

D21 MLB - DVT (OK2FAB)

LAST_MODIFICATION=Tue Jun 6 18:57:04 2017

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18	27	SYSTEM POWER: PMU Bucks (1/4)	sync	04/14/2017	63	11	LB PAD		
19	28	SYSTEM POWER: PMU Bucks (2/4)	sync	04/14/2017	64	12	HB PAD		
20	29	SYSTEM POWER: PMU LDOS (3/4)	sync	04/14/2017	65	13	UHB PAD		
21	30	SYSTEM POWER: PMU (4/4)	sync	04/14/2017	66	14	ZG PA		
22	31	SYSTEM POWER: Boost	sync	04/14/2017	67	15	LB DSM		
23	32	SYSTEM POWER: B2B Battery	sync	04/14/2017	68	16	HB DSM		
24	33	SYSTEM POWER: Charger	sync	04/14/2017	69	17	COUPLER2		
25	34	SYSTEM POWER: Iktara	sync	04/14/2017	70	18	LOWER ANTENNA		
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27	36	SENSORS	sync	04/14/2017	72	20	GNSS		
28	37	CAMERA: PMU (1/2)	sync	04/14/2017	73	21	SIM, DEBUG CONN		
29	38	CAMERA: PMU (2/2)	sync	04/14/2017	74	22	TEST POINTS	PROBE POINTS	07/18/2016
30	39	CAMERA: B2B Wide (X1)	sync	04/14/2017	75	1	FRONT PAGE		
31	40	CAMERA: B2B Tele (TN)	sync	04/14/2017	76	2	METROCIRC		
32	41	CAMERA: Strobe Drivers	sync	04/14/2017	77	3	UAT MATCH AND TUNER		
33	42	CAMERA: FCAM + FOREHEAD	sync	04/14/2017	78	4	RFFFE TO GPO TRANSLATOR		
34	43	CAMERA: B2B Strobe + Buttons	sync	04/14/2017	79	1	Symbolports		
35	47	AUDIO: CODEC (1/2)	sync	04/14/2017	80	4	Guinness	WIFI	11/28/2016
36	48	AUDIO: CODEC (2/2)	sync	04/14/2017	81	5	WiFiANTfeeds		11/28/2016
37	49	AUDIO: Speaker Amp Bottom	sync	04/14/2017					
38	50	AUDIO: Speaker Amp Top	sync	04/14/2017					
39	51	ARC: Driver	sync	04/14/2017					
40	55	CG: Niki	sync	04/14/2017					
41	56	CG: PMUs	sync	04/14/2017					
42	57	CG: B2B DISPLAY + TOUCH	sync	04/14/2017					
43	58	CG: B2B ORB + MESA	sync	04/14/2017					
44	59	I/O: Overvoltage Cut-Off Circuit	sync	04/14/2017					
45	61	I/O: Accessory Buck	sync	04/14/2017					

Sub Designs

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
051-02159	1	SCH_MLB_D21	SCB	?
820-00846	1	PCB_MLB_D21	PCB	?

SOURCE PROJECT	SUB-DESIGN NAME	VERSION	BOARD SOFT	SYNC_DATE/TIME
D21	RADIO_MLB	0.122.0	S	2017_06_06_17:14:31
D20	NFC_MLB	0.50.0	S	2017_05_26_07:54:42
D21	WIFI_MLB	0.20.0	S	2017_05_16_02:56:32
D21	RADIO_MLB_FF	0.35.0	S	2017_06_02_14:56:02

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DRAWING TITLE		
SCH_MLB_D21		
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EEEE Codes

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	Critical	BOM OPTION
825-7691	1	EEEEE FOR (MLA_419-04441_2P_ULT58)	EEEEE_J08R	Critical	EEEEE_ULTIMATE
825-7691	1	EEEEE FOR (MLA_419-04477_2P_EXT58)	EEEEE_BN8B	Critical	EEEEE_EXTREME
825-7691	1	EEEEE FOR (MLA_419-04442_ROW_ULTRA)	EEEEE_J08X	Critical	EEEEE_ULTIMATE_ROW
825-7691	1	EEEEE FOR (MLA_419-04480_ROW_EXT58)	EEEEE_BN8V	Critical	EEEEE_EXTREME_ROW

SOFT-TERM CAP SUB BOMS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00152	685-00151	SUBBOM_CAP	SUBBOM_CAP	SUBBOM_CAP
13880049	13880931	TYPICAL_CAP	ALL	Cap_0011_1_20P_A_2P_XYKOMA

To enable alt in SUBBOM

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	Critical	BOM OPTION
339800416	1	Soc_U_N8B 21nm DRAM_B1	U1000	Critical	COMMON

D21x Specific

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339800415	339800416	ROM_TABLE_ALTS	U1000	SoC_N8B 20nm DRAM_B1
339800417	339800416	ROM_TABLE_ALTS	U1000	SoC_S_N8B 20nm DRAM_B1
339800418	339800416	ROM_TABLE_ALTS	U1000	SoC_S_N8B 1nm DRAM_B1
339800429	339800416	ROM_TABLE_ALTS	U1000	SoC_H_N8B 20nm DRAM_B1
339800430	339800416	ROM_TABLE_ALTS	U1000	SoC_M_N8B 20nm DRAM_B1
339800431	339800416	ROM_TABLE_ALTS	U1000	SoC_S_N8B 20nm DRAM_B1
339800432	339800416	ROM_TABLE_ALTS	U1000	SoC_S_N8B 18nm DRAM_B1

SIPS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339800011	339800010	ROM_TABLE_ALTS	W55100	NEXI_STATS SIP
339800013	339800012	ROM_TABLE_ALTS	W4100	HUNT_STATS SIP

D21x Specific

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00151	685-00152	SUBBOM_CAP	SUBBOM_CAP	SUBBOM_CAP
138800159	9	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	CAP_0011_20P_A_2P_XYKOMA	SOPF_CAP
138800831	9	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	CAP_0011_1_20P_A_2P_XYKOMA	TYPICAL_CAP
138800159	15	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	CAP_0011_20P_A_2P_XYKOMA	SOPF_CAP
138800831	15	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	CAP_0011_1_20P_A_2P_XYKOMA	TYPICAL_CAP
138800159	10	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	CAP_0011_20P_A_2P_XYKOMA	SOPF_CAP
138800831	10	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	CAP_0011_1_20P_A_2P_XYKOMA	TYPICAL_CAP
138800159	2	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C1351_C1352	SOPF_CAP
138800831	2	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C1351_C1352	TYPICAL_CAP
138800159	3	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C1362_C1361_C1362	SOPF_CAP
138800831	3	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C1362_C1361_C1362	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C13791_C1379_C13798	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C13791_C1379_C13798	TYPICAL_CAP
138800159	3	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C1389_C1381_C1384	SOPF_CAP
138800831	3	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C1389_C1381_C1384	TYPICAL_CAP
138800159	2	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C1405_C1404_C1405	SOPF_CAP
138800831	2	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C1405_C1404_C1405	TYPICAL_CAP
138800159	1	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C4303	SOPF_CAP
138800831	1	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C4303	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C4405_C4409_C4414_C4409_C4409	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C4405_C4409_C4414_C4409_C4409	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C4416_C4418_C1519_C1519_C1518	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C4416_C4418_C1519_C1519_C1518	TYPICAL_CAP
138800159	1	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5160_C5159_C5158_C5158	SOPF_CAP
138800831	1	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5160_C5159_C5158_C5158	TYPICAL_CAP
138800159	4	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5170_C5169_C5174_C5171	SOPF_CAP
138800831	4	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5170_C5169_C5174_C5171	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5181_C5184_C5181_C5181	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5181_C5184_C5181_C5181	TYPICAL_CAP
138800159	1	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5184	SOPF_CAP
138800831	1	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5184	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5190_C5191_C5192_C5192	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5190_C5191_C5192_C5192	TYPICAL_CAP
138800159	5	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5191_C5194_C5191_C5191	SOPF_CAP
138800831	5	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5191_C5194_C5191_C5191	TYPICAL_CAP
138800160	4	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C4807_C4808_C4807_C4808	SOPF_CAP
138800179	4	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C4807_C4808_C4807_C4808	TYPICAL_CAP
138800160	5	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C5160_C5161_C5160_C5161	SOPF_CAP
138800179	5	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C5160_C5161_C5160_C5161	TYPICAL_CAP
138800160	4	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C5160_C5161_C5160_C5161	SOPF_CAP
138800179	5	CAP_SOFT_TERM_100P_100V_0402_XYKOMA	C5160_C5161_C5160_C5161	TYPICAL_CAP
138800159	2	CAP_SOFT_TERM_2J_20P_A_2P_XYKOMA	C5165_C5166	SOPF_CAP
138800831	2	CAP_SOFT_TERM_1_20P_A_2P_XYKOMA	C5165_C5166	TYPICAL_CAP

IKTARA DIODES SUB BOMS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00172	685-00171	ROM_TABLE_ALTS	SUBBOM_D8	www.apple.com/design/apples...

#1024873 : Update Iktara Diodes APPs
Footprint in OEM
Primary in OEM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	Critical	BOM OPTION
685-00171	1	SUBBOM_D8,SHOTTRY DIODES,DIODES_001	SUBBOM_D8		
371800120	4	DIODE,SHOTTRY DIODE,10V,1A,0003	3D409_3D401_03402_03403		DIODES_D8
371800112	4	DIODE,SHOTTRY DIODE,10V,1A,0003	3D409_3D401_03402_03403		ONSEM1_D8

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NAND BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	Critical	BOM OPTION
335800287	1	NAND_X_U16RA_TLC	U2600	Critical	ULTIMATE
335800240	1	NAND_X_EXTREME_TLC	U2600	Critical	EXTREME

Isolator Switch

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
311800126	311800114	ISOLATOR	ALL	SPOT_VI

Mamba LDO

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353800932	353800576	MOM_TABLE_ALTS	U5890	STKIC10 LDO

Load Switch

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353800999	353801039	MOM_TABLE_ALTS	U6100	YELLOM_B4_P999101
353801007	353801039	MOM_TABLE_ALTS	U6100	REDYB_LOAD_B4_P99111

Crystal Alts

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197800112	197800118	MOM_TABLE_ALTS	Y1000	MSF_XTAL_24MHz_1.6x1.2
197800120	197800118	MOM_TABLE_ALTS	Y1000	EPSON_XTAL_24MHz_1.6x1.2

PMID1 Zener Diode

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
371800121	371800030	MOM_TABLE_ALTS	D23300	DSOD8,ESOD8,20V

ZRB Caps

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	Critical	BOM OPTION
13880683	1	10 ⁶ ,25V,4402,20R,109	C2381	Critical	C09808
CRITICAL PART# COMMENT					
138800185		MUR_CAP_ZRB_2,2UF,25V,0402			
13880186		MUR_CAP_ZRB_4,7UF,25V,0603			

