

Compal Confidential

Model Name : Cheetah_CT
File Name : ZEJV4
BOM P/N:

Compal Confidential

ZEJV4 LA-A411P Schematics Document

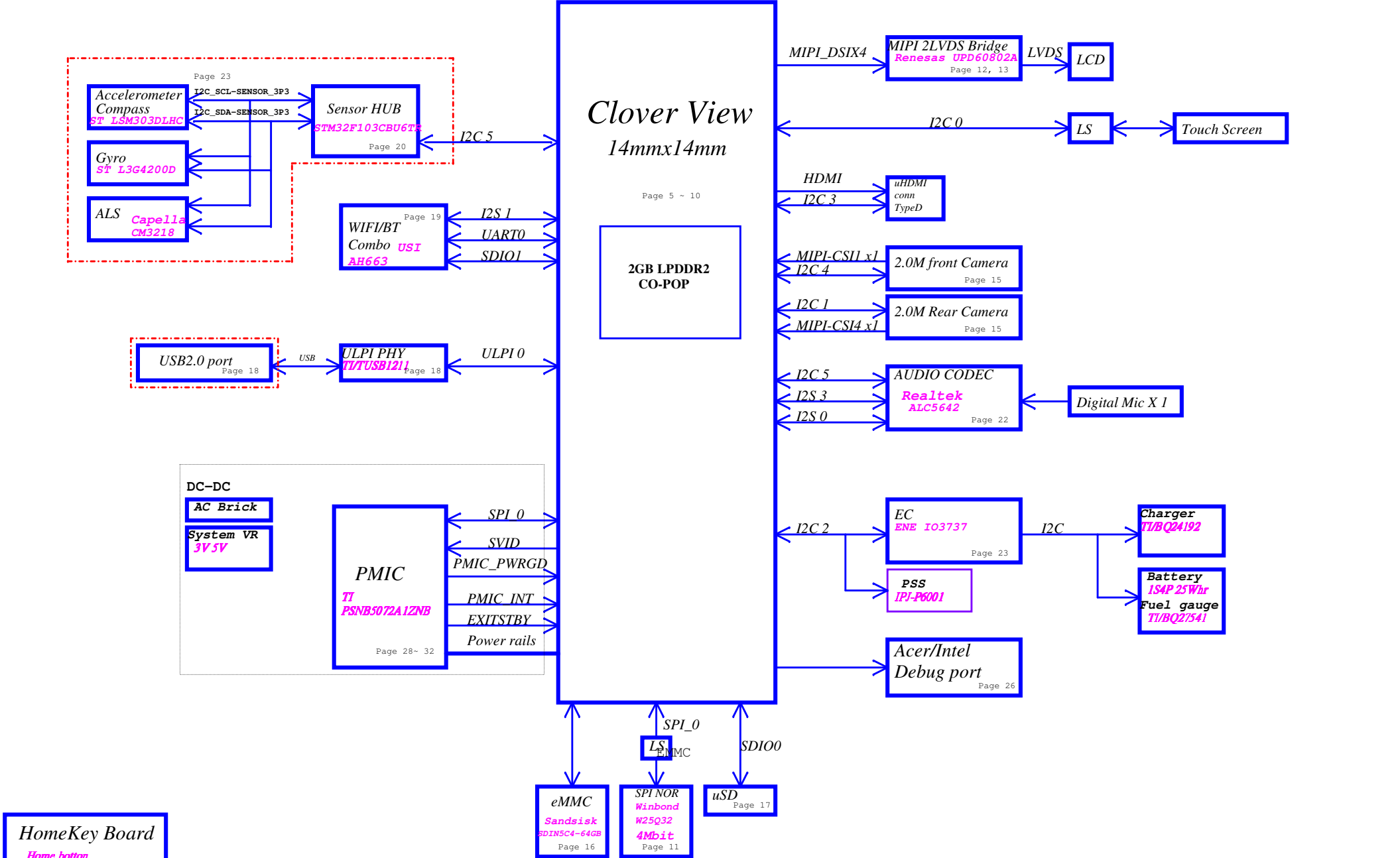
Intel Clover Trail

2013-04-15

REV: 1.0

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2013/02/04	Deciphered Date	2014/04/01	Title	Cover Page	
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System Block Diagram



Power rail

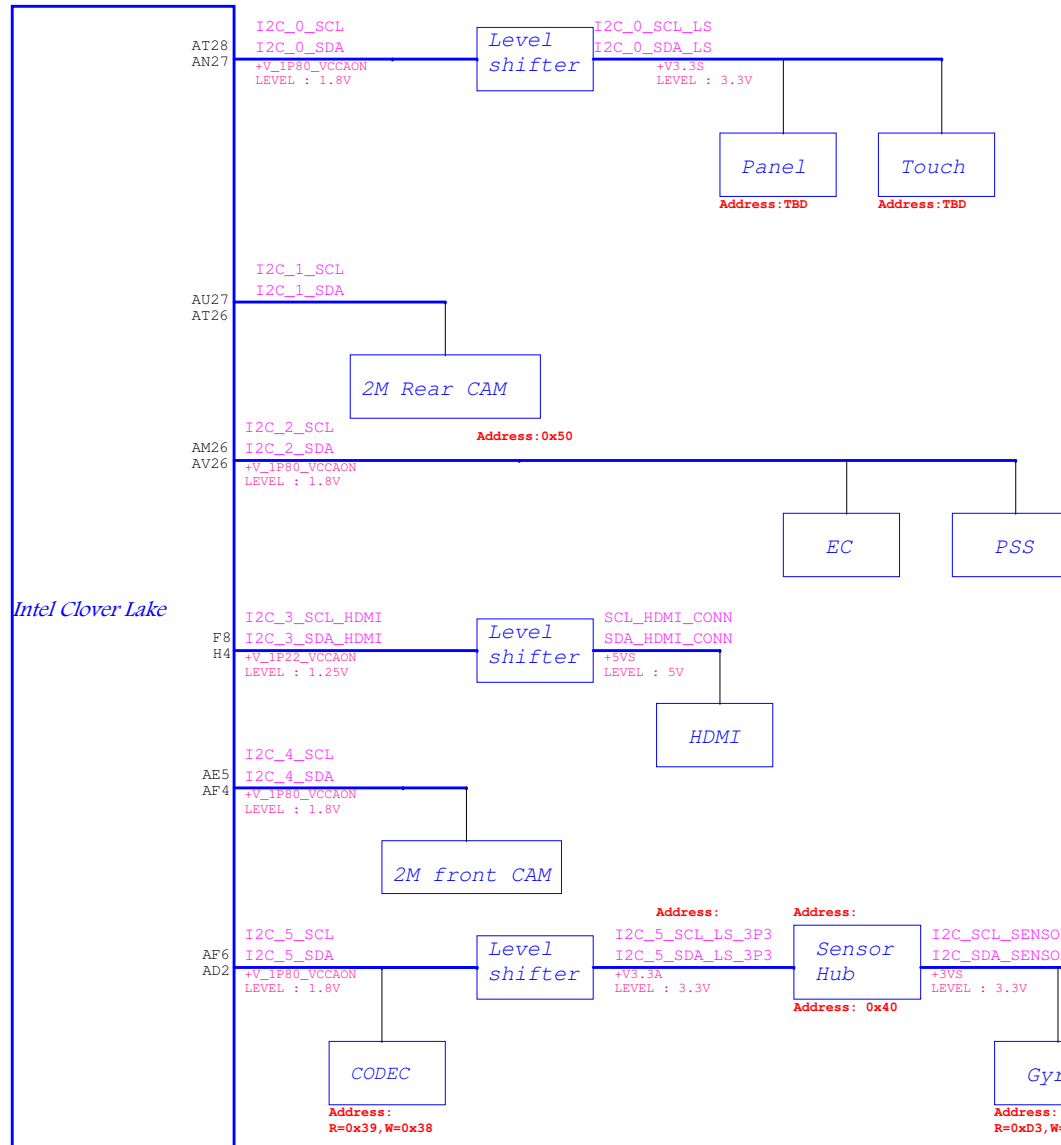
		Net name	Voltage	Comment
System		DC_IN	5V or 12V	adapter input
		+V_BATTERY	Max 4.2V	Battery input
		+VBATA	3.4V~4.2V	It's tablet's "B+"
		+V5A	5V	Should be 5VALW
		+V3_3A	3.3V	Should be 3VALW
		+V5S	5V	Should be 5VS
		+V3_3S	3.3V	Should be 3VS
PMIC	PMIC BUCK Converter	+V_VCC	0.3~1.2V	0.95V is default value
		+V_VNN	0.6~1.2V	0.95V is default value
		+V_VNNAON	0.6~1.2V	0.95V is default value
		+V_1P22_VCCAON	1.250V	1.25V is default value
		+V_1P80_AON	1.836V	1.836V is default value
		+V_1P08_VCCAON	1.08V	
		+V_1P08_VCCAS	1.08V	
	PMIC LDO	+V_1P08_VCC	1.08V	
		+V_1P00_VCCAS	1.025V	
		+V_1P00_VCCA	1.025V	
		+V_2P85_1P80_VCCSDIO	2.85V	2.85V is default value
		+V_2P80_VPROG1	1.2V	1.2V is default value
		+V_2P80_VPROG2	1.2V	1.2V is default value
		+V_2P85_EMMC1	2.85V	
		+V_2P85_EMMC2	2.85V	No routing
	PMIC PWM output	+V_1P80_AON	1.8V	
		+V_1P80_VCCAON	1.8V	
		+V_1P80_VCC	1.8V	
		+V_3P30_VCC	3.3V	

