
FB(VREF)	0.585	0.600	0.615
R1	267.30	270	272.7
R2	64.251	64.9	65.549
VOUT	3.018	3.096	3.173

\$\$TI_TITLE_1 SUPERCAP CHARGE/DISCHARGE		
SIZE D	DWG. NO \$\$TI_DRAWING_NO	REV \$\$TI_REV
SCON_LAST_MODIFIED		SCON_PLOTTED_TOTAL_PAGES

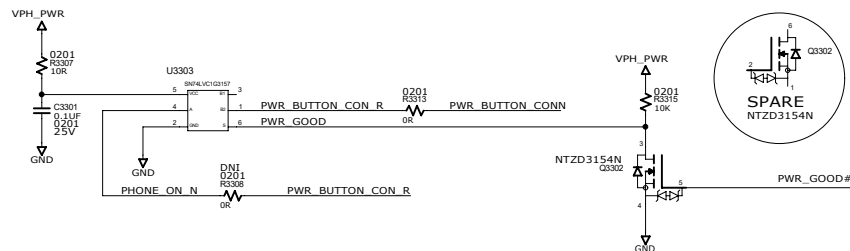
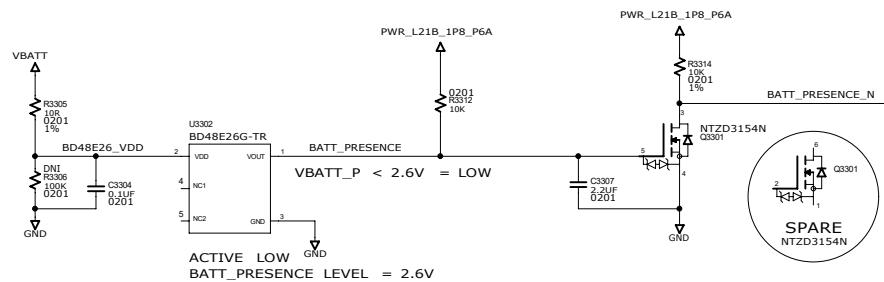
BATTERY MONITORING/PWR BUTTON BLOCK

REV		ZONE	REVISIONS	DESCRIPTION	E.C.	BY	APVD.	DATE
			1	SEE SHEET 1				

PWR_GOOD DETECT LEVEL = 3.0V



BATT PRESENSE DETECT FOR 2.6V



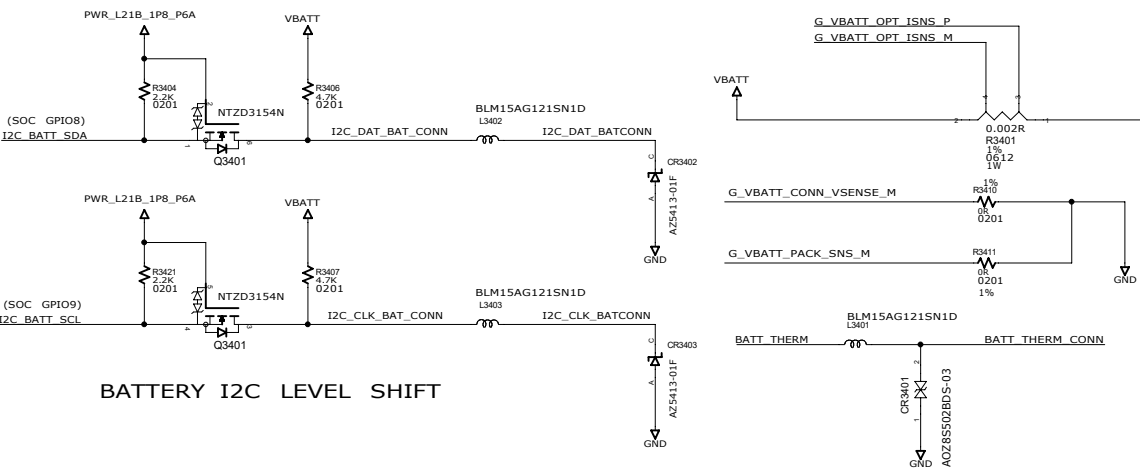
BATTERY VOLTAGE DETECTION

BATT_LOW_N	USB_IN_MID	PWR_GOOD#	BATT_CONN_SNS_P
1	0	0	VBATT_P
0	1	0	VBATT_P
1	0	0	VBATT_P
0	0	1	VPH_PWR

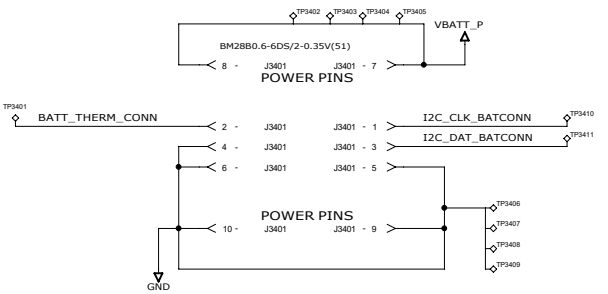
ZEBRA CONFIDENTIAL			
ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
\$STI_TITLE_1			
BATTERY MONITORING & PWR BUTTON BLOCK			
SIZE	DWG NO.	REV	
D	\$STI_DRAWING_NO	\$STI_REV	
SCN_LAST_MODIFIED	SCN_REVISIONS/REVISIONS		

BATTERY CONNECTOR

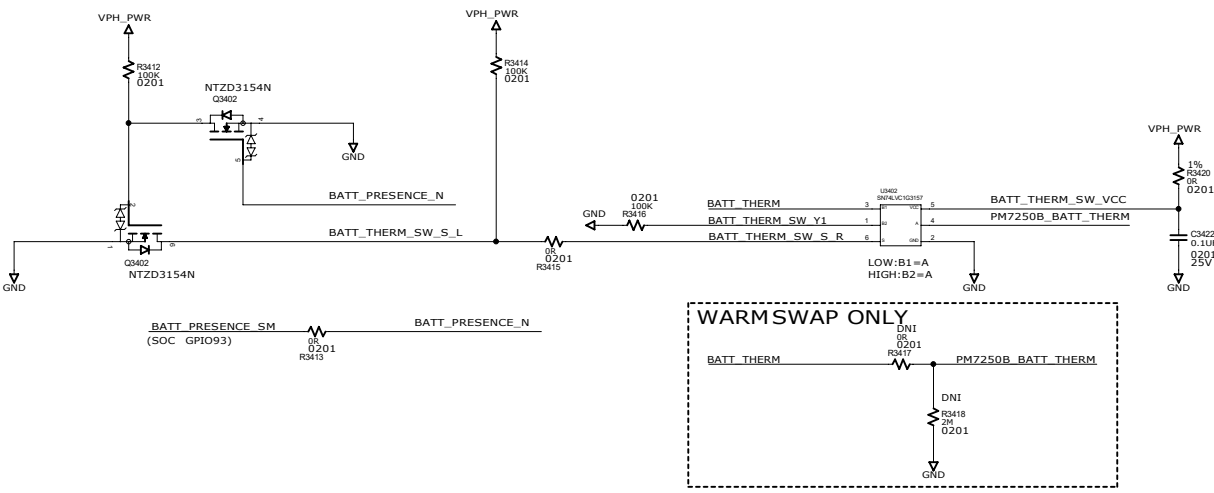
REVISIONS							
REV	ZONE	DESCRIPTION	E.C.	BY	APVD	DATE	
		SEE SHEET 1					



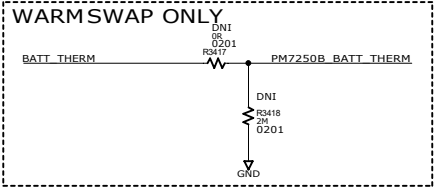
BATTERY CONNECTOR



BATTERY THERM DETECTION



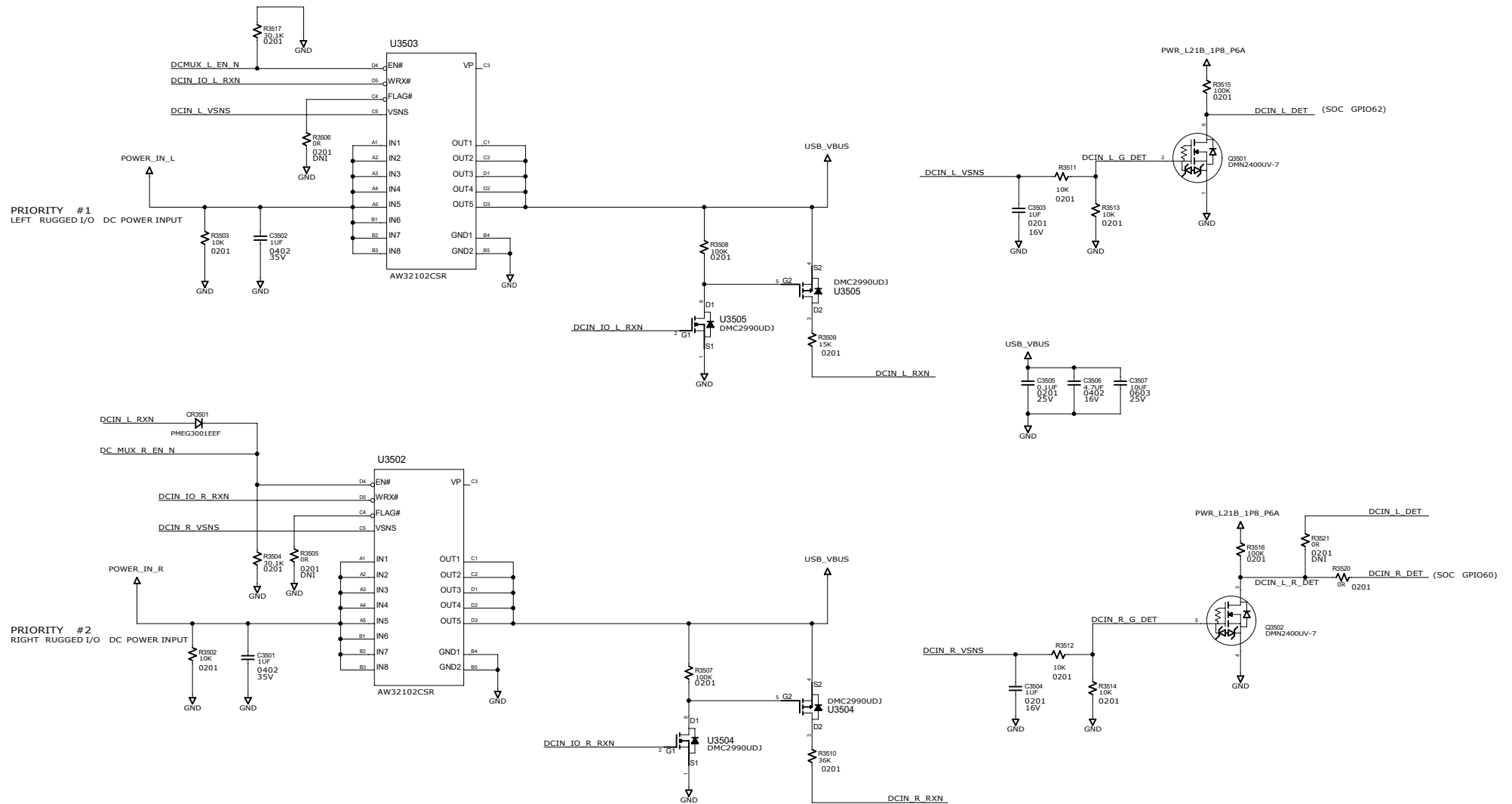
VBATT	BATT_PRESNECE_N	Z	SYSTEM STATUS
PRESENT > 2.6V	LOW(0)	Y0	BATTERY NTC
ABSENT < 2.6V	HIGH(1)	Y1	RESISTANCE 100KOHM