Global R/C Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
11880764	11880717	MOM_TABLE_ALTS	ALL	RES_1,4K,0.1A,0.001
13880648	13880652	MOM_TABLE_ALTS	ALL	CAP,0.001UF,0.01V,0.0001,200,200
13880024	13880024	MOM_TABLE_ALTS	ALL	RES_1,100K,0.1A,0.001
13880706	13880739	MOM_TABLE_ALTS	ALL	CAP,0.01UF,0.01V,0.001,200,200
13880943	13880739	MOM_TABLE_ALTS	ALL	CAP,0.001UF,0.01V,0.001,200,200
13880739	13880706	MOM_TABLE_ALTS	ALL	RES_1,100K,0.1A,0.001
13880706	13880739	MOM_TABLE_ALTS	ALL	RES_1,100K,0.1A,0.001
13880436	13880400	MOM_TABLE_ALTS	ALL	RES_1,100K,0.1A,0.001
138800133	138800128	MOM_TABLE_ALTS	ALL	RES_1,100K,0.1A,0.001
13880014	138800150	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800149	138800150	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800151	138800150	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800144	138800143	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800143	138800144	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800139	138800138	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800138	138800139	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800145	138800144	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800144	138800145	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800141	138800142	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800142	138800143	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800143	138800144	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800049	138800831	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800143	138800143	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800144	138800144	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800145	138800145	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800049	138800145	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800142	138800145	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800142	138800145	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800049	138800831	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800143	138800143	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800144	138800148	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800145	138800144	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800146	138800146	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800166	138800140	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800140	138800141	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
138800048	138800003	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200
13280639	13280088	MOM_TABLE_ALTS	ALL	COMP,0.001UF,0.01V,0.0001,200,200

Global Ferrites Alternates

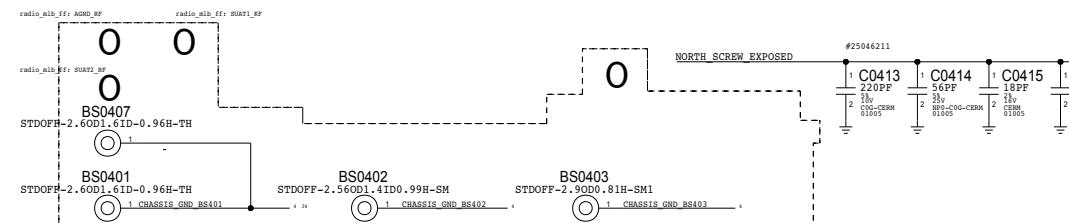
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
15530581	155308067	MOM_TABLE_ALTS	ALL	FERR_20,100OHM,0.0105
15580019	15580016	MOM_TABLE_ALTS	ALL	FERR_10,100OHM,0.0105
155800200	15580016	MOM_TABLE_ALTS	ALL	FERR_10,100OHM,0.0105
152800538	152800537	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800455	152800456	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800453	152800451	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800454	152800452	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
155800012	155800012	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800710	152800461	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800711	152800461	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800713	152800462	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800714	152800462	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800715	152800462	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800716	152800461	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800717	152800461	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800718	152800463	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800720	152800464	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
152800721	152800464	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
155800338	155800464	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
155800340	155800876	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200
155800339	155800660	MOM_TABLE_ALTS	ALL	IND_1,47MHZ,1.6A,0.001,200,200

Multi-Vendor Criticals

Critical Part#	Comment
37780106	SUPPLY_TRANS_VARISTOR_12V_100V_0105
19780446	XTRAL_24MHZ_035PF_9.1PF_0.01V_HDMMX1612
15580576	FERR_10,100OHM,100MHZ,0.0105
15500168	FETT_WAVE_0.001A_0.001A_0.001A_0.001A_0.001A_0.001A_0.001A_0.001A
13880979	CAP_CER_X5R_100V_10%_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF
132800492	CAP_CER_X5R_100V_10%_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF_0.001UF
1328000093	CAP_X5R_0.022UF_0.022UF_0.022UF_0.022UF_0.022UF_0.022UF_0.022UF_0.022UF
132800225	CAP_CER_X5R_0.047UF_0.047UF_0.047UF_0.047UF_0.047UF_0.047UF_0.047UF_0.047UF
1328000076	CAP_CER_X5R_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF
1318008452	CAP_CER_X5R_0.22UF_0.22UF_0.22UF_0.22UF_0.22UF_0.22UF_0.22UF_0.22UF
1318008470	CAP_CER_X5R_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF
1318008484	CAP_CER_X5R_0.33UF_0.33UF_0.33UF_0.33UF_0.33UF_0.33UF_0.33UF_0.33UF
1318003037	CAP_CER_X5R_0.5UF_0.5UF_0.5UF_0.5UF_0.5UF_0.5UF_0.5UF_0.5UF
1318001225	CAP_CER_X5R_0.7UF_0.7UF_0.7UF_0.7UF_0.7UF_0.7UF_0.7UF_0.7UF
131800223	CAP_CER_X5R_1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF
132802334	CAP_CER_X5R_1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF
131802220	CAP_CER_X5R_1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF
131800436	CAP_CER_X5R_2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF
131800216	CAP_CER_X5R_2.7UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF_0.27UF
13280396	CAP_CER_X5R_100UF_100UF_100UF_100UF_100UF_100UF_100UF_100UF
13280316	CAP_CER_X5R_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF_0.1UF
13280304	CAP_CER_X5R_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF_0.2UF
132803044	CAP_CER_X5R_0.3UF_0.3UF_0.3UF_0.3UF_0.3UF_0.3UF_0.3UF_0.3UF
13280296	CAP_CER_X5R_100UF_100UF_100UF_100UF_100UF_100UF_100UF_100UF

Current as of D21 MCO 056-03352 REV 42

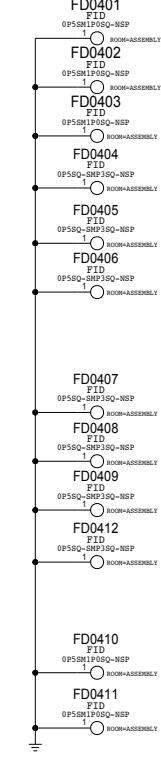
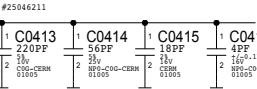
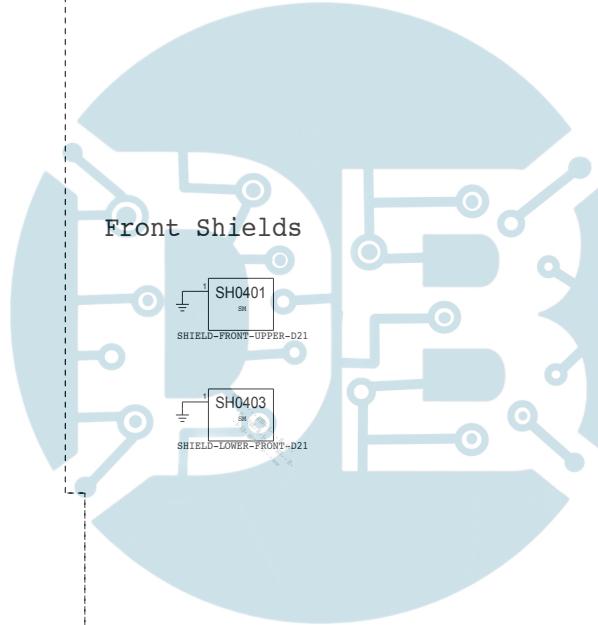
FIDUCIALS