IO MAP

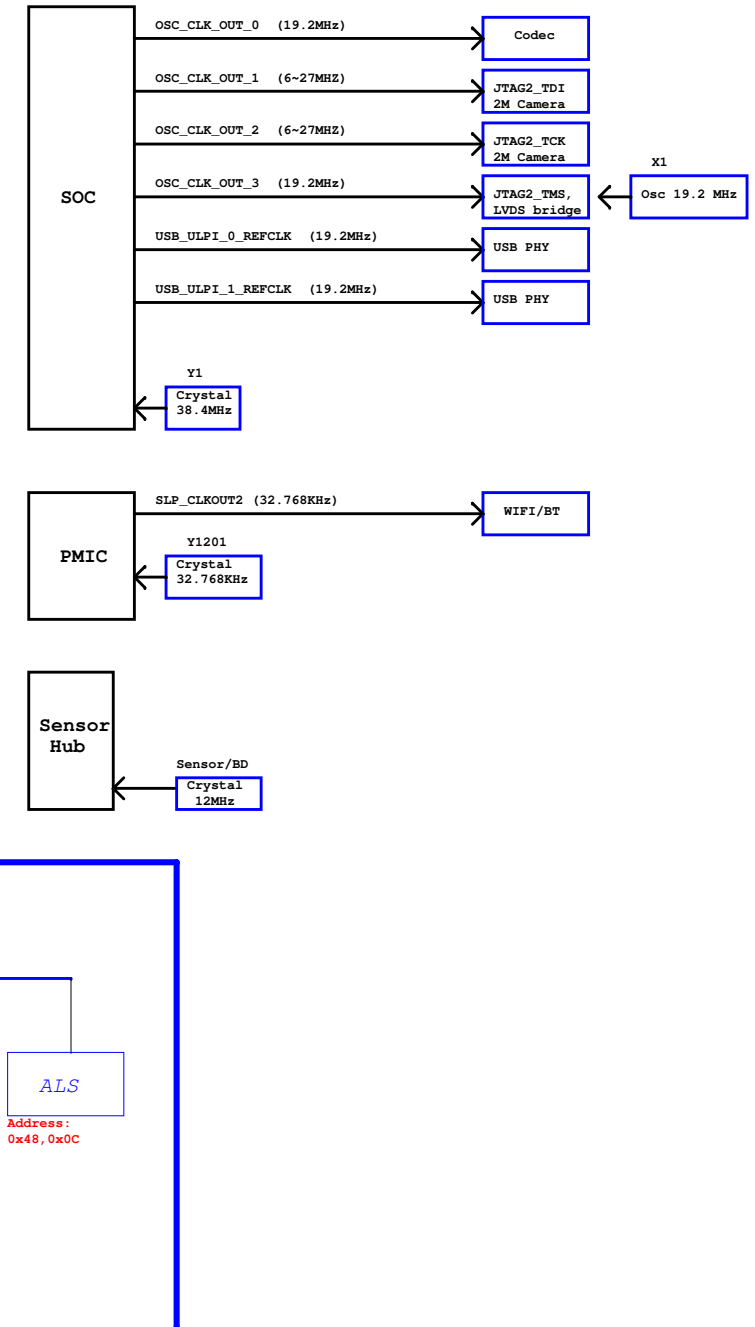
Interface		Device
MIPI DSI		LVDS Bridger
MIPI CSI	X1	2M Camera
	X1	2M Camera
MIPI HSI		NC
LPC		NC
EMMC	0	EMMC
	1	NC
HDMI		HDMI Conn.
SDIO	0	Micro SD
	1	WIFI/BT
	2	NC
SVID		PMIC
SPI	0	FLASH ROM/PMIC/XDP
	1	XDP
	2	Test Point
	3	NC
ULPI	0	Internal USB
	1	POGO conn
UART	0	WIFI/BT
	1	NC
	2	XDP
I2S	0	Codec
	1	BT PCM
	2	NC
	3	Codec
I2C	0	LVDS / Panel / Touch screen
	1	2M rear camera
	2	Charger / Battery / PSS
	3	HDMI
	4	2M front camera
	5	Codec / Sensor Hub

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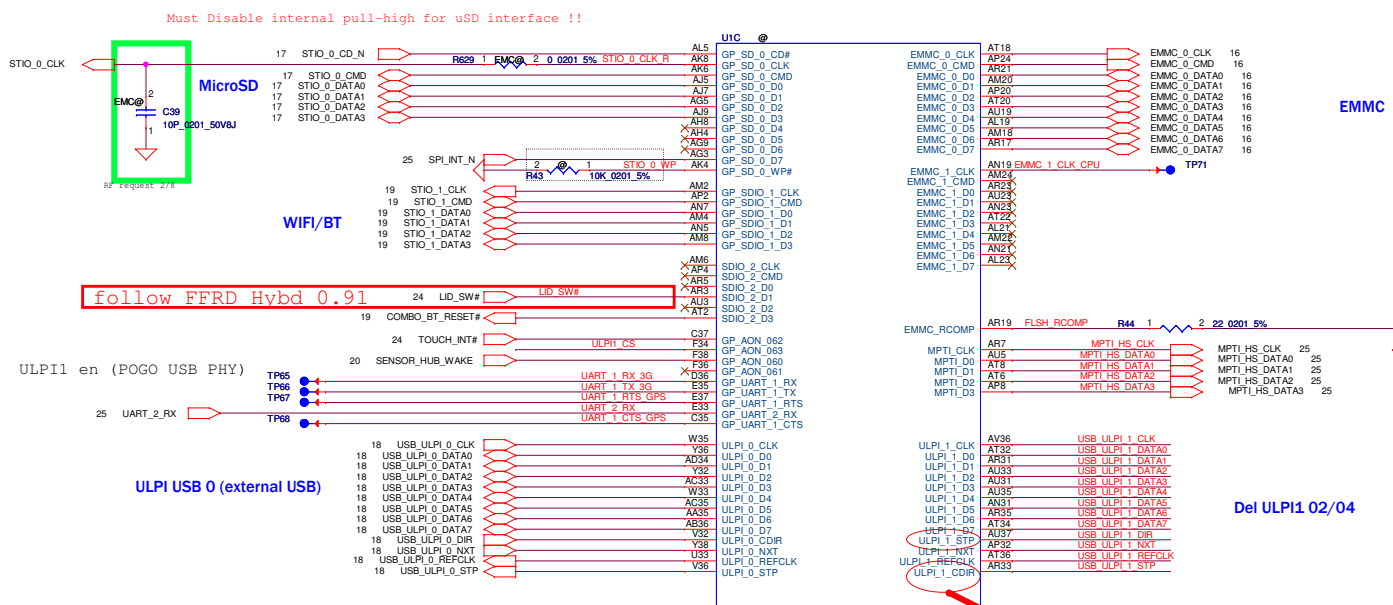
I2C Routing



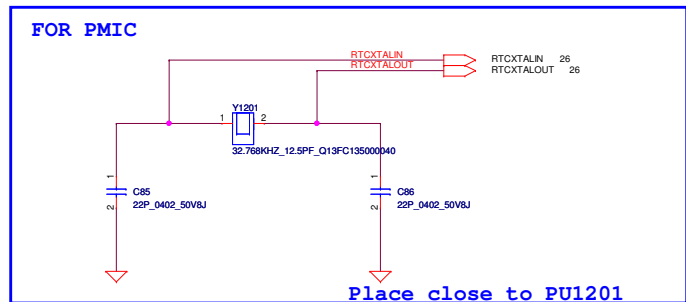
Clock Distribution

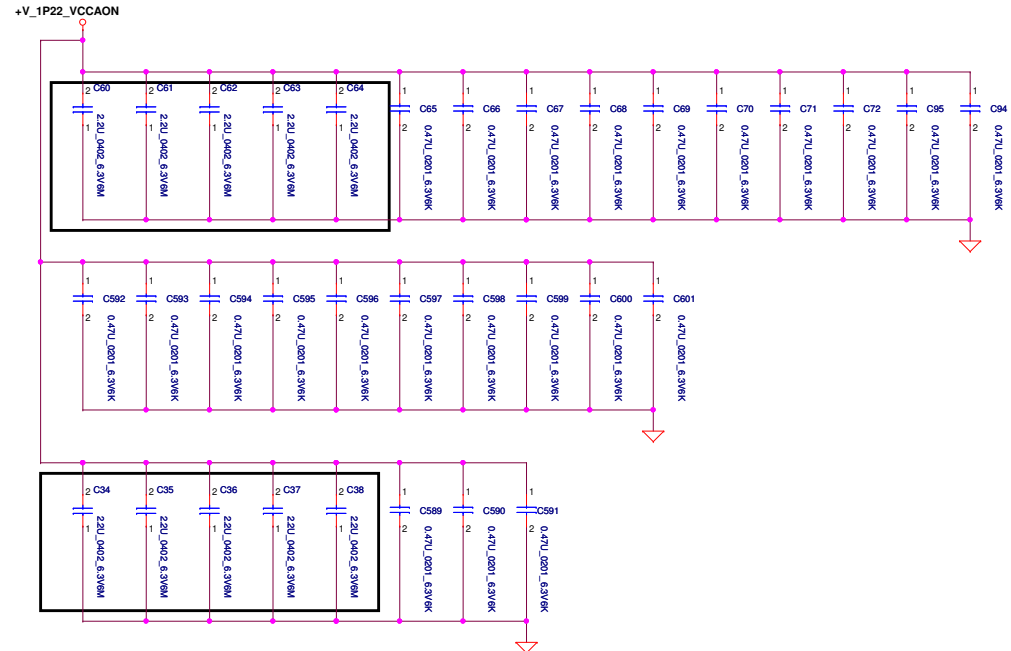
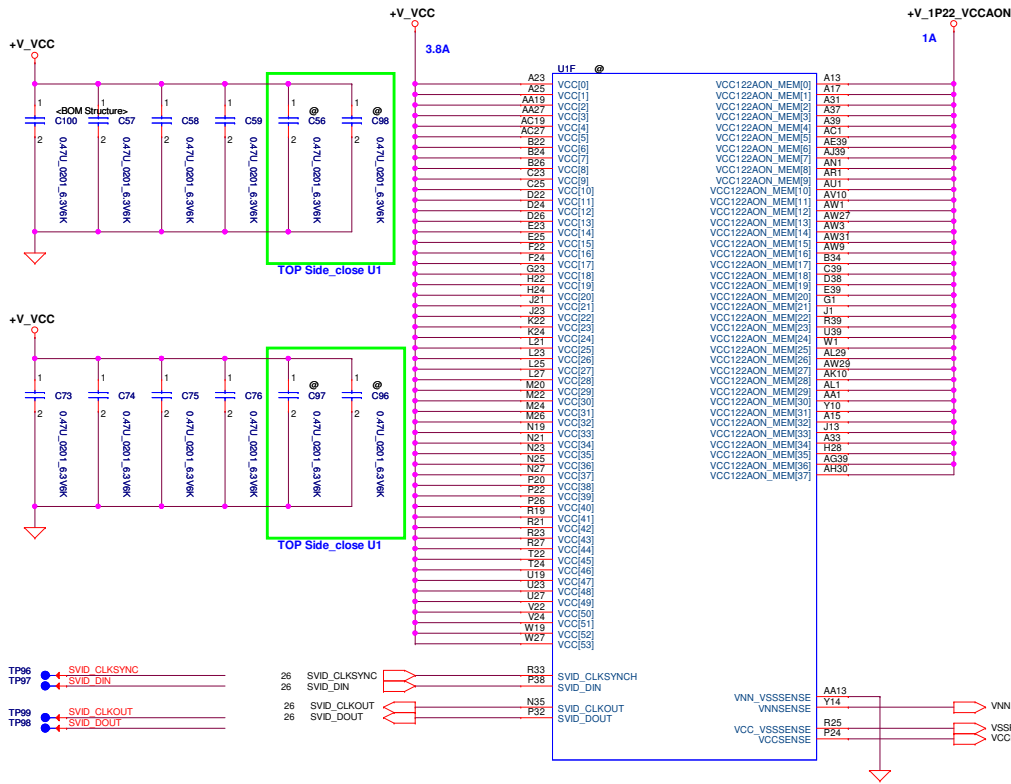


