

MODEL NAME : ZIJI2
PCB NO : LA-811P
BOM P/N : xxxx



Compal Confidential

ZIJI2 Schematics Document

Intel Bay Trail

2014-06-03

REV: SOVP

BOM Structure Table

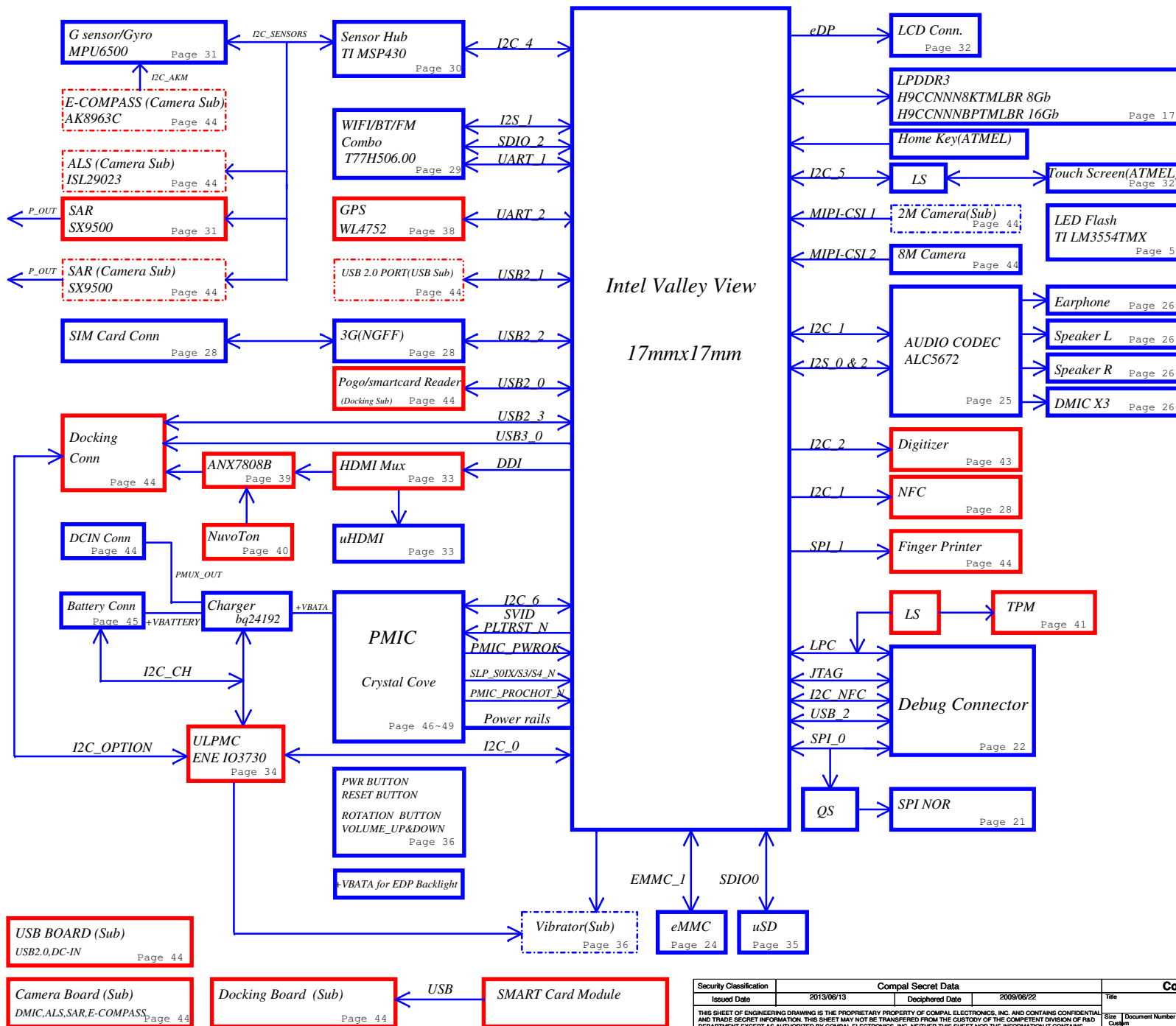
BTO Item	BOM Structure	ASM/NO ASM
@:Nopop Component	@	NO ASM
RF Reserved	@RF	NO ASM
3G WWAN SKU	3G@	ASM
WIFI Only SKU	WIFI@	ASM
EMI/ESD requirement	EMI@	ASM
RF requirement	RF@	ASM
Debug	DBG@	ASM
Debug	DBG@	NO ASM FOR SOVP, MP
Me conn	ME@	ASM
DIGI SKU	DIGI@	ASM
NFC SKU	NFC@	ASM

Revision history

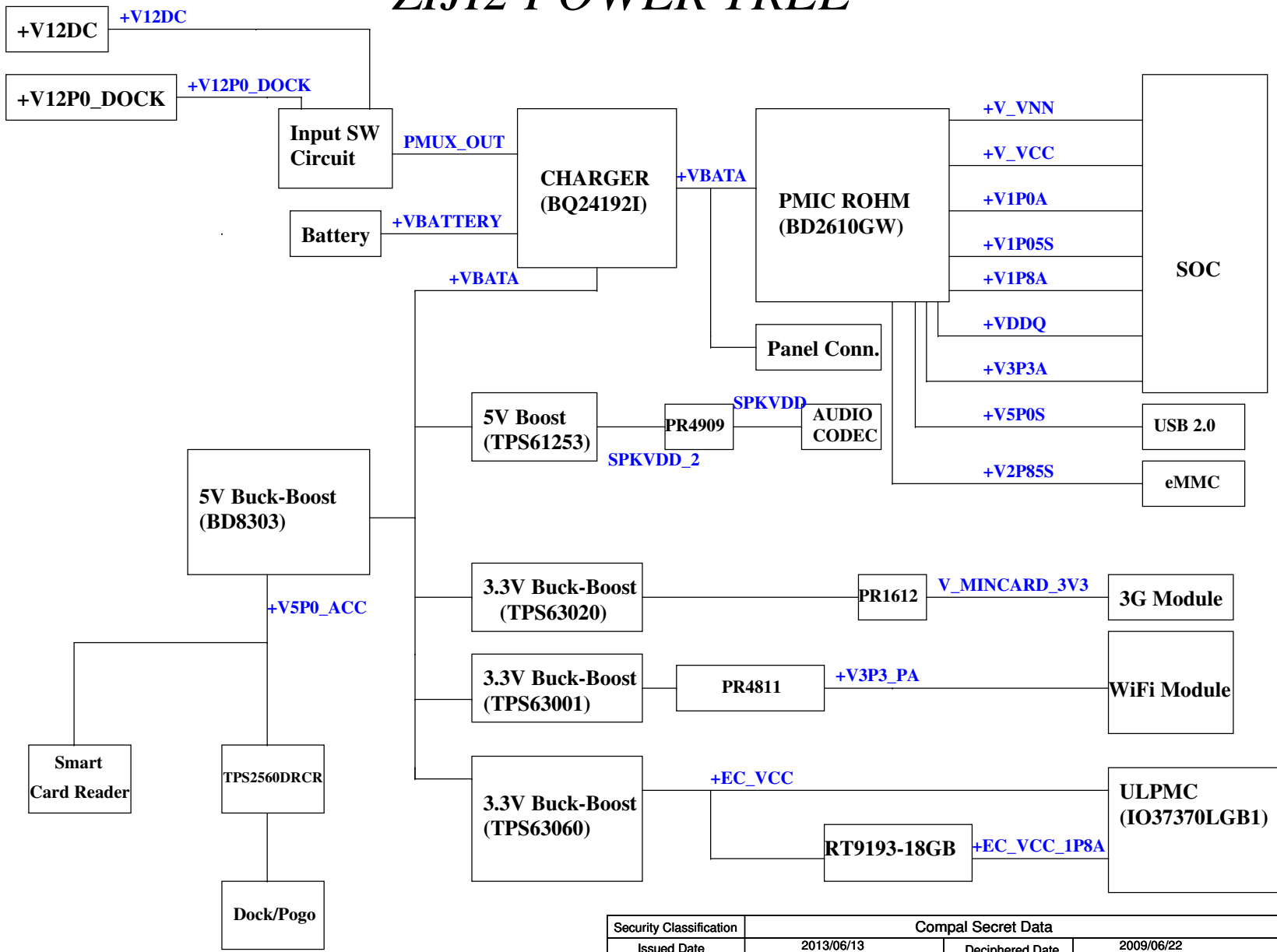
Version	Date	Description
SDV	2013/06/05	* Initial release
SDV-R	2013/07/22	
FVT-2	2013/08/06	
SIT	2013/11/08	
SVT	2013/12/28	
SOVP	2014/03/17	
SOVP_0520	2014/05/20	Cut in ECR 140520_01(Richtek PW IC rework)
SOVP_0603	2014/06/03	Cut in ECR 140603_01(Remove R527)

Ella Bay Trail-T Block Diagram

LS-----Level Shifter

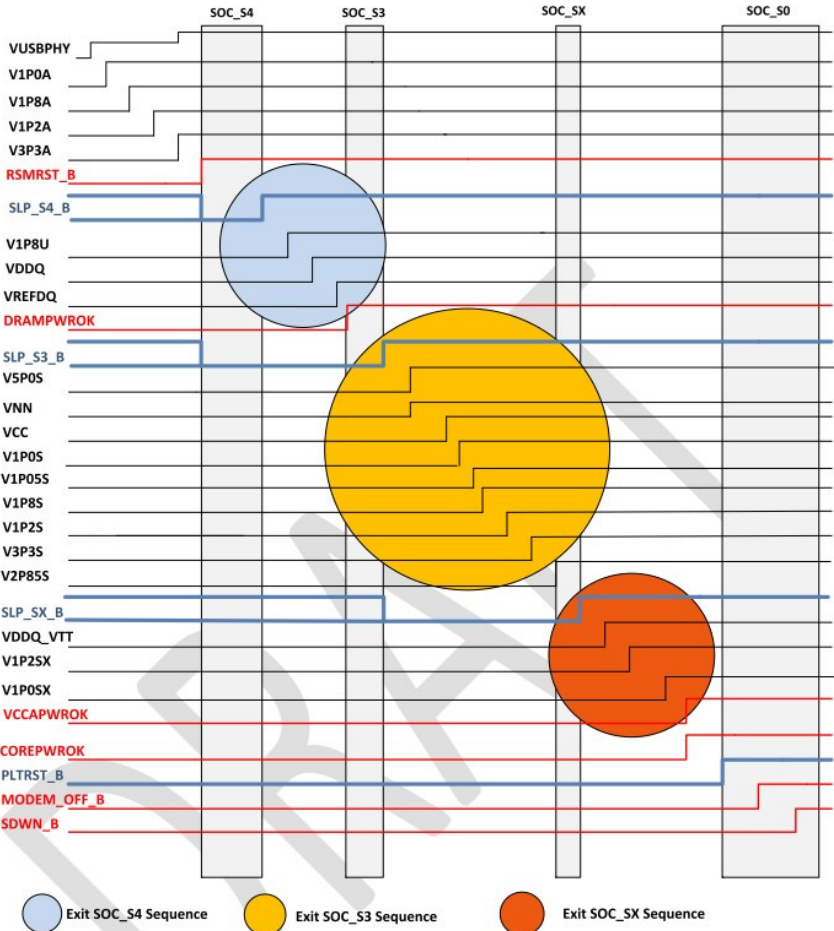


ZIJI2 POWER TREE



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								Size	Document Number			ELLA LA-A811P		Rev
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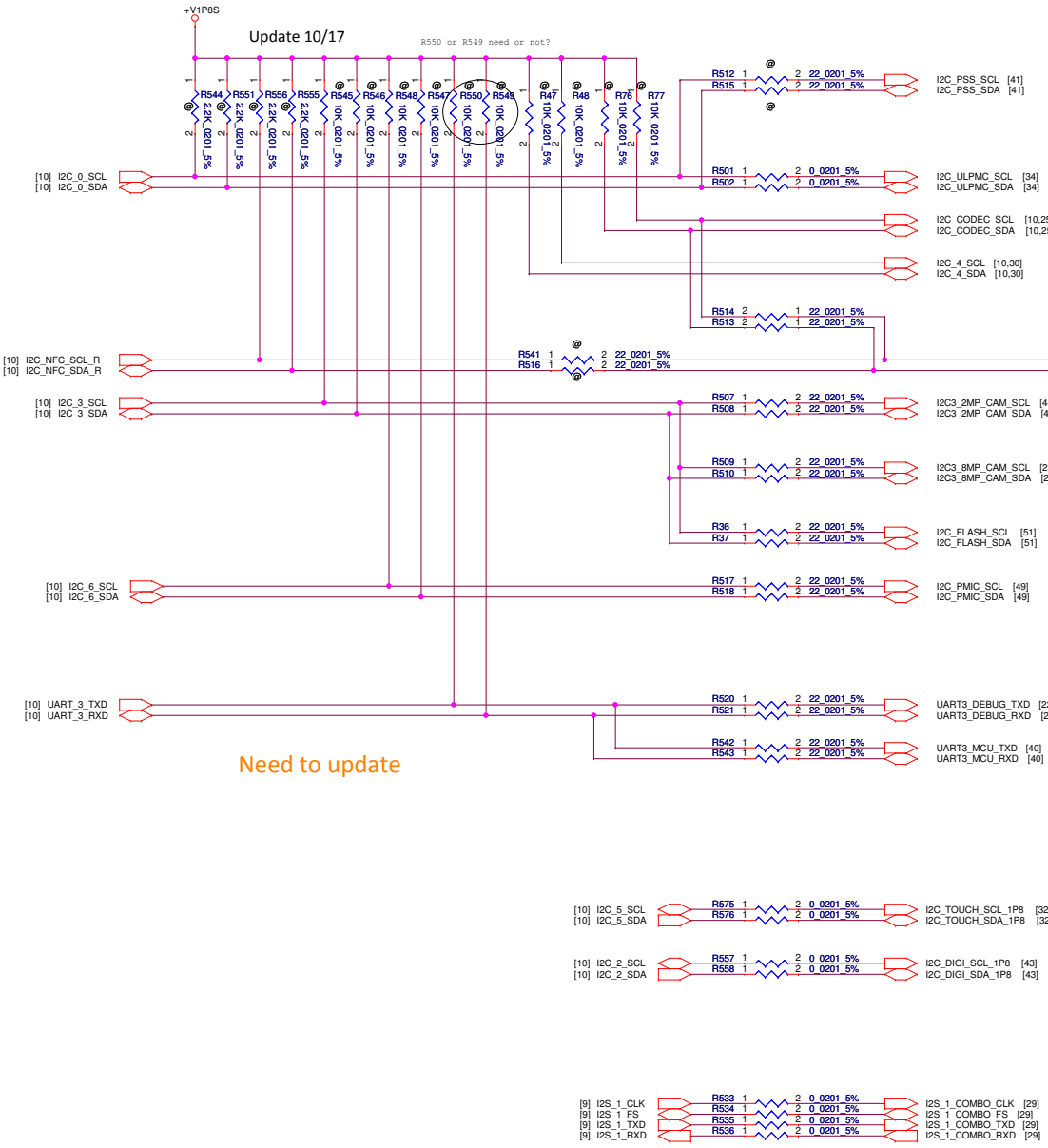
V0JV3 POWER SEQUENCE



Voltage Rail ON/OFF On Various Power States

Num.	Voltage domain	Supply Module	PWR TYPE	S0	S0ix	S3	S4/5	G3
1	+VCC	VLV2	SVID BUCK	ON	OFF	OFF	OFF	OFF
2	+VNN	VLV2	SVID BUCK	ON	ON	OFF	OFF	OFF
3	+V1PoA	VLV2	BUCK	ON	ON	ON	ON	OFF
4	+V1Po5S	VLV2	BUCK	ON	ON	OFF	OFF	OFF
5	+V1P8A	VLV2	BUCK	ON	ON	ON	ON	OFF
6	+VDDQ	VLV2/DDR	BUCK	ON	ON	ON	OFF	OFF
7	+V3P3A	VLV2, Peripheral	BUCK-BOOST	ON	ON	ON	ON	OFF
8	+V2P85S	Peripheral	BUCK-BOOST	ON	ON	OFF	OFF	OFF
9	+V5PoS	Peripheral	BOOST	ON	ON	OFF	OFF	OFF
10	+VSDIO	Peripheral	FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
11	+VDDQ_VTT	DDR3	LDO	ON	OFF	OFF	OFF	OFF
12	+V1P2A	VLV2	LDO	ON	ON	ON	ON	
13	+VREF		LDO					
14	+VUSBPHY	Peripheral	FET SW	ON	ON	ON	ON	ON
15	+VSYS_U	Peripheral	EXT FET SW	ON/OFF	ON/OFF	ON	OFF	OFF
16	+VSYS_S		FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
17	+V1P2S		FET SW	ON	ON	OFF	OFF	OFF
18	+V1P2SX		FET SW	ON	OFF	OFF	OFF	OFF
19	+V1P8S	VLV2	FET SW	ON	ON	OFF	OFF	OFF
20	+V1P8SX		FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
21	+V2P85SX	Peripheral	FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
22	+V3P3U	Peripheral	EXT FET	ON/OFF	ON/OFF	ON	OFF	OFF
23	+VHDMI	Peripheral	FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
24	+V1P8U	Peripheral	EXT FET SW	ON	ON	ON	OFF	OFF
25	+V1PoS	VLV2	EXT FET SW	ON	ON	OFF	OFF	OFF
26	+V1PoSX	VLV2	EXT FET SW	ON	OFF	OFF	OFF	OFF
27	+V3P3S	VLV2	EXT FET SW	ON	ON	OFF	OFF	OFF
28	+VBUS	Peripheral	EXT SW	ON/OFF	ON/OFF	OFF	OFF	OFF
29	+VSYS_SX	Peripheral	EXT FET SW	ON/OFF	ON/OFF	OFF	OFF	OFF
30	+VREFDQ0		LDO	ON	ON	OFF	OFF	OFF
31	+VREFDQ1		LDO	ON	ON	ON	OFF	OFF