Back Shields

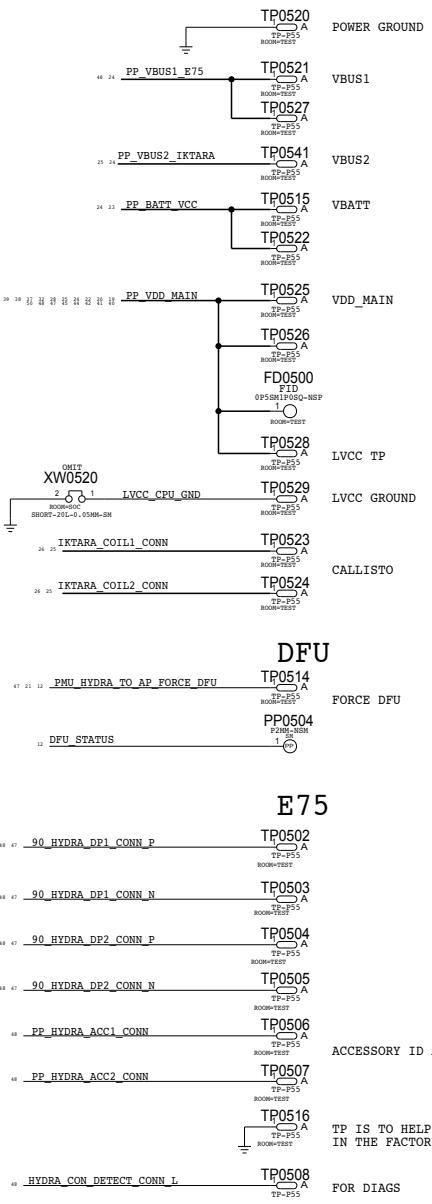


TOP SIDE

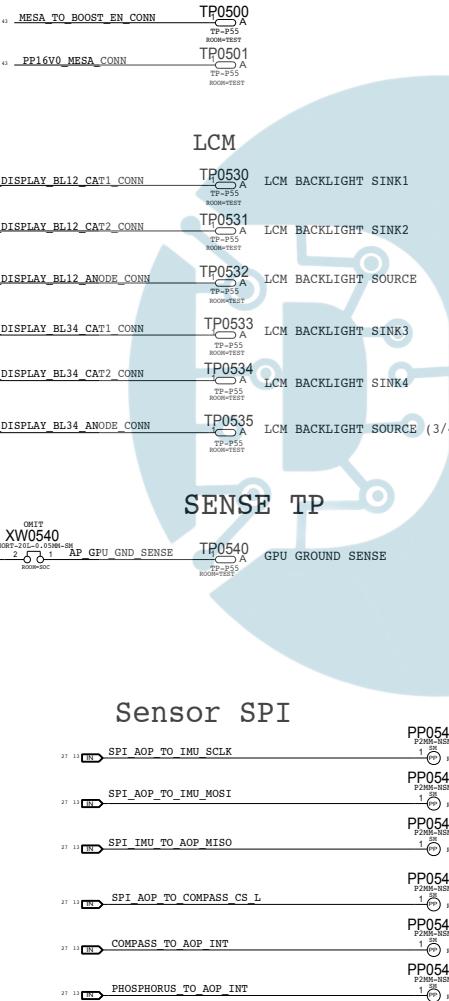


Test Points

POWER



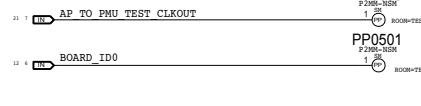
MOJAVE



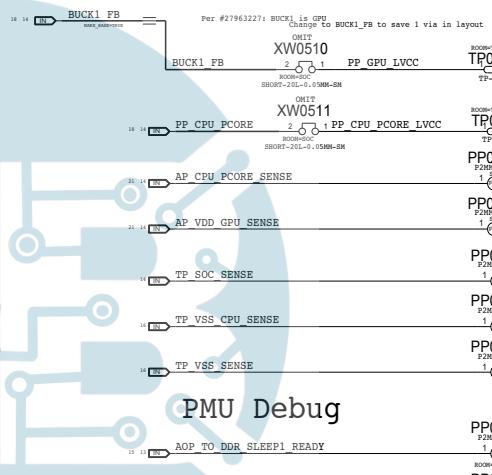
SENSE TP

Sensor SPI

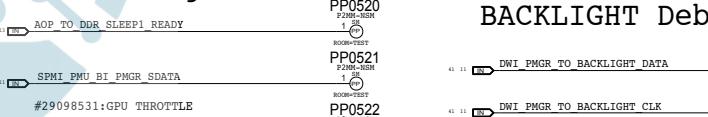
SOC Debug



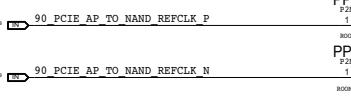
SOC CPU/GPU



PMU Debug

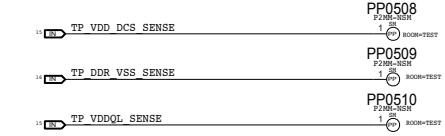


PCIE Refclk

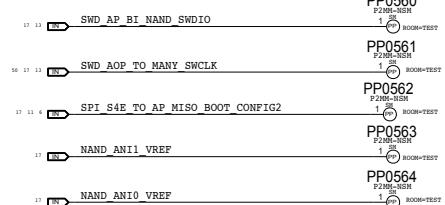


Probe Points

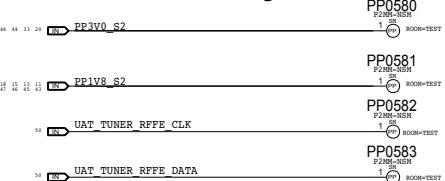
SOC DDR



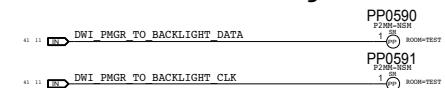