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SSTI_TITLE_1			
BATTERY_CONN.&THERM_DET			
SIZE	DWG. NO.	REV.	SSTI_REV
D	SSTI_DRAWING_NO		
SCN_LAST_MODIFIED		SCN_LAST_MODIFIED	

POWER MUX/DC POWER INPUT

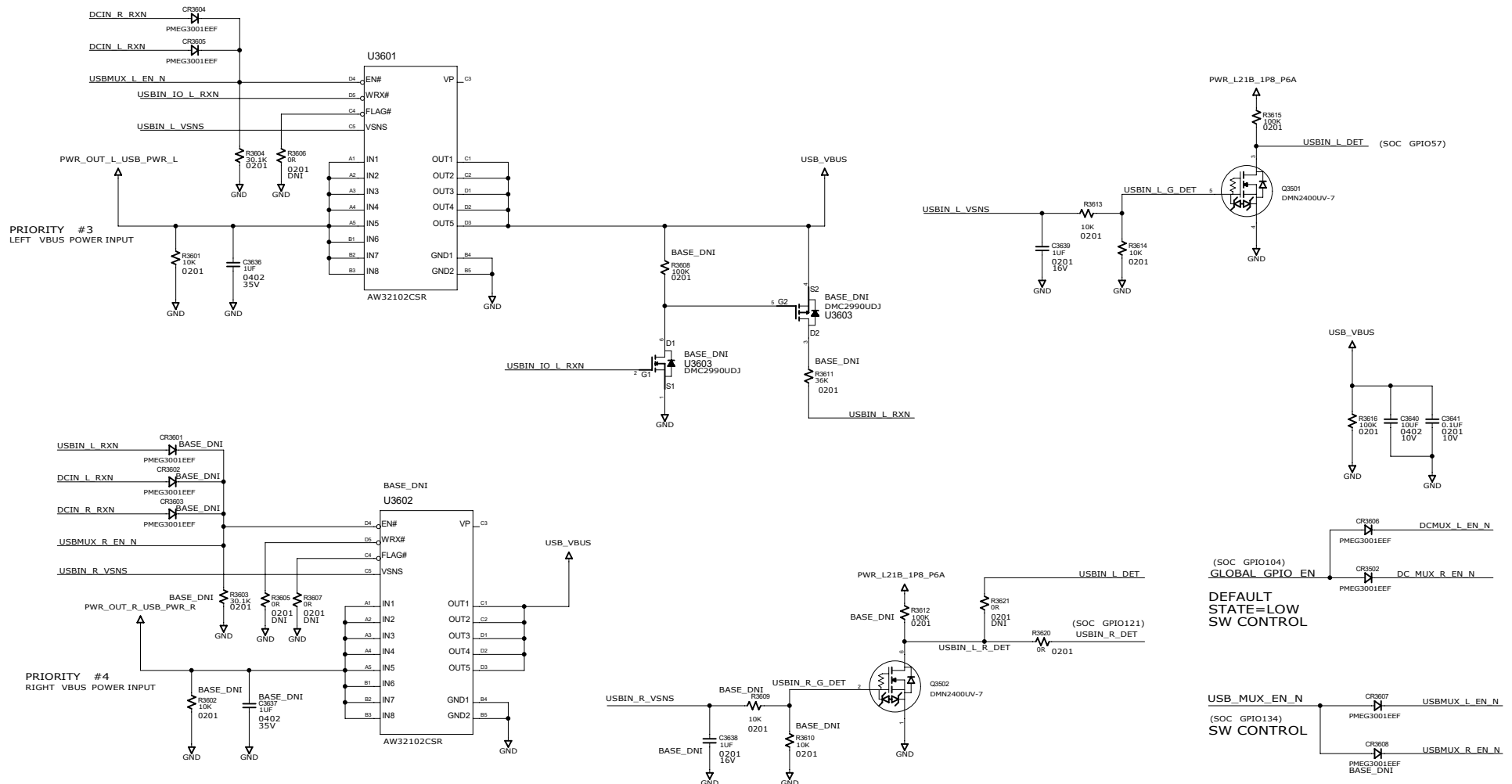
REVISIONS					
REV	ZONE	DESCRIPTION	E.C.	BY	DATE
1		SEE SHEET 1			



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ZEBRA TECHNOLOGIES CORP.		
HOLTSVILLE, NEW YORK 11742		
SSTI_TITLE_1		
POWER MUX/DC POWER INPUT		
SIZE	DWG NO.	REV
D	SSTI_DRAWING_NO	SSTI_REV
SCN_LAST_MODIFIED		SCN_MODIFIED

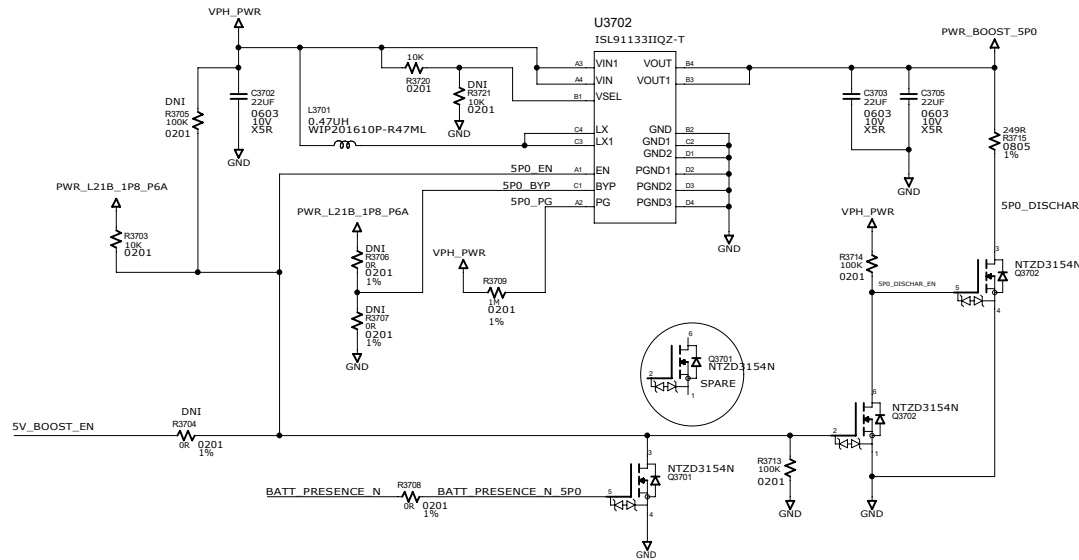
POWER MUX/USB POWER INPUT

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

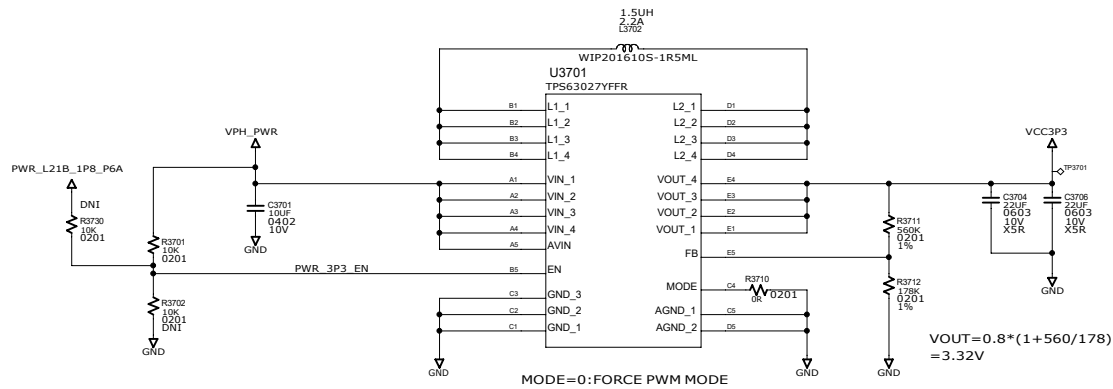


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ZEBRA TECHNOLOGIES CORP.		
HOLTSVILLE, NEW YORK 11742		
SSTI_TITLE_1		
POWER MUX/USB POWER INPUT		
SIZE	DWG NO.	REV
D	SSTI_DRAWING_NO	SSTI_REV
SCN_LAST_MODIFIED		SCN_MODIFIED_PAGES

BOOST POWER 5P2



BUCK/BOOST POWER 3P3



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ZEBRA TECHNOLOGIES CORP.		
HOLTSVILLE, NEW YORK 11742		
SSTI_TITLE_1		
BOOST 5P2 & BUCK/BOOST 3P3		
SIZE	DWG NO.	REV.
D	SSTI_DRAWING_NO	SSTI_REV
SCN_LAST_MODIFIED		SCN_CREATED/INITIAL/PAGES

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



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\$STI TITLE 1

AUDIO CODEC WCD9370

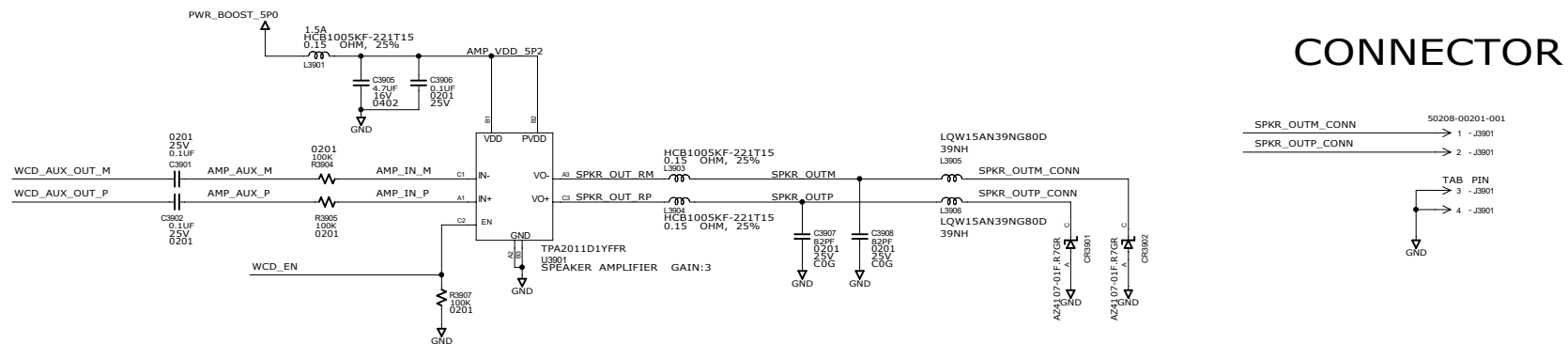
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D	\$STI_DRAWING_NO	\$STI_REV
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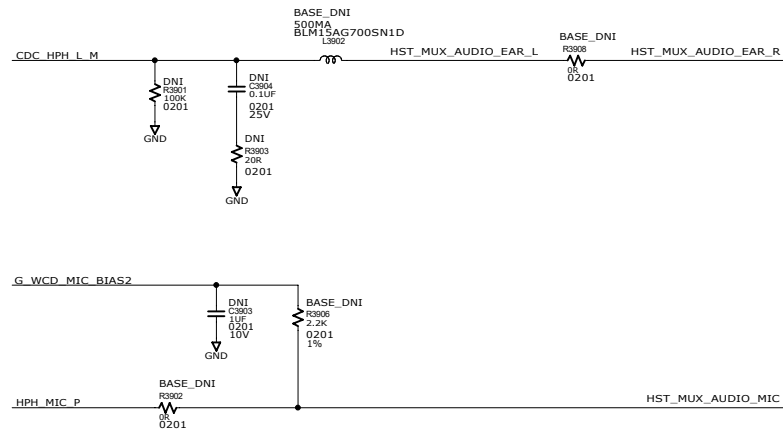
\$CON_LAST_MODIFIED	\$CON_ID	\$CON_TOTAL_PAGES
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CLASS D AMP AND SPK CONN.