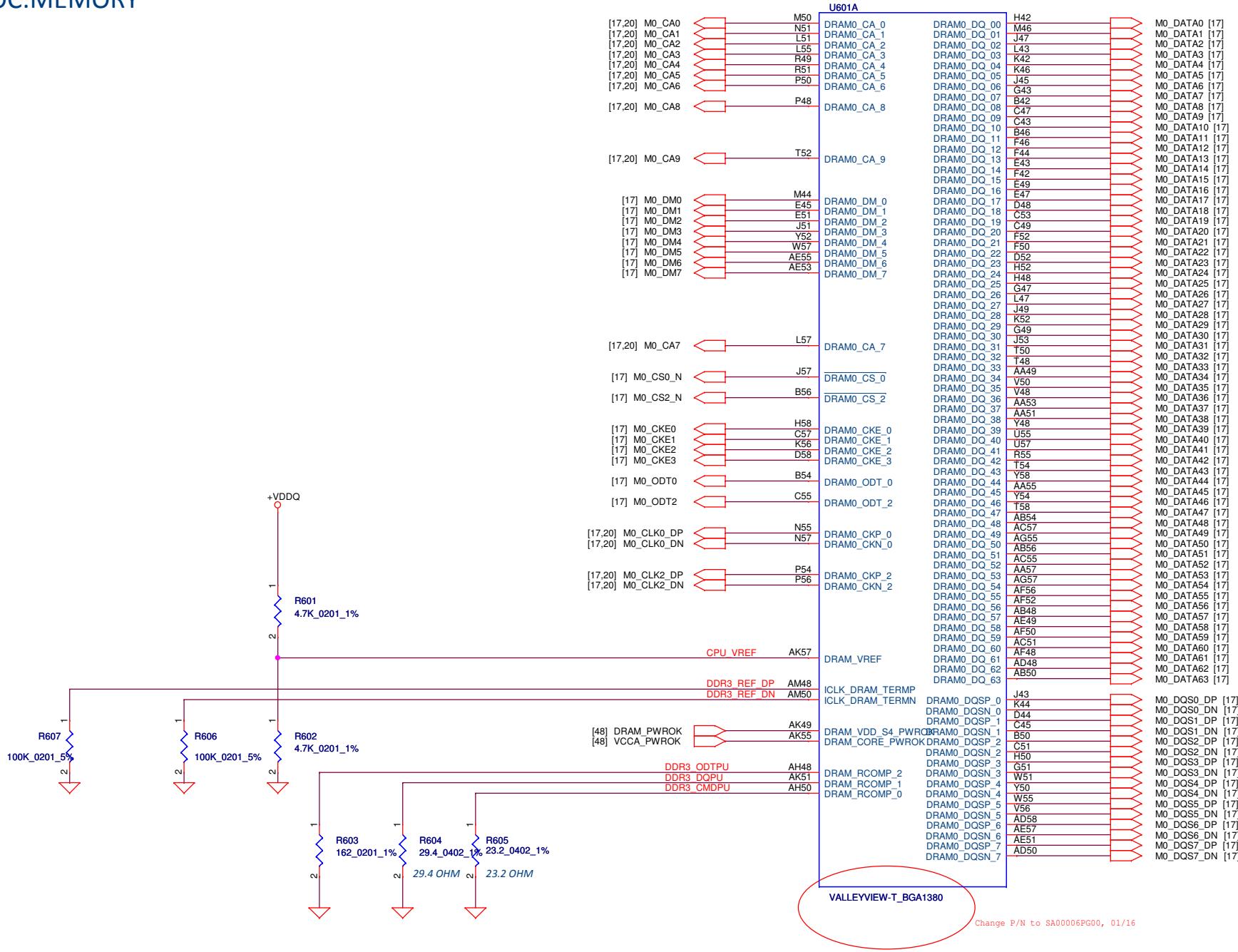
I2C & I2S MAP



I2C Mapping	
I2C_0	ULPMC, PSS
I2C_1	Audio Codec
I2C_2	Digitizer
I2C_3	Camera
I2C_4	Sensor Hub
I2C_5	Touch Sensor
I2C_6	PMIC
I2C_NFC	NFC, Debug

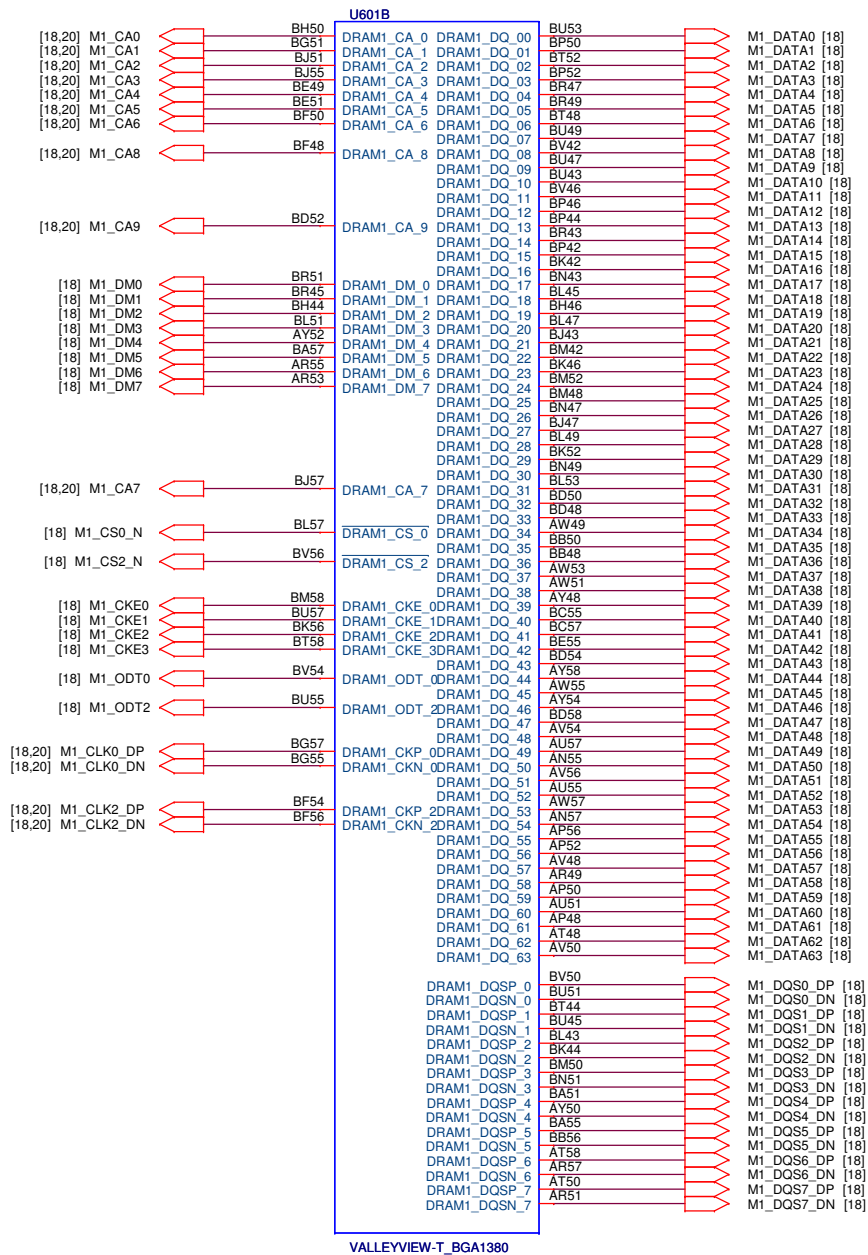
	SOC Port#	ZIJ12
USB3.0	0	
	DEV 0	
USB2.0	0	USB2.0 PORT:Cradle
	1	STD USB
	2	NGFF
	3	POGO
SDIO	1	W/L
	2	micro SD
I2S	0	CODEC
	1	BT
	2	CODEC

SOC:MEMORY



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SOC:MEMORY



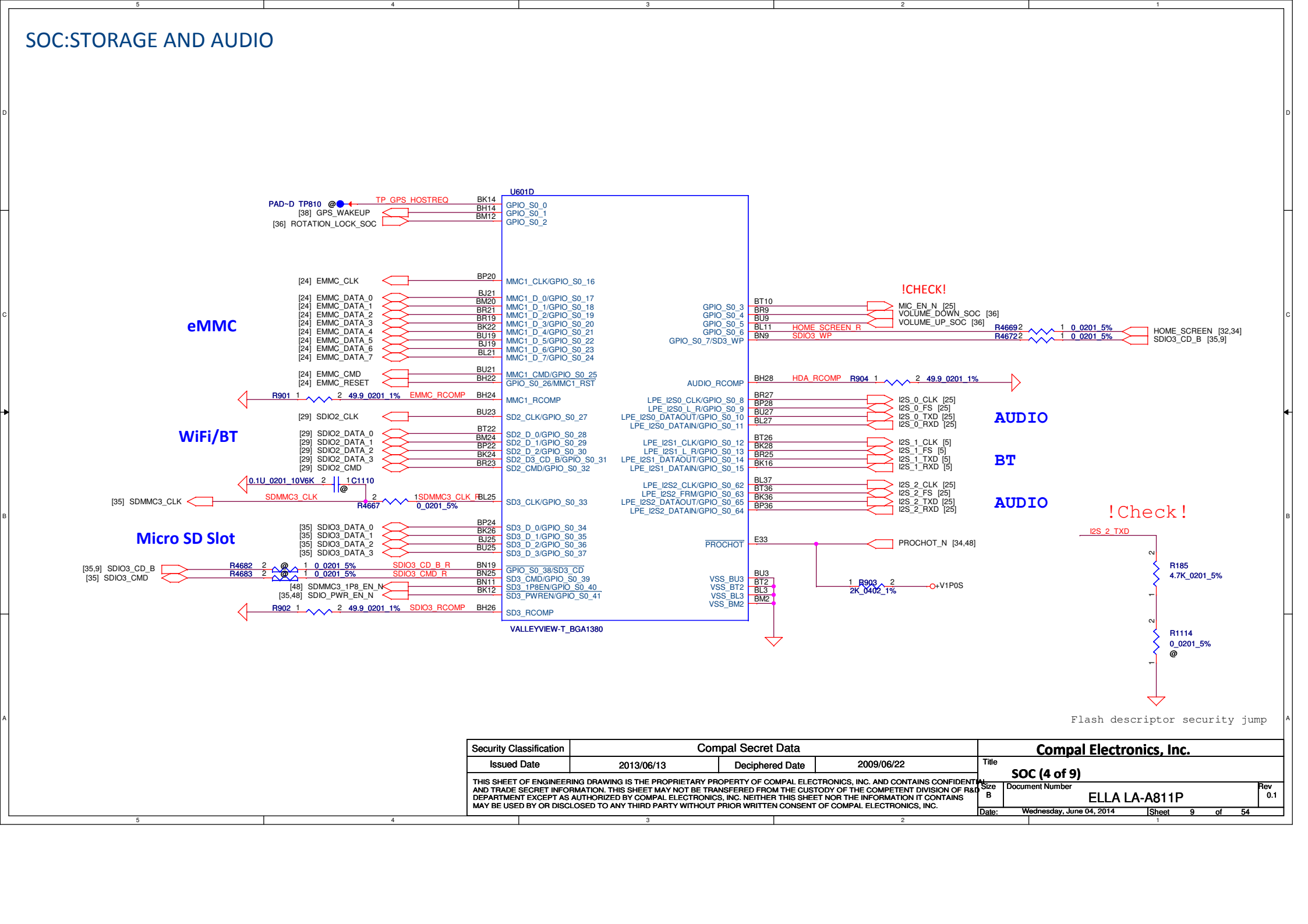
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HDMI

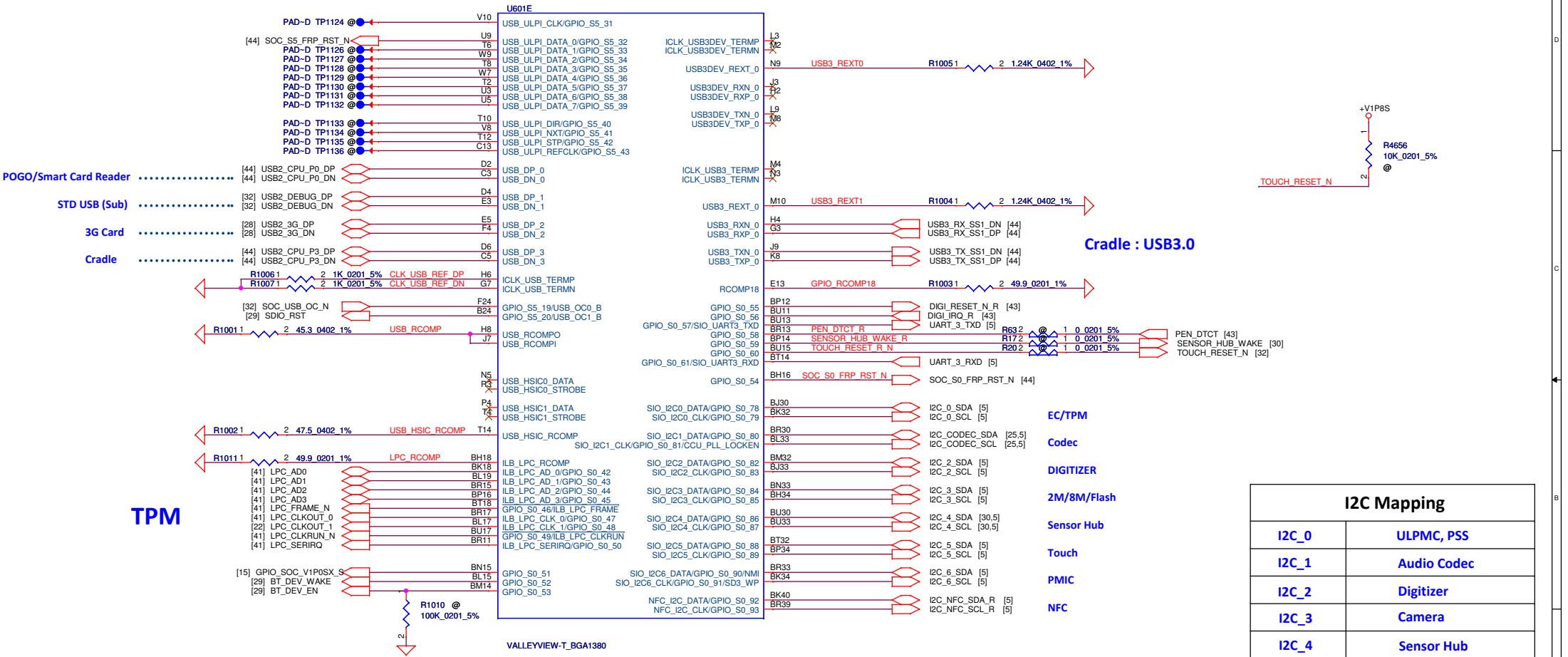


Signal Name	Direction / Type	Description
HCSL_GPIO[00]	I/O	Output from shutter switch when its pressed halfway. This switch state is used to trigger the Auto Focus LED for LED Flash or Torch mode for LED Flash
HCSL_GPIO[01]	I/O	Output from shutter switch when its pressed full way. This switch state is used to trigger Xenon flash or LED Flash
HCSL_GPIO[02]	I/O	Active high control signal to Xenon Flash to start charging the Capacitor
HCSL_GPIO[03]	I/O	Active low output from Xenon Flash to indicate that the capacitor is fully charged and is ready to be triggered
HCSL_GPIO[04]	I/O	Active high Xenon Flash trigger / Enables Torch mode on LED Flash IC
HCSL_GPIO[05]	I/O	Enables Red Eye Reduction LED for Xenon / Triggers STROBE on LED Flash IC /
HCSL_GPIO[06]	I/O	Camera Sensor 0 Strobe Output to SoC to indicate beginning of capture / Active high signal to still camera to power down the device.
HCSL_GPIO[07]	I/O	Camera Sensor 1 Strobe Output to SoC to indicate beginning of capture / Active high signal to still camera to power down the device.
HCSL_GPIO[08]	I/O	Active high signal to video camera to power down the device.
HCSL_GPIO[09]	I/O	Active low output signal to reset digital still camera #0.
HCSL_GPIO[10]	I/O	Active low output signal to reset digital still camera #1
HCSL_GPIO[11]	I/O	Active low output signal to reset digital video camera

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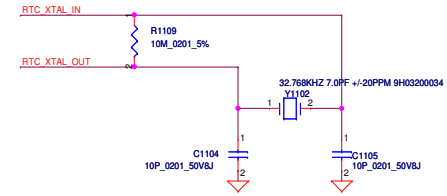
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SOC:USB & I2C



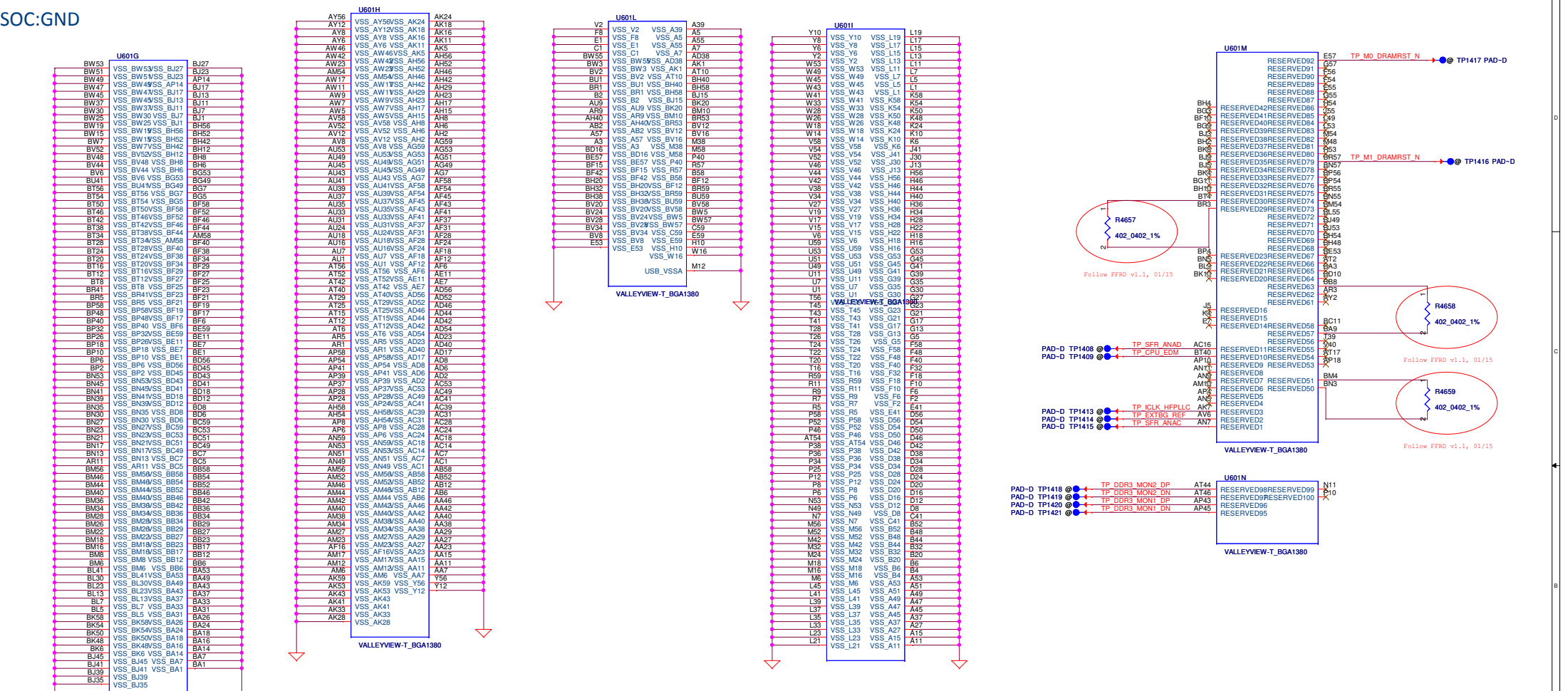
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PMC_PLT_CLK Usage
CLK0 CAM 8MP 19.2MHz
CLK1 CAM 2MP 19.2MHz
CLK2 NC
CLK3 Audio 19.2/25MHz
CLK4 NC
CLK5 NC