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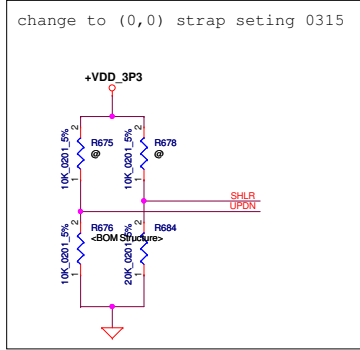
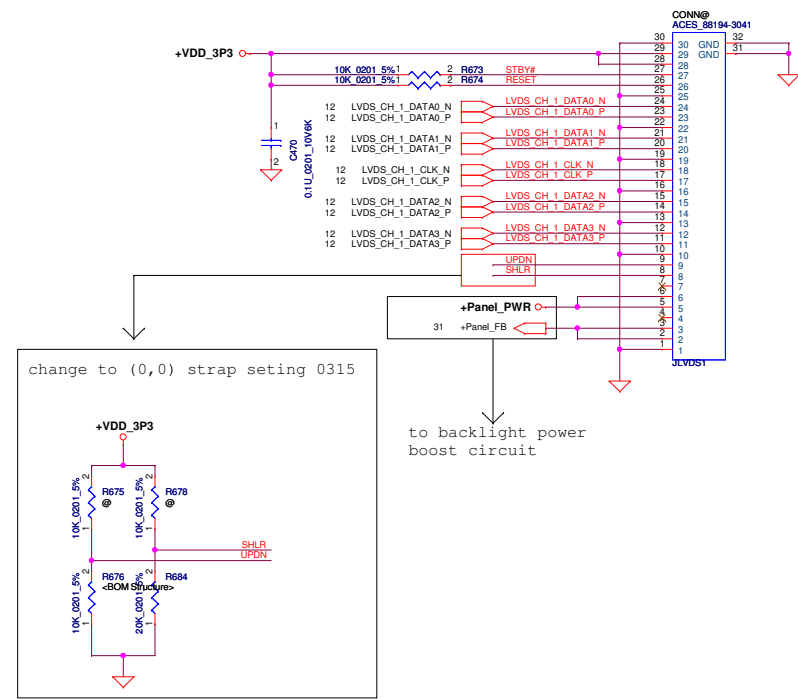
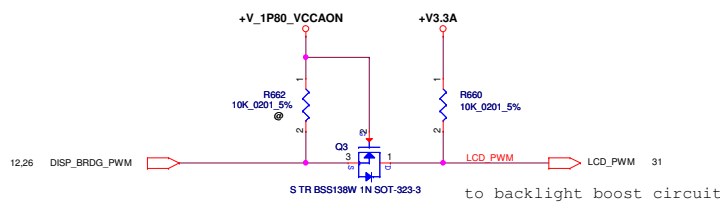
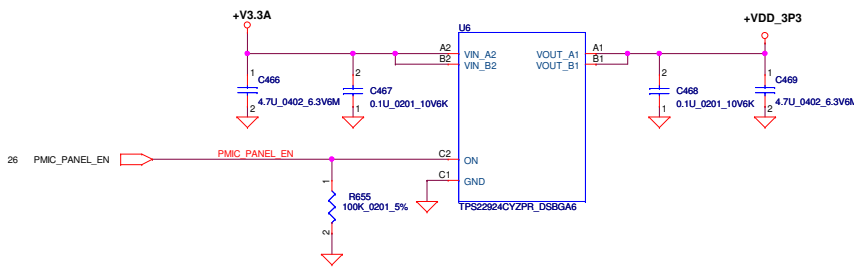


Those two pins were labeled in error on the SoC and in the EDS
 The correct pinout is:
 ULPI1_DIR = AU37
 ULPI1_STP = AR33

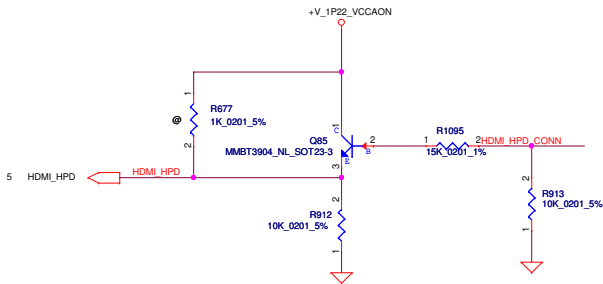




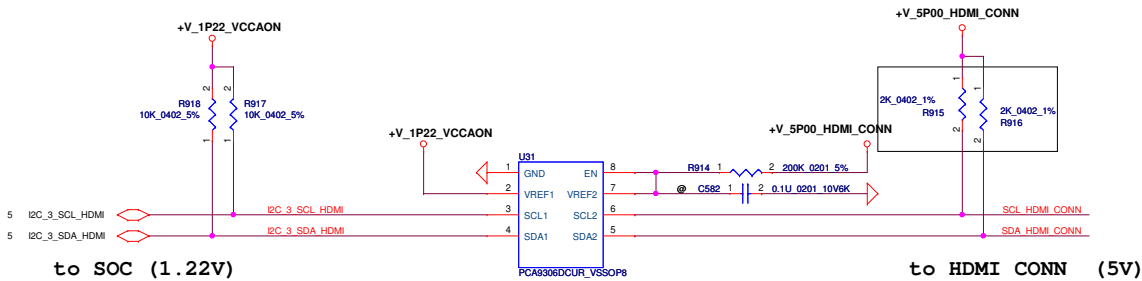
Power Rail	FFRD Hyprid 0.91	FFRD SLATE 1.1	Tango1116	Coach	Coach 1121
VNN	0.47uF x 7 (82)	0.47uF x 7 (82)	0.47uF x 16 (810)	0.47uF x 15 (81)	0.47uF x 8 / 2.2uF x 4
VNNAON	0.47uF x 5	0.47uF x 6	0.47uF x 9 (87)	0.47uF x 9 (81)	0.47uF x 4 / 2.2uF x 2
VCC	0.47uF x 11 (83)	0.47uF x 10 (82)	0.47uF x 12 (84)	0.47uF x 12 (84)	0.47uF x 12 (84)
VCC108	0.47uF x 7	0.47uF x 7	0.47uF x 7	0.47uF x 7	0.47uF x 4 / 2.2uF x 1
VCC108AS	0.47uF x 2 (81)	0.47uF x 2 (81)	0.47uF x 2	0.47uF x 2	0.47uF x 2
VCC108AON	0.47uF x 2	0.47uF x 2	0.47uF x 5 (83)	0.47uF x 5 (83)	0.47uF x 5 (83)
VCC122_180AON_I2C/I2S	0.47uF x 12	0.47uF x 13	0.47uF x 13	0.47uF x 13	0.47uF x 7 / 2.2uF x 3
VCC180AON_SRAM					
VCC122AON	0.47uF x 25	0.47uF x 25	0.47uF x 24	0.47uF x 24	0.47uF x 23 / 2.2uF x 10
VDD2	0.47uF x 9	0.47uF x 10			
VCC122AON_MEM	0.47uF x 14	0.47uF x 14	0.47uF x 24 (89)	0.47uF x 24	
VCCA100	0.47uF x 7	0.47uF x 7	0.47uF x 7	0.47uF x 7	0.47uF x 7
VCCA100AS	0.47uF x 3	0.47uF x 3	0.47uF x 5 (82)	0.47uF x 5 (82)	0.47uF x 5 (82)
VCCSDIO	0.47uF x 2	0.47uF x 2	0.47uF x 2 (82)	0.47uF x 2 (82)	0.47uF x 2 (82)
VDD1	0.47uF x 10	0.47uF x 10	0.47uF x 10	0.47uF x 10	0.47uF x 5 / 2.2uF x 2
VCC330	0.47uF x 1	0.47uF x 1	0.47uF x 3 (82)	0.47uF x 3 (82)	0.47uF x 3 (82)