REV		ZONE	REVISIONS		DESCRIPTION	E.C.	BY	APVD	DATE
					SEE SHEET 1				



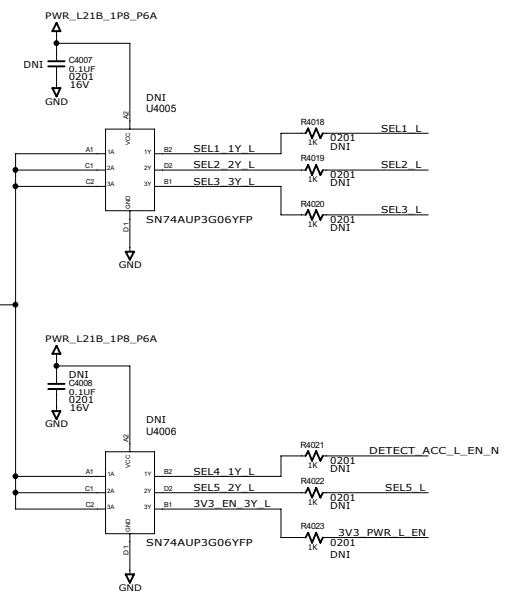
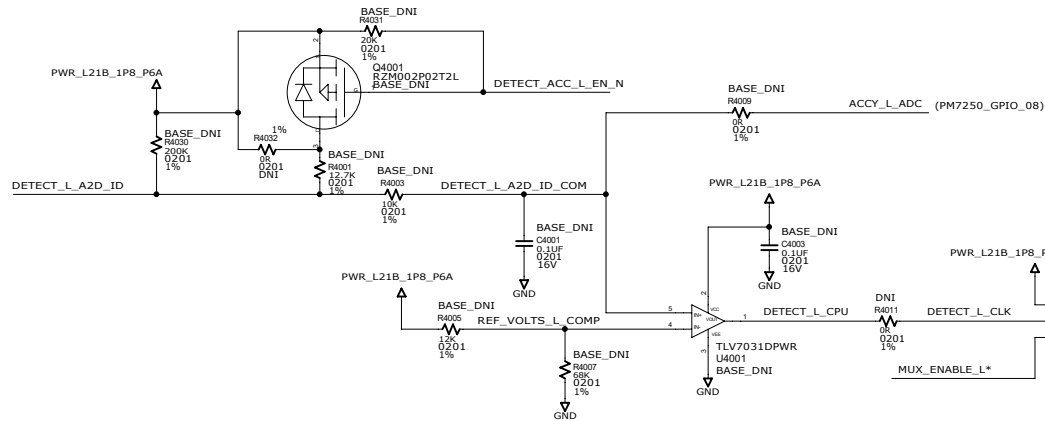
AUDIO HEADSET



ZEBRA CONFIDENTIAL			
ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
SSTI_TITLE_1			
D AMP,SPK CONN.,AUDIO HEADSET			
SIZE	DWG NO.	REV	
D	SSTI_DRAWING_NO	SSTI_REV	
SCN_LAST_MODIFIED		SCN_LAST_MODIFIED	

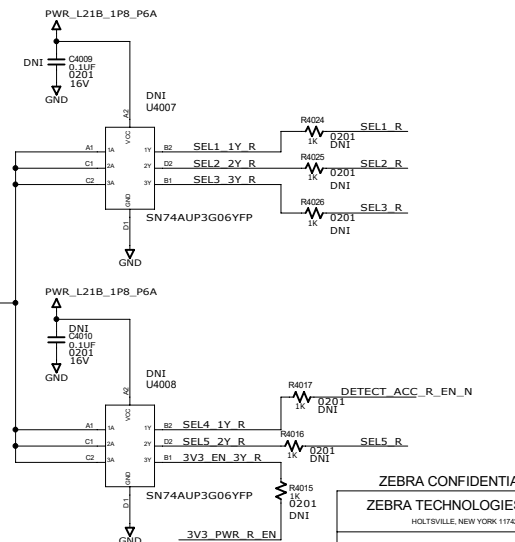
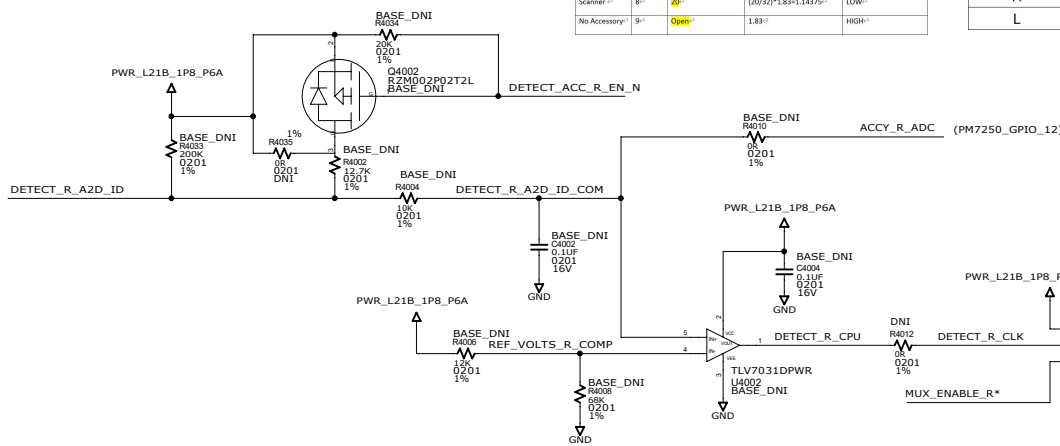
I/O CONN. CONTROL

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



Accessory ¹⁾	ID ²⁾	Pull Down Value (RQ) ³⁾	Ideal Voltage on VIN ⁴⁾	Comparator OUT ⁵⁾
Cradle ¹⁾	0 ²⁾	Short ³⁾	0 ⁴⁾	LOW ⁵⁾
Debug Cable ¹⁾	1 ²⁾	0.4k ³⁾	(0.47/12.47)*1.83=0.0689 ⁴⁾	LOW ⁵⁾
Vibrator ¹⁾	6 ²⁾	8.2 ³⁾	(8.2/20)*1.83=0.74287 ⁴⁾	LOW ⁵⁾
Headset ¹⁾	7 ²⁾	13 ³⁾	(13/25)*1.83=0.9516 ⁴⁾	LOW ⁵⁾
Scanner ¹⁾	8 ²⁾	30 ³⁾	(20/32)*1.83=1.14375 ⁴⁾	LOW ⁵⁾
No Accessory ¹⁾	9 ²⁾	Open ³⁾	1.83 ⁴⁾	HIGH ⁵⁾

INPUTS			OUTPUT Q
CLR	CLK	D	
H	↑	L	L
H	↑	H	H
H	H or L	X	Q ₀
L	X	X	L

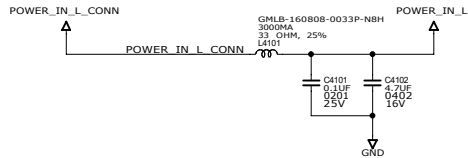


ZEBRA CONFIDENTIAL			
ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
\$STI_TITLE_1 I/O CONN. CONTROL			
DWG. NO. \$STI_DRAWING_NO	REV \$STI_REV		
CON_LAST_MODIFIED		SCORE XXXXXX TOTAL PAGES	

I/O CONN.LEFT SIDE

REV		ZONE	REVISIONS	DESCRIPTION	E.C.	BY	APVD	DATE
1			SEE SHEET 1					

DC POWER



FOR DIO3203LN12

SEL1	SEL0	FUNCTION
0	0	NO CONNECTION
0	1	COM+ CONNECTED TO DP1- COM- CONNECTED TO DM1-
1	0	COM+ CONNECTED TO DP2- COM- CONNECTED TO DM2-
1	1	COM+ CONNECTED TO E COM- CONNECTED TO L

Input pin		Channel on
L	0	Y0
R	0	Y1

FOR NX3L2467

0	1Y0=1Z & 2Y0=2Z
15	1Y1=1Z & 2Y1=2Z
0	3Y0=3Z & 4Y0=4Z
25	3Y1=3Z & 4Y1=4Z
1	

LEFT RUGGED I/O CONNECTOR

BASE_DNI

BM23PFD-8-20DS-0.35V(S1)

J4101 - 1

J4101 - 2

J4101 - 3

J4101 - 4

J4101 - 5

J4101 - 6

J4101 - 7

J4101 - 8

J4101 - 9

J4101 - 10

J4101 - 11

J4101 - 12

J4101 - 13

J4101 - 14

J4101 - 15

J4101 - 16

J4101 - 17

J4101 - 18

J4101 - 19

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J4101 - 66

J4101 - 67

J4101 - 68

J4101 - 69

J4101 - 70

J4101 - 71

J4101 - 72

J4101 - 73

J4101 - 74

J4101 - 75

J4101 - 76

J4101 - 77

J4101 - 78

J4101 - 79

J4101 - 80

J4101 - 81

J4101 - 82

J4101 - 83

J4101 - 84

J4101 - 85

J4101 - 86

J4101 - 87

J4101 - 88

J4101 - 89

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J4101 - 93

J4101 - 94

J4101 - 95

J4101 - 96

J4101 - 97

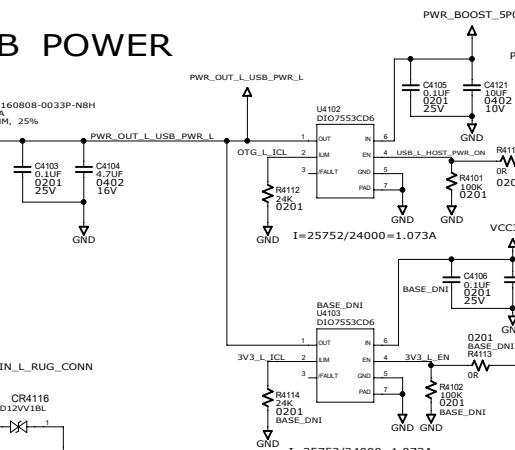
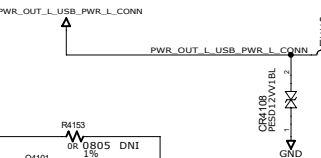
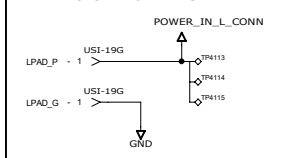
J4101 - 98