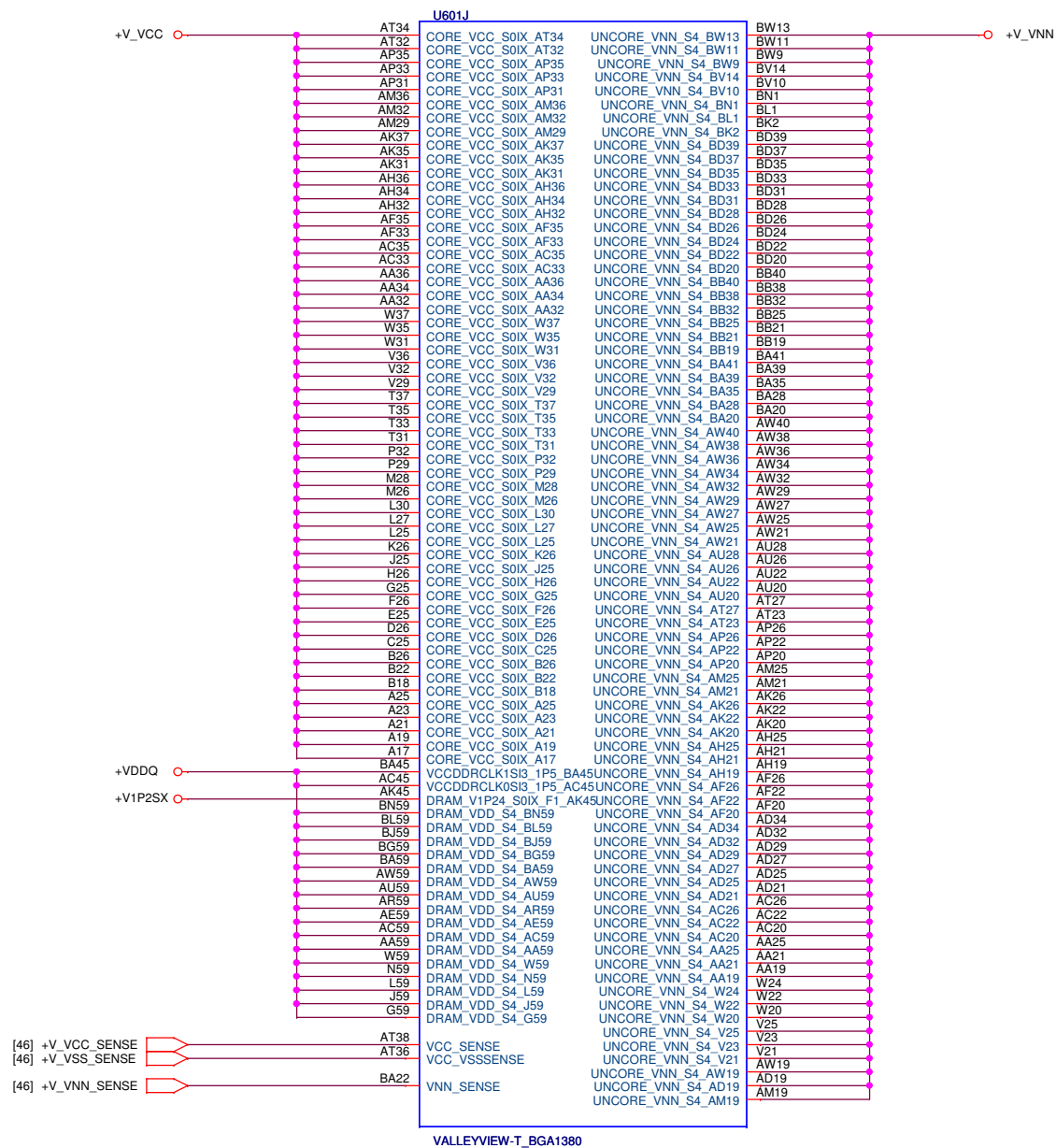


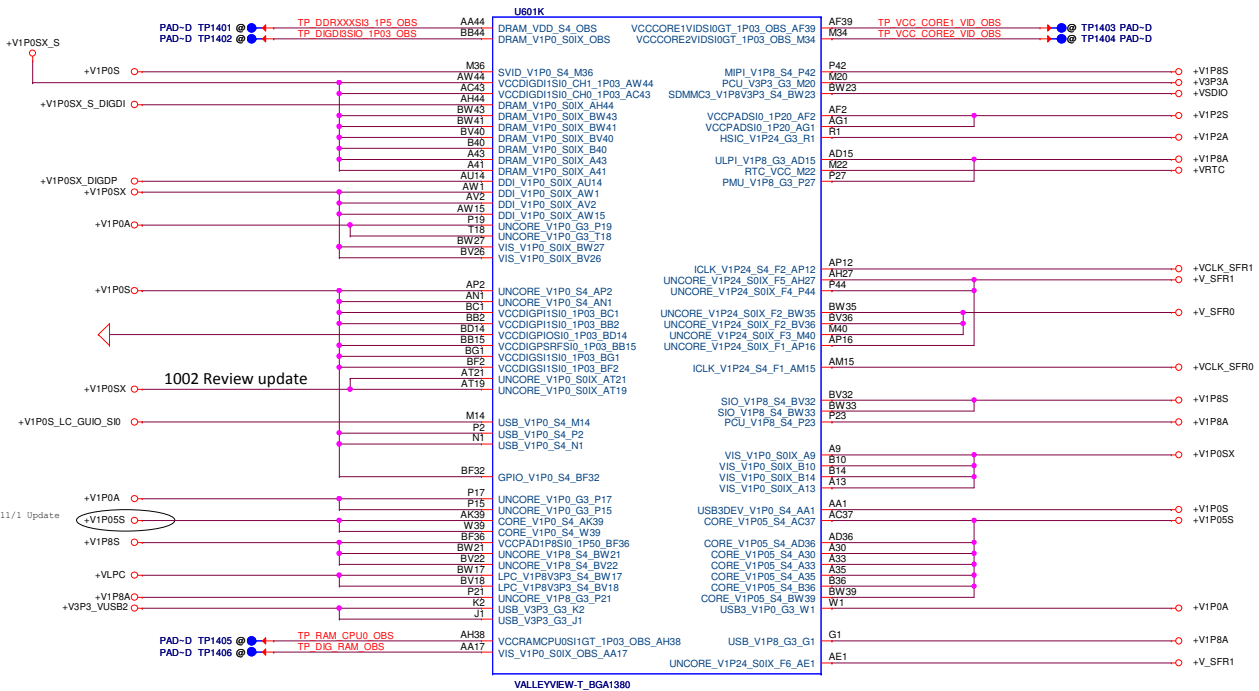
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SOC:GND



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SOC DECOUPLING



Follow FFRD v1.1, 01/15

Follow REV1.5 Schematics

Follow REV1.5 Schematics

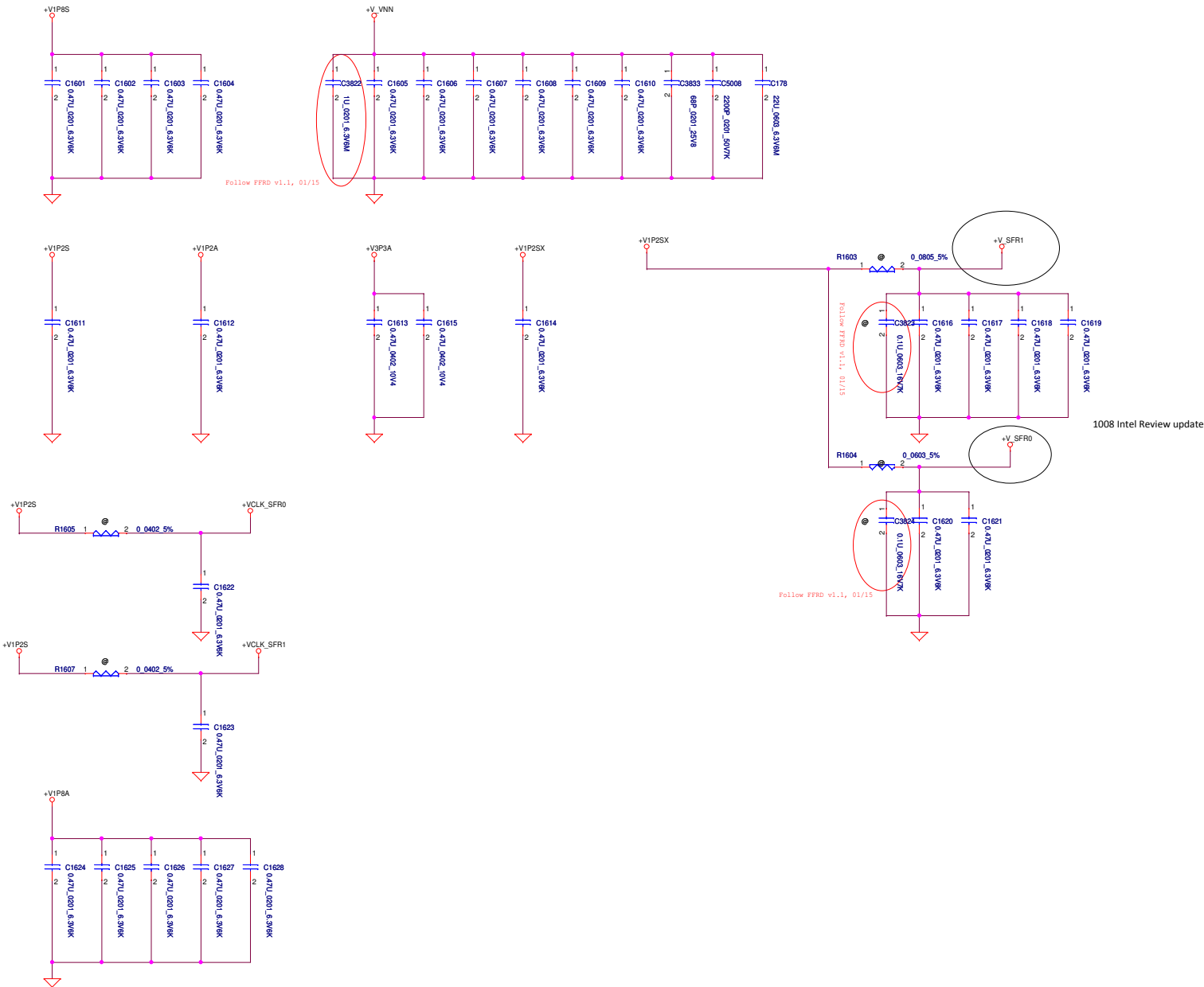
Follow REV0.9 Schematics

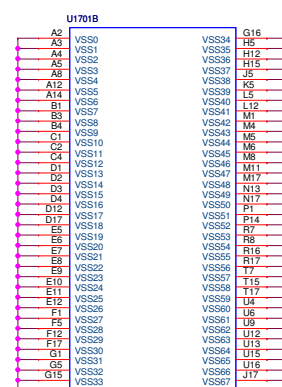
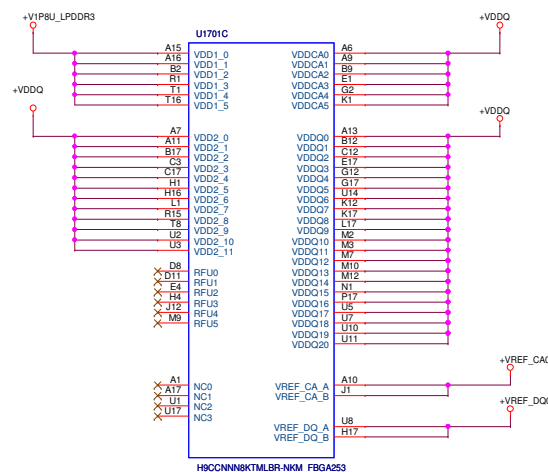
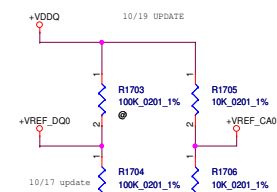
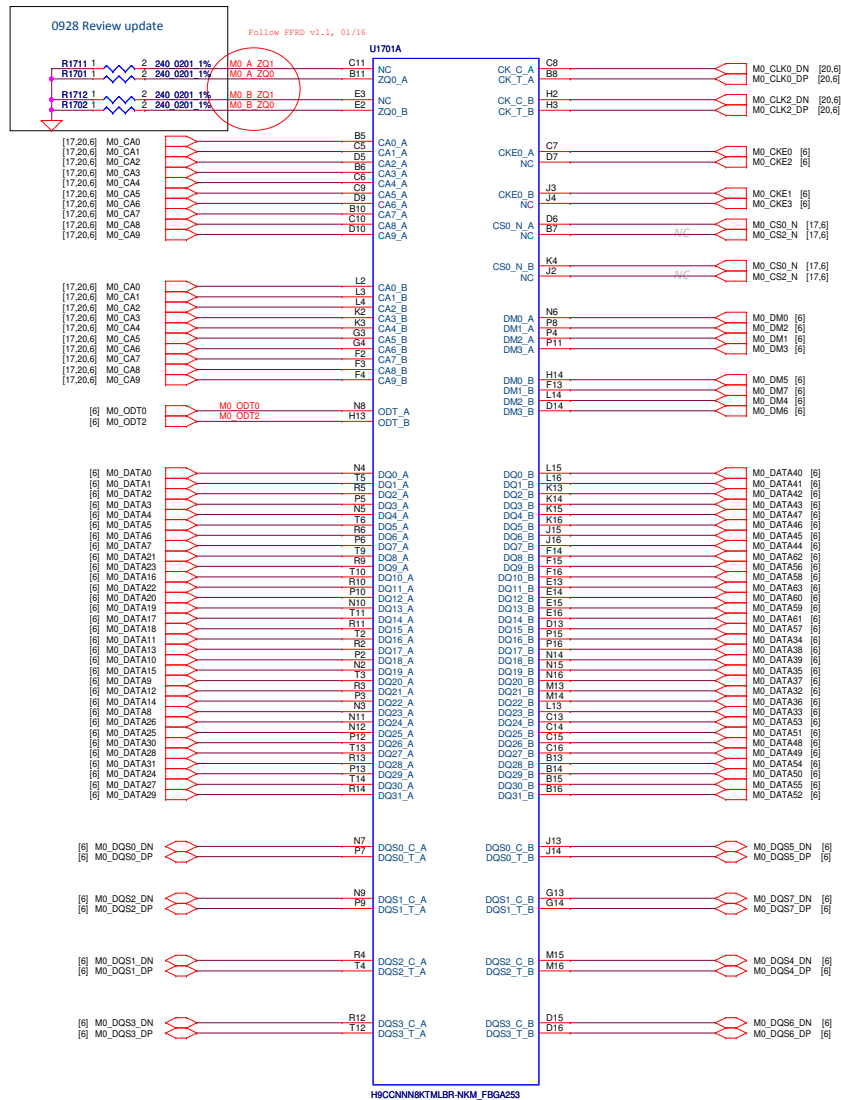
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Change R1507/C1550 to mount, 01/16

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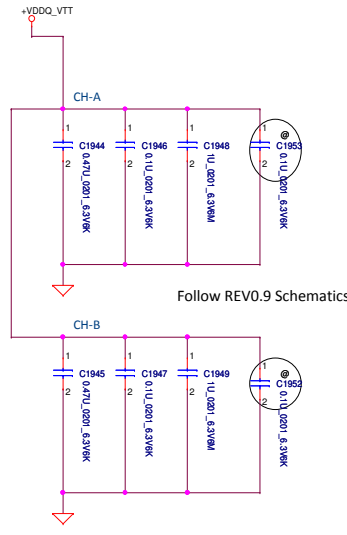
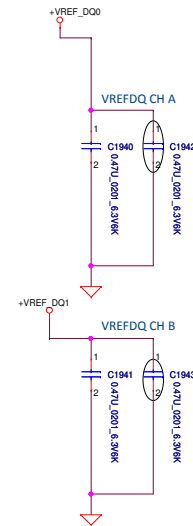
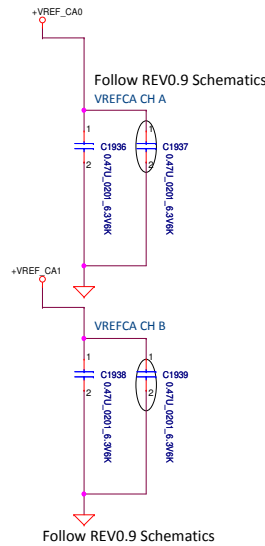
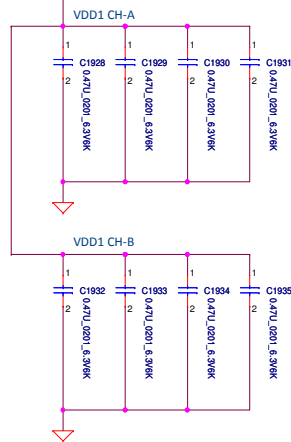
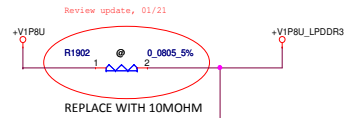
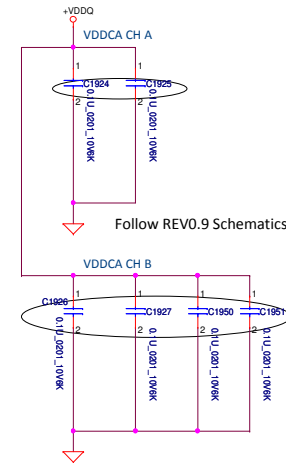
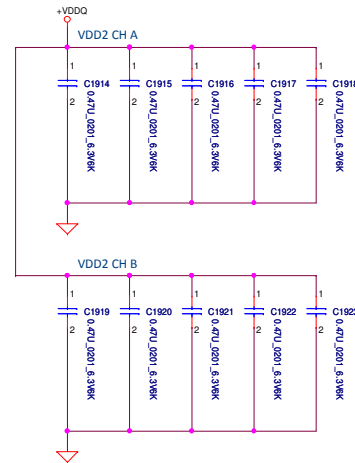
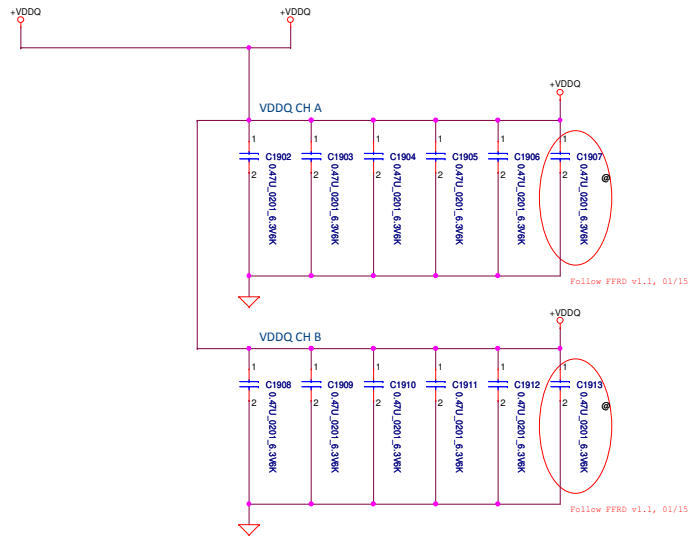
SOC DECOUPLING



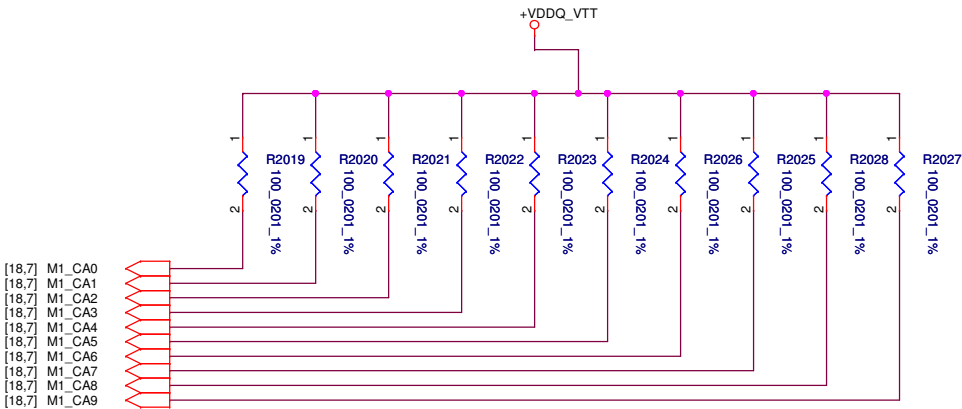
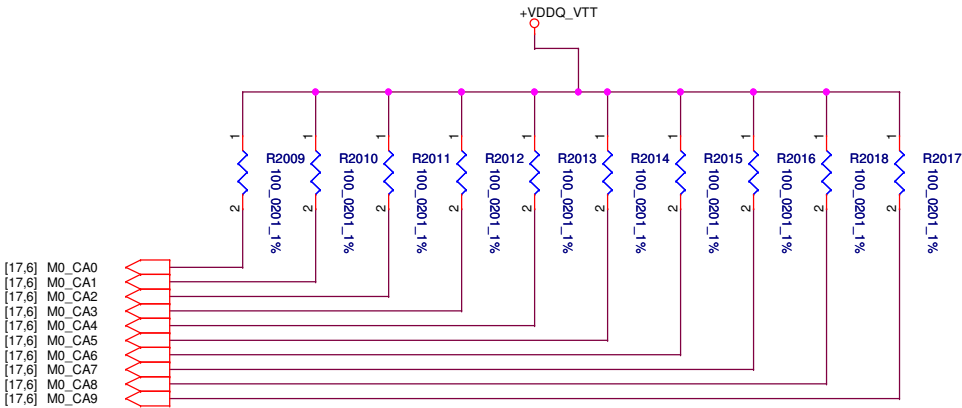
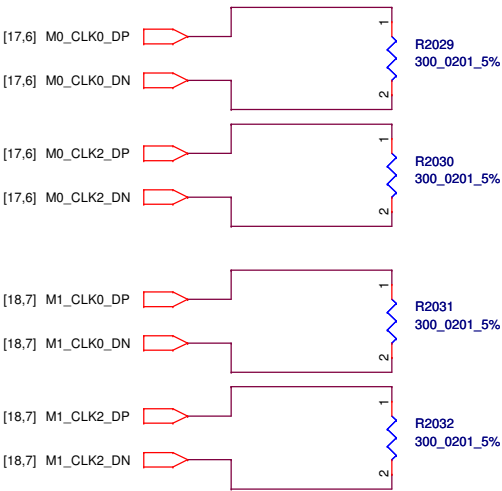