HDMI Hot plug circuit

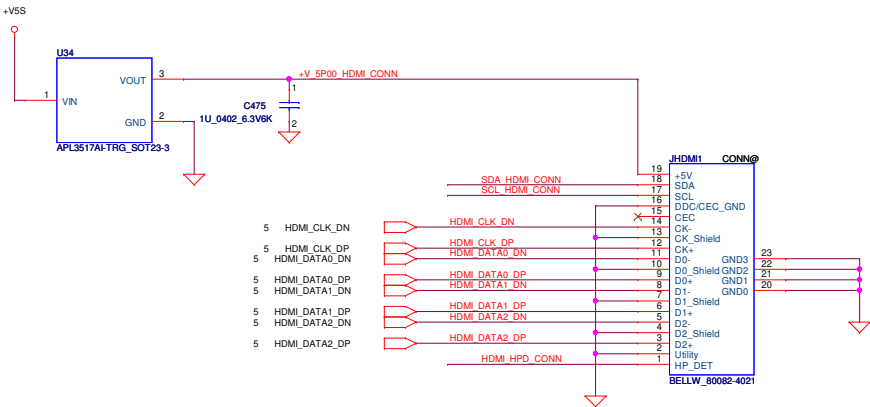


EDID I2C level shift

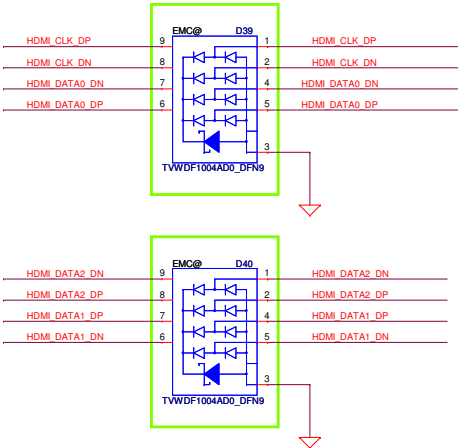


Check SMBUS pull high vaule

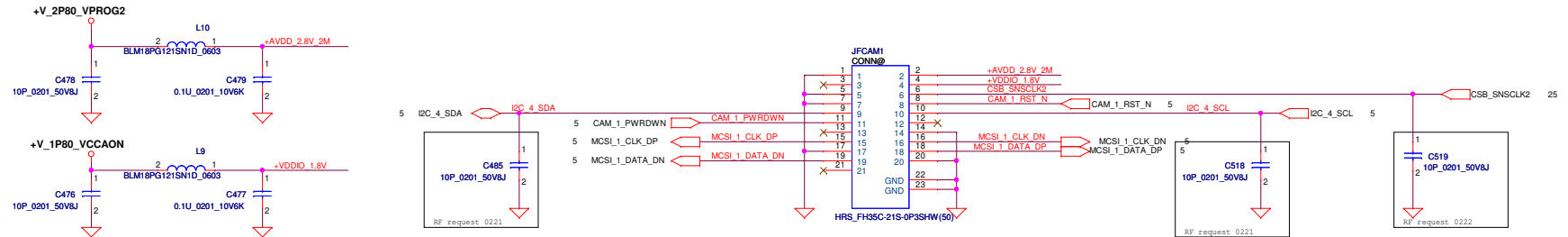
HDMI 5V protection and connector



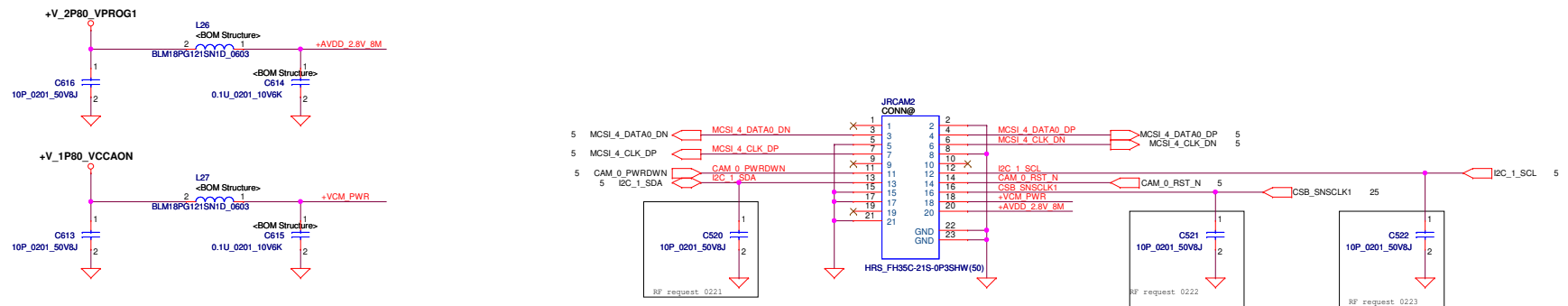
HDMI ESD protection



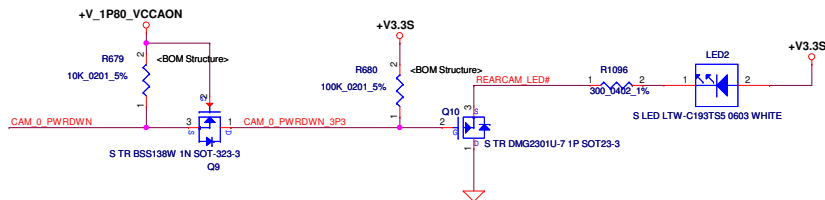
2M front Camera



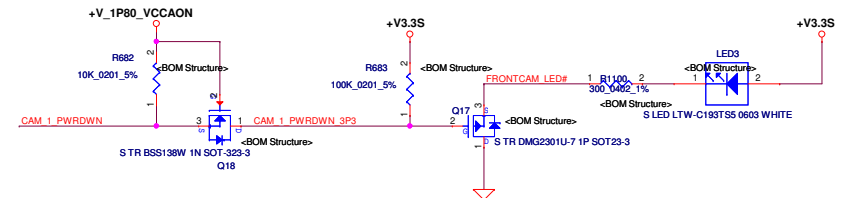
2M rear Camera



Rear Camera LED

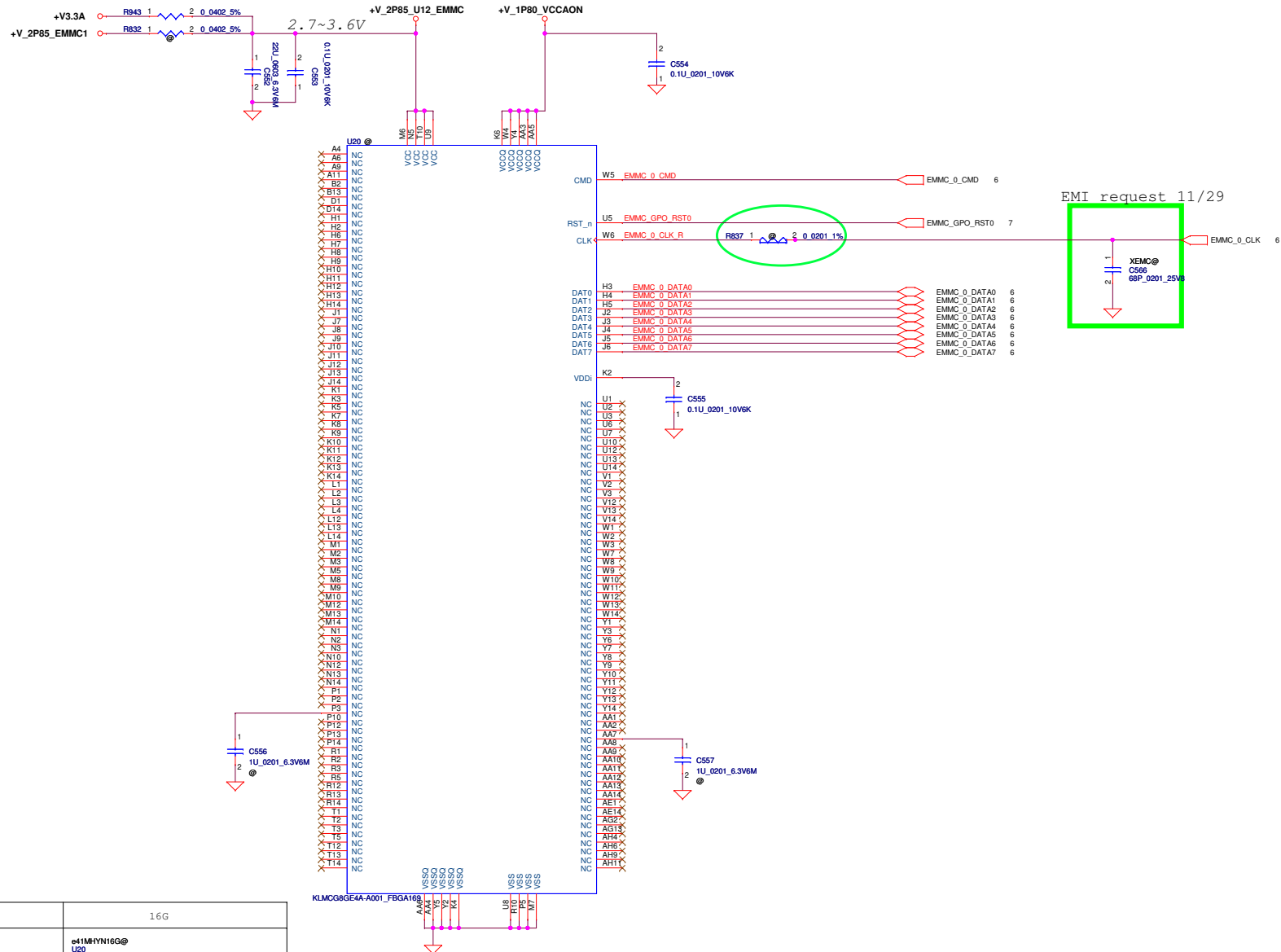


Front Camera LED



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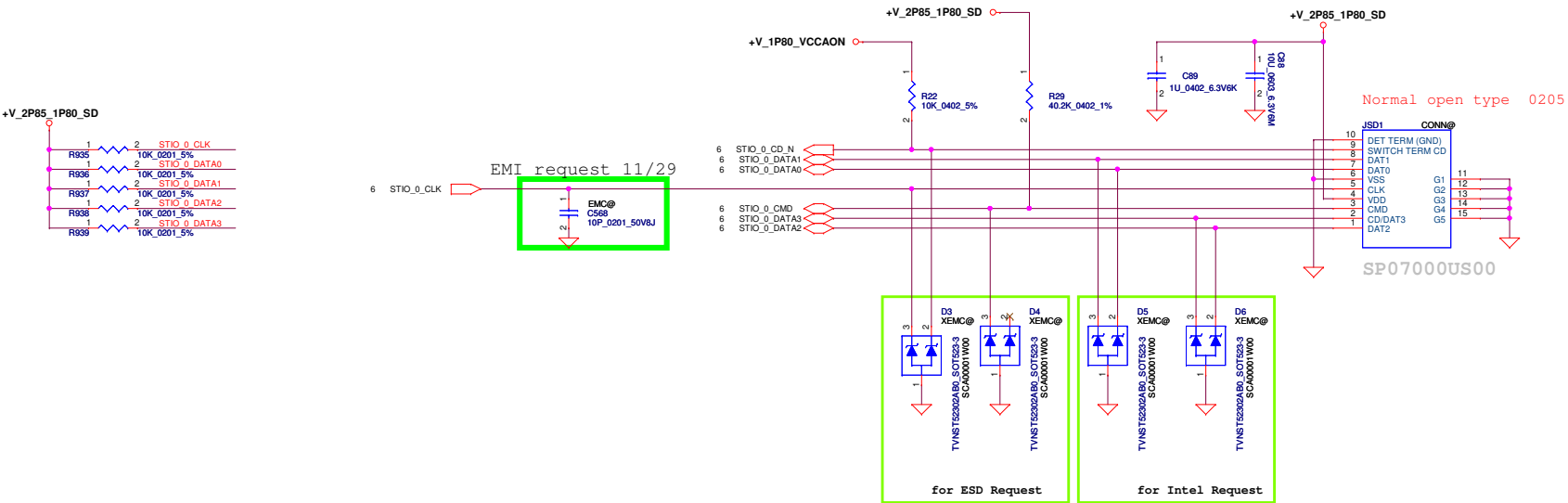
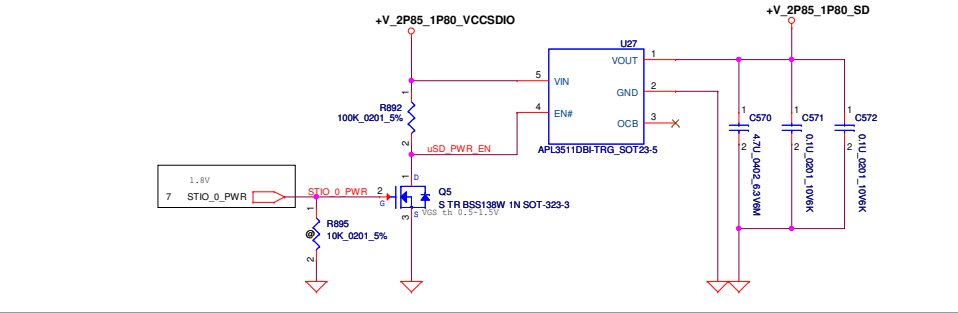
eMMC



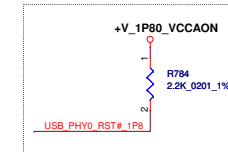
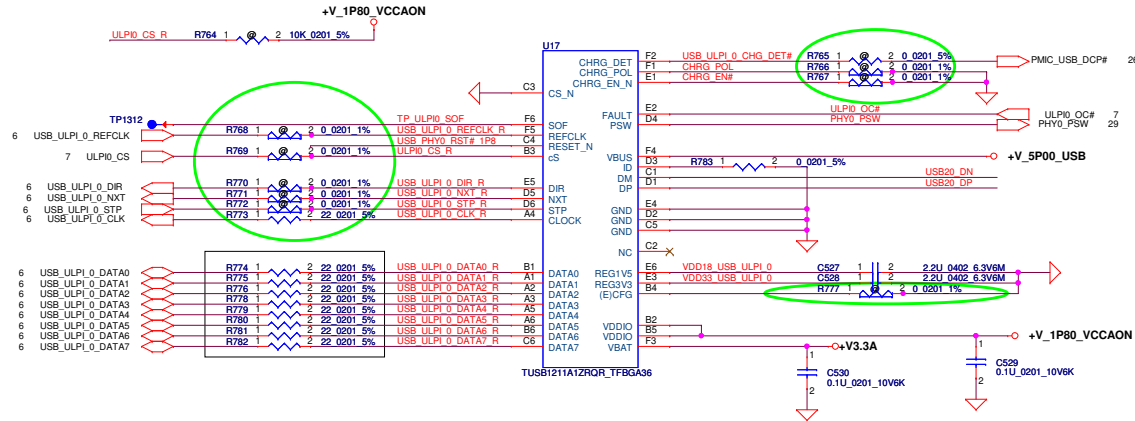
	64G	32G	16G
V4.41	e41MSAM64G@ U20 S IC FL 64G KLMCG8GE4A-A001 FBGA169 ABO ! SA00005GT10	e41MSAM32G@ U20 S IC FL 32G KE4CN5B6A FBGA 169P ABO ! SA00006DY10	e41MHYN16G@ U20 S IC FL 16G H26M52002EQR FBGA 169P ABO ! SA00006DW10