J4101 - 99

J4101 - 100

USB POWER

LEFT DC CHARGE PADS



SEL		FUNCTION
0	0	DISCONNECT
0	1	COM+ = D1+, COM- = D1-
1	0	COM+ = D2+, COM- = D2-
1	1	COM+ = D3+, COM- = D3-

SEL		FUNCTION
0	0	DISCONNECT
0	1	COM+ = D1+, COM- = D1-
1	0	COM+ = D2+, COM- = D2-
1	1	COM+ = D3+, COM- = D3-

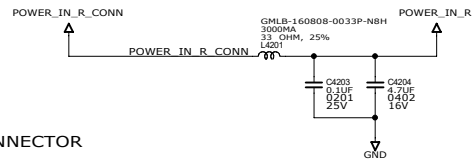
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HOLTSVILLE, NEW YORK 11742

SSTI_TITLE_1	
RUGGED I/O CONN. LEFT SIDE	
SIZE	DWG NO.
D	SSTI_DRAWING_NO
DATE	REV
DATE	REV

8	7	6	5
I/O	CONN.RIGHT	SIDE	

DC POWER

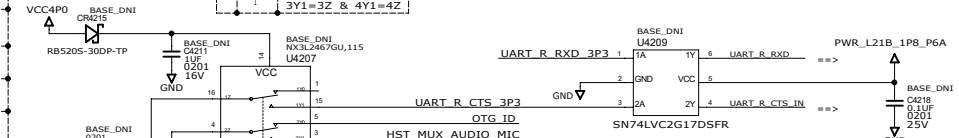


FOR DIO3203LN1

SEL1	SEL0	FUNCTION
0	0	NO CONNECTION
0	1	COM+CONNECTED TO DP1+ COM-CONNECTED TO DM1-
1	0	COM+CONNECTED TO DP2+ COM-CONNECTED TO DM2-
1	1	COM+CONNECTED TO R COM-CONNECTED TO L

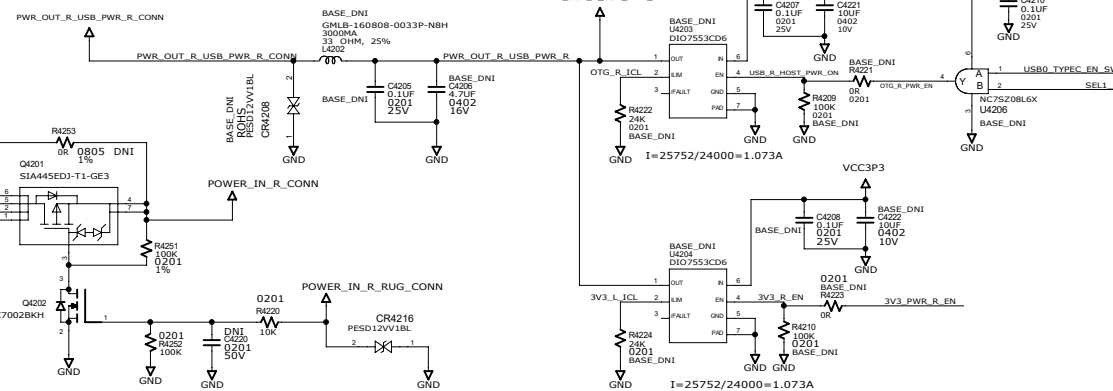
FOR NX3L2467

1S	0	$1Y_0 = 1Z \text{ \& } 2Y_0 = 2Z$
	1	$1Y_1 = 1Z \text{ \& } 2Y_1 = 2Z$
2S	0	$3Y_0 = 3Z \text{ \& } 4Y_0 = 4Z$
	1	$3Y_1 = 3Z \text{ \& } 4Y_1 = 4Z$

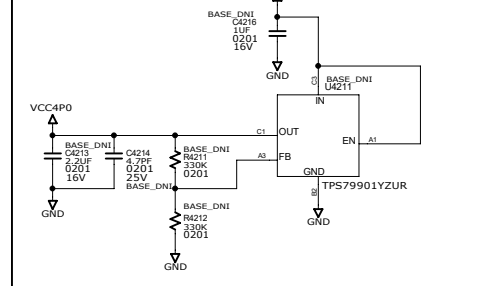


RIGHT RUGGED I/O CONNECTOR

USB POWER



4P0 LDO



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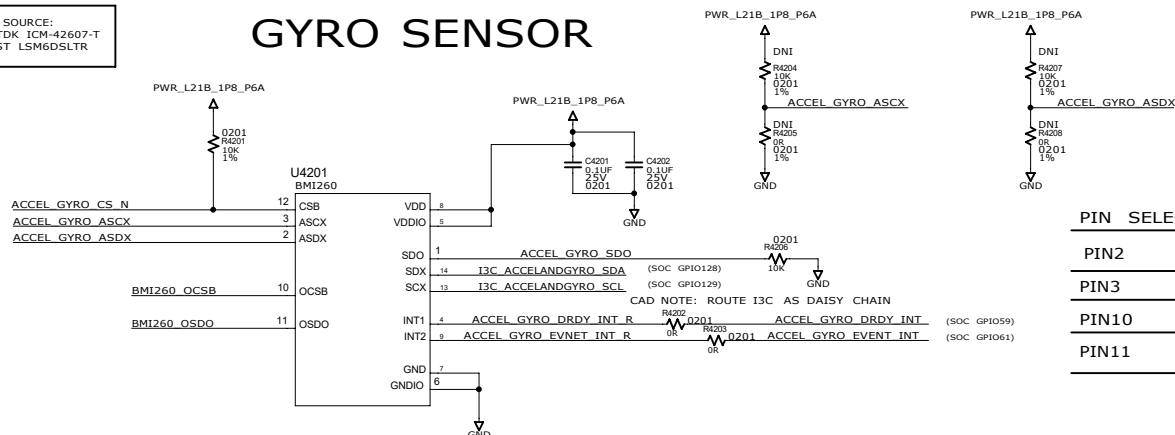
\$STI_TITLE_1 RUGGED I/O CONN. RIGHT SIDE

SIZE D	DWG. NO. \$STI_DRAWING_NO	REV \$STI_REV
\$CON_LAST_MODIFIED		\$CON_TOTAL_PAGES

GYRO SENSOR

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

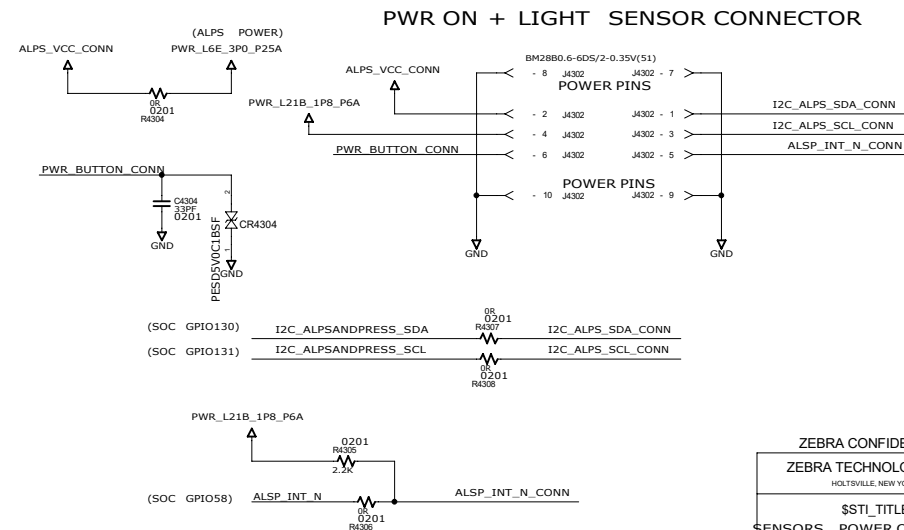
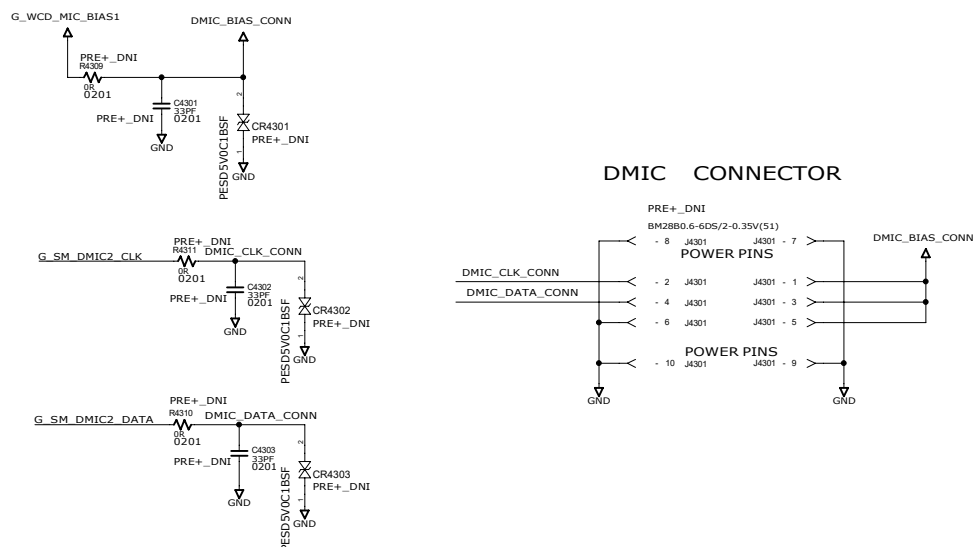
GYRO SENSOR



MODEL	I2C ADDRESS	NOTE
BOSCH BMI260	SDO = 0 -> 0X68	CSB = 1
TDK ICM-42607-T	AP_AD0 = 0 -> 0X68	AP_CS = 1
ST LSM6DSLTR	SDO = 0 -> 0X6A	CS= 1

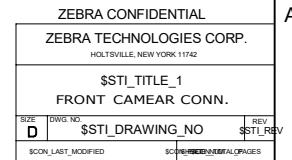
PIN	SELECT	BMI260	ICM-42607-T	LSM6DSLTR
PIN2		VDDIO OR NO CONNECT	VDDIO OR GND OR NO CONNECT	VDDIO OR GND
PIN3		VDDIO OR NO CONNECT	VDDIO OR GND OR NO CONNECT	VDDIO OR GND
PIN10		VDDIO OR NO CONNECT	VDDIO OR GND OR NO CONNECT	LEAVE UNCONNECTED
PIN11		VDDIO OR NO CONNECT	VDDIO OR GND OR NO CONNECT	LEAVE UNCONNECTED