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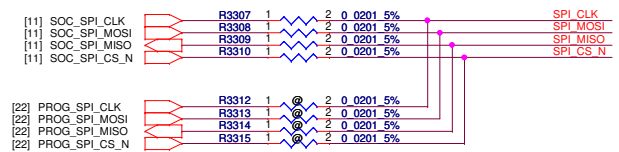
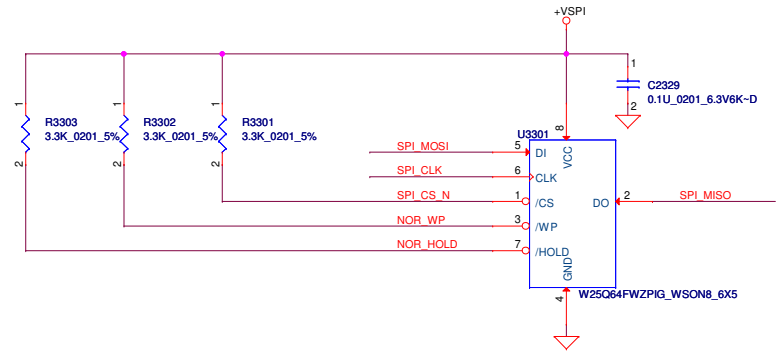
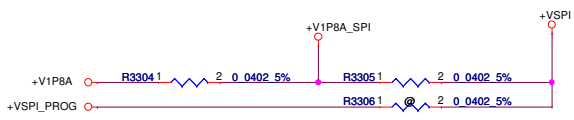
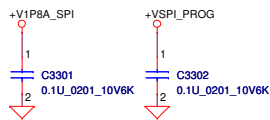
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0928 Review update
Remove seris termination for CKE

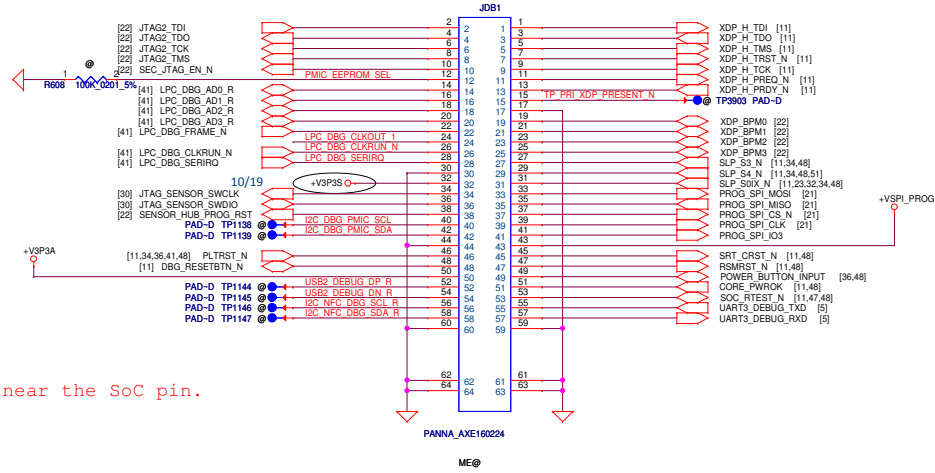


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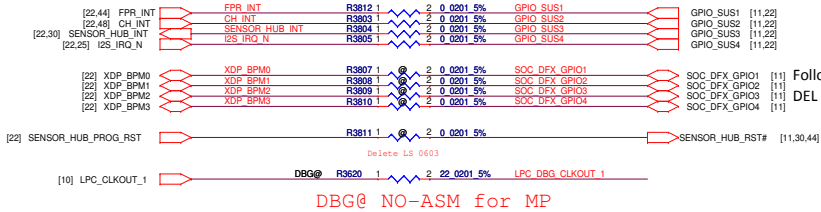
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WW39.4 : CHANGED THE CONNECTIONS ON PIN 10 AND 12
Follow REV1.2

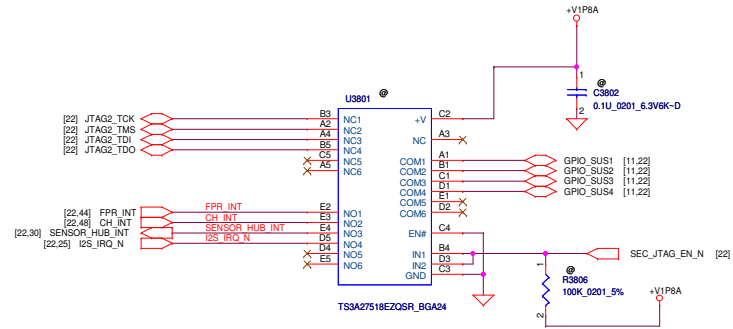


Follow REV0.9 Schematics
change net name

R3819, R3820 *Places near the SoC pin.



Follow REV0.9 Schematics, 0->22,
DEL LPC DBG RESET R N



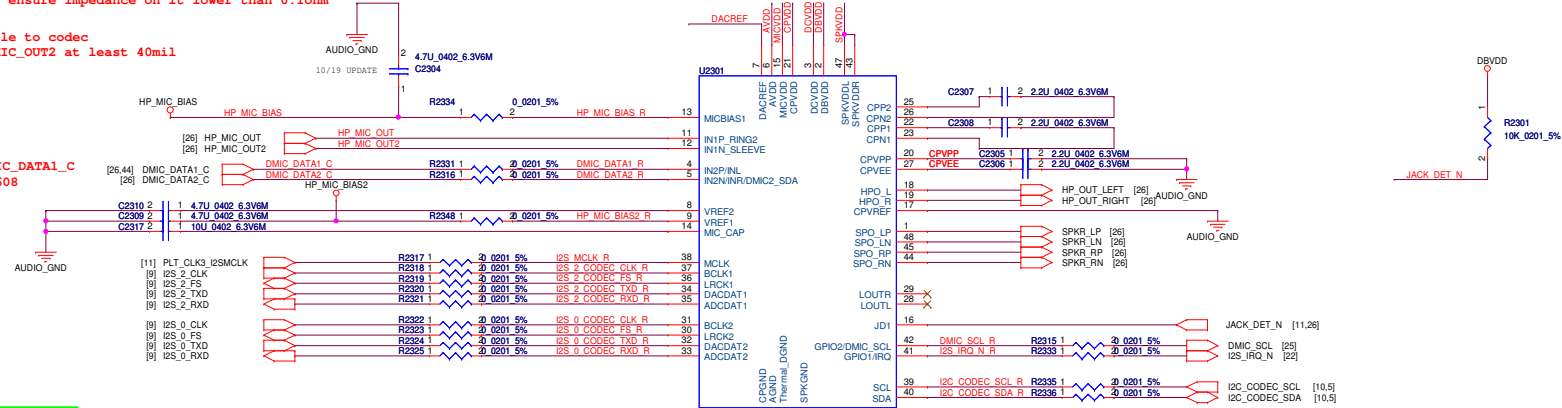
IN1	NC TO COM,	NO TO COM,
IN2	COM TO NC	COM TO NO
L	ON	OFF
H	OFF	ON

Codec

(Lenovo) remove R4671 R4672, ensure impedance on it lower than 0.1ohm

Add layout notice:

put jack as closer as possible to codec
width of HP_MIC_OUT and HP_MIC_OUT2 at least 40mil



- ☐ DMIC_DATA1_C
Left/right: Low
 - ☐ DMIC_DATA1_C
Left/right: High
on Subcard
 - ☐ DMIC_DATA2_C
Left/right: High
- DMIC location and its connection

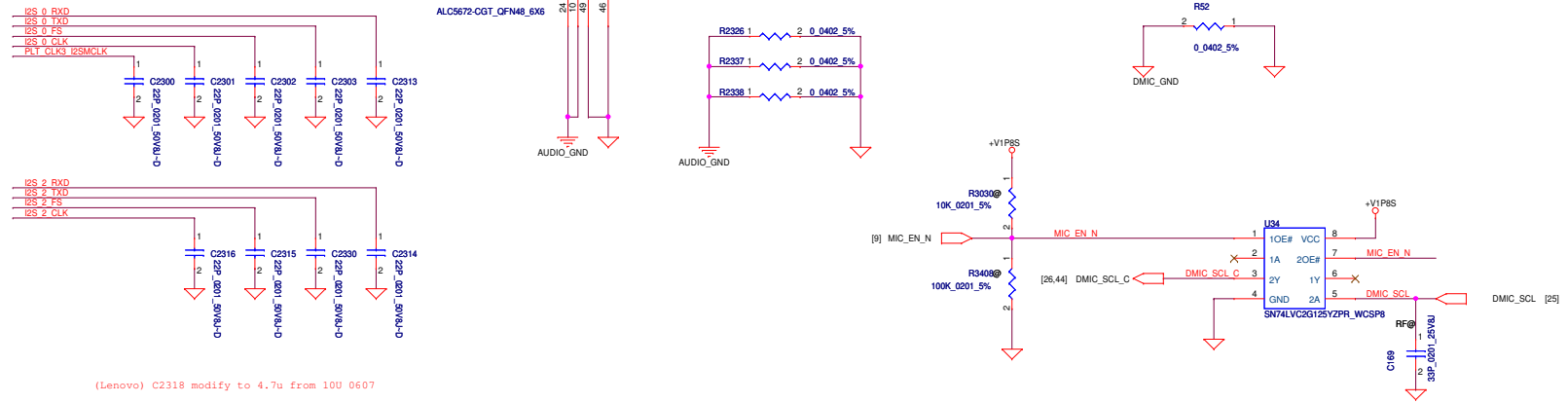
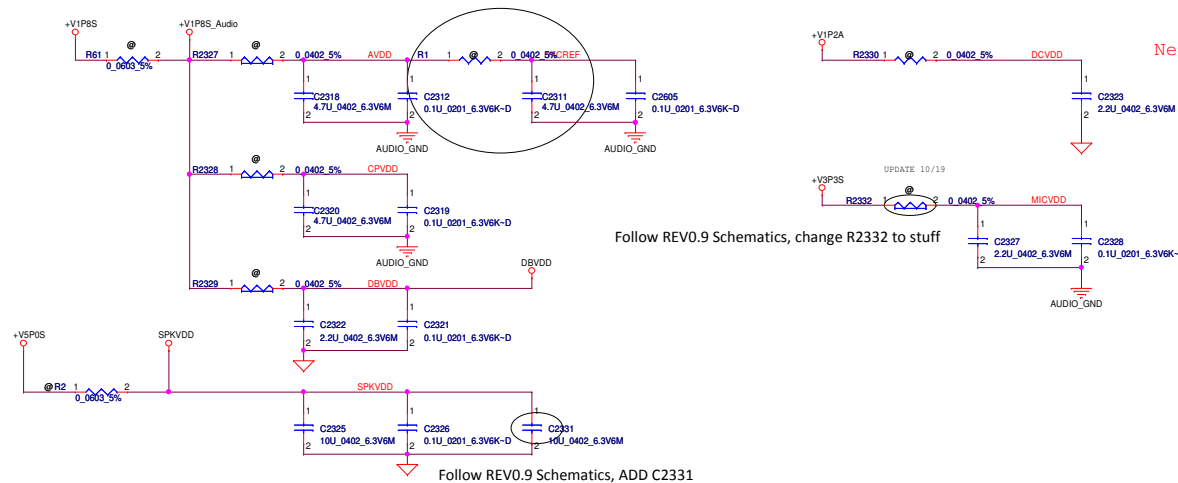


TABLE AUDIO CODEC

U2301	R1
ALC5645	ASM
ALC5672	NO_ASM

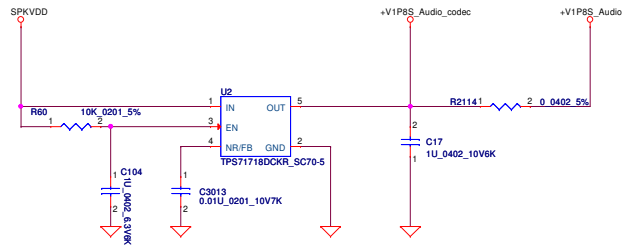


Need to check and update to TC7SB66FU

Follow REV0.9 Schematics, change R2332 to stuff

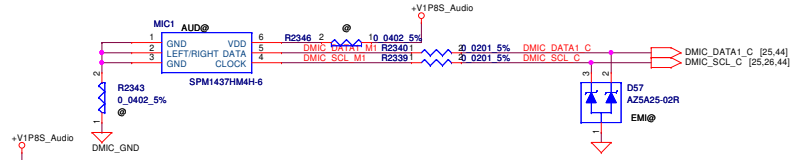
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Issued Date	2013/06/13	Deciphered Date	2006/03/01	Title		
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				Size	Document Number	Rev
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Date: Wednesday, June 04, 2014				Sheet	25	of 54

Digital MIC Conn.