NAND Debug



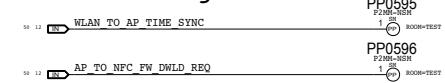
BB UAT Debug



BACKLIGHT Debug



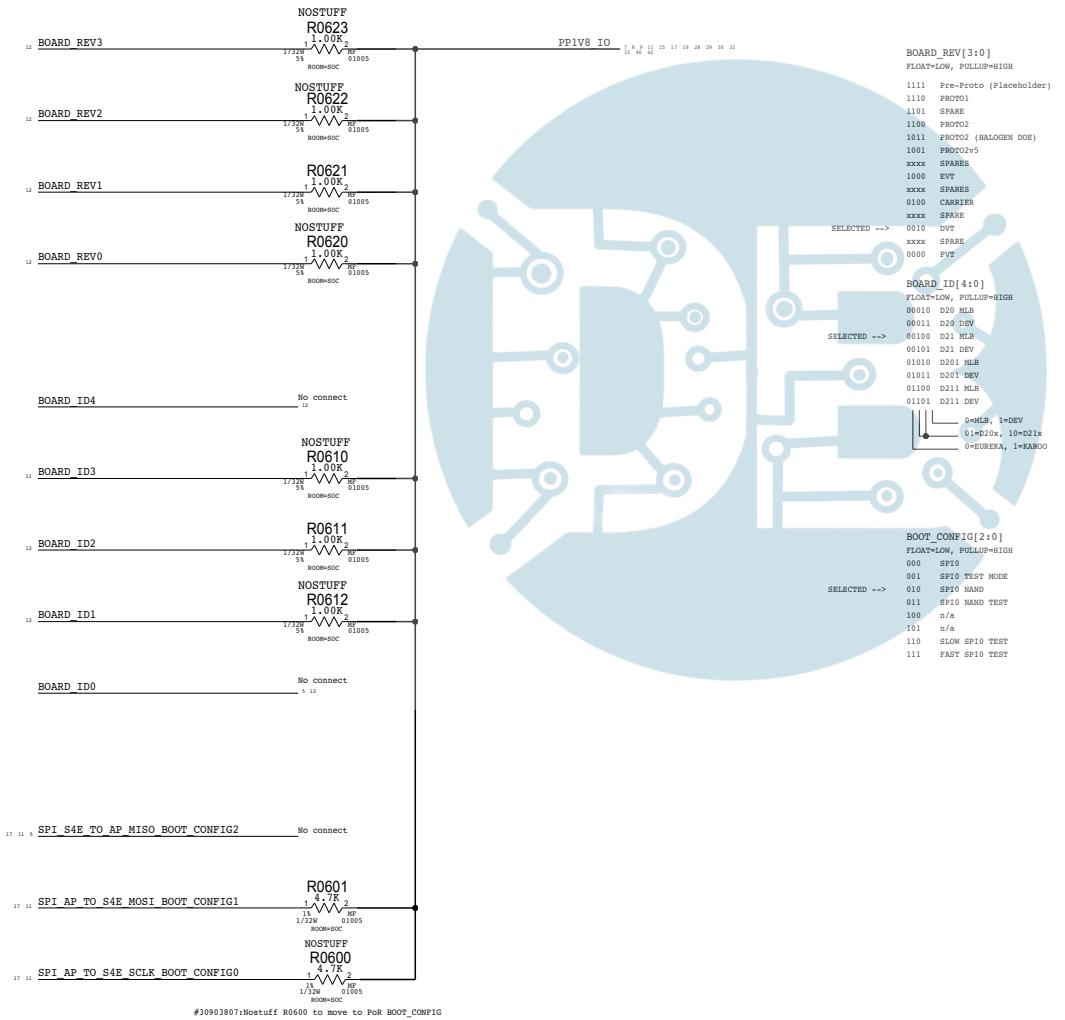
RF Debug



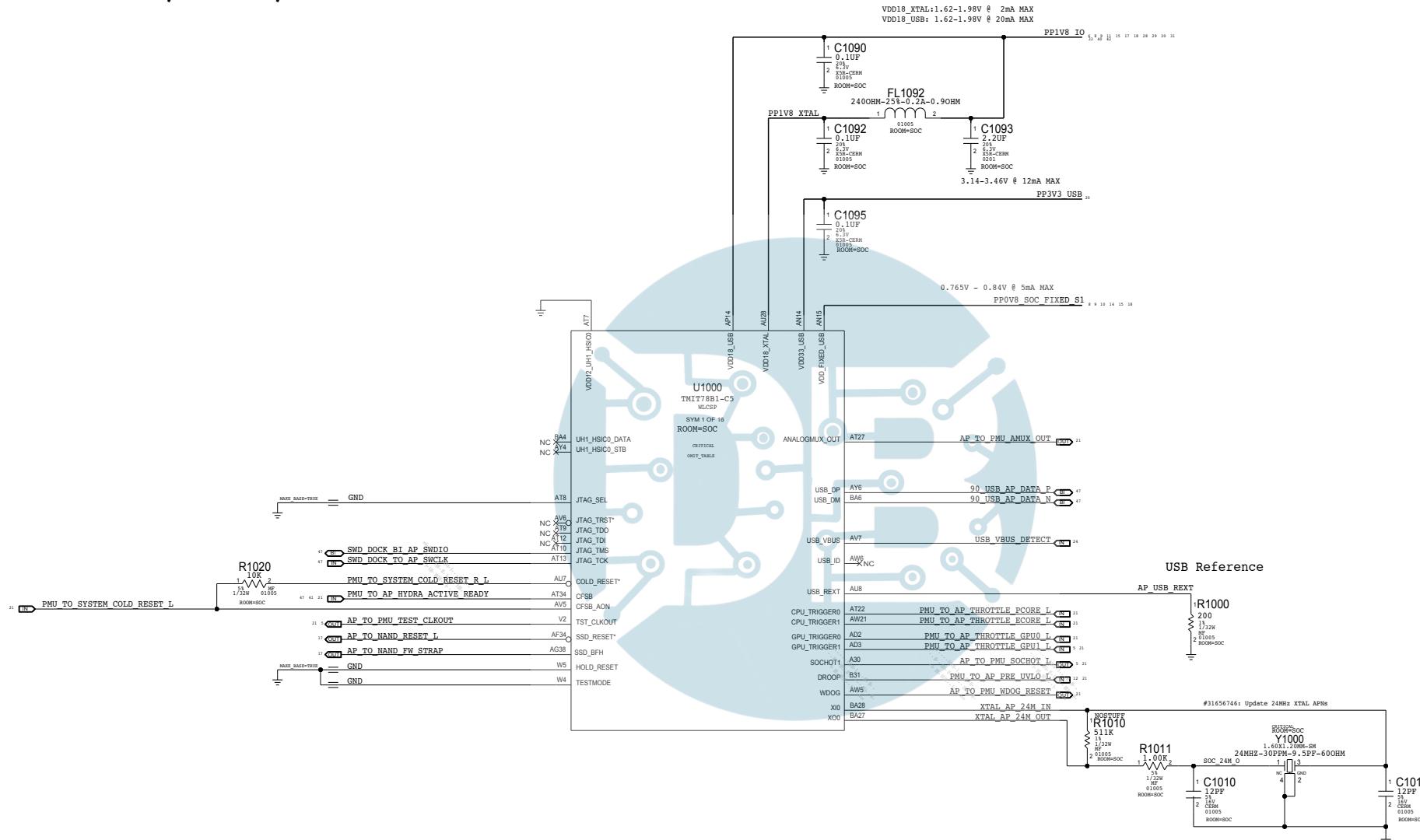
SYSTEM: Testpoints

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BOOTSTRAPPING:BOARD REV BOARD ID BOOT CONFIG

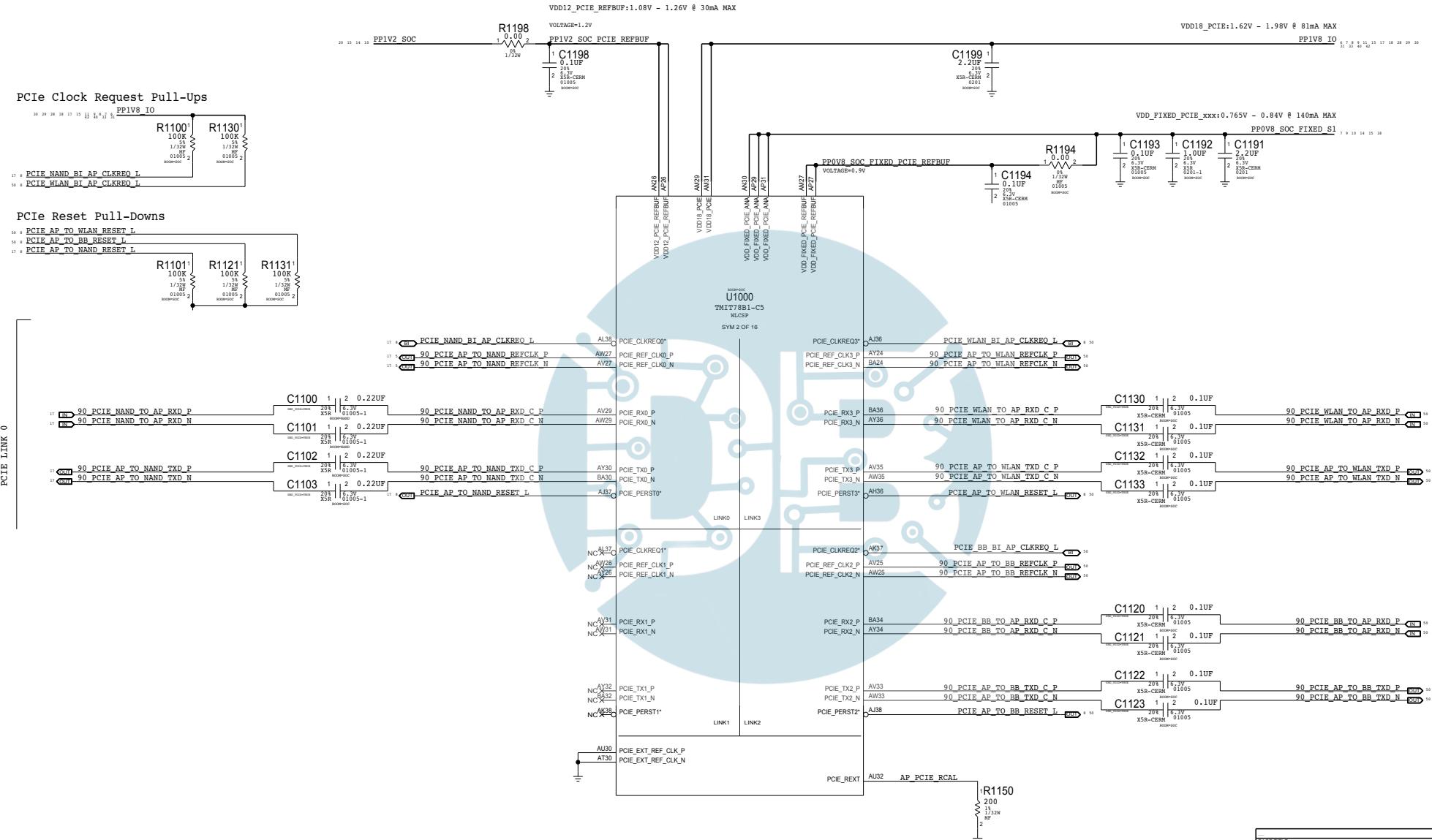


SOC - USB, JTAG, XTAL

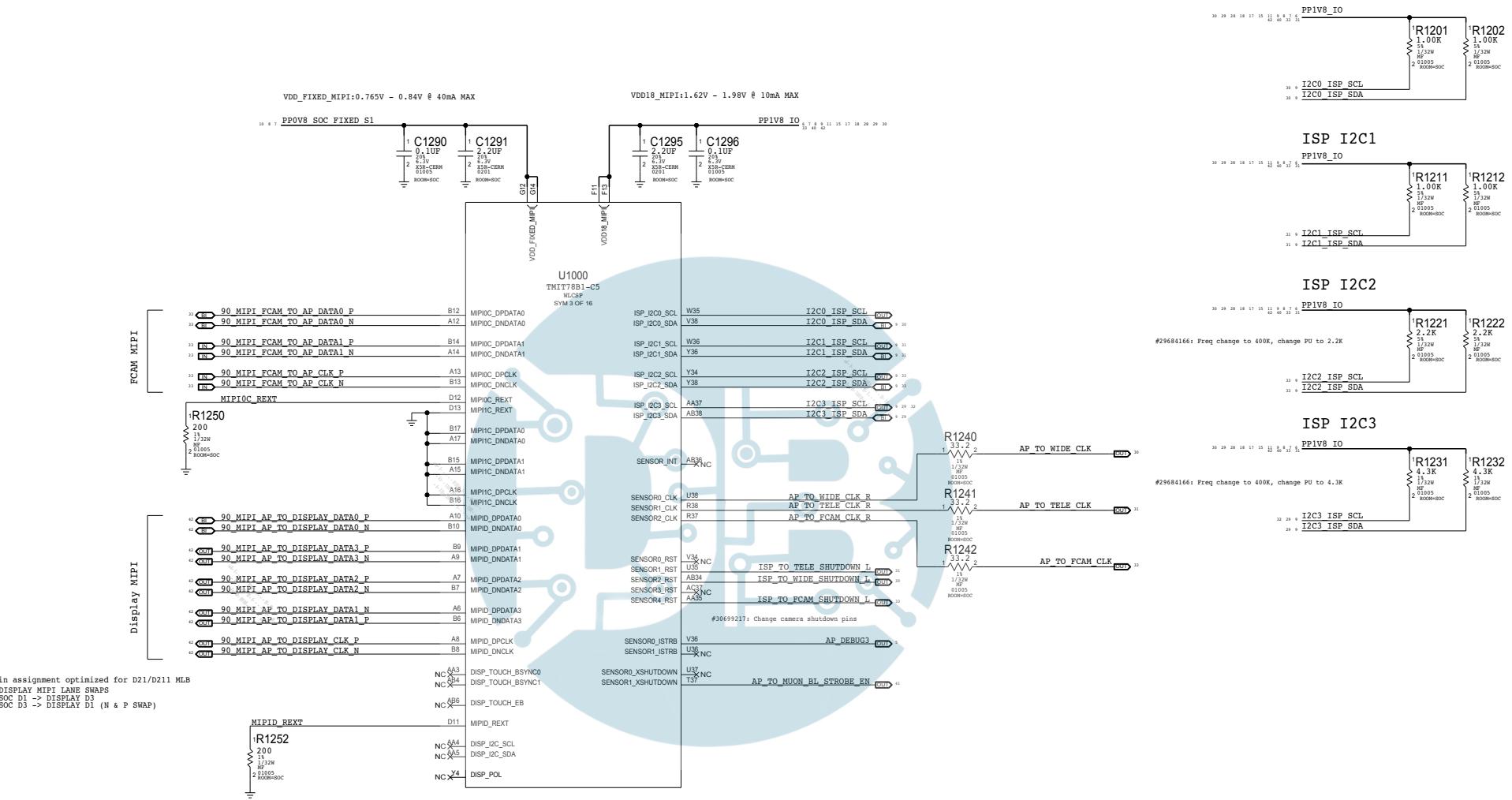


PAGE TITLE	SOC: JTAG,USB,XTAL		ISSUE NUMBER	DATE
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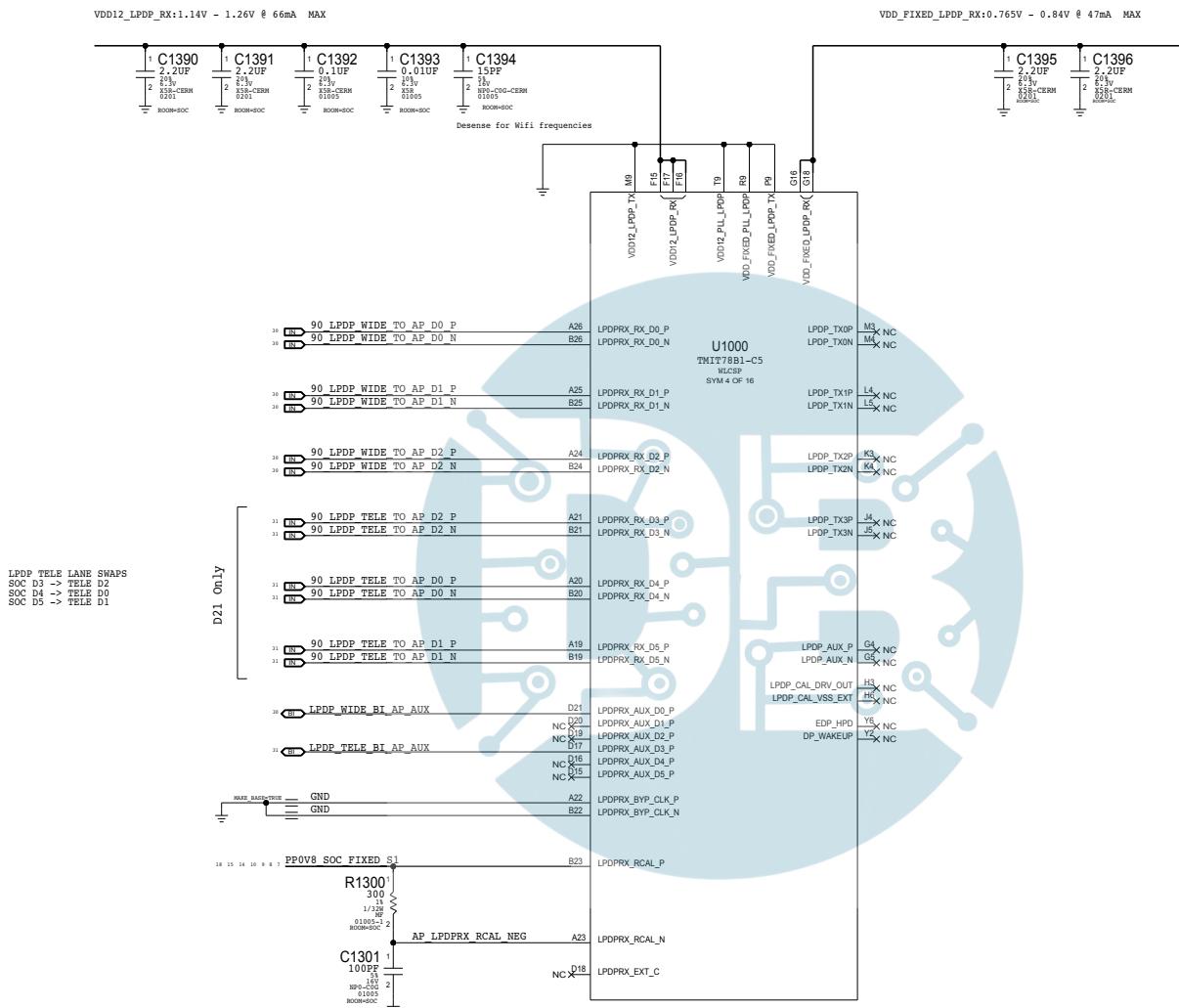
SOC - PCIE INTERFACES