LIGHT SENSOR + POWERON FPC, DMIC FPC



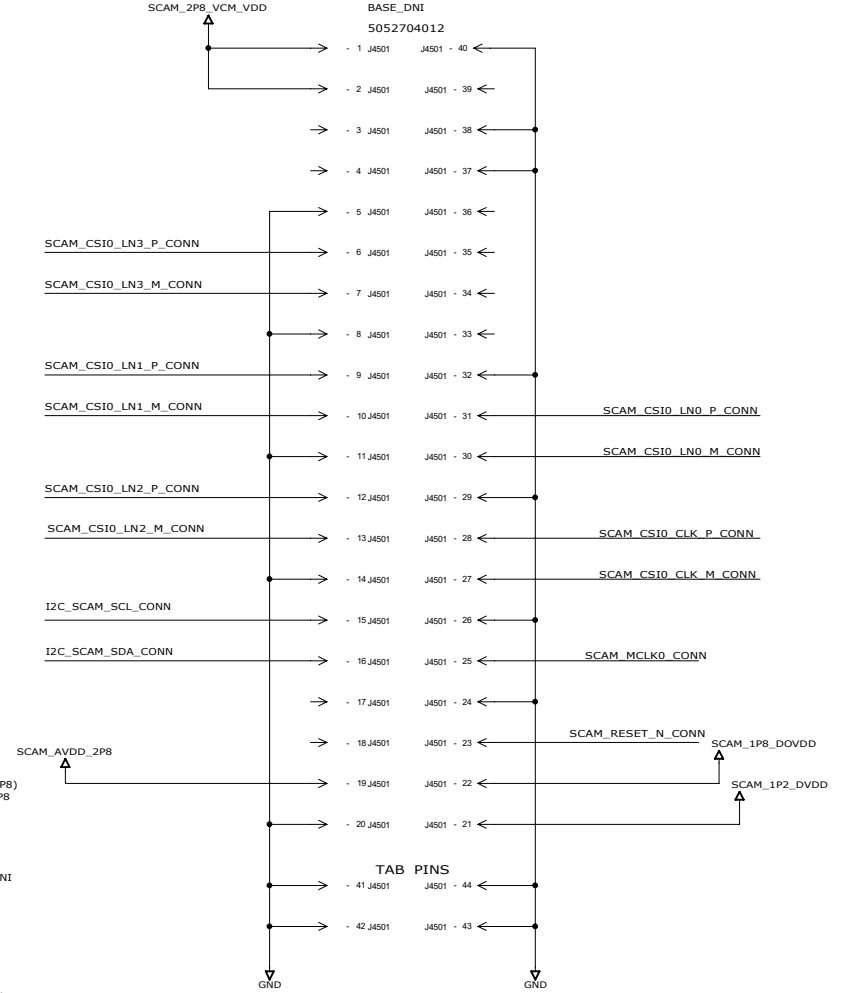
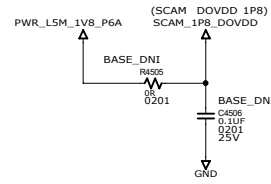
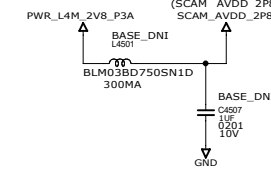
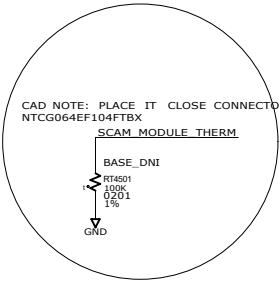
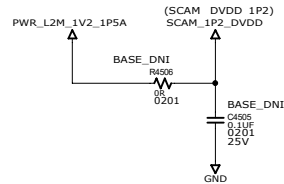
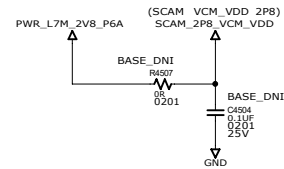
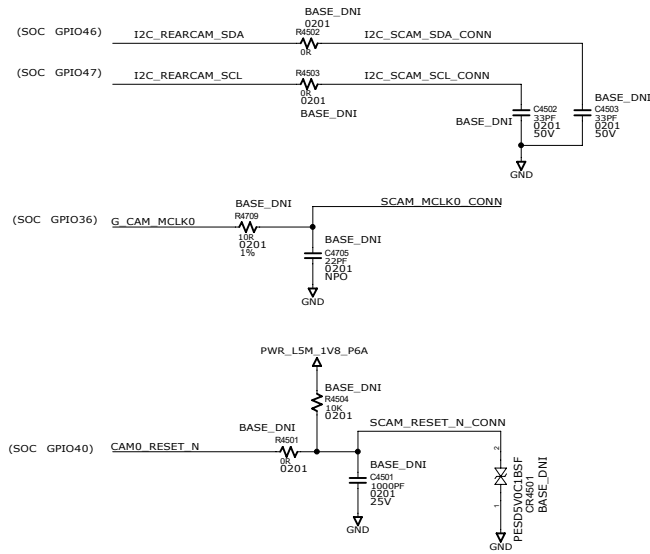
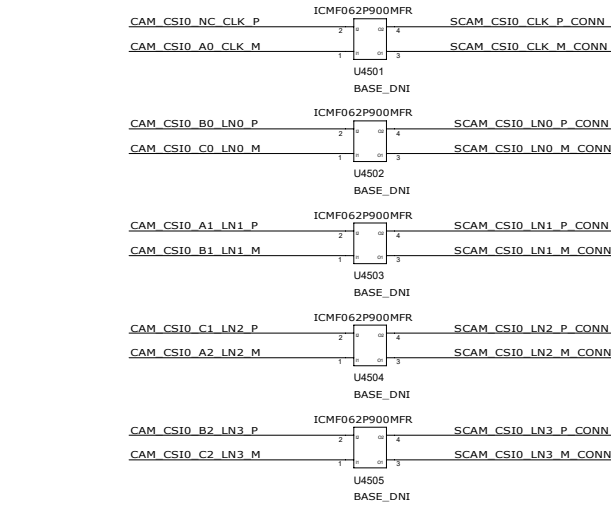
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ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
\$_\$TI_TITLE_1			
SENSORS, POWER ON, DMIC FPC			
SIZE	DWG NO.	REV	
D	\$_\$DRAWING_NO	\$_\$TITLE	
SCON_LAST_MODIFIED		SCON_PPCON_NEW_PAGES	

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



SIDE CAMERA CONNECTOR

REV		ZONE	REVISIONS		DESCRIPTION		E.C.	BY	APVD	DATE
SEE SHEET 1										



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HOLTSVILLE, NEW YORK 11742			
SSTI_TITLE_1			
SIDE CAMERA CONNECTOR			
SIZE	DWG NO.	REV	SSTI_REV
D	SSTI_DRAWING_NO		
SCON_LAST_MODIFIED		SCON_MODIFIED_PAGES	

SHIELDING/SCREW HOLES/NPTH/PTH

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

PTH

TOOL1-9T_4-2C_FILM
TOOL4607



TOOL1-9T_6T4-2BC_FILM
TOOL4603



TOOL1-9T_6T4-2BC_FILM
TOOL4604



TOOL1-9T_6T4-2BC_FILM
TOOL4605



TOOL1-9T_6T4-2BC_FILM
TOOL4606



NPTH

D126X146_NPTH
TOOL4601



D2MM700U1_20
TOOL4602



PADS FOR GND

PAD5_258X5_52MM_FILM_6MIL
TOOL4612



SHIELDING CAM

TOP SIDE

SHIELD_55_44X32_961MM_FILM
TOOL4608



TOOL4609
SHIELD_25_3664X30_4211MM_FILM



WIFI

BOT SIDE

SHIELD_17_3X27MM_FILM
TOOL4610



SHIELD_71_696X27MM_FILM
TOOL4611



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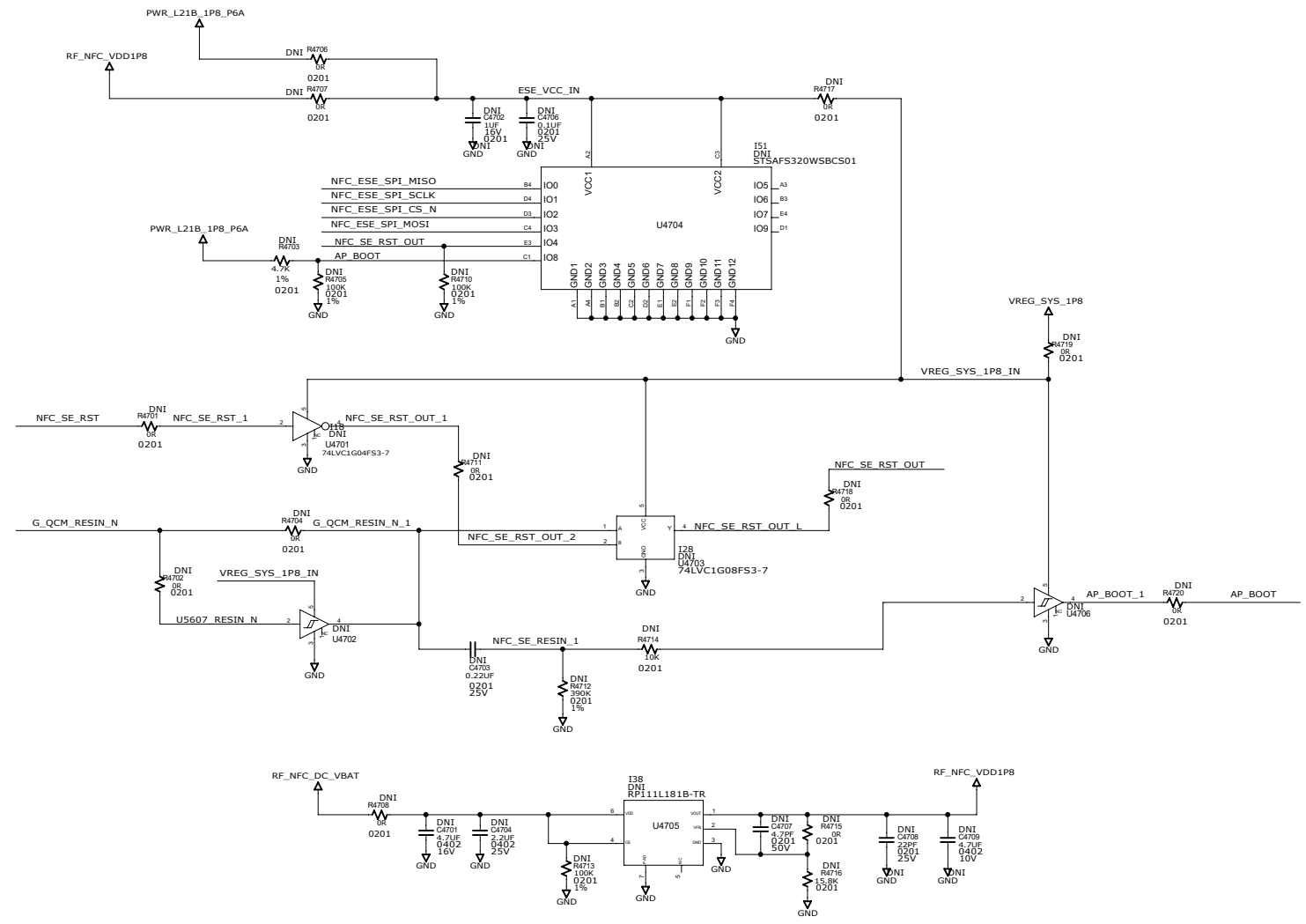
ZEBRA TECHNOLOGIES CORP.
HOLTSVILLE, NEW YORK 11742