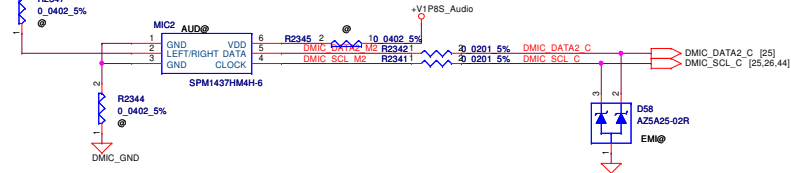


place close to DMIC

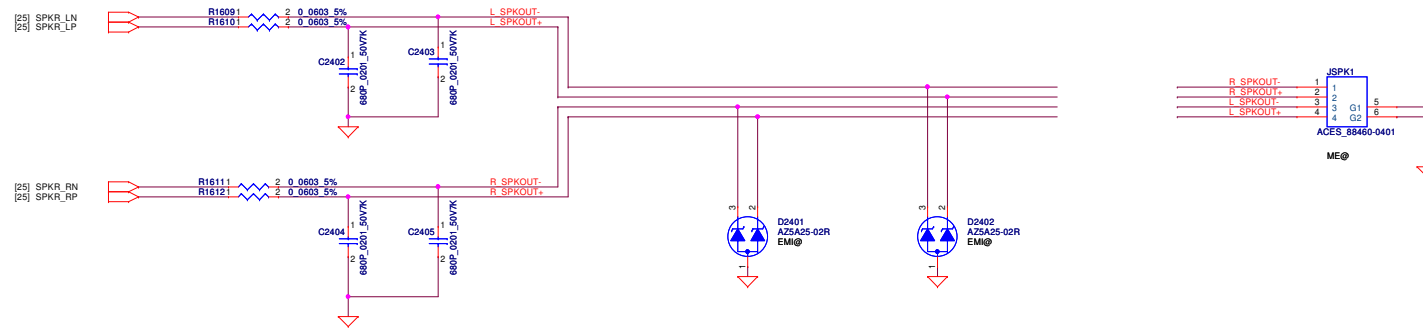
Corner Front



Side Front

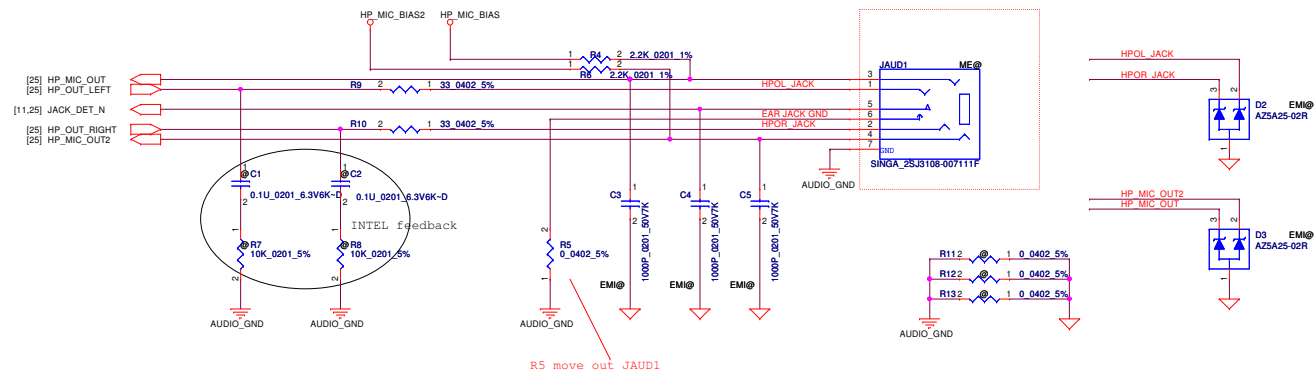


SPEAKERS



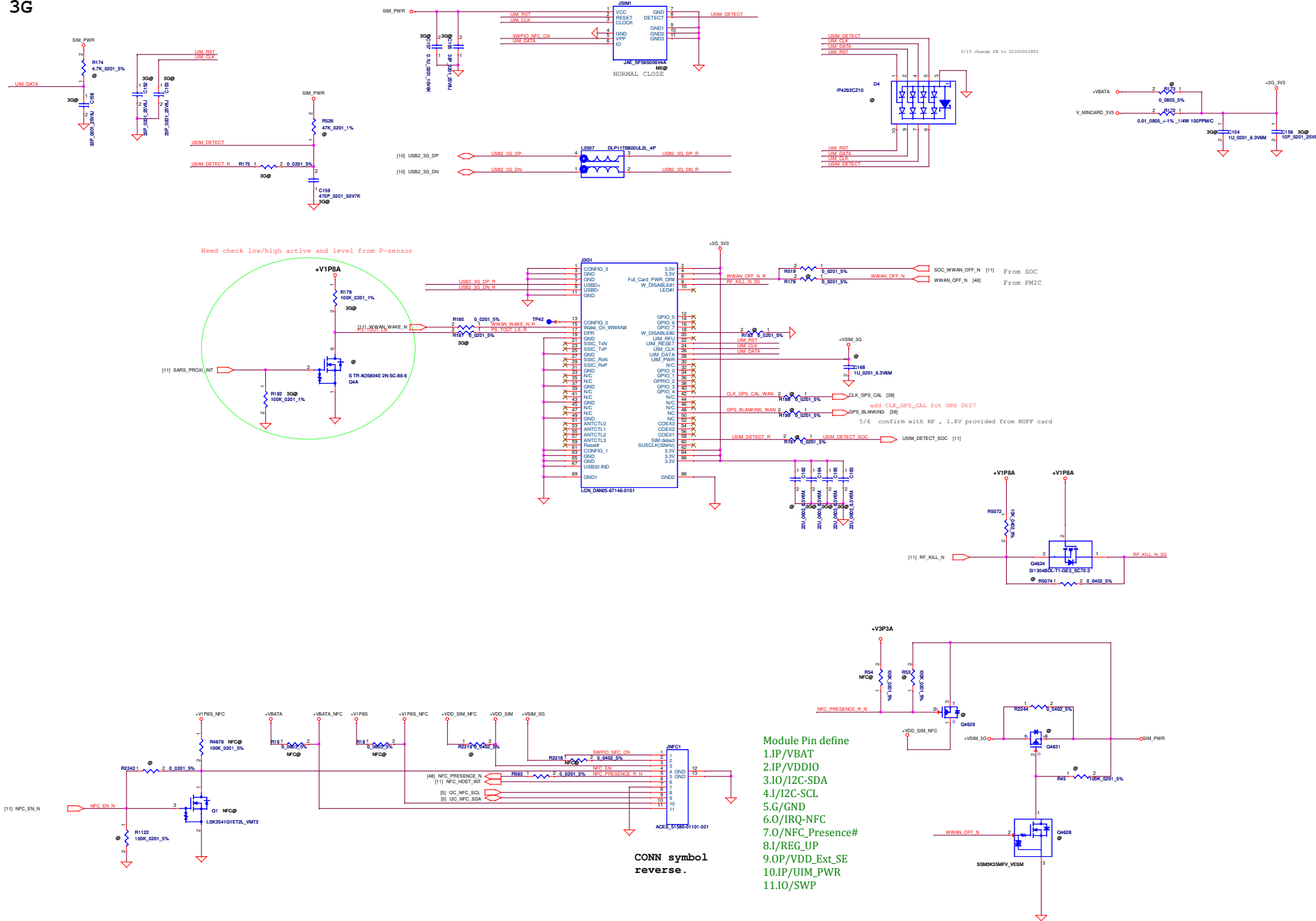
Audio Jack

Audio Jack need to confirm normal open

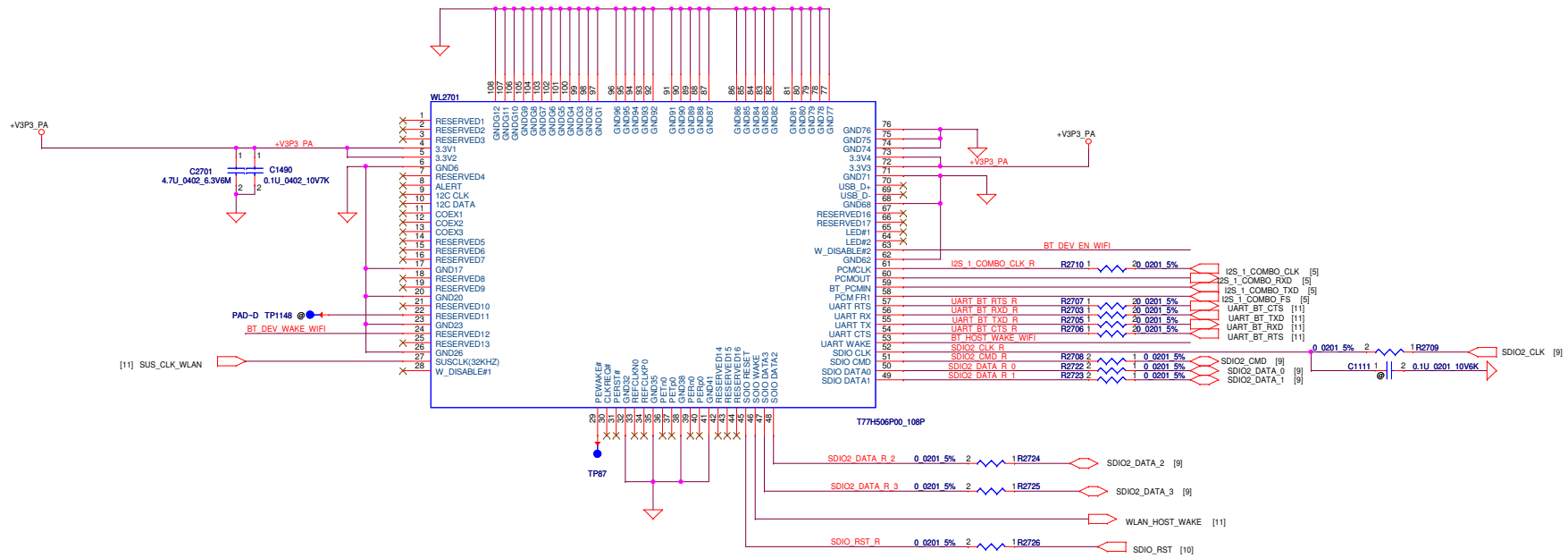


R5 move out JAUD1

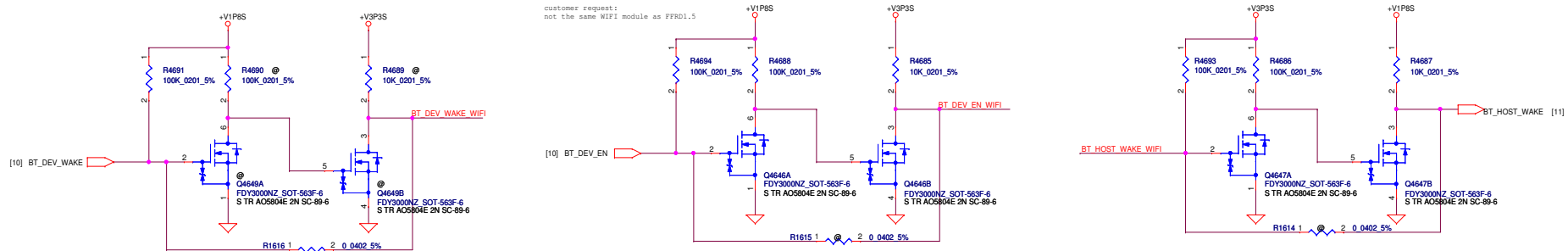
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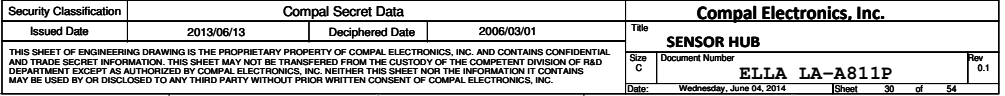


0530 FFRD1.5 and Lenovo sch to SOC GPIO_S5_20(WL_DEV_EN)
0602 Check WIFI_PALDO_EN



customer request:
not the same WIFI module as FFRD1.5

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				Document Number
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				Rev
				0.1
				Date
				Wednesday, June 04, 2014
				Sheet
				29 of 54



[illegible][illegible][illegible][illegible]

Accelerometer + GYROSCOPE

This schematic shows the connection of an MPU-6500 (U4504) to various sensors. It includes power supply decoupling with capacitors C290, C285, and C288. I2C interfaces are shown for gyroscopes (I2C_GYRO_SCL, I2C_GYRO_SDA) and accelerometers (I2C_AKM_SCL, I2C_AKM_SDA). Interrupt signals INT_GYRO [30] and INT_CMPS [30] are connected to the MPU pins.

PROXIMITY SENSOR

This schematic details the proximity sensor setup using the SX9500ULTRT (U22). It features a reset signal RST_SAR_N [30,31] and two interrupt signals INT_SAR_N1 and INT_SAR_N2 [44]. Power management includes capacitors C3108, C3107, C3109, C3110, C3116, C3117, C3115, and C3118.

SX9500 I2C Address Table

A1	A0	Address	
0	0	0x28	P-Sensor 1(MB)
0	1	0x29	
1	0	0x2A	P-Sensor 2(SUB CAM)
1	1	0x2B	

TABLE P-Sensor STRAP

Location	TWO P-Sensor (2PS@)	One P-SENSOR (1PS@)
R522	ASM	NO ASM
R500	NO ASM	ASM

Security Classification

Compal Secret Data

Issued Date

2013/06/13

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2006/03/01

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SENSORS

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Rev

0.1

Accelerometer + GYROSCOPE

Accelerometer + Gyroscope Schematic:

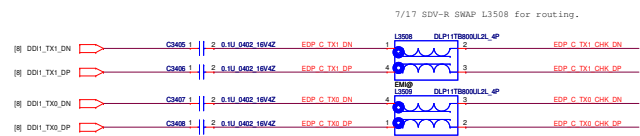
- MPU-6500 (U4504):**
 - VDDIO (8) to VDD (13)
 - nCS (22) to REGOUT (10)
 - AD0/SDO (9) to FSYNC (11)
 - SCL/SCLK (23) to INT (12)
 - SDA/SDI (24) to SDA/SDI (7)
 - AUX_DA (21) to I2C CMPS SCL (R496) and I2C CMPS SDA (R495)
 - AUX_CL (20) to I2C CMPS SCL (R496) and I2C CMPS SDA (R495)
 - RESV (19) to INT CMPS R_N (R564)
 - RESV (20) to INT CMPS R_N (R564)
 - GND (18) to GND PAD (25)
- Gyroscope (Address: 1101001b):**
 - V3P3S_SENSOR (+V1P8S_SENSOR) to R491 (0.0003 5%)
 - R491 to R527 (0.0003 5%)
 - R527 to C285 (0.1U_0201_10V6K)
 - C285 to C288 (0.1U_0201_10V6K)
 - C288 to REGO_GYRO (1)
 - REGO_GYRO to INT_GYRO (30)
- Sensors:**
 - I2C_SENSORS_SCL:** R492 (0.0201 5%)
 - I2C_SENSORS_SDA:** R497 (0.0201 5%)
 - I2C_GYRO_SCL:** R492 (0.0201 5%)
 - I2C_GYRO_SDA:** R497 (0.0201 5%)
 - I2C_AKM_SCL:** R506 (10K_0201_5%)
 - I2C_AKM_SDA:** R493 (10K_0201_5%)

PROXIMITY SENSOR

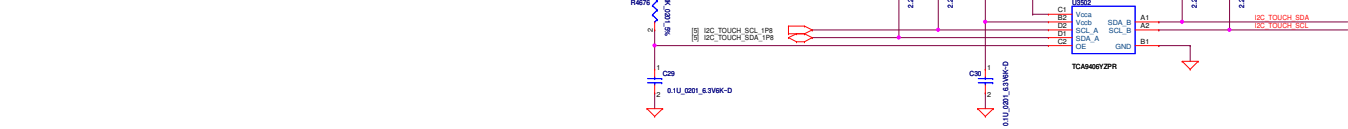
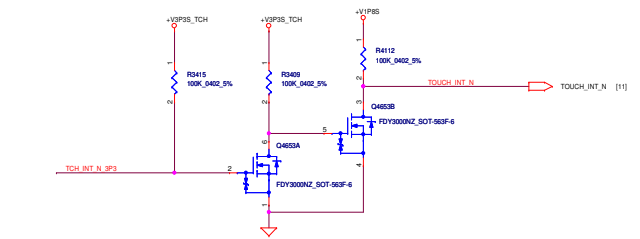
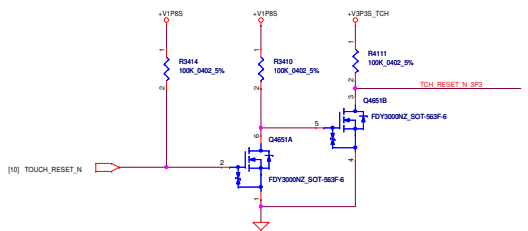
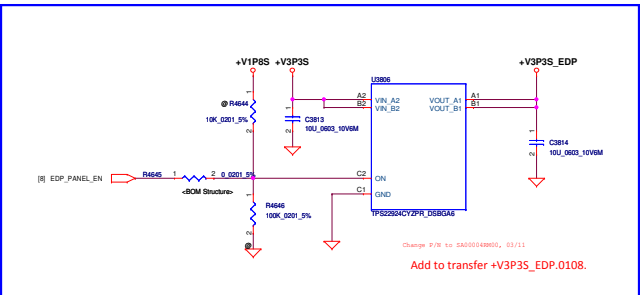
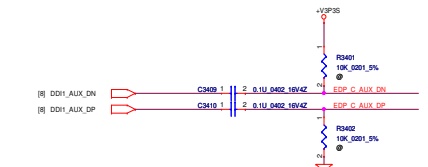
Proximity Sensor Schematic:

- JSAR1 (EMI_SO-26Q):**
 - CS120 (0.1U_0201_10V6K)
 - R3108 (10K_0201_5%)
 - R3107 (10K_0201_5%)
 - R3109 (10K_0201_5%)
 - R3110 (10K_0201_5%)
- U22:**
 - CSG (1) to CS1A (2)
 - CS1A (2) to CS1B (3)
 - CS1B (3) to CS1C (4)
 - CS1C (4) to CS1D (5)
 - CS1D (5) to CS1E (6)
 - CS1E (6) to CS1F (7)
 - CS1F (7) to CS1G (8)
 - CS1G (8) to CS1H (9)
 - CS1H (9) to CS1I (10)
 - CS1I (10) to CS1J (11)
 - CS1J (11) to CS1K (12)
 - CS1K (12) to CS1L (13)
 - CS1L (13) to CS1M (14)
 - CS1M (14) to CS1N (15)
 - CS1N (15) to CS1O (16)
 - CS1O (16) to CS1P (17)
 - CS1P (17) to CS1Q (18)
 - CS1Q (18) to CS1R (19)
 - CS1R (19) to CS1S (20)
 - CS1S (20) to CS1T (21)
 - CS1T (21) to CS1U (22)
 - CS1U (22) to CS1V (23)
 - CS1V (23) to CS1W (24)
 - CS1W (24) to CS1X (25)
 - CS1X (25) to CS1Y (26)
 - CS1Y (26) to CS1Z (27)
 - CS1Z (27) to CS1AA (28)
 - CS1AA (28) to CS1AB (29)
 - CS1AB (29) to CS1AC (30)
 - CS1AC (30) to CS1AD (31)
 - CS1AD (31) to CS1AE (32)
 - CS1AE (32) to CS1AF (33)
 - CS1AF (33) to CS1AG (34)
 - CS1AG (34) to CS1AH (35)
 - CS1AH (35) to CS1AI (36)
 - CS1AI (36) to CS1AJ (37)
 - CS1AJ (37) to CS1AK (38)
 - CS1AK (38) to CS1AL (39)
 - CS1AL (39) to CS1AM (40)
 - CS1AM (40) to CS1AN (41)
 - CS1AN (41) to CS1AO (42)
 - CS1AO (42) to CS1AP (43)
 - CS1AP (43) to CS1AQ (44)
 - CS1AQ (44) to CS1AR (45)
 - CS1AR (45) to CS1AS (46)
 - CS1AS (46) to CS1AT (47)
 - CS1AT (47) to CS1AU (48)
 - CS1AU (48) to CS1AV (49)
 - CS1AV (49) to CS1AW (50)
 - CS1AW (50) to CS1AX (51)
 - CS1AX (51) to CS1AY (52)
 - CS1AY (52) to CS1AZ (53)
 - CS1AZ (53) to CS1BA (54)
 - CS1BA (54) to CS1BB (55)
 - CS1BB (55) to CS1BC (56)
 - CS1BC (56) to CS1BD (57)
 - CS1BD (57) to CS1BE (58)
 - CS1BE (58) to CS1BF (59)
 - CS1BF (59) to CS1BG (60)
 - CS1BG (60) to CS1BH (61)
 - CS1BH (61) to CS1BI (62)
 - CS1BI (62) to CS1BJ (63)
 - CS1BJ (63) to CS1BK (64)
 - CS1BK (64) to CS1BL (65)
 - CS1BL (65) to CS1BM (66)
 - CS1BM (66) to CS1BN (67)
 - CS1BN (67) to CS1BO (68)
 - CS1BO (68) to CS1BP (69)
 - CS1BP (69) to CS1BQ (70)
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 - CS1BR (71) to CS1BS (72)
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 - CS1CY (104) to CS1CZ (105)
 - CS1CZ (105) to CS1DA (106)
 - CS1DA (106) to CS1DB (107)
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 - CS1DD (109) to CS1DE (110)
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 - CS1DH (113) to CS1DI (114)
 - CS1DI (114) to CS1DJ (115)
 - CS1DJ (115) to CS1DK (116)
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 - CS1DT (125) to CS1DU (126)
 - CS1DU (126) to CS1DV (127)
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 - CS1EL (142) to CS1EM (143)
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 - CS1EQ (14

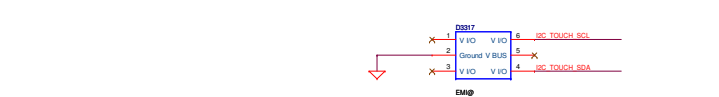
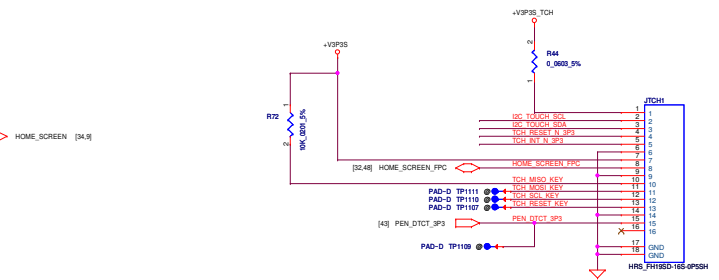
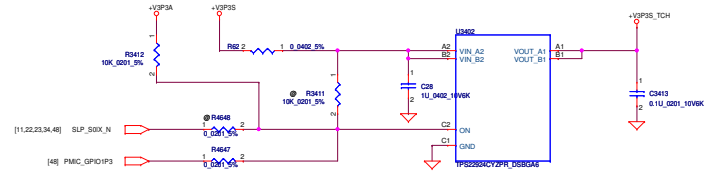
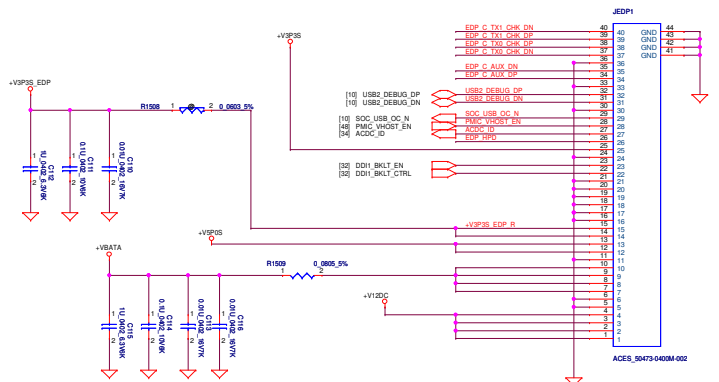
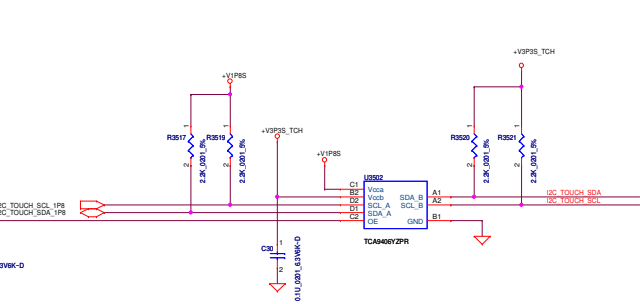
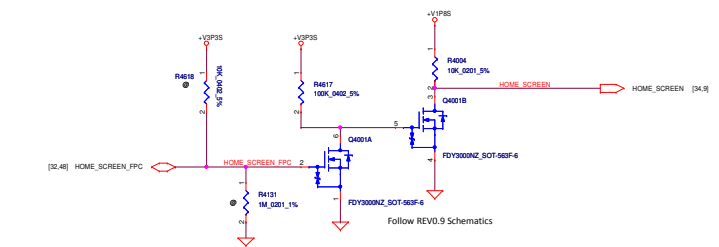
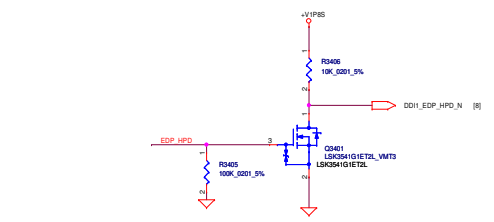
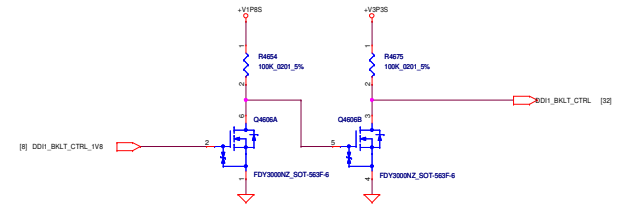
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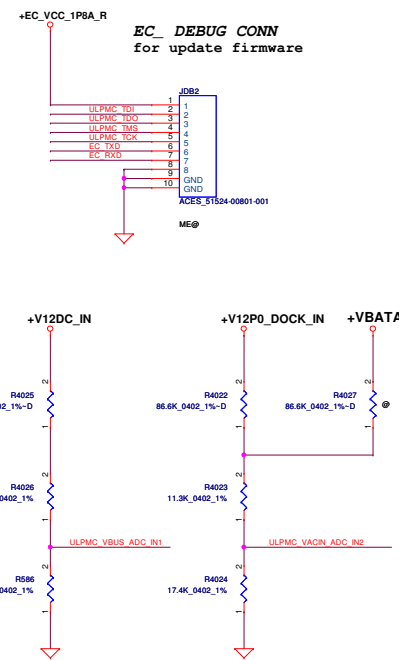
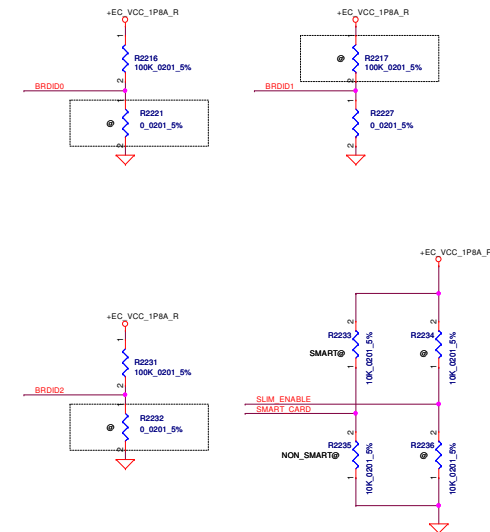
need check EMI