SOC - MIPI & ISP INTERFACES

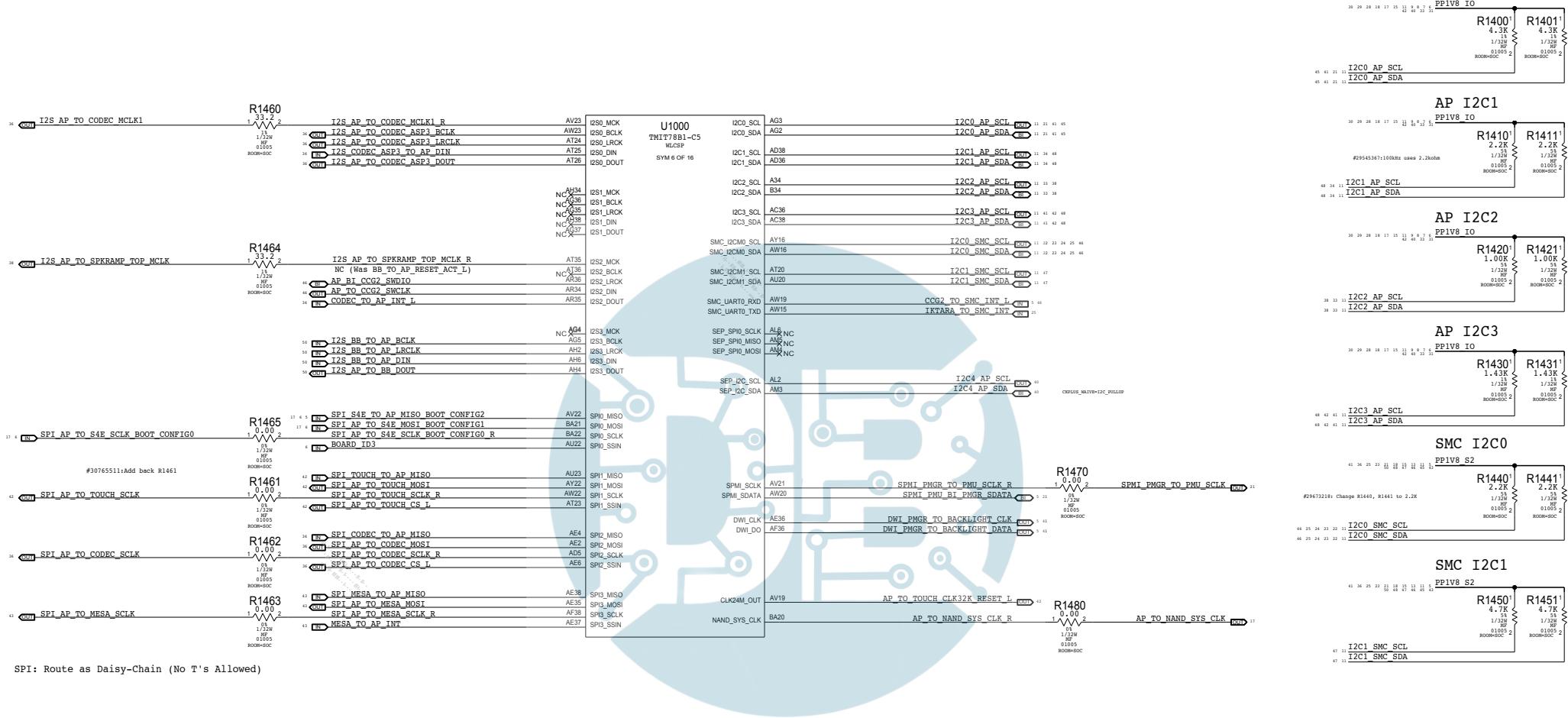


SOC - LPDP INTERFACES

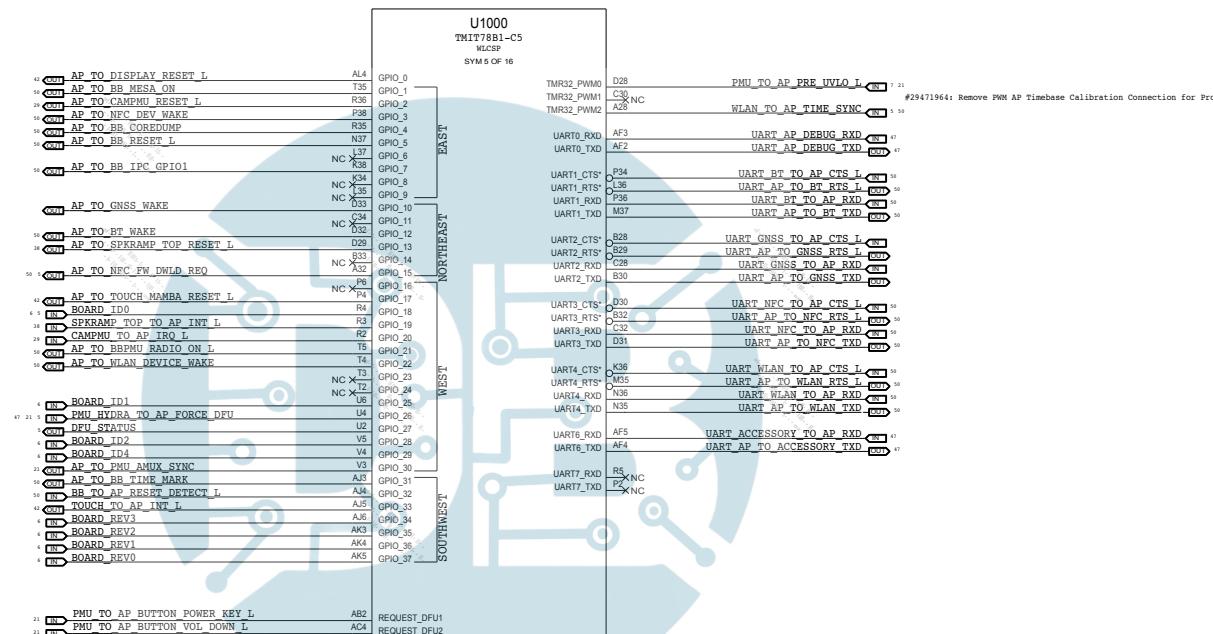


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SOC: LPDP	051-02159	D
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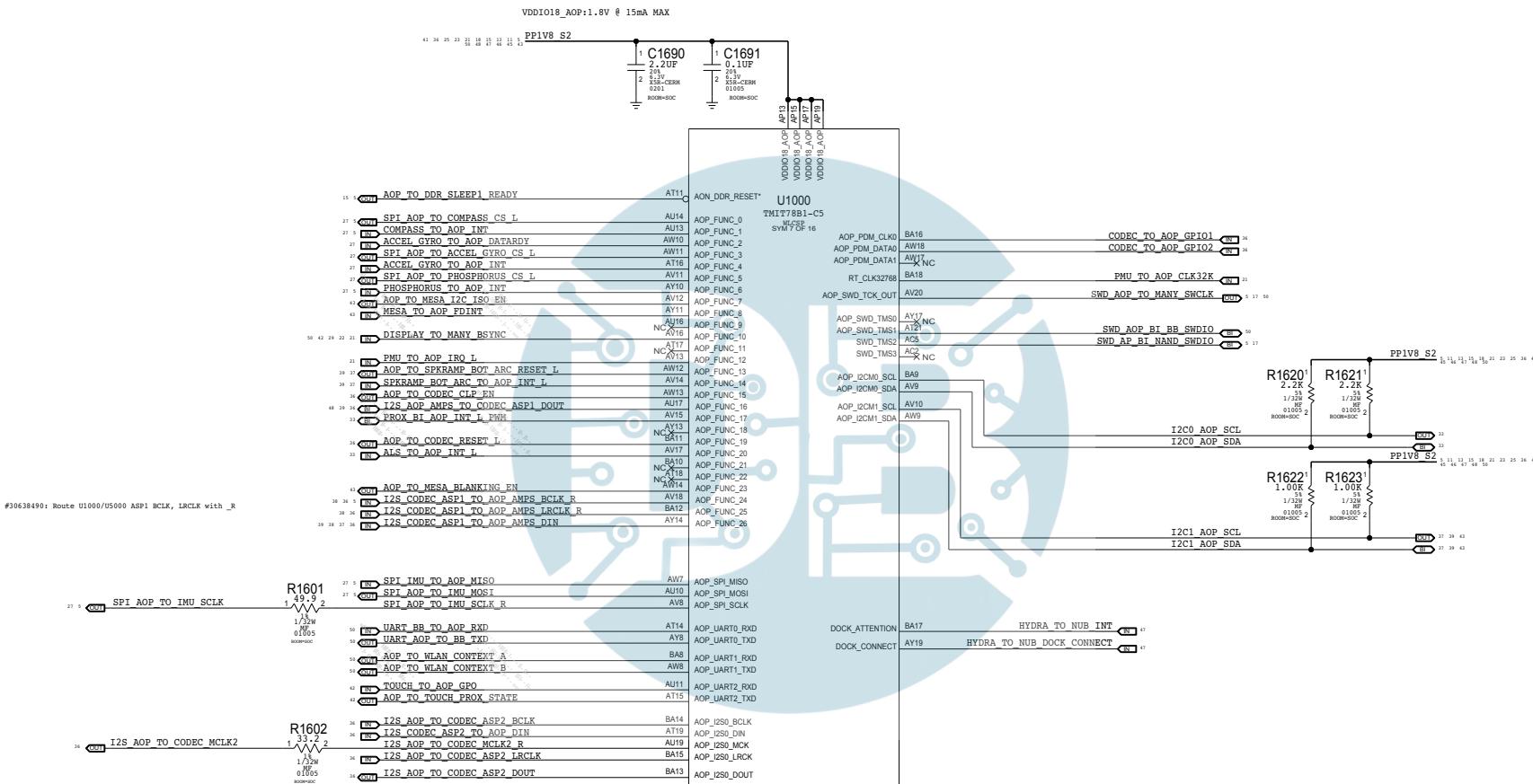
SOC - SERIAL INTERFACES



SOC - GPIO INTERFACES

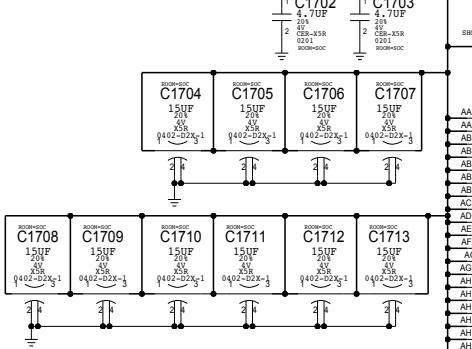


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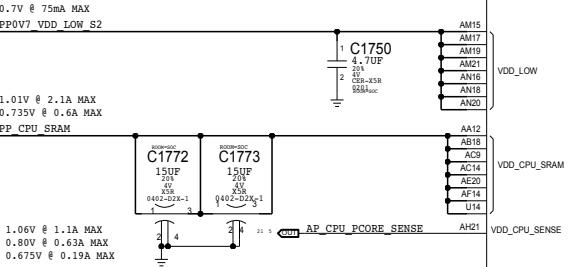