V4.5	eMHYN64G@ U20 S IC FL 64G H26M78003BFR FBGA 169P ABO ! SA000068D20 eMSAM64G@ U20 S IC FL 64G KLMCG8GEAC-B001 FBGA153 ABO ! SA00006U10	eMHYN32G@ U20 S IC FL 32G H26M64003DQR FBGA 169P ABO ! SA000068C20 eMSAM32G@ U20 S IC FL 32G KLMBG4GEAC-B001 FBGA153 ABO ! SA00006UU10	

Micro SD

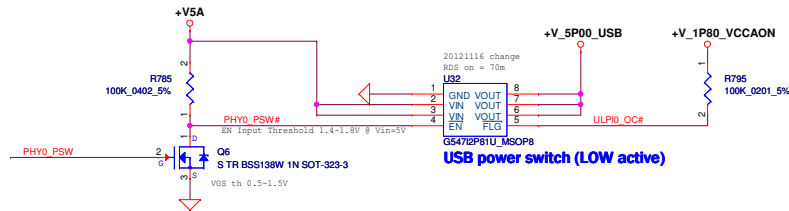
Micro SD power supply circuit



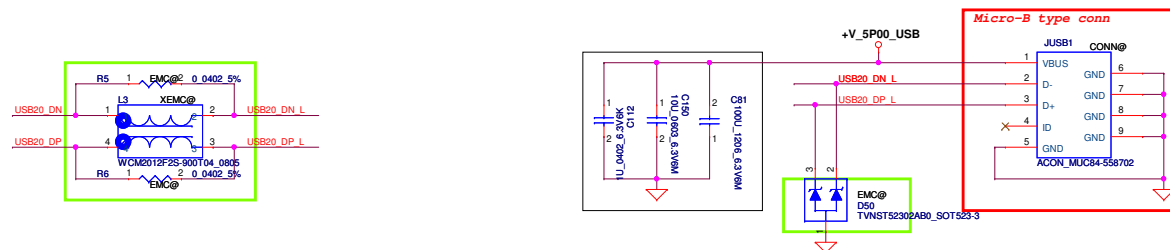
**Internal USB
ULPI-0_USB2.0 PHY**



USB power switch



USB connector

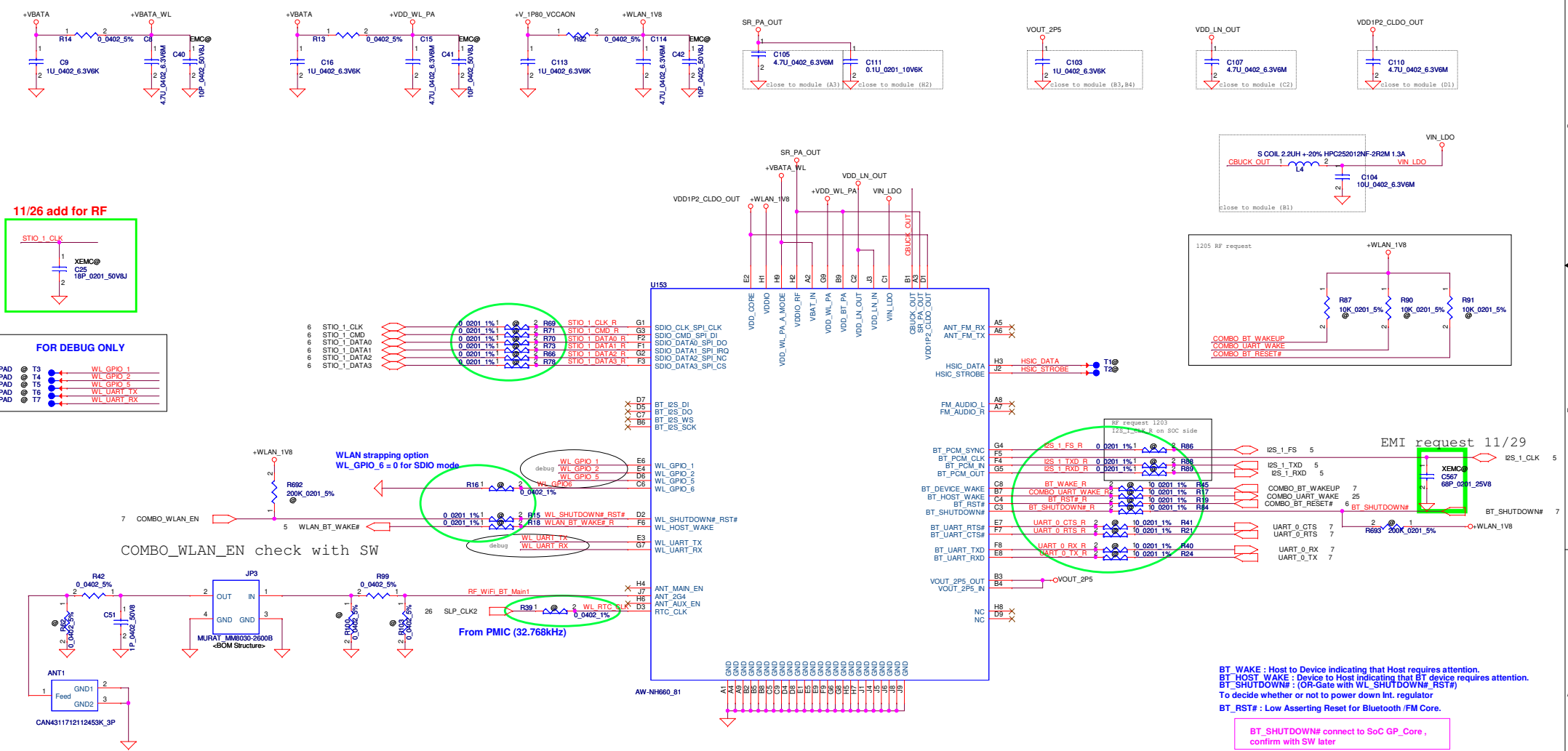


The ID pin on a Micro-A plug shall be connected to the GND pin. The ID pin on a "Micro-B" plug is not connected or is grounded by a resistance of greater than $R_{b_PLUG_ID}$ (100k Ω MIN). On the Micro-B plug, the ID pin is required to be able to detect whether a Micro-A or Micro-B plug is inserted by determining if the ID pin resistance to ground is less than $R_{a_PLUG_ID}$ (10 Ω MAX) or if the resistance to ground is greater than $R_{b_PLUG_ID}$. Any ID resistance less than $R_{a_PLUG_ID}$ shall be treated as ID = FALSE and any resistance greater than $R_{b_PLUG_ID}$ shall be treated as ID = TRUE.