Check BKL



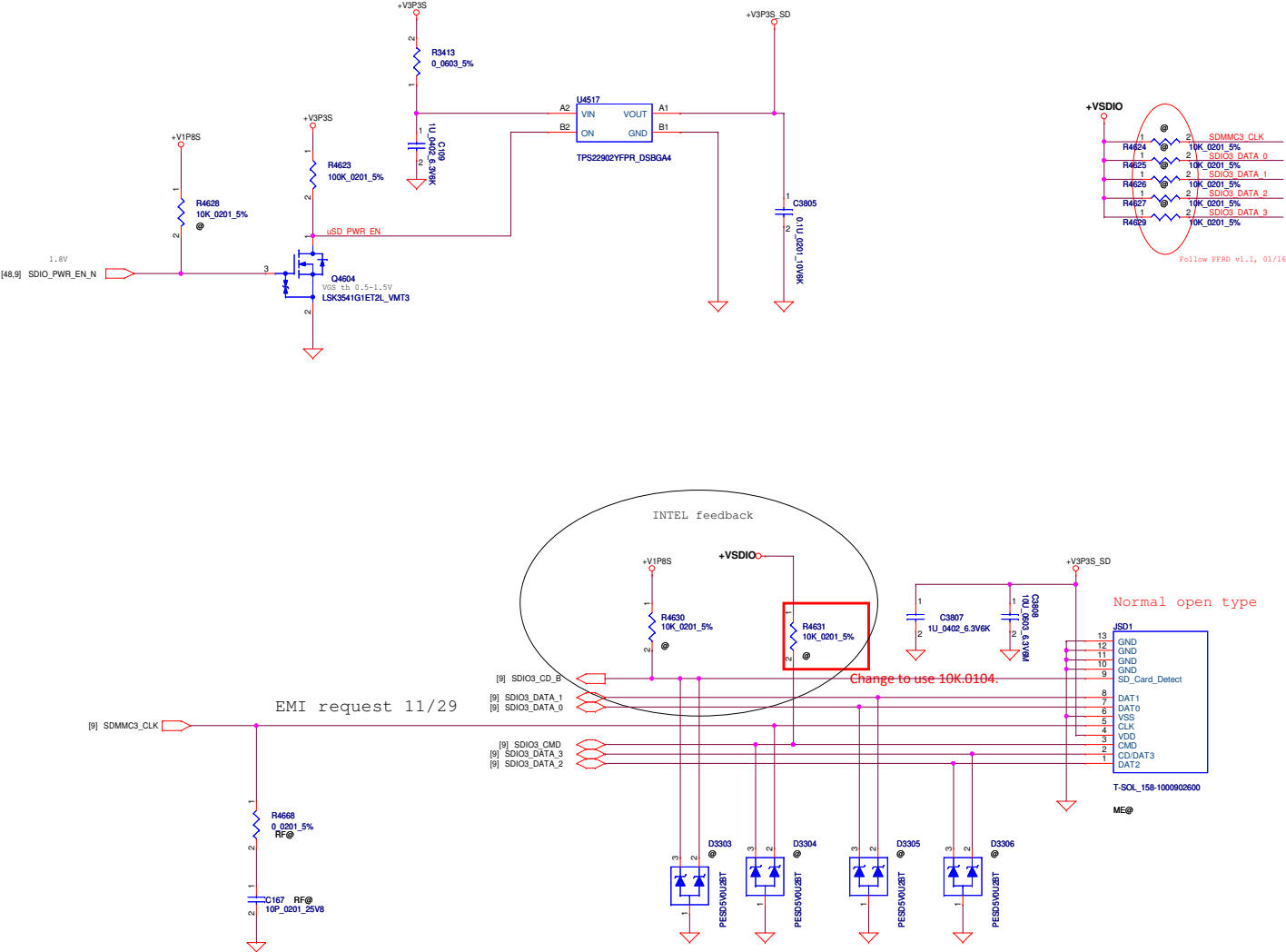
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Title				eDP & TOUCH				Rev			
Rev				001				Rev			
Date				Wednesday, June 24, 2014				Sheet			
Rev				01							



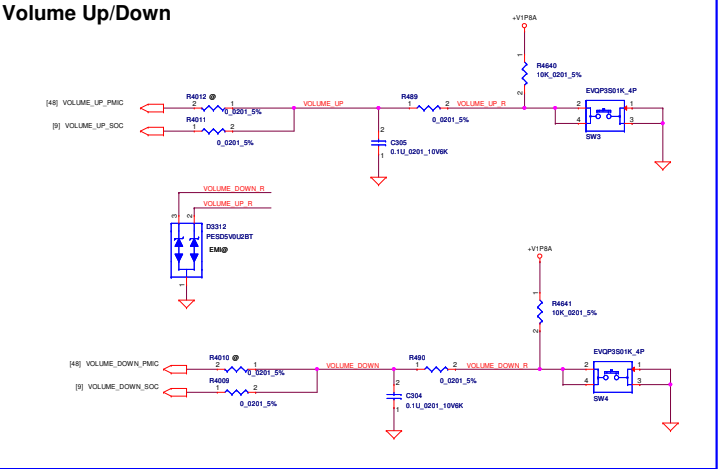
Location	SMART_CARD	NON_SMART_CARD
R2233	ASM	NO ASM
R2235	NO ASM	ASM

	BRDID0 (GPIO18)	BRDID1 (GPIO18)	BRDID2 (GPIO20)
SDV	0	0	0
SDV-R	0	1	1
	BRDID0 (GPIO2F)	BRDID1 (GPIO30)	BRDID2 (GPIO11)
FVT	0	0	1
FVT-2	1	1	0
SIT	0	1	0
(TBD)	1	1	1
SVT	1	0	0
SOVP	1	0	1

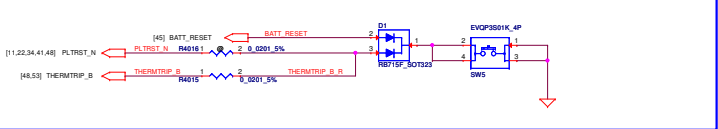
Micro SD



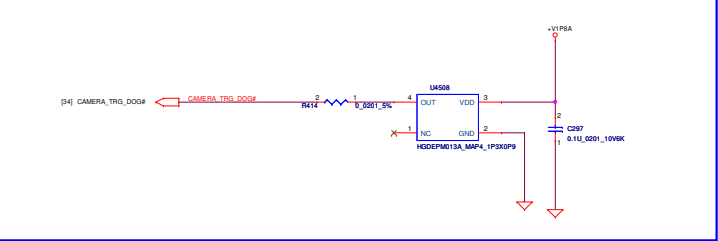
Volume Up/Down



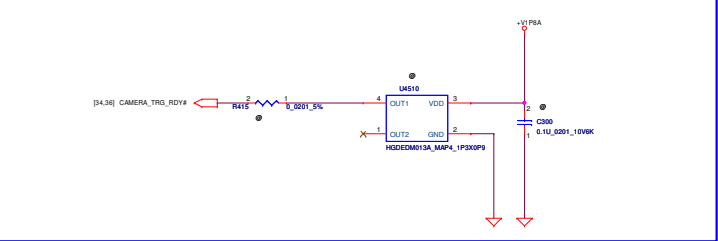
Battery Reset Reset Button check



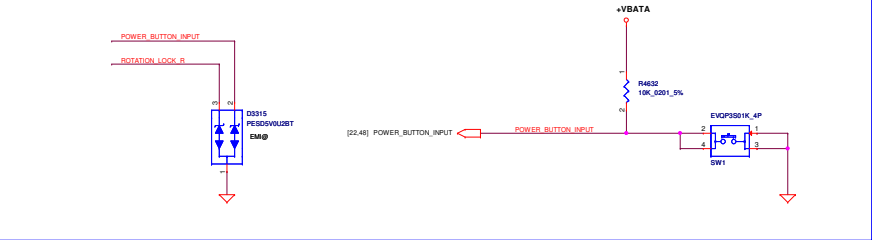
DOG EAR detect



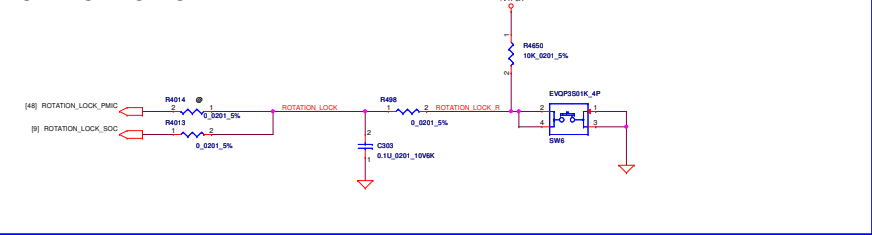
COVER LID SENSOR



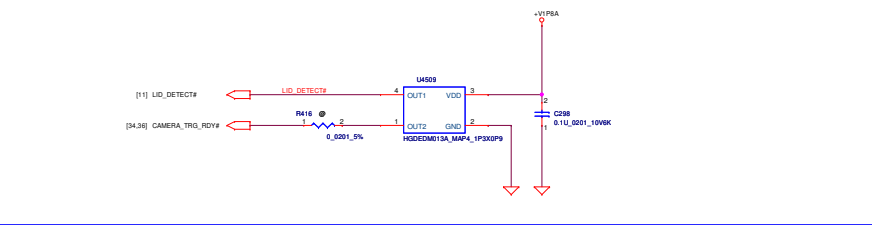
Power SW

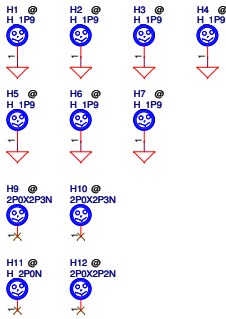
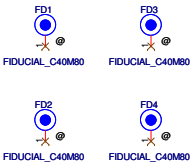
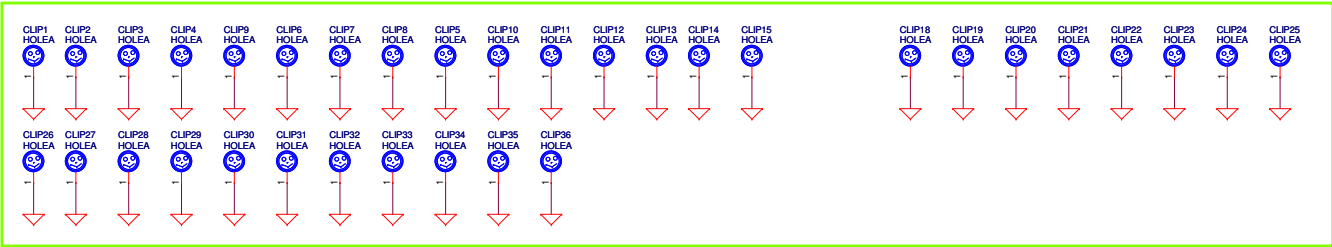


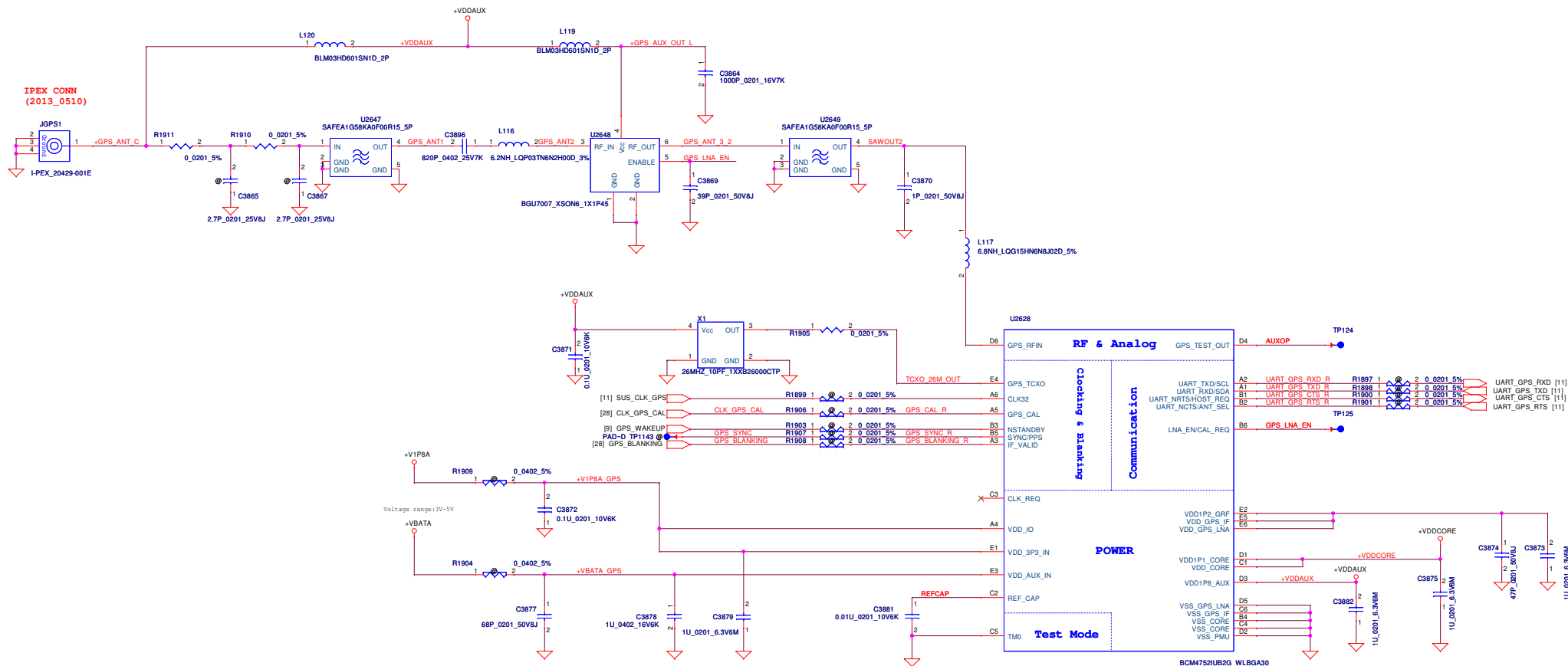
ROTATION BUTTON



COVER LID SENSOR







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				2006/03/01	
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				Size	
				Document Number	
				Rev	
				0.1	
				Date	
				Wednesday, June 04, 2014	
				Sheet	
				38 of 54	
				Customer	
ELLA LA-A81P					

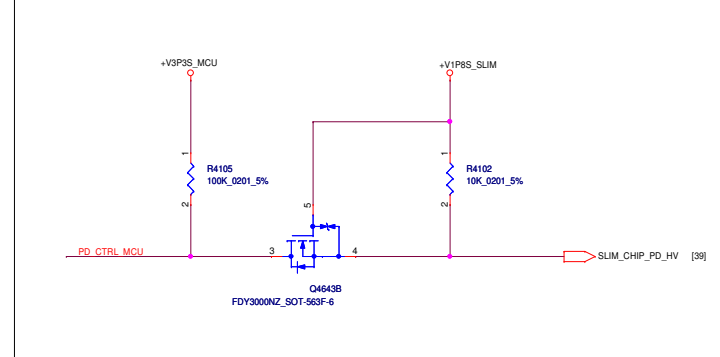
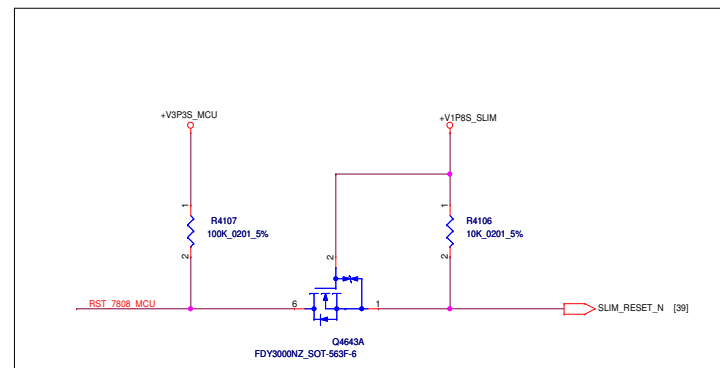
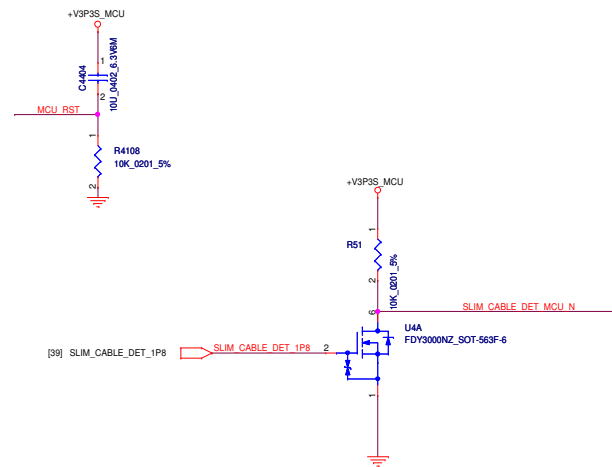


Two circuit diagrams are shown, both featuring a MOSFET (Q4639B, FDY3000NZ_SOT-563F-6) and resistors (R21, R15, R46, R1119) connected to a signal line.