SOC - CPU, GPU & SOC RAILS

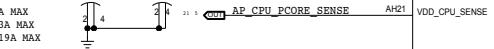
1.06V @ 11.0A MAX
0.8V @ 6A MAX
0.575V @ 2.7A MAX
PP CPU PCORE



1.06V @ 18.3A MAX
0.8V @ 10.6A MAX
0.575V @ 3.4A MAX
PP GPU



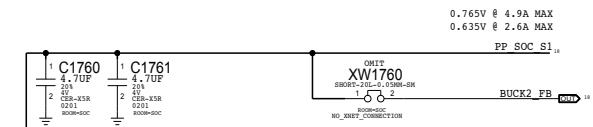
0.01V @ 2.1A MAX
0.735V @ 0.6A MAX
PP CPU SRAM



1.06V @ 1.1A MAX
0.80V @ 0.63A MAX
0.675V @ 0.19A MAX
PP GPU SRAM



1.06V @ 2.4A MAX
0.635V @ 2.6A MAX
PP SOC S1



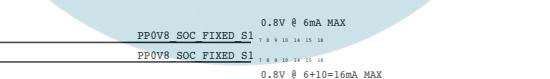
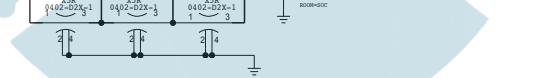
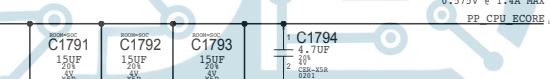
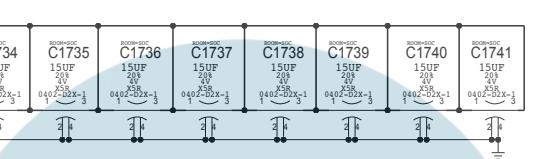
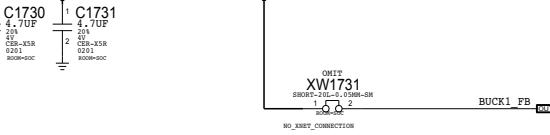
0.7V @ 75mA MAX
PP0V7 VDD_LOW S2

0.01V @ 2.1A MAX
0.735V @ 0.6A MAX
PP CPU SRAM

1.06V @ 1.1A MAX
0.80V @ 0.63A MAX
0.675V @ 0.19A MAX
PP GPU SRAM

1.06V @ 2.4A MAX
0.635V @ 2.6A MAX
PP SOC S1

1.06V @ 18.3A MAX
0.8V @ 10.6A MAX
0.575V @ 3.4A MAX
PP GPU



PAGE TITLE: SOC: Power (1/3)
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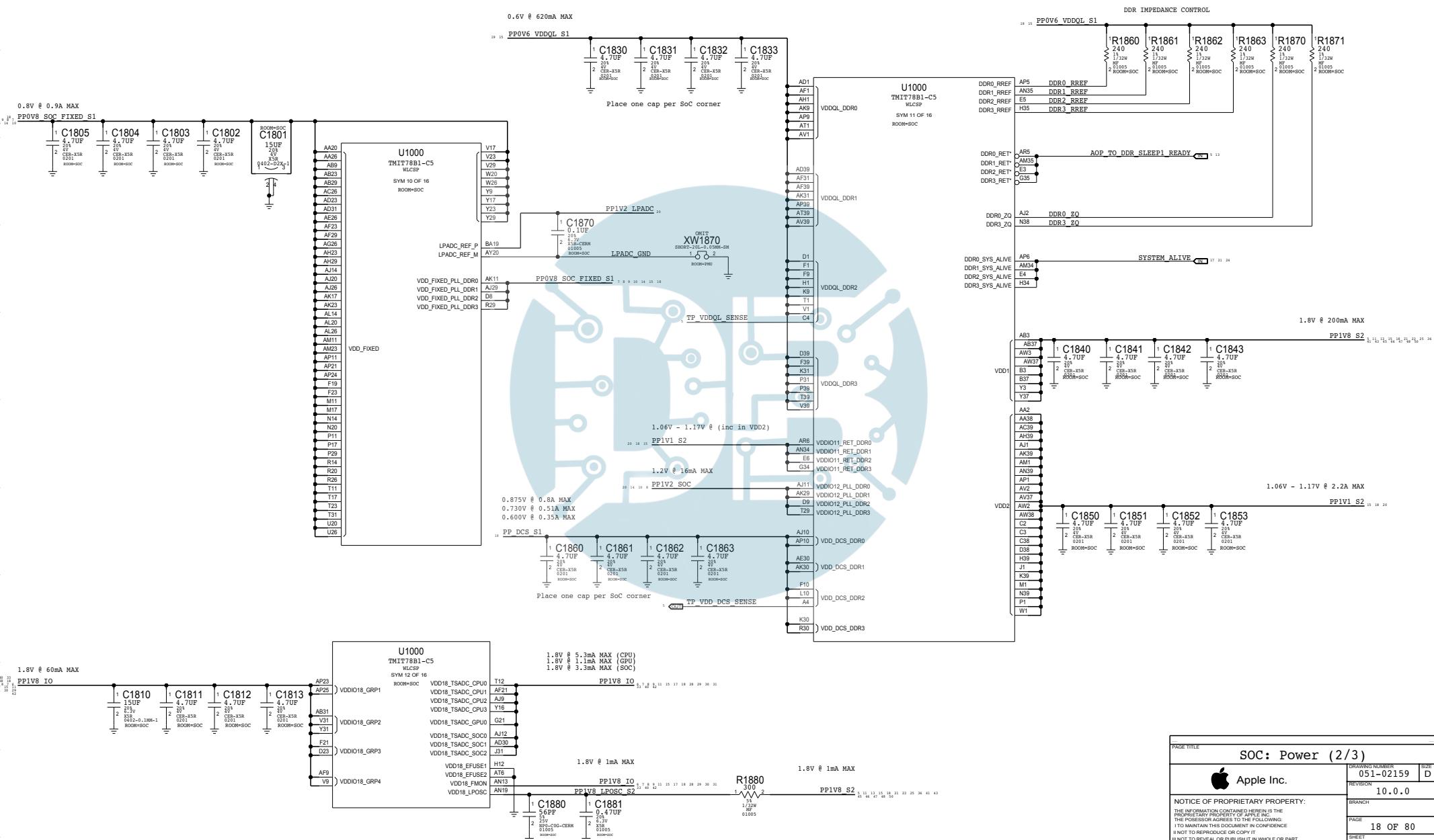
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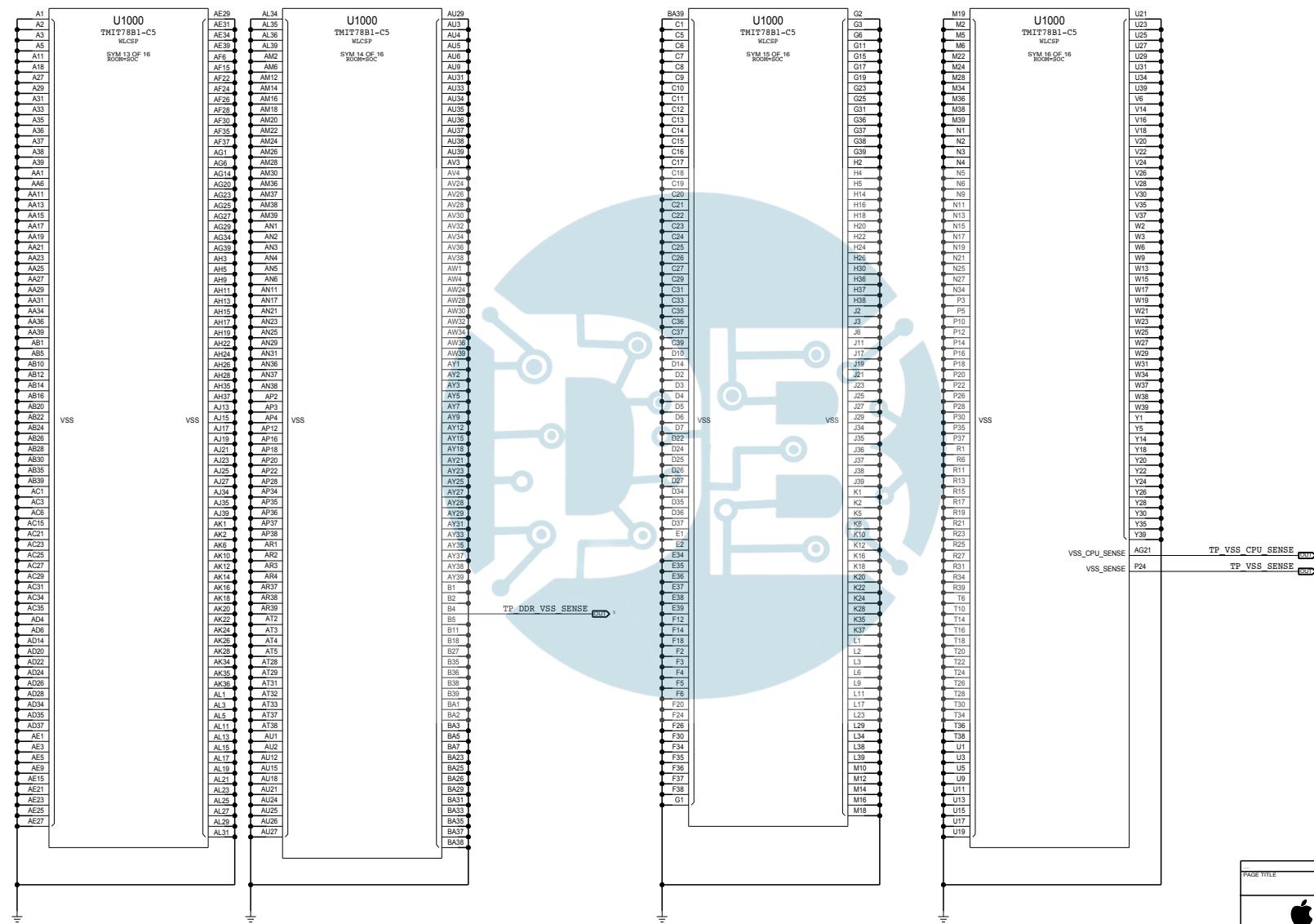
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SOC - POWER SUPPLIES