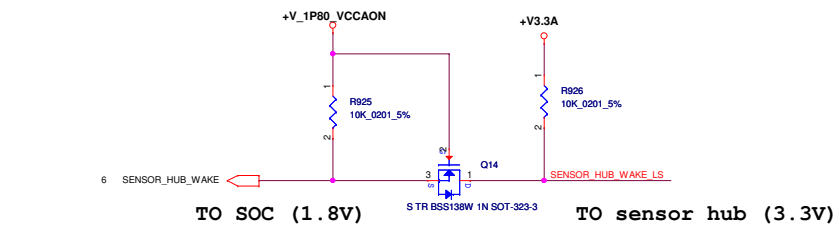
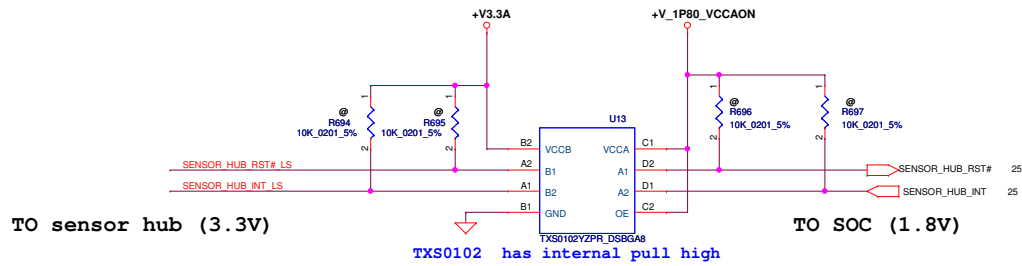
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VBAT_IN	Power supply for Internal Regulators	2.3~4.8V
SR_PA_OUT	Power supply out from internal LDO	3.3V
VDD_WL_PA_A_MODE	Power supply for internal Power amplifier	2.3~5.5V
VDDIO_RF	I/O power supply for RF front-end	3.3V
VDD_BT_PA	Power supply for BT PA	3.3V
VDD_WL_PA	Power supply for WLAN PA driver	2.3~5.5V
CBUCK_OUT	Power supply for Internal CLDO/LDO1	1.35~2V
VOOUT_2P5_IN	Power supply for FM	2.5V
VOOUT_2P5_OUT	Power supply from internal LDO	2.5V
VIN_LDO	Power supply to internal Regulator	1.5V
VDD_LN_IN	Power supply for Noise Sensitive Block (AFE,PLL...)	1.14~1.26V
VDD_LN_OUT	Power supply for Noise Sensitive Block (AFE,PLL...)	1.14~1.26V
VDD1P2_CLDO_OUT	Power supply from Internal CLDO	1.14~1.26V
VDD_CORE	Power supply for Core Voltage	1.14~1.26V
VDDIO	I/O power supply for BT/FM/GPIO	1.2~2.9V

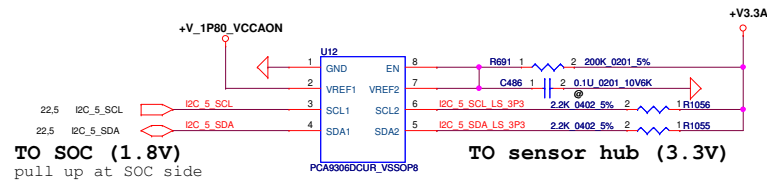
AW-NH660	WL_SHUTDOWN#_RST#	BT_SHUTDOWN#	BT_RST#
WL on/BT on	H	H	H
WL on/BT off	H	H	L
WL off/BT on	L	H	H
WL off/BT off	L	L	L