The top diagram shows the V1P3S MCU connected to the SLM INTP_1P8 signal. The MCU pin is connected to the MOSFET gate through a 100K_0201_5% resistor (R21). The MOSFET drain is connected to the SLM INTP_1P8 signal line through a 100K_0201_5% resistor (R15). The MOSFET source is connected to ground.

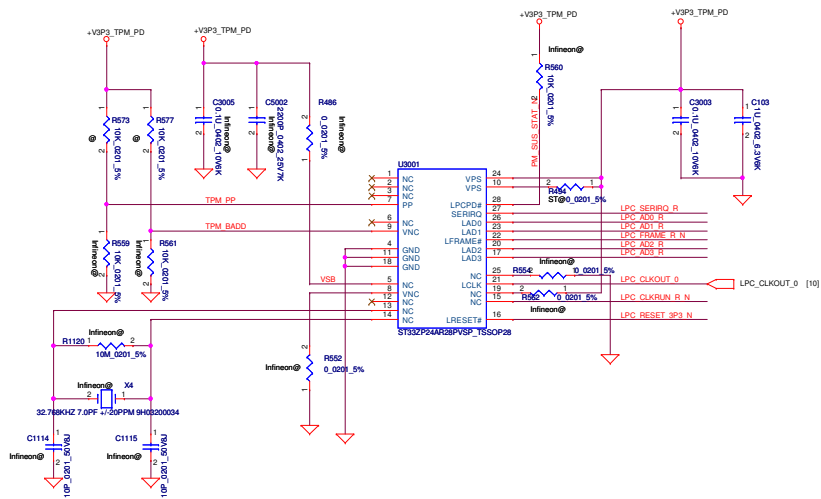
The bottom diagram shows the V1P8S SLM connected to the SLM CABLE_DET_1P8 signal. The SLM pin is connected to the MOSFET gate through a 100K_0201_5% resistor (R46). The MOSFET drain is connected to the SLM CABLE_DET_1P8 signal line through a 100K_0201_5% resistor (R1119). The MOSFET source is connected to ground.

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				Drawing	ELLA LA-A811P	0.1
				Date	Wednesday, June 14, 2014	Sheet 38 of 54

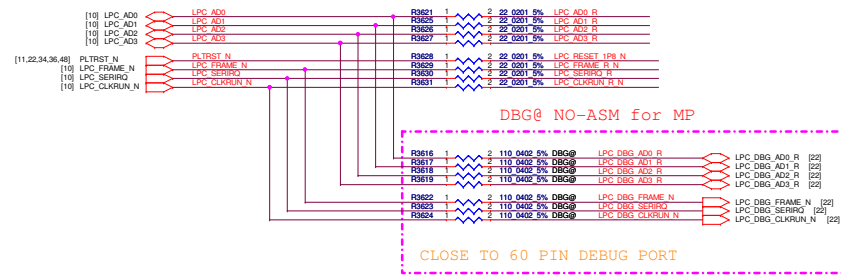
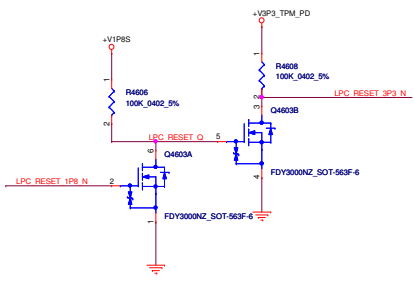
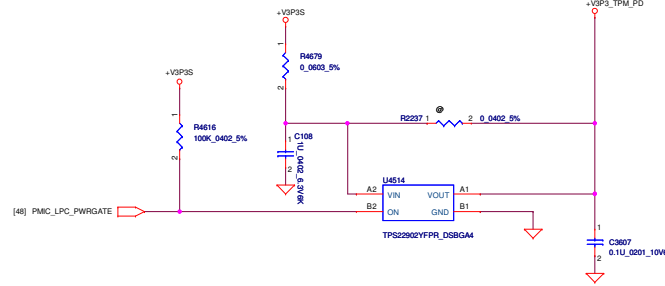
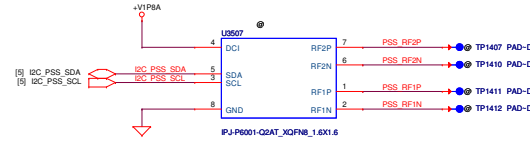


8	А	2	2	Дата	Исполнитель, дата и время	Итого	40	01	
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TPM



PSS



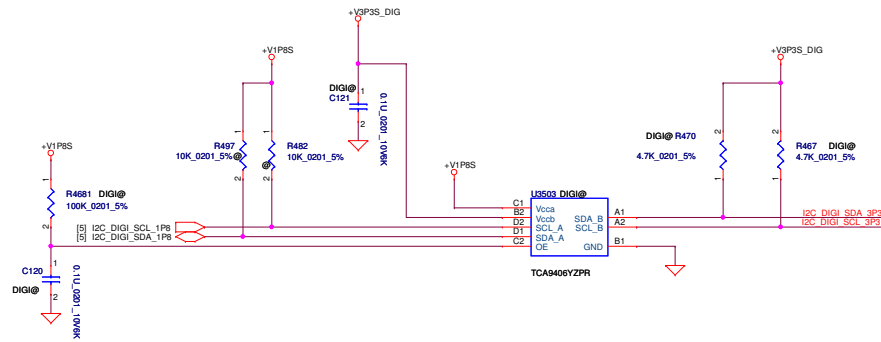
DBG@ NO-ASM for MP

CLOSE TO 60 PIN DEBUG PORT

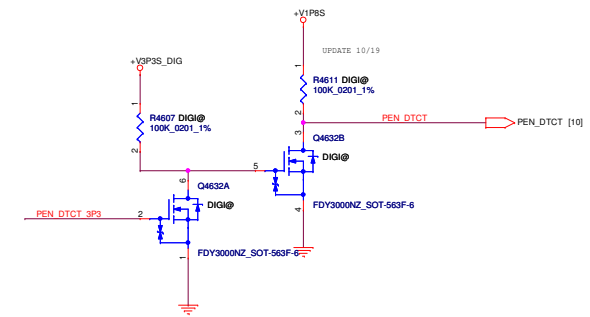
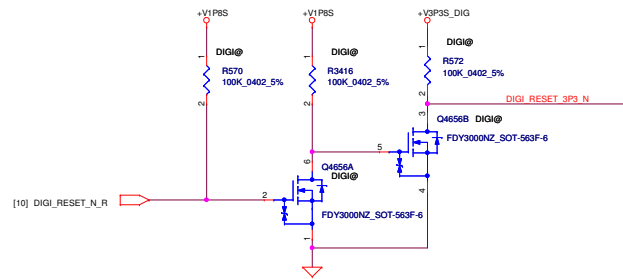
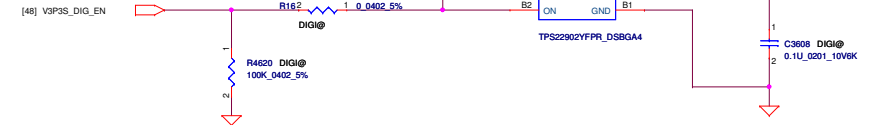
Follow Lenovo sch

TABLE TPM CONFIGURATION

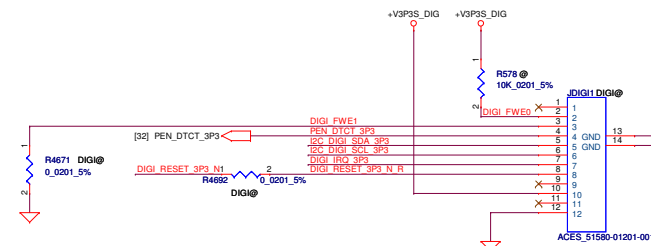
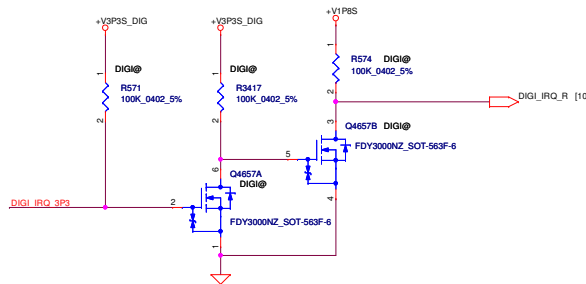
Location	Infineon	ST Micro	Non dTPM MODEL
C103	ASM	ASM	NO ASM
C108	ASM	ASM	
C1114	ASM	NO ASM	
C1115	ASM	NO ASM	
C3003	ASM	ASM	
C3005	ASM	NO ASM	
C3607	ASM	ASM	
C5002	ASM	NO ASM	
R486	ASM	NO ASM	
R494	NO ASM	ASM	
R552	ASM	NO ASM	
R554	ASM	NO ASM	
R559	ASM	NO ASM	
R560	ASM	NO ASM	
R561	ASM	NO ASM	
R562	ASM	NO ASM	
R573	NO ASM	NO ASM	
R577	NO ASM	NO ASM	
R1120	ASM	NO ASM	
R3621	ASM	ASM	
R3625	ASM	ASM	
R3626	ASM	ASM	
R3627	ASM	ASM	
R3628	ASM	ASM	
R3629	ASM	ASM	
R3630	ASM	ASM	
R3631	ASM	ASM	
R4616	ASM	ASM	
R4606	ASM	ASM	
R4679	ASM	ASM	
Q4603	ASM	ASM	
X4	ASM	NO ASM	
U4514	ASM	ASM	
U3001	SLB9635	ST332P24AR	



check to PMIC 0604

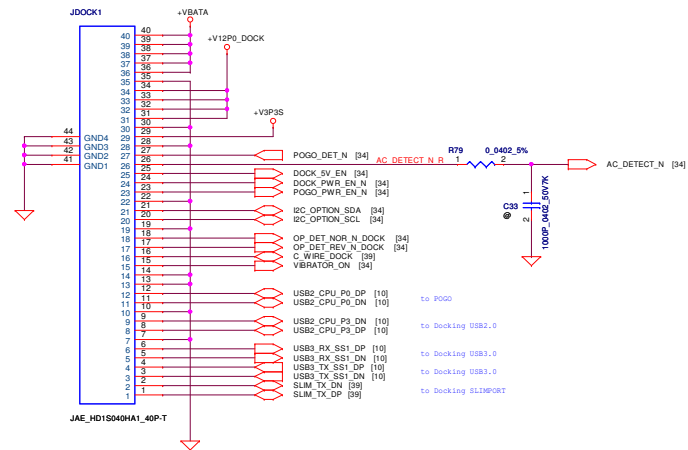


Digitizer board connector

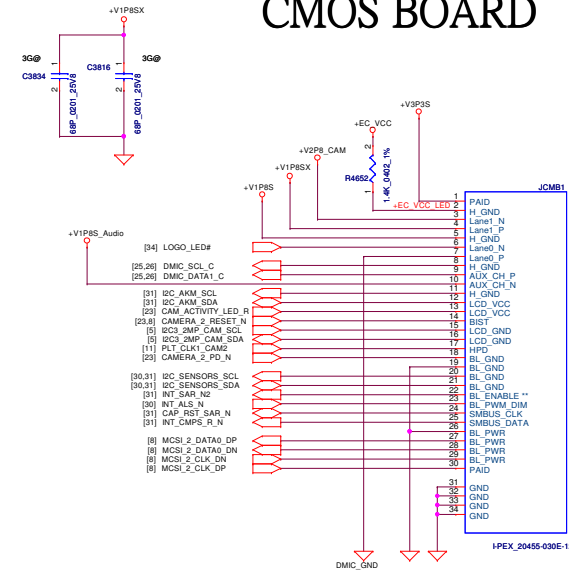


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Customer				Document Number	ELLA LA-A811P	
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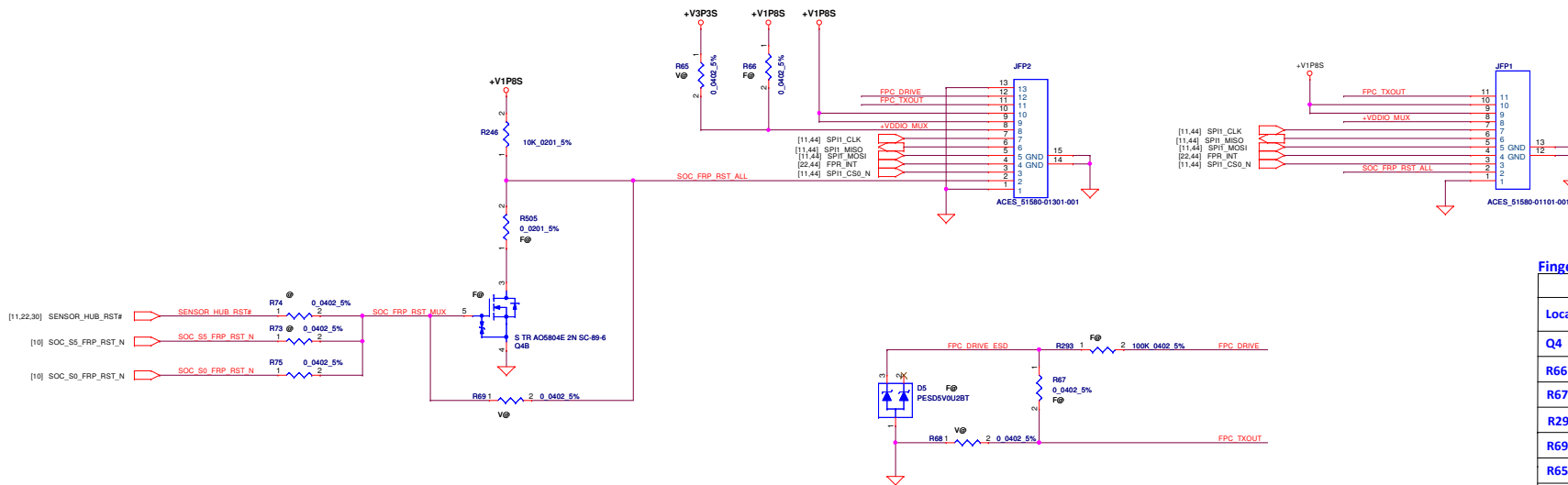
Docking conn



CMOS BOARD



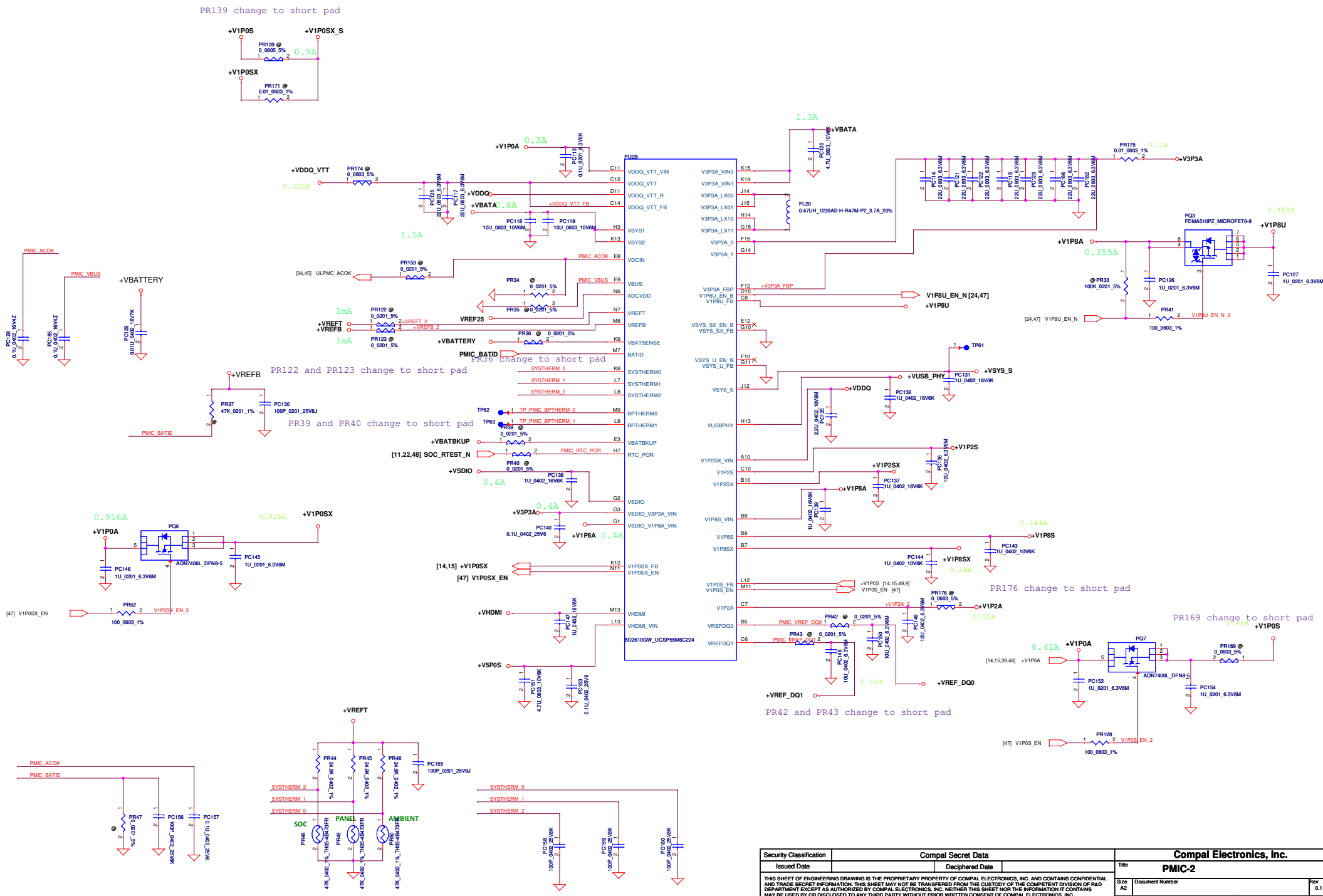
Finger Printer Conn



Finger Printer BOM Structure

	JFP1	JFP2
Location	Validity (V@) (ACS, 51000-01-001)	Fingerprints (F@) (ACS, 51000-01-001)
Q4	N0 ASM	ASM
R66	N0 ASM	ASM
R67	N0 ASM	ASM
R293	N0 ASM	ASM
R69	ASM	N0 ASM
R65	ASM	N0 ASM
R68	ASM	N0 ASM
D5	N0 ASM	ASM
R505	N0 ASM	ASM