SOC - POWER SUPPLIES



METROCIRC

NORTH-SOUTH METROCIRC
339S00297

339S00297

0

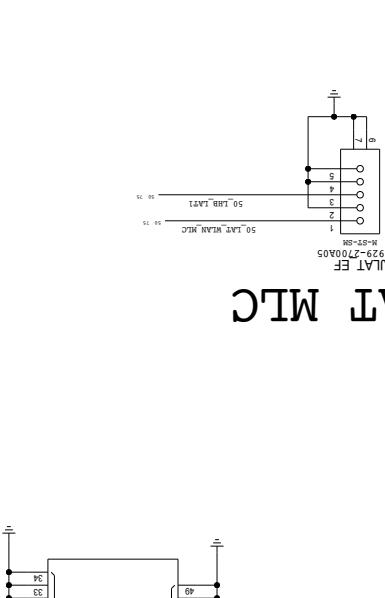
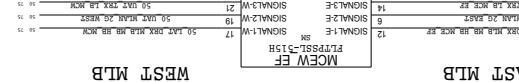
UPPER MLB
MCS-EF
TRANSISTOR
S101-A



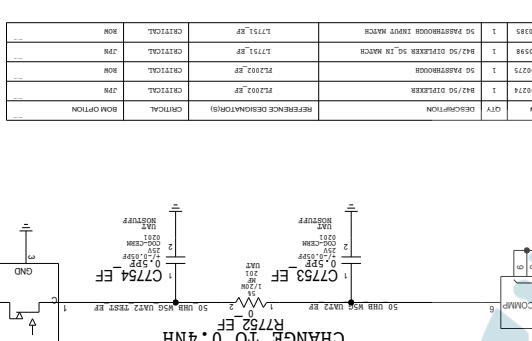
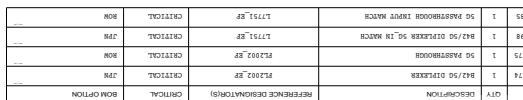
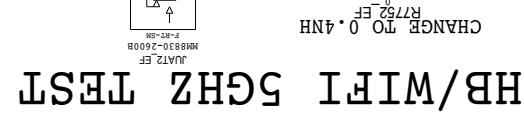
EAST-WEST METROCIRC

339S00296

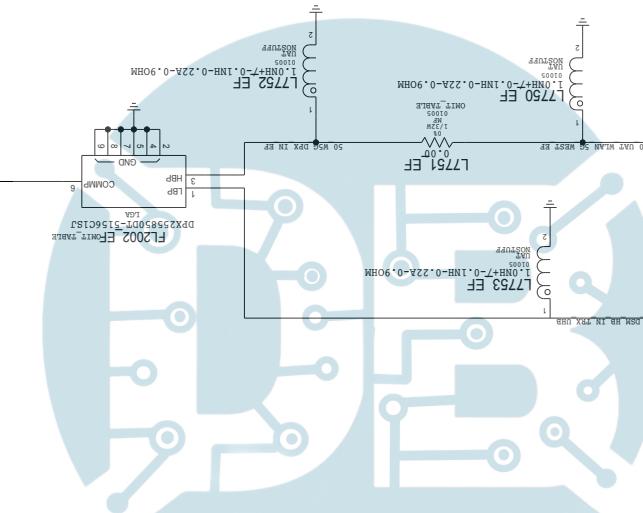
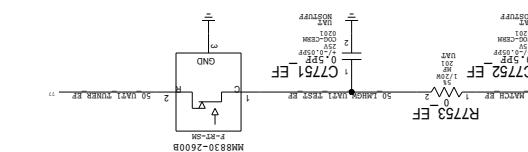
WEST MLB



UHB/WIFI 5GHz TEST



WIFI 2.4GHz TEST
LB/MLB/HB



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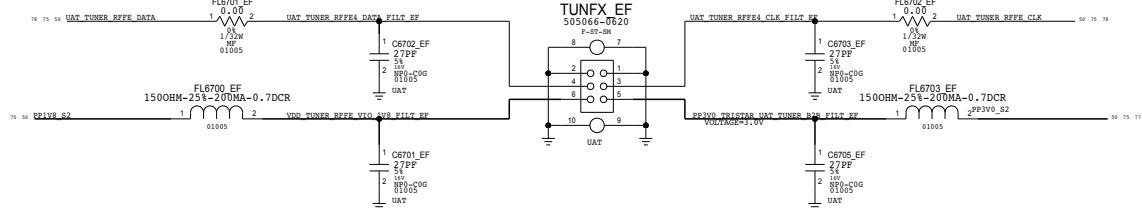


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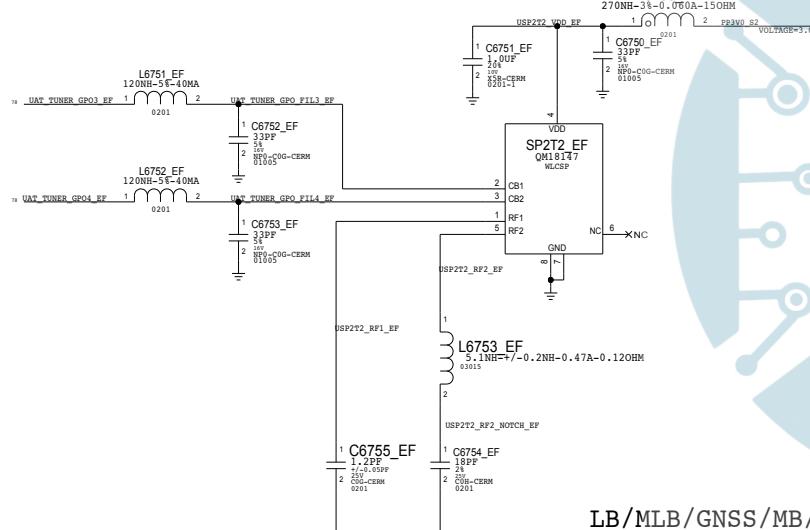
UAT TUNER FLEX

PLEASE CONTACT ANTENNA (MATT MOW)
FOR ANY COMPONENT CHANGE.



PINOUT IS ROTATED 180
COMPARED TO D20 & D201

UAT TUNER

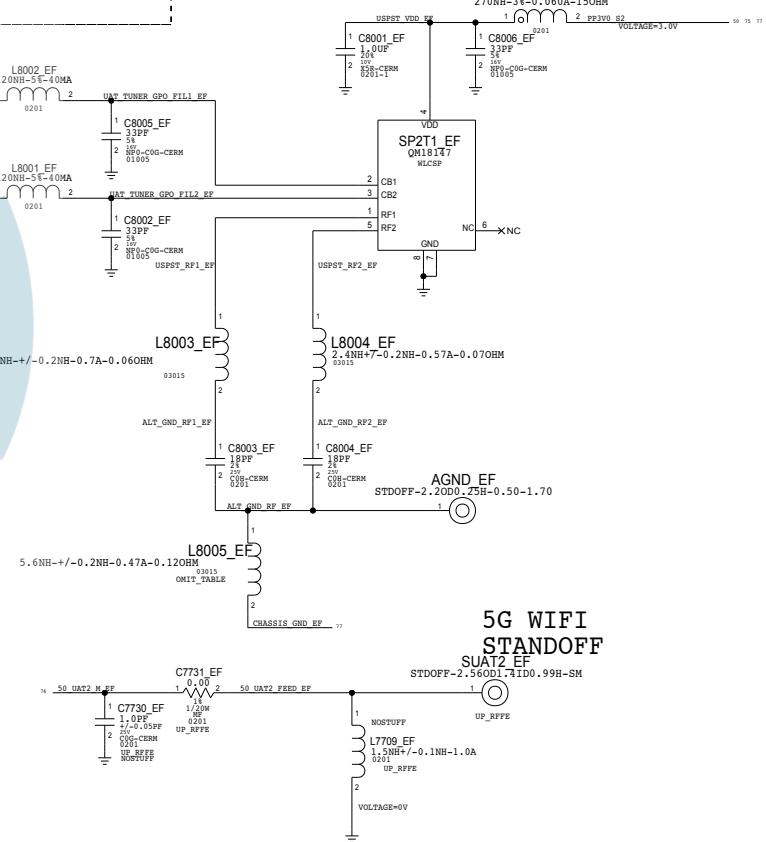


LB/MLB/GNSS/MB/HB STANDOFF

GROUND RING

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
15282140	1	4.1NH 03015 WN INDUCTOR	L8005_EF	CRITICAL	JPN
15280749	1	3.6NH 03015 WN INDUCTOR	L8005_EF	CRITICAL	ROW