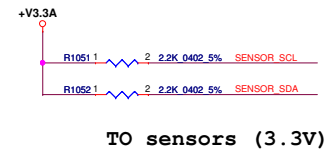
Sensor Hub GPIO level shift



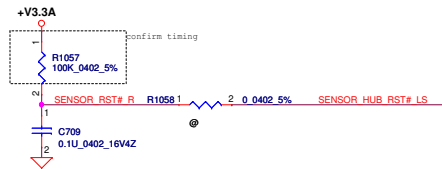
Sensor Hub I2C level shift



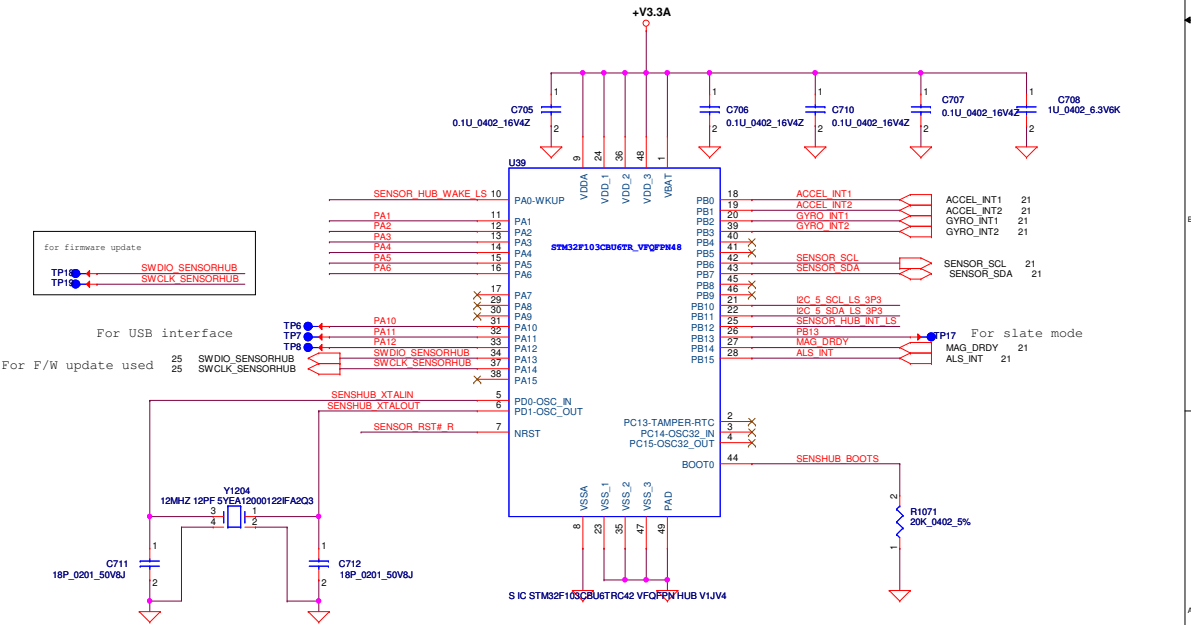
Sensor Hub I2C pull up



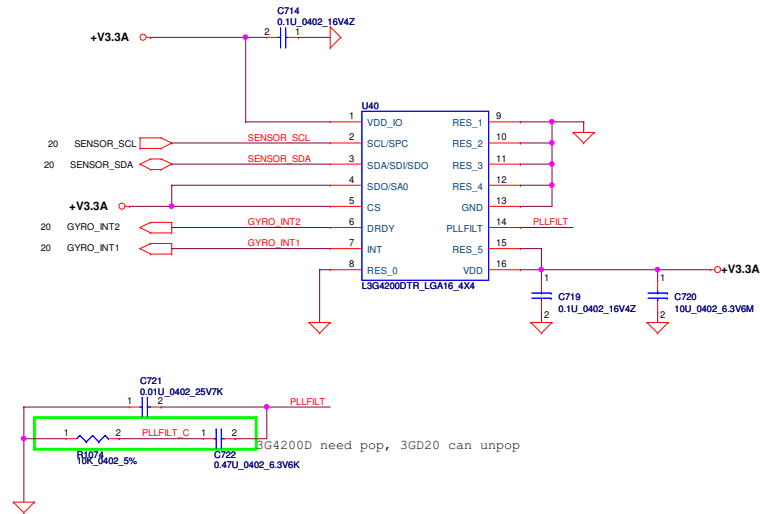
Sensor Hub RST circuit



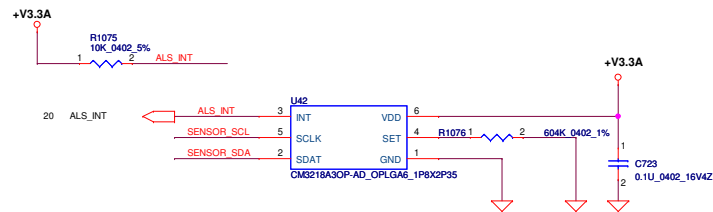
Sensor Hub circuit



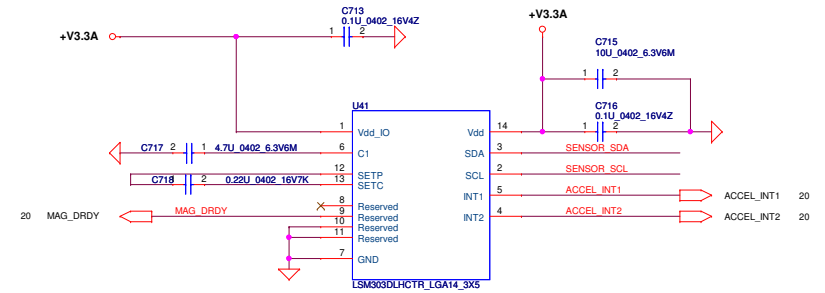
GYROSCOPE



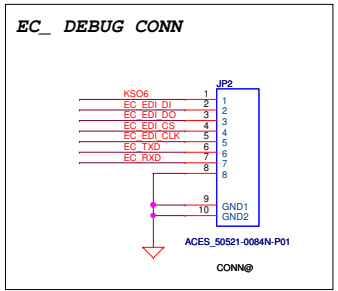
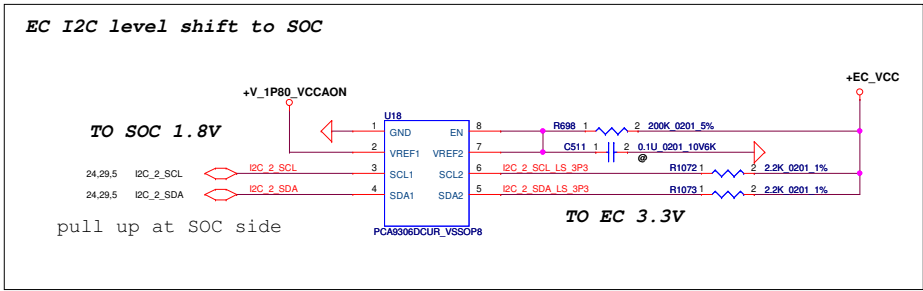
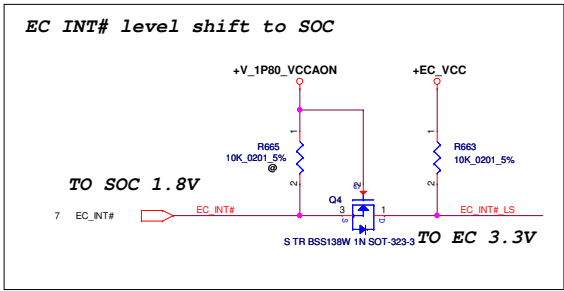
LIGHT SENSOR



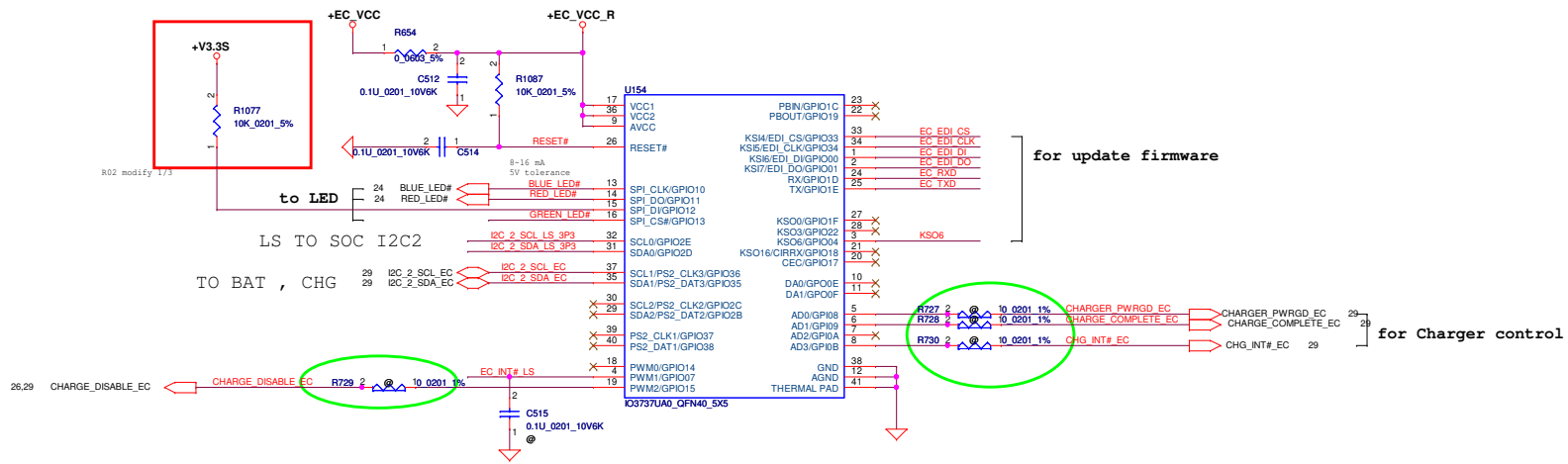
Accelerometer & E-COMPASS



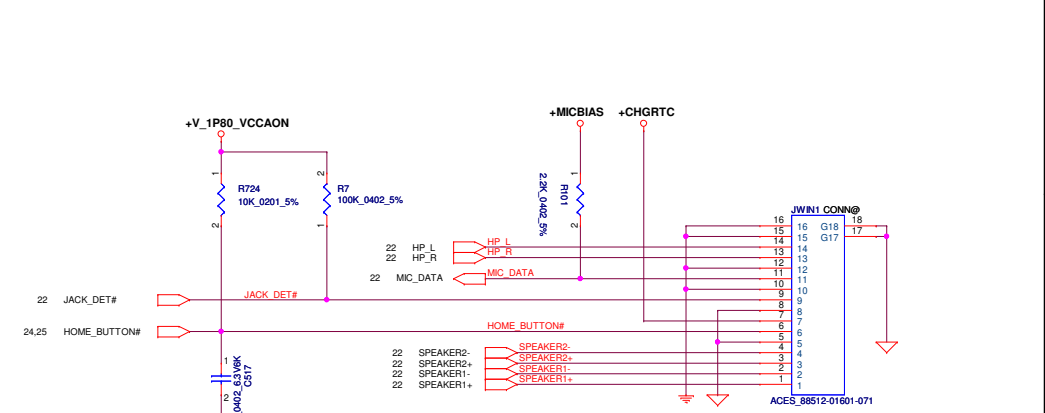
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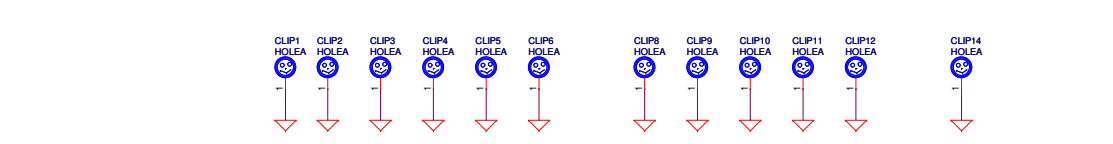
EC _ ENE IO3737



HOME Key/SPK/Jack SUB Board Conn.



Shielding Clip

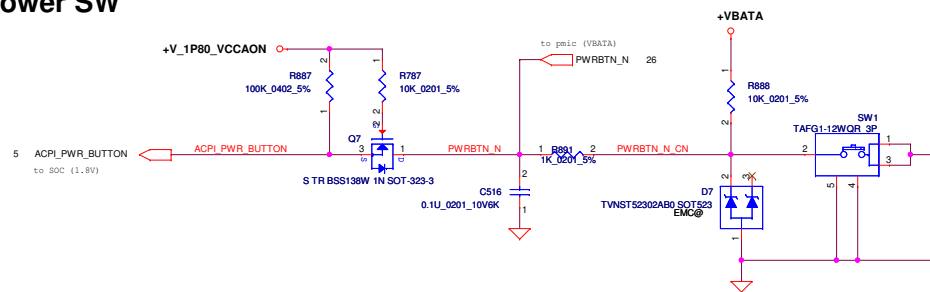


SCREW / FD

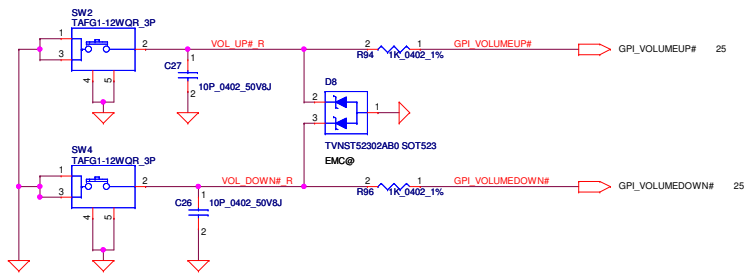


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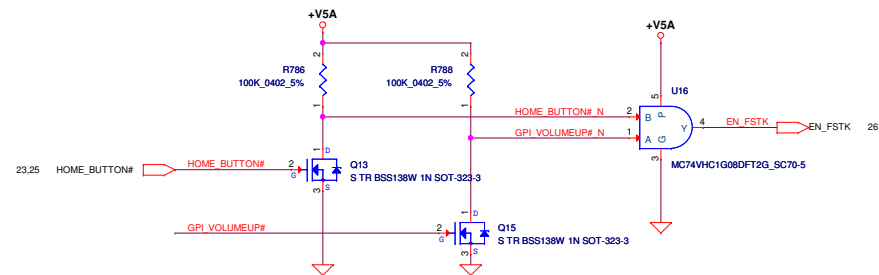
Power SW