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			Size	Document Number
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				PMIC-2	
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				A2	0.1
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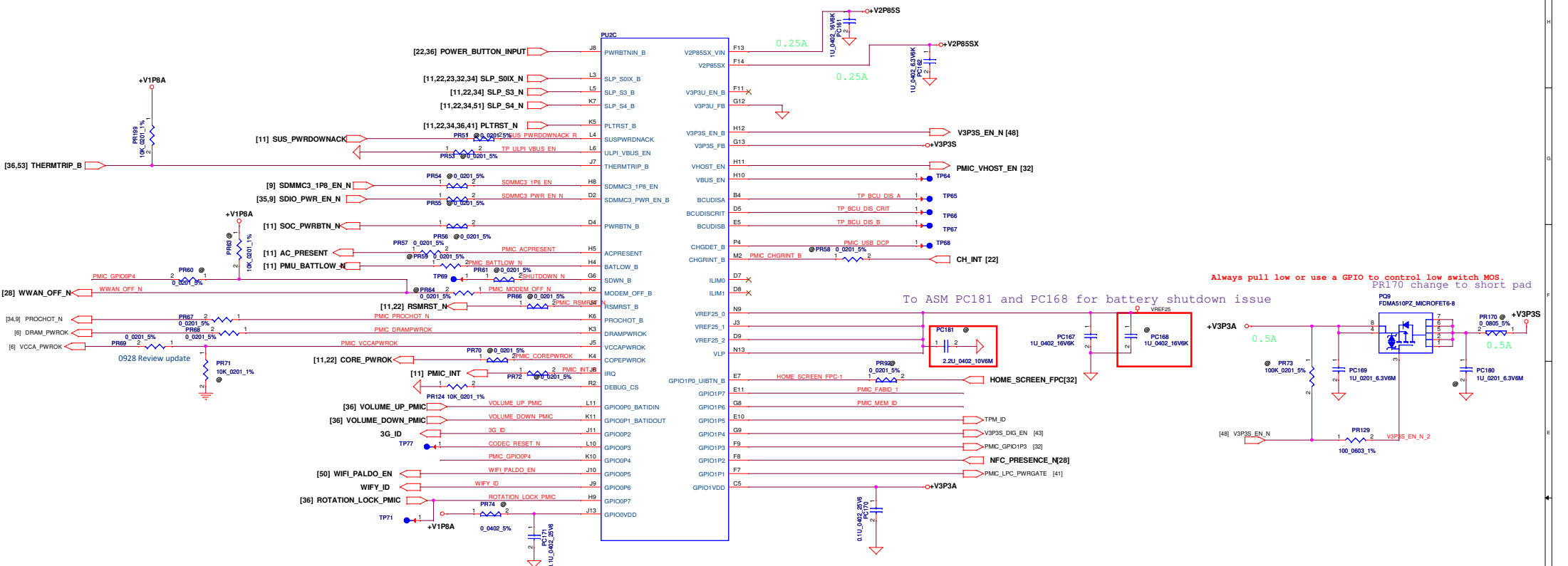
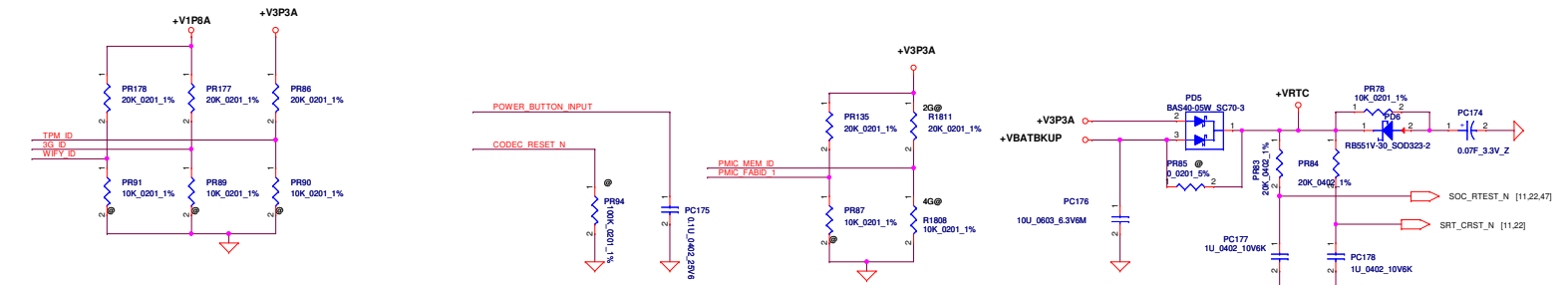
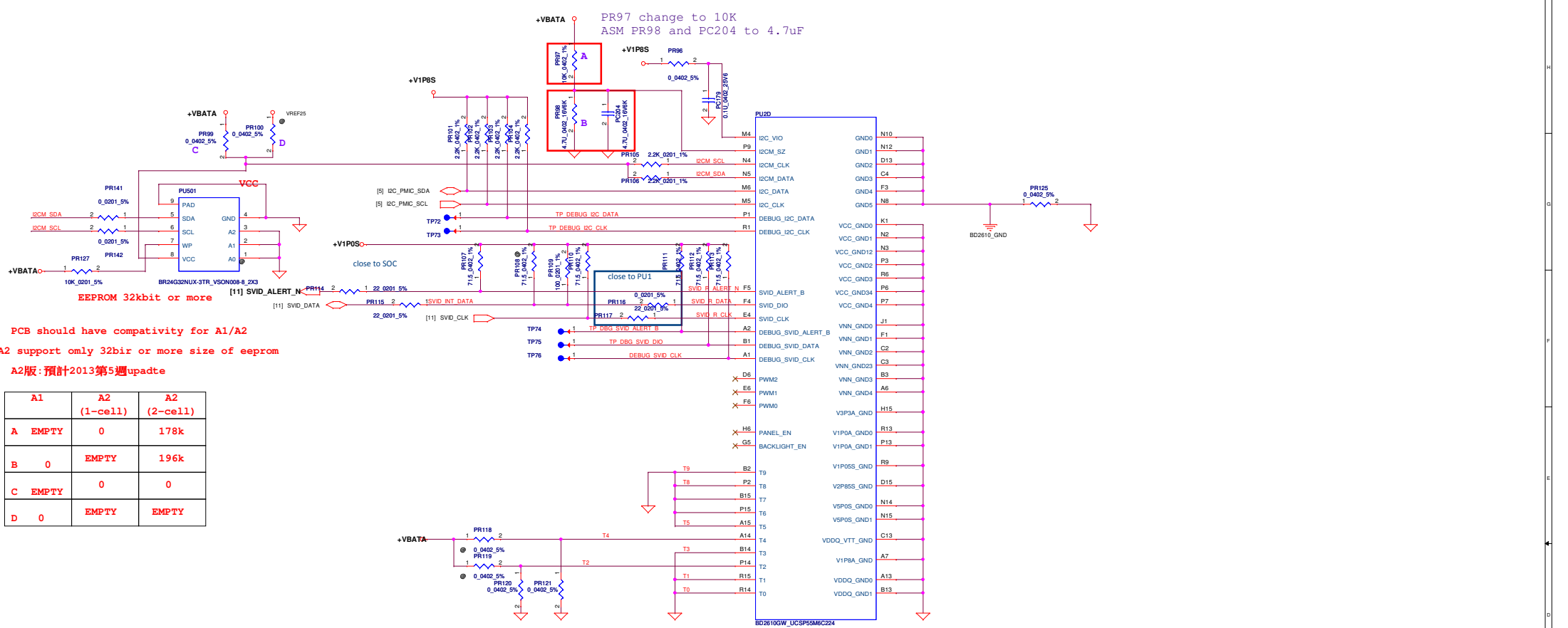


TABLE MEMORY STRAP

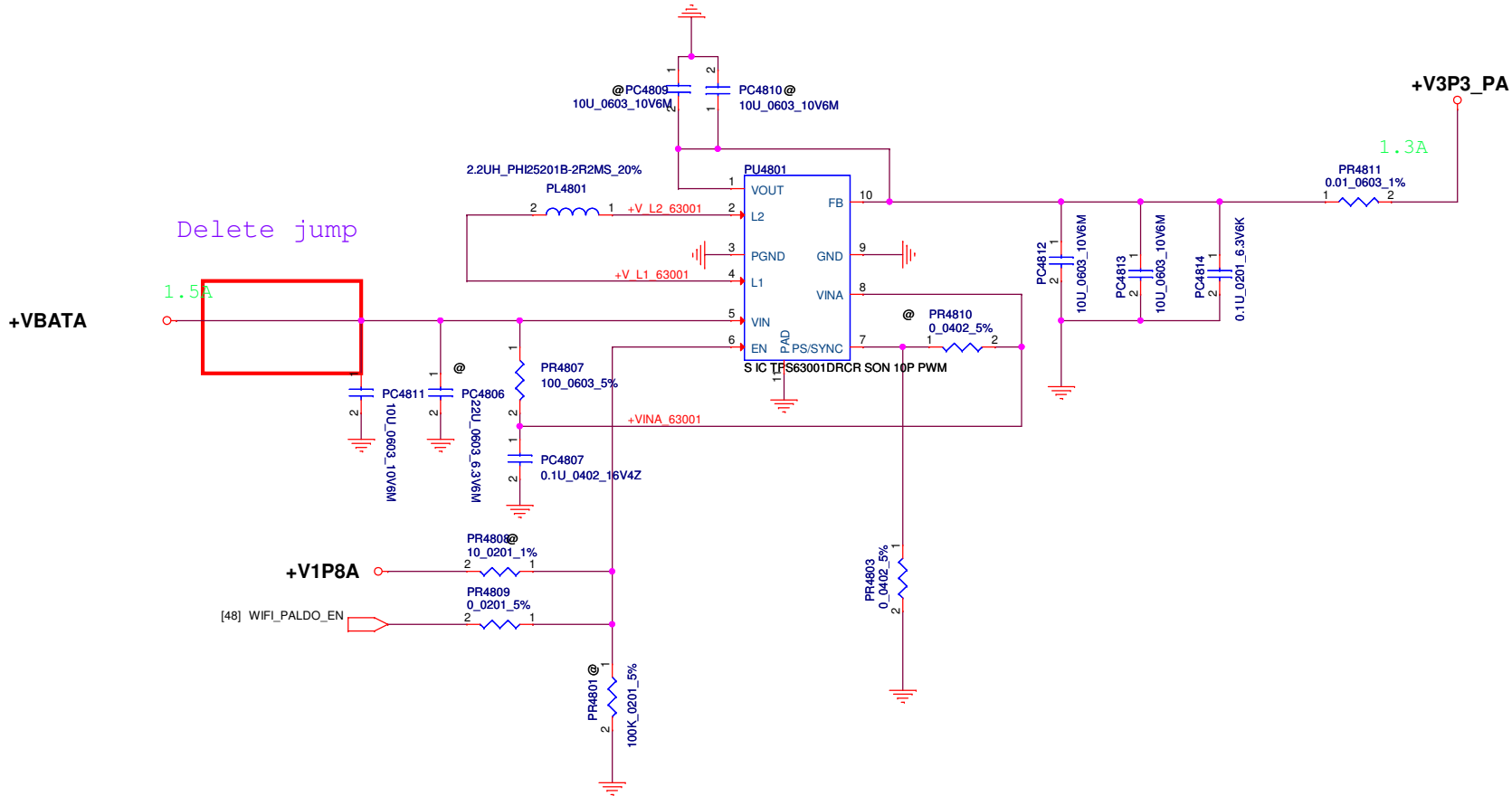
Location	2G	4G
R1811	ASM	NO ASM
R1808	NO ASM	ASM



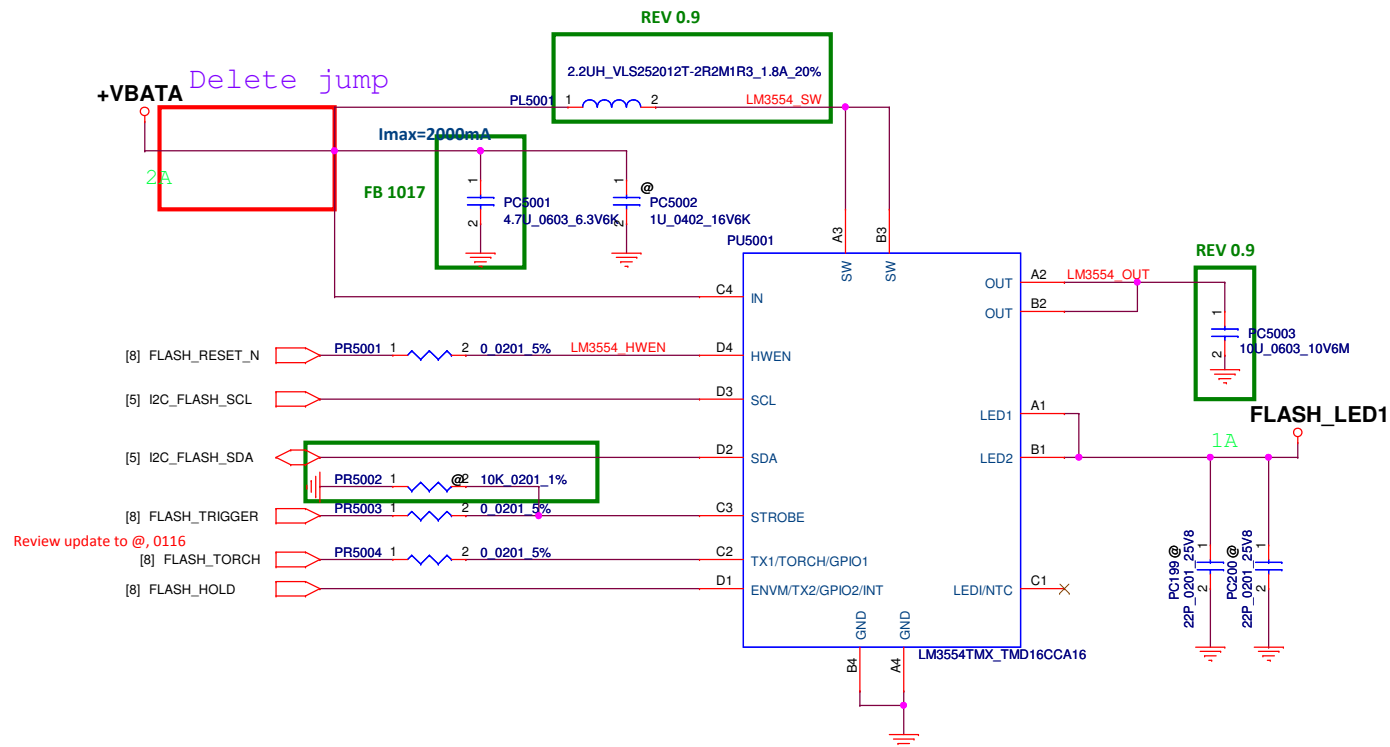
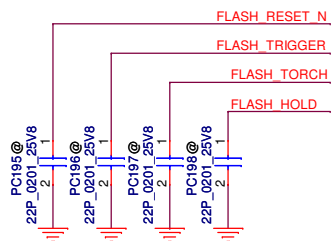
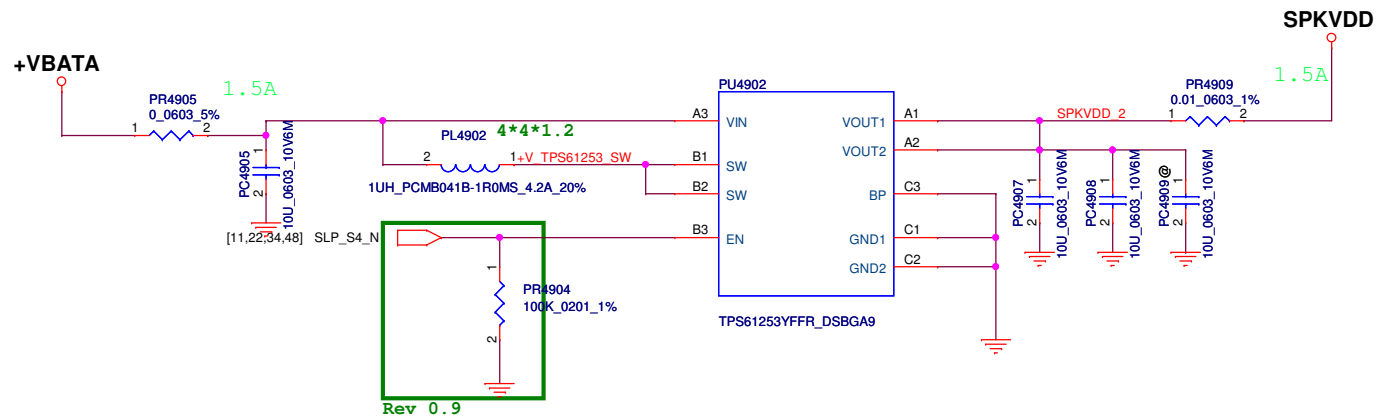


PCB should have compativity for A1/A2
A2 support only 32kbit or more size of eeprom
A2版:預計2013第5週update

A1	A2 (1-cell)	A2 (2-cell)
A	EMPTY	0
B	0	EMPTY
C	EMPTY	0
D	0	EMPTY



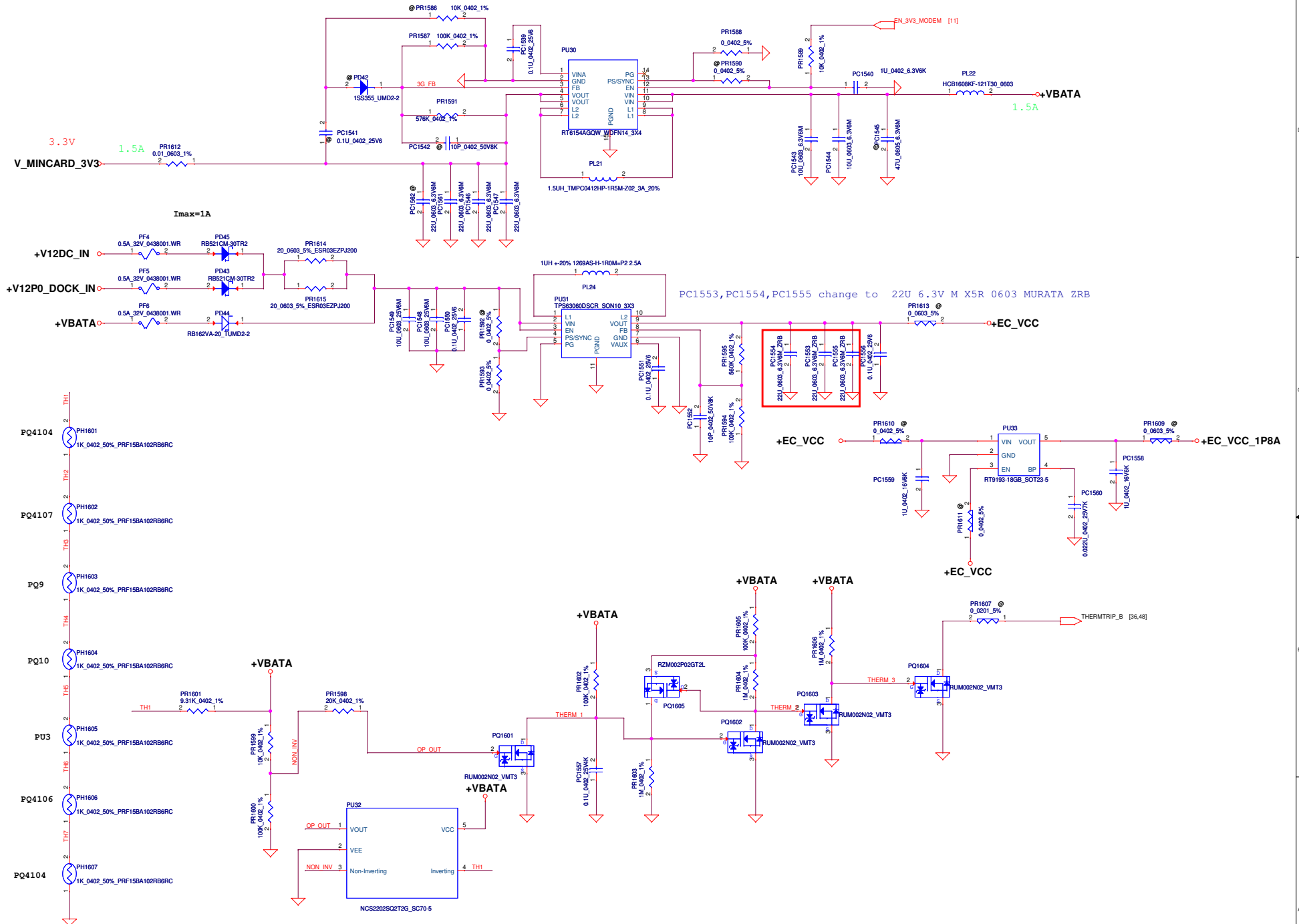
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2013/06/13	Deciphered Date	2009/06/22	Title	Wifi (Buck-Boost)
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								SPK 5V/Flash LED Driver			
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