ALT UAT1 GND



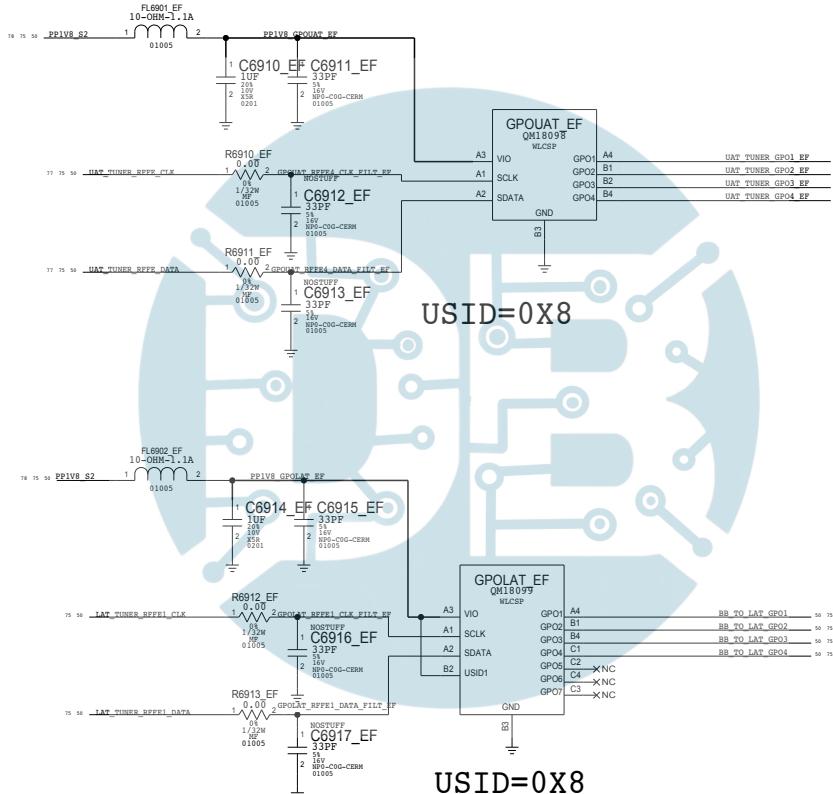
5G WIFI STANDOFF

SUAT2_EF

STD OFF-2.560D1.41D0.99H-SM

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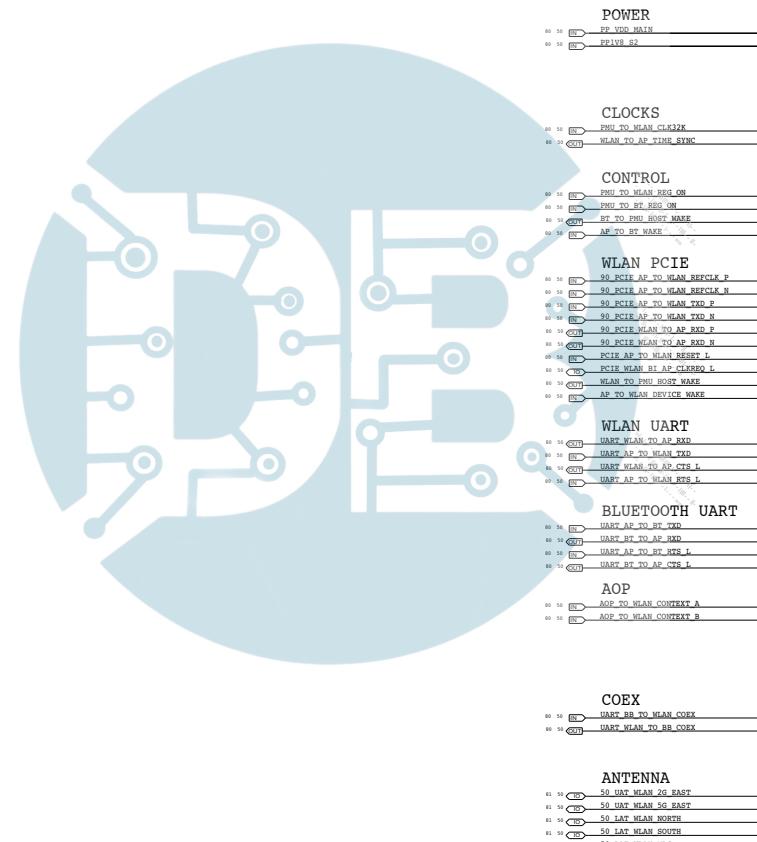


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D21X WIFI MLB (GUINNESS)

NOV 28, 2016

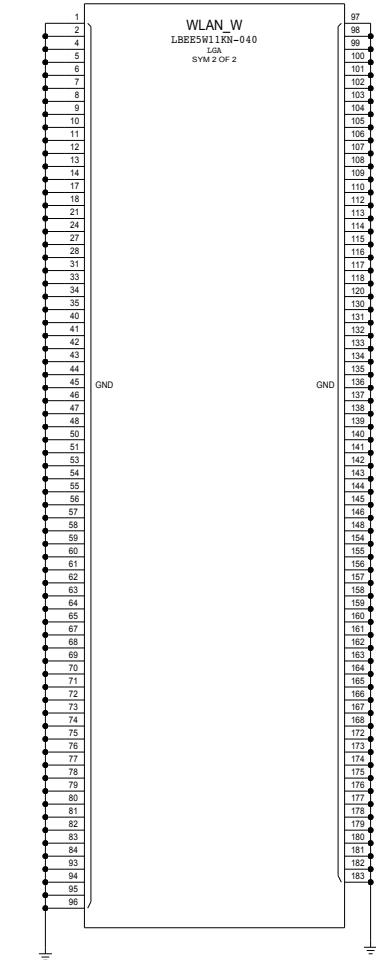
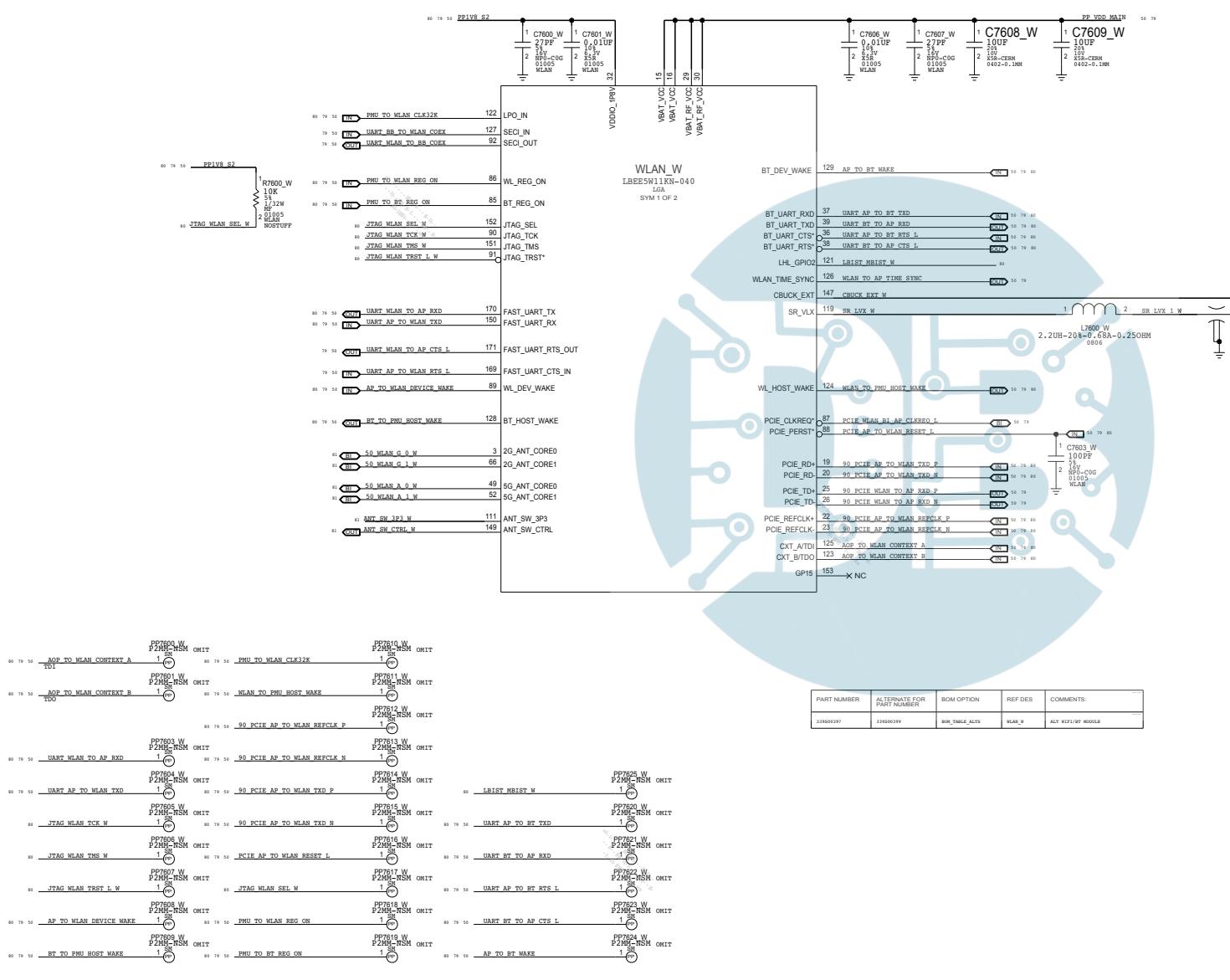
PDF PAGE	CSA PAGE	CONTENTS
2	76	GUINNESS
3	77	WIFI FRONT-END



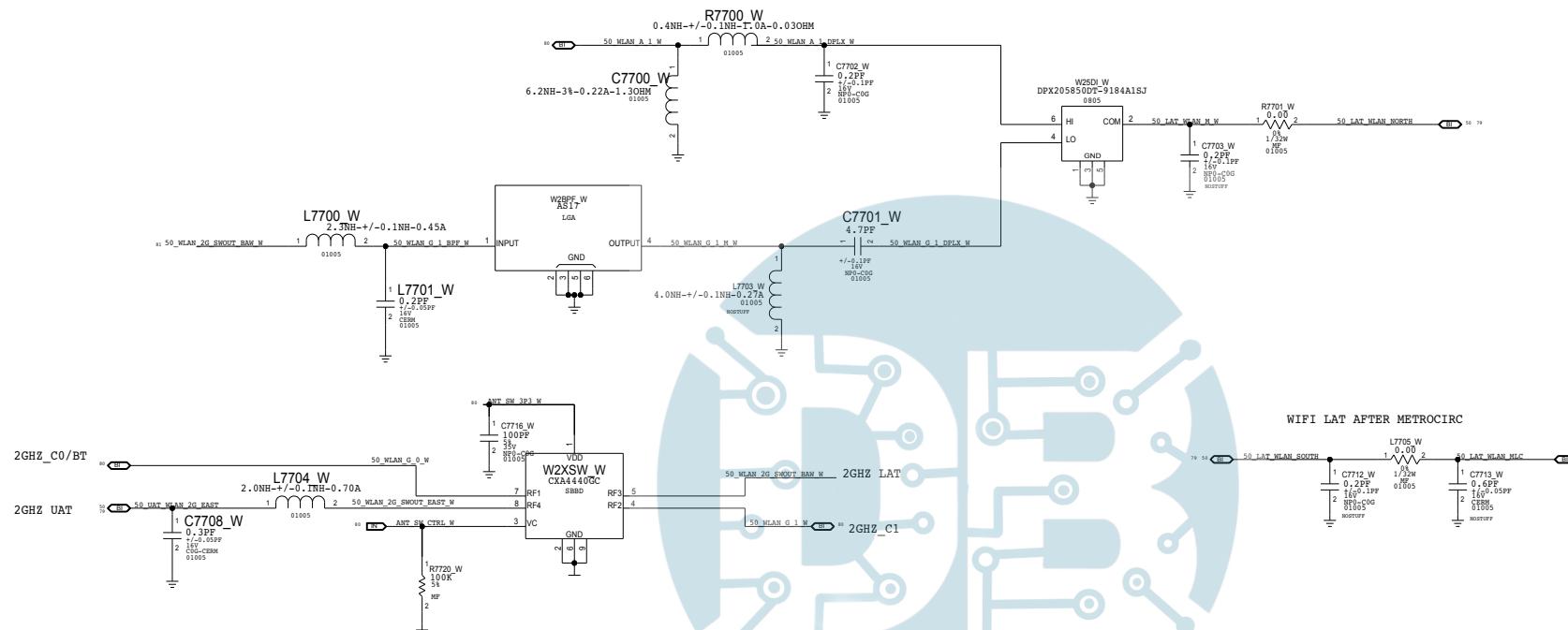
SymbolPorts

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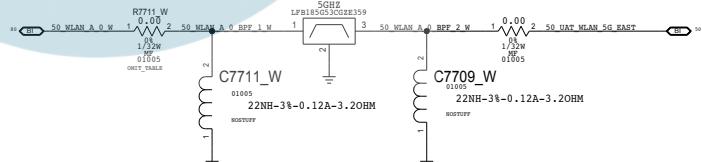
WIFI/BT



WIFI LOWER ANTENNA FEED



WIFI UPPER ANTENNA FEED



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152800498	1	5G CORE9 BPF MATCH	R7711_W	CRITICAL	E211
11780161	1	5G CORE9 BPF MATCH	R7711_M	CRITICAL	JPN
11780161	1	5G CORE9 BPF MATCH	R7711_W	CRITICAL	ROW