\$STI_TITLE_1
SHIELDING/SCREW HOLES/NPTH

SIZE	DWG. NO.	REV.
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SCN_LAST_MODIFIED		SCN_CREATED/REVISED/PAGES

ELEMENT SECURE

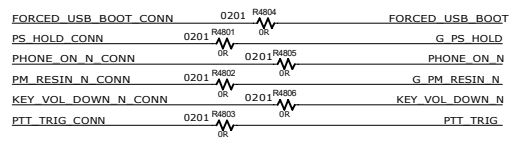
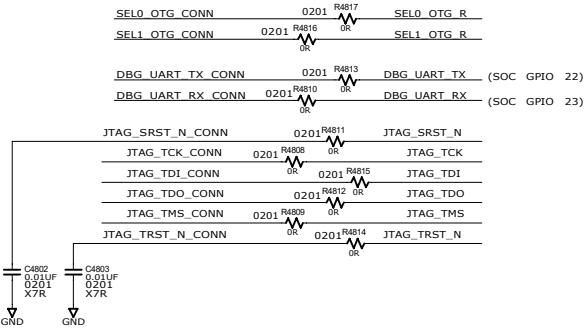
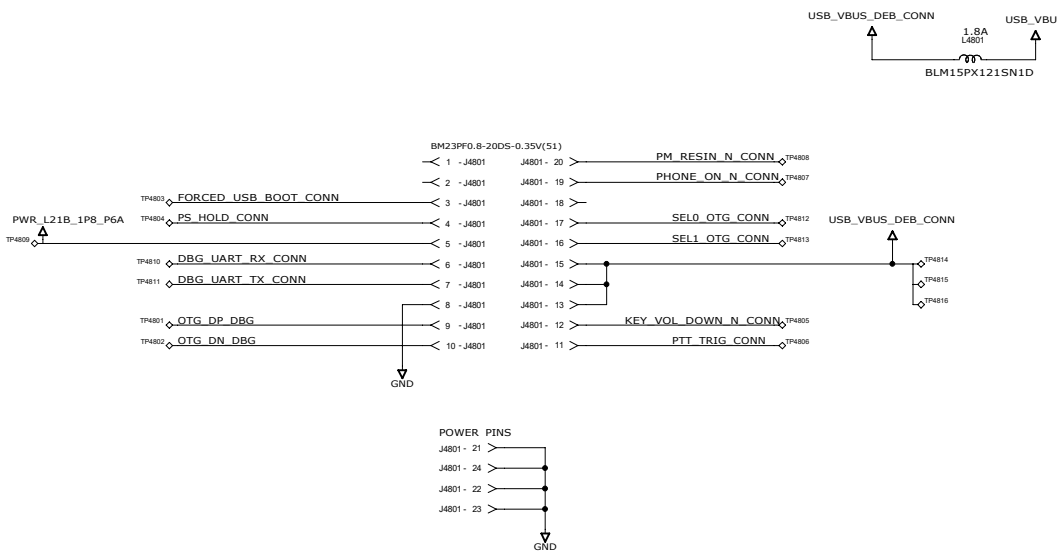
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REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



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ZEBRA TECHNOLOGIES CORP.		
HOLTSVILLE, NEW YORK 11742		
SSTI_TITLE_1		
ELEMENT SECURE		
SIZE	DWG NO.	REV
D	SSTI_DRAWING_NO	SSTI_REV
SCN_LAST_MODIFIED		SCN_CREATED/REVISIONS

DEBUG CONNECTOR

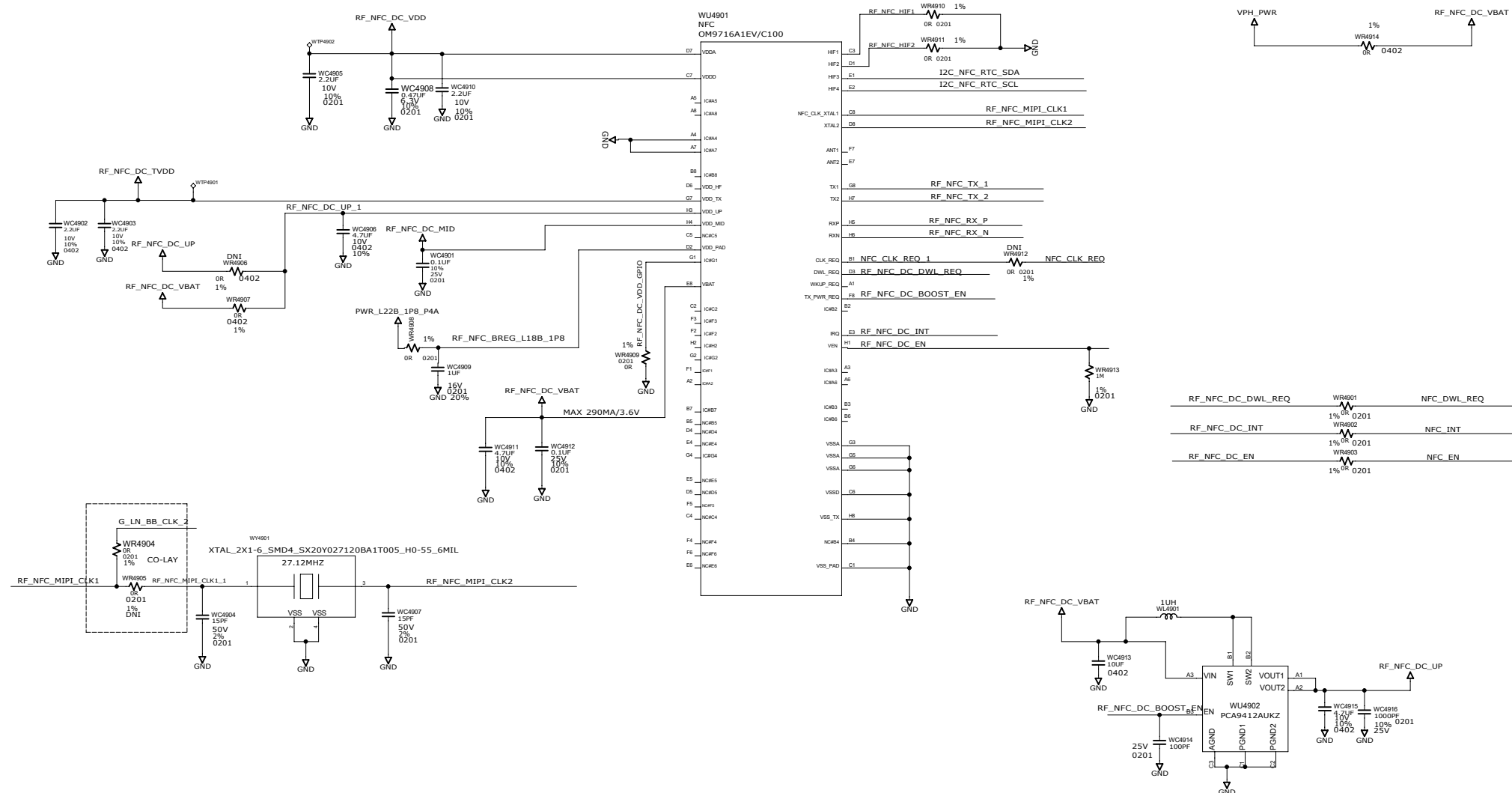
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REV	ZONE	DESCRIPTION	E.C.	BY	DATE
		SEE SHEET 1			



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ZEBRA TECHNOLOGIES CORP.					
HOLTSVILLE, NEW YORK 11742					
SSTI_TITLE_1					
DEBUG CONNECTOR					
SIZE	DWG NO.	REV			
D	SSTI_DRAWING_NO	SSTI_REV			
SCN_LAST_MODIFIED			SCN_LAST_MODIFIED		

OM9716 NFC

REVISIONS						
REV	ZONE	Mo	DESCRIPTION	E.C.	BY	APVD. DATE
			SEE SHEET 1			



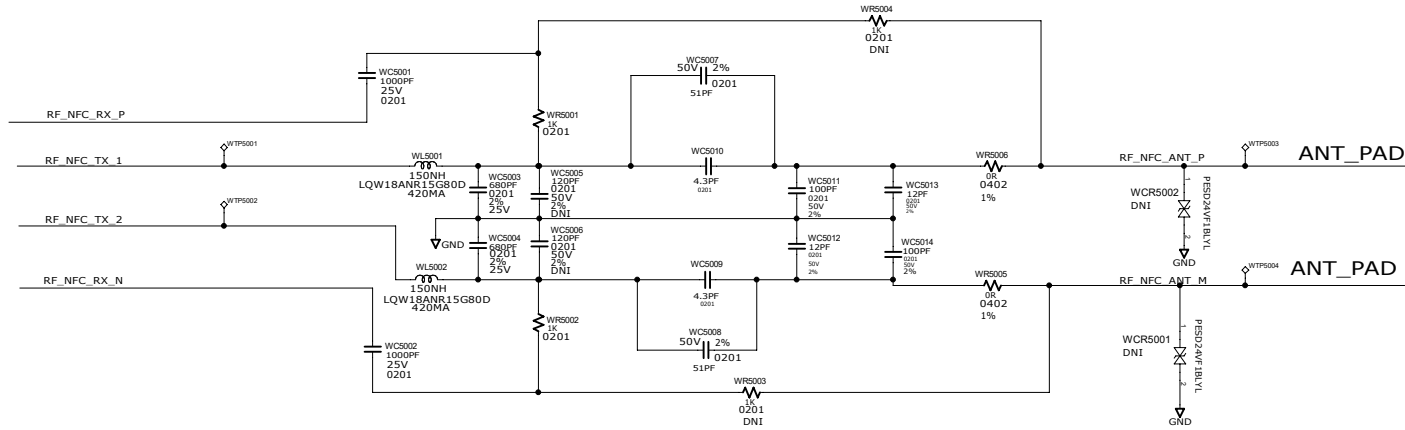
ZEBRA TECHNOLOGIES CORP.
HOLTSVILLE, NEW YORK 11742

QUASAR MAIN BOARD
OM9716 NFC

SIZE D	DWG. NO. TBD	REV. V1
Fri Nov 17 17:40:11 2023		SHEET 49 OF 61

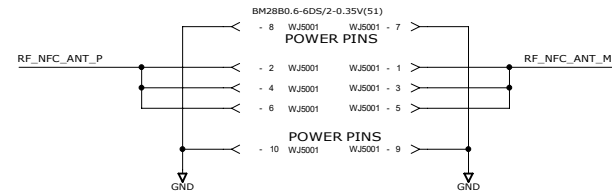
OM9716 NFC

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APD.	DATE
			SEE SHEET 1				



WL9301 & WL9302 RATED CURRENT 420MA

Release for		PT		
Date		2022/10/14		
Matching Circuit	BOM			
	L0	WL9301 、 WL9302	150nH	MURATA LQW18ANR15G80D
	C0a	WC9303 、 WC9304	680pF	MURATA GRM0335C1H681JE01D
	C0b	WC9305 、 WC9306		DNI
	C1a	WC9307 、 WC9308	43pF	MURATA GRM0335C1H430GA1D
	C1b	WC9309 、 WC9310	1.5pF	MURATA GRM0335C1H1R5CA1D
	C2a	WC9311 、 WC9314	100pF	MURATA GRM0335C1H101GA1D
	C2b	WC9312 、 WC9313	27pF	MURATA GRM0335C1H270GA1D
	Rrx_filter	WR9304 、 WR9305	1KΩ	WALSIN CHIP RES 1K 1% 200PPM 0201 1/20W
	Rrx_ant	WR9306 、 WR9307		DNI
	Rdamp	WR9308 、 WR9309	0Ω	YAGEO CHIP RES 0 1% 200PPM 0201 1/20W



ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
QUASAR MAIN BOARD			
NFC ANTENNA			
SIZE	DWG NO.	REV	
D	TBD	V18	
FRI Nov 17 17:40:12 2023		SHEET 50 OF 61	

REV		ZONE		REVISIONS		E.C.	BY	APD.	DATE
				DESCRIPTION					
				SEE SHEET 1					

RESERVE PAGE

ZEBRA TECHNOLOGIES CORP. HOLTSVILLE, NEW YORK 11742					
QUASAR MAIN BOARD RESEERVE PAGE					
SIZE D	DWG NO. TBD				REV V18
Mon Aug 28 15:12:08 2023				SHEET 51 OF 61	

WLAN BLOCKDIGRAM

WCN6856 HP12B

POWER

PWR_S7B_1P112_P6A
PWR_L21B_1P8_P6A
PWR_S8B_1P352_4A
PWR_S9B_1P872_2P1A
VPH_PWR

CONTROL

BT_EN
WLAN_EN
WCN_SW_CTRL
LAA_RX
PA_MUTING
RF_WL_TX_EN_TO_N79
RF_WL_N79_TX_EN_TO_WLAN
MOS_AS_EN

BT

RF_45_BT_SLIMBUS_DATA
RF_45_BT_SLIMBUS_CLK
BT_UART_TX
BT_UART_RX
BT_UART_RFR
BT_UART_CTS
BLE_UART_TX
BLE_UART_RX

PCIE

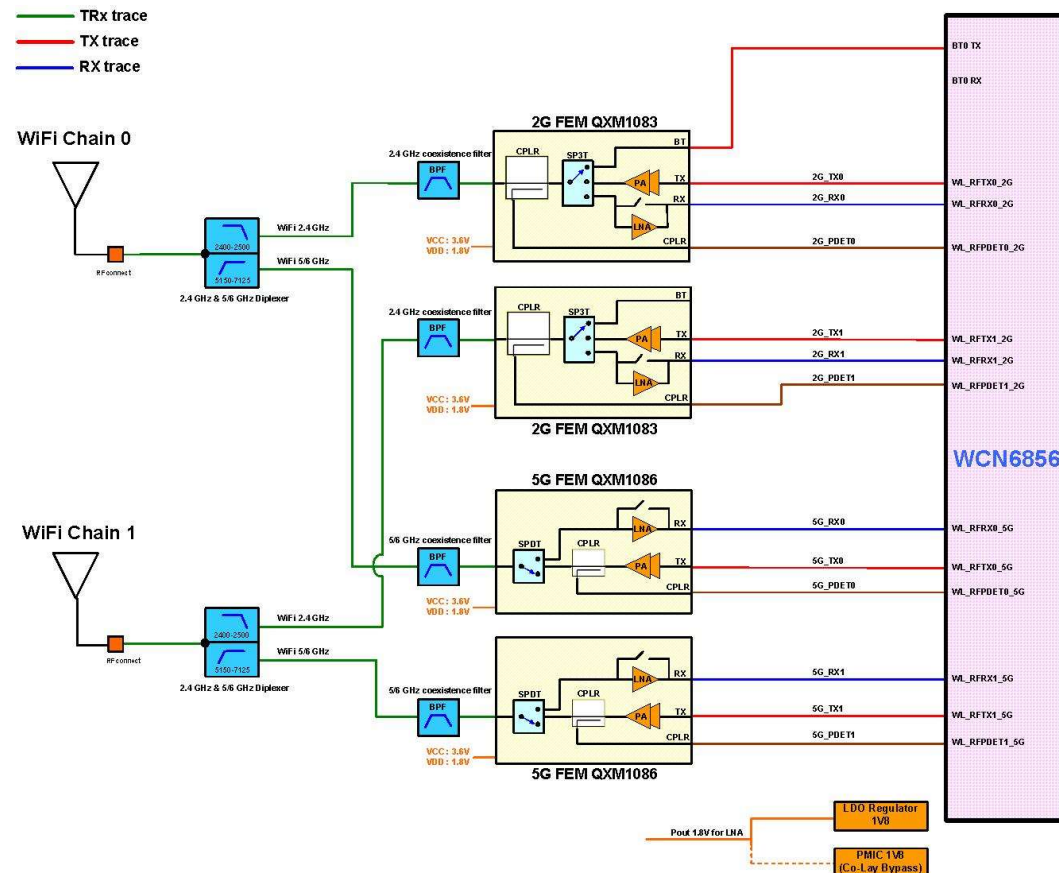
RF_100_WL_PCIE20_RFECLK_P
RF_100_WL_PCIE20_RFECLK_M
RF_100_WL_PCIE20_RXP
RF_100_WL_PCIE20_RXM
RF_100_WL_PCIE20_TXP_1
RF_100_WL_PCIE20_TXM_1
PCIE0_CLK_REQ_N
PCIE0_RESET_N
PCIE0_WAKE_N

CLOCK

G_SLEEP_CLK

WLAN 2-WIRE UART INTERFACES

HOST2WLAN_SOL
WLAN2HOST_SOL



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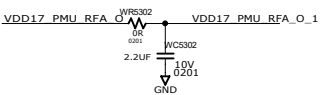
ZEBRA TECHNOLOGIES CORP.
HOLTSVILLE, NEW YORK 11742

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WLAN BLOCK DIAGRAM

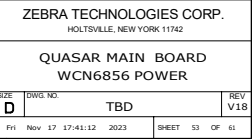
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SCN_LAST_MODIFIED SCN_MODIFIED

8	7	6	5
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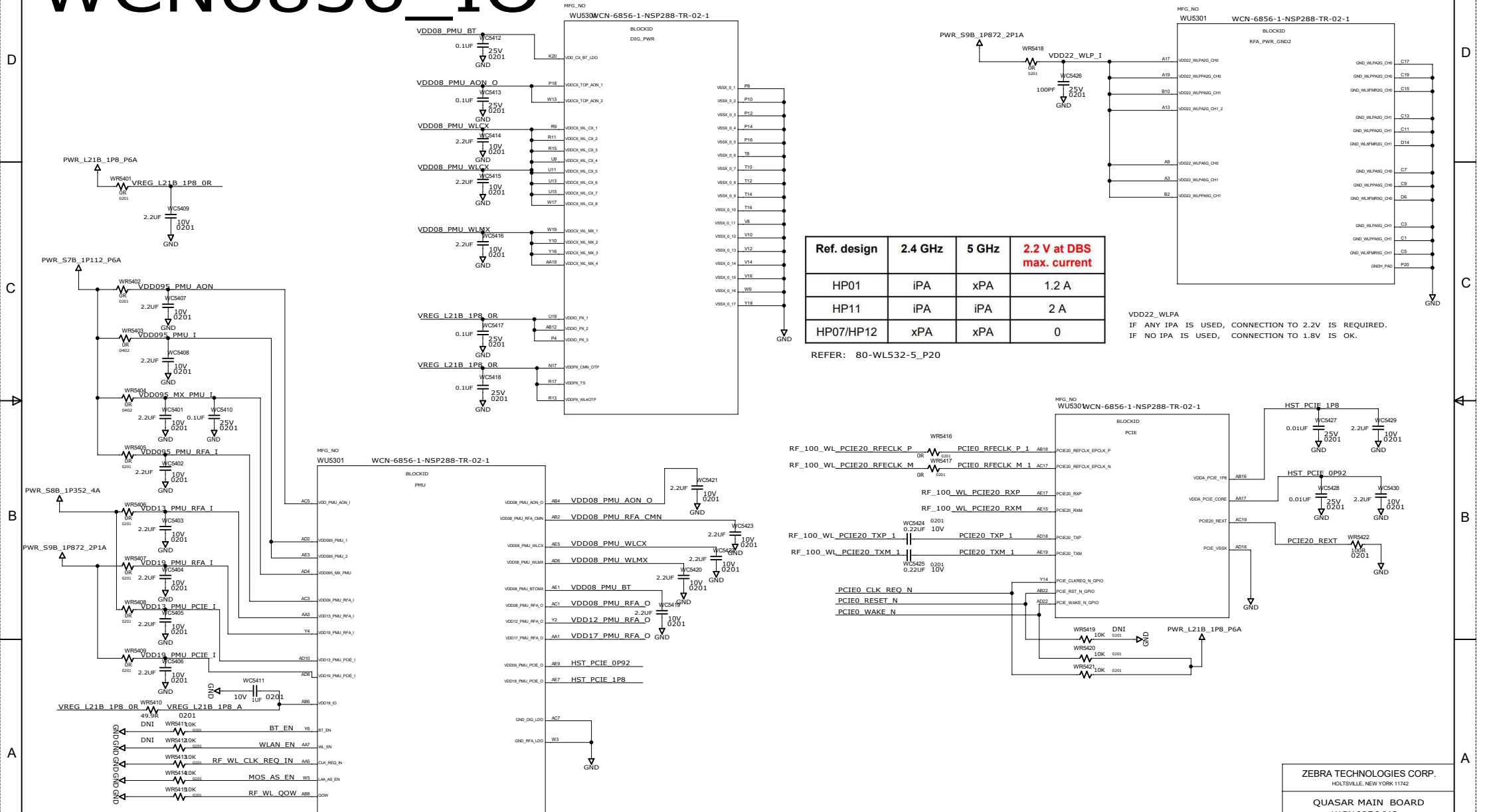