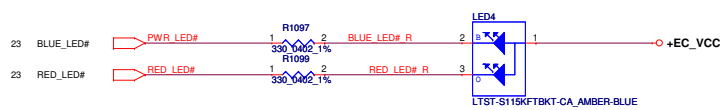
Volume button up / down



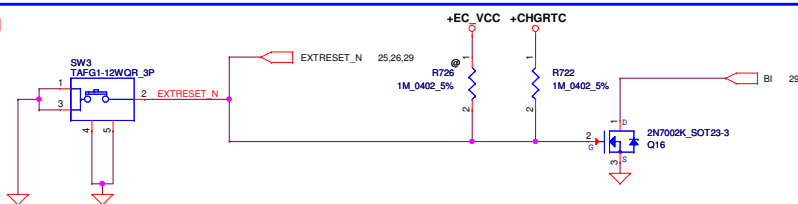
for into recovery mode



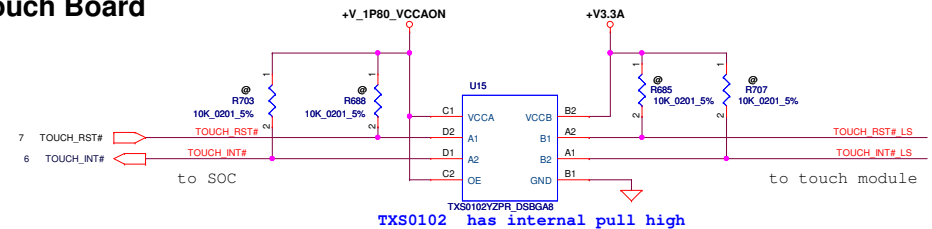
POWER LED



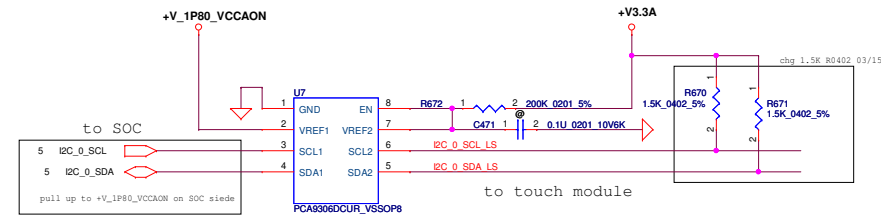
RST switch



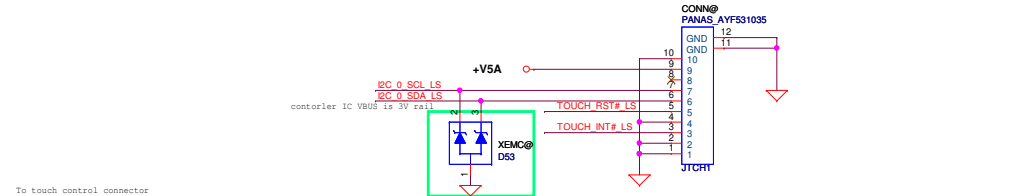
TO Touch Board



Level shift for RST , INT

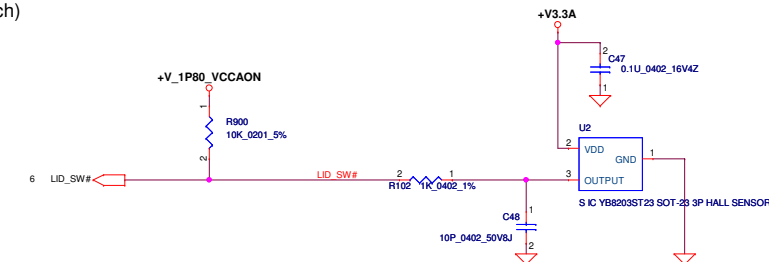


Level shift for I2C

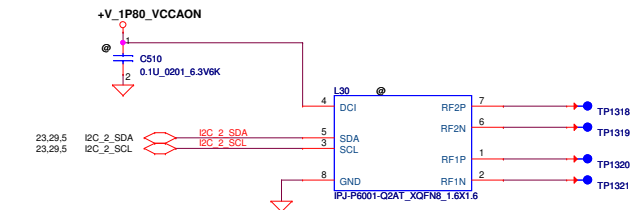


Lid Switch

(Hall Effect Switch)

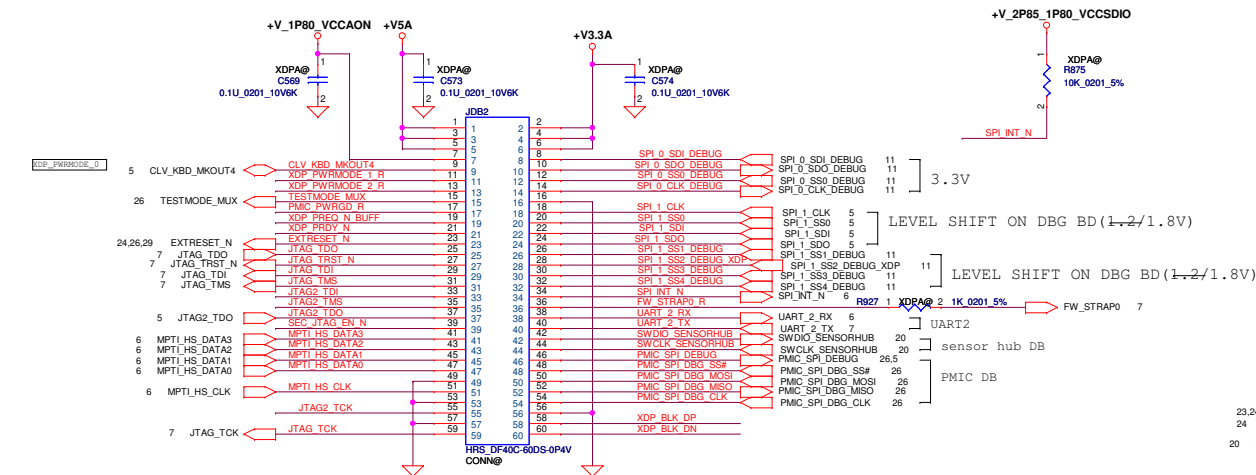


Reserve PSS

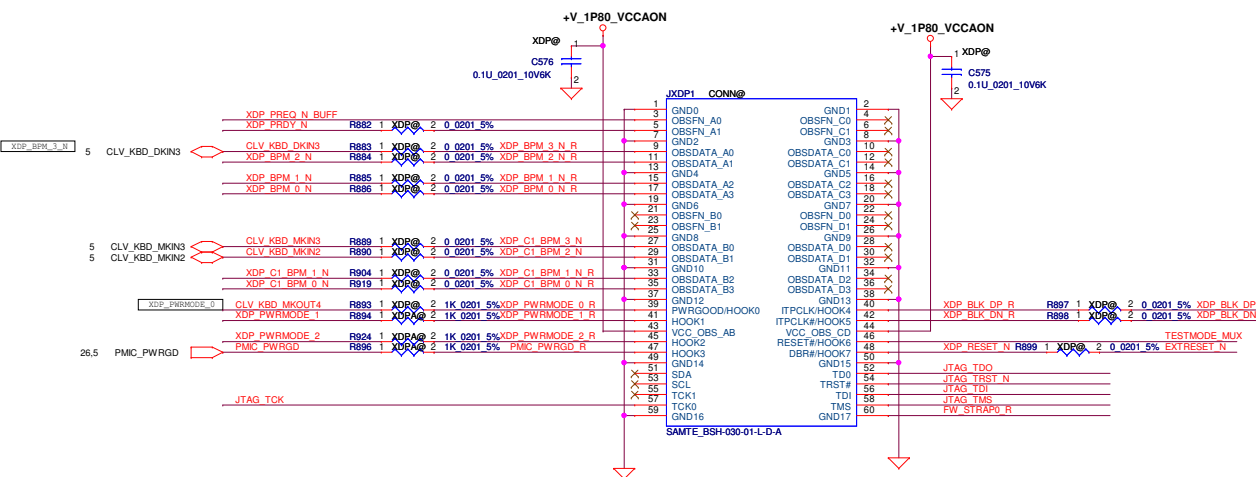


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				Date	Thursday, April 11, 2013 14:24

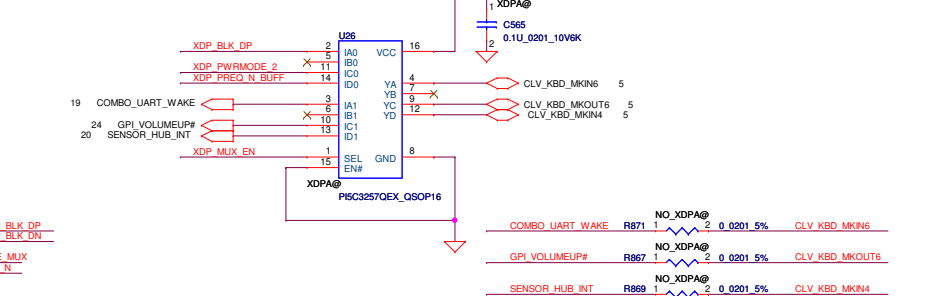
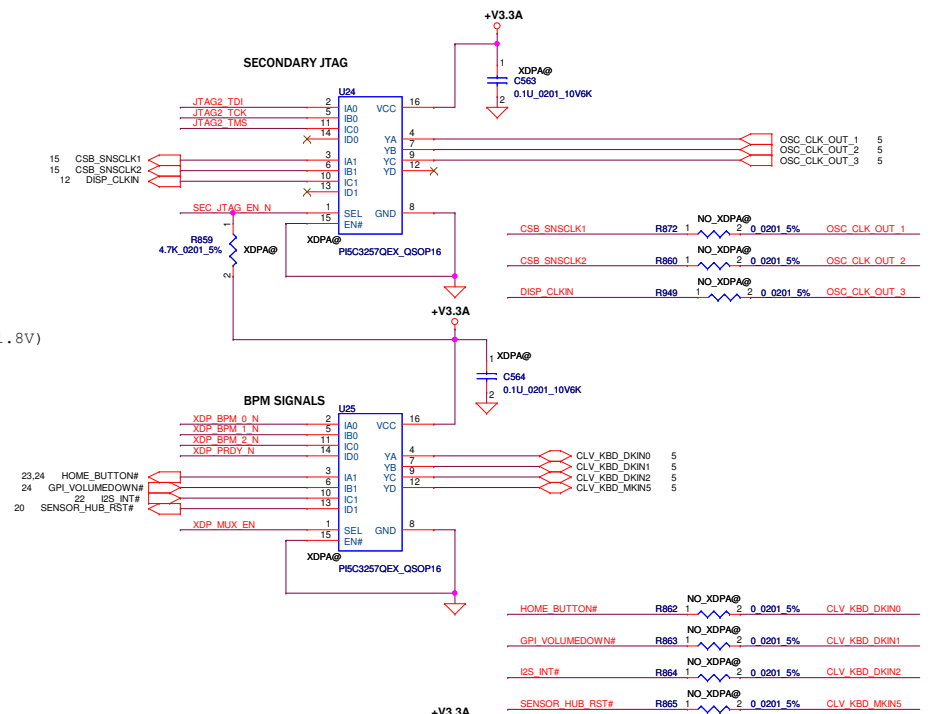