VDD17_WLSYN5G_VCONEEDS GOOD ISOLATION FROM THE REST OF THE POWER RAILS



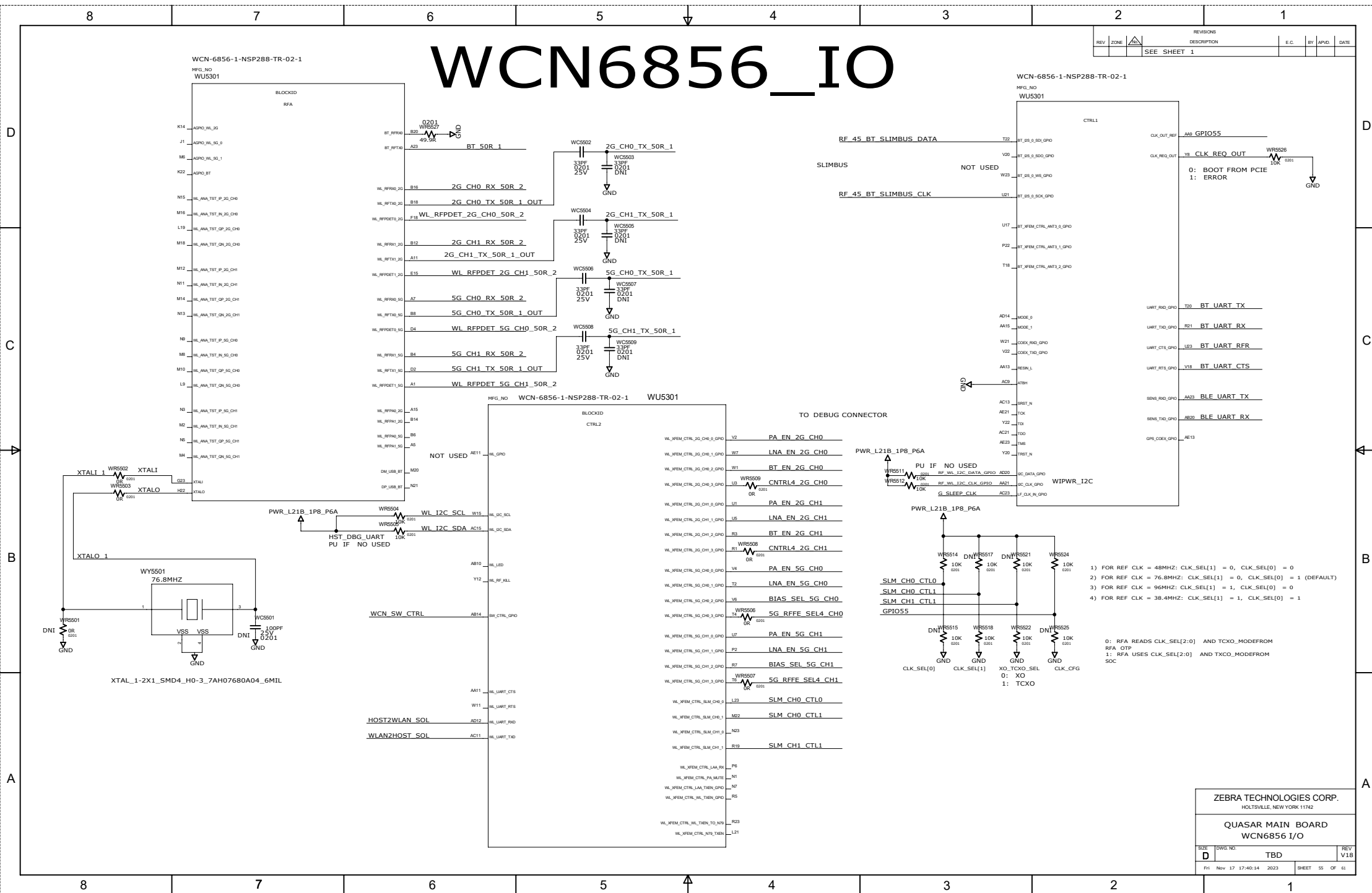
WCN6856_IO

REVISIONS							
REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				

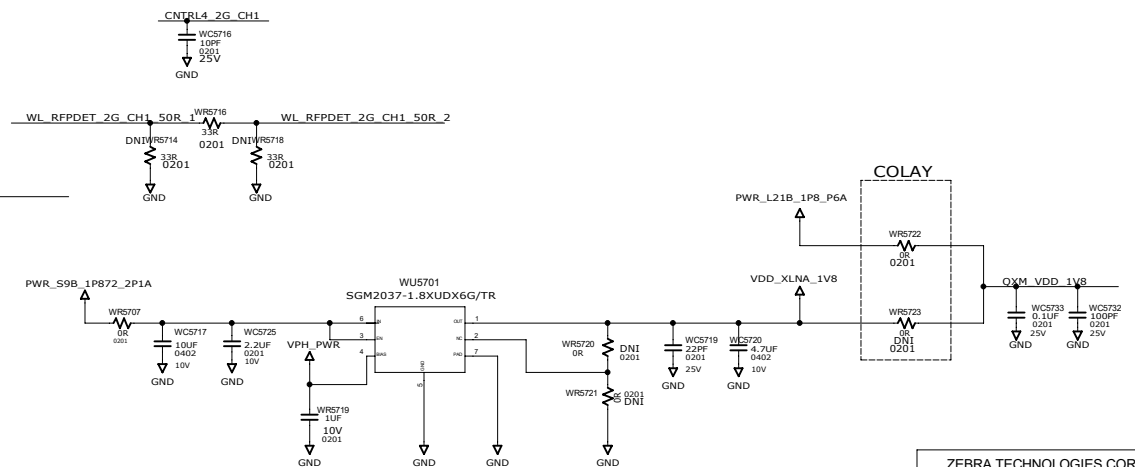
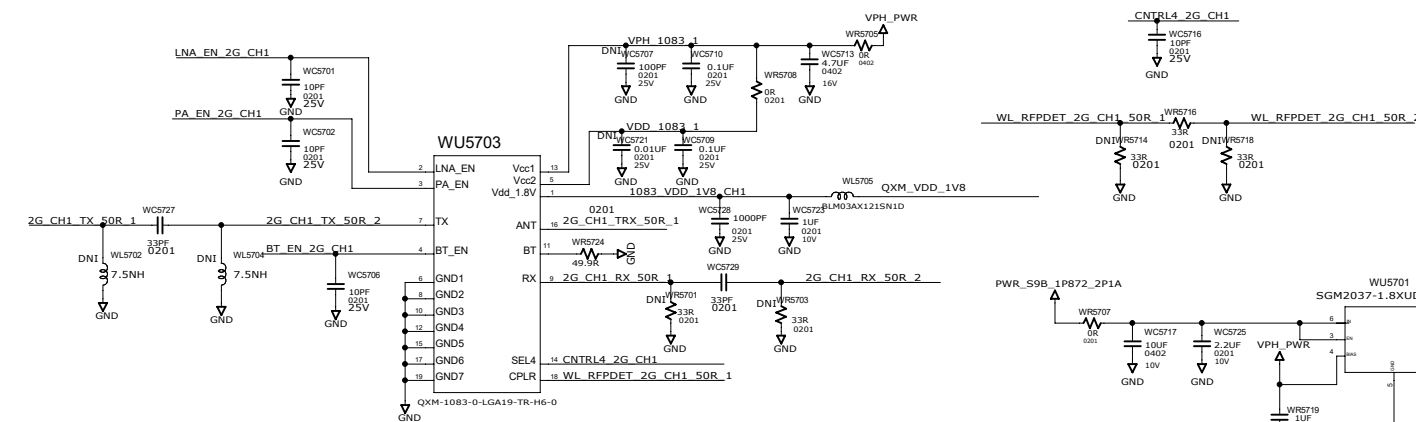


LAA REQUEST TO SHARE XFEM INTERFACE THAT IS USED TO CONTROL
WLAN IN ANTENNA SHARING APPLICATION.

ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
QUASAR MAIN BOARD			
WCN6856 I/O			
SIZE	DWG. NO.		REV
D	TBD		V18
Fri Nov 17	17:41:14	2023	SHEET 54 OF 61



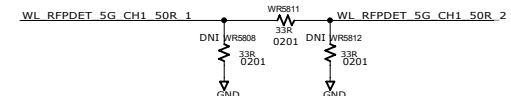
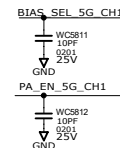
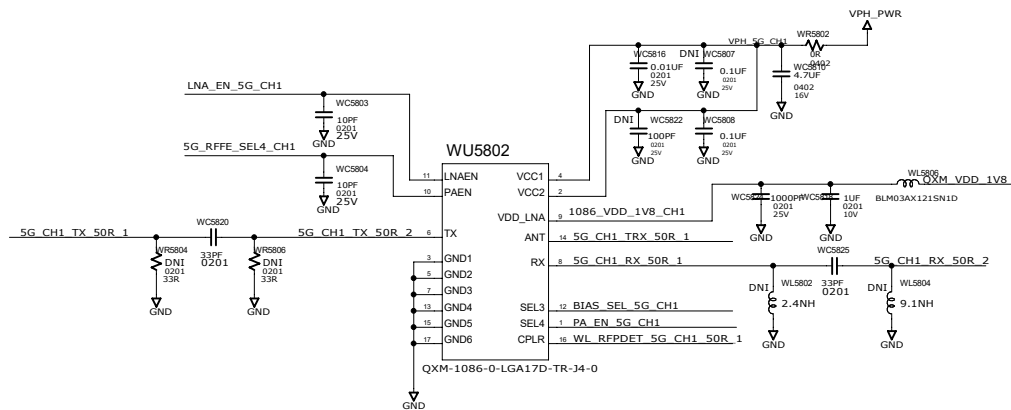
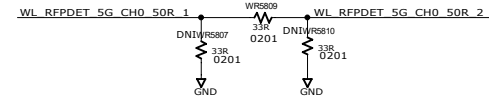
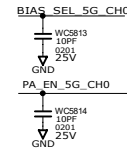
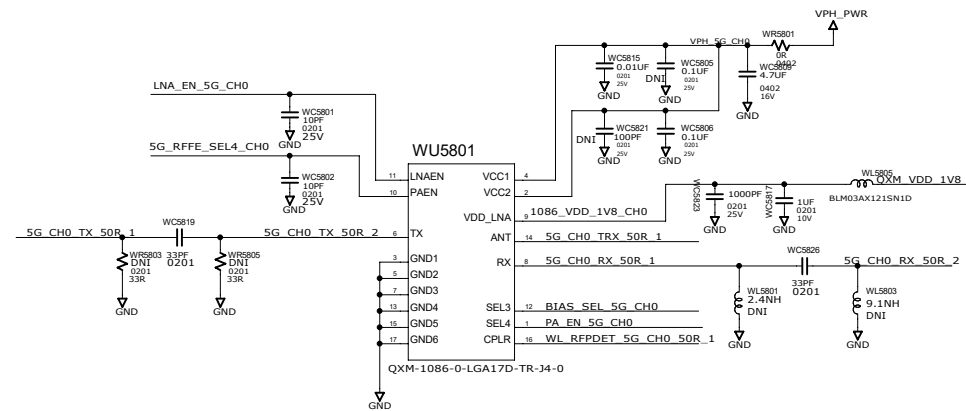
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REV	ZONE		DESCRIPTION	E.C.	BY	APVD.	DATE
			SEE SHEET 1				



SIZE D	DWG. NO. TBD	REV V18
Fri Nov 17 17:40:30 2023		SHEET 57 OF 61

5G-7GHZ CHAIN 0/1 XFEM

REVISIONS					
REV	ZONE	DESCRIPTION	E.C.	BY	APVD
1		SEE SHEET 1			



ZEBRA TECHNOLOGIES CORP. HOLTSVILLE, NEW YORK 11742					
QUASAR MAIN BOARD 5G-7GHZ CHAIN 0/1 XFEM					
SIZE	DWG NO.	REV			
D	TBD	V18			
Fri Nov 17 17:41:17 2023	SHEET 58	OF 61			

REVISIONS					
REV.	ZONE	DESCRIPTION	E.C.	BY	DATE
		SEE SHEET 1			

RESERVE PAGE

ZEBRA TECHNOLOGIES CORP. HOLTSVILLE, NEW YORK 11742					
QUASAR MAIN BOARD RESERVE PAGE					
SIZE	DWG. NO.	REV.			
D	TBD	V18			
Mon Aug 28 15:47:37 2023		SHEET 59 OF 61			

RESERVE PAGE

REVISIONS				
REV	ZONE	DESCRIPTION	E.C.	DATE
		SEE SHEET 1		

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QUASAR MAIN BOARD
RESERVE PAGE

SIZE D	DWG. NO. TBD	REV V18
Mon Aug 28 15:47:38 2023		SHEET 60 OF 61

HISTORY

REVISIONS						
REV	ZONE		DESCRIPTION			DATE
			SEE SHEET 1			

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ZEBRA TECHNOLOGIES CORP.			
HOLTSVILLE, NEW YORK 11742			
QUASAR MAIN BOARD			
HISTORY			
SIZE	DWG. NO.		REV
D	TBD		V18
Tue Aug 08 19:10:31 2023		SHEET 61	OF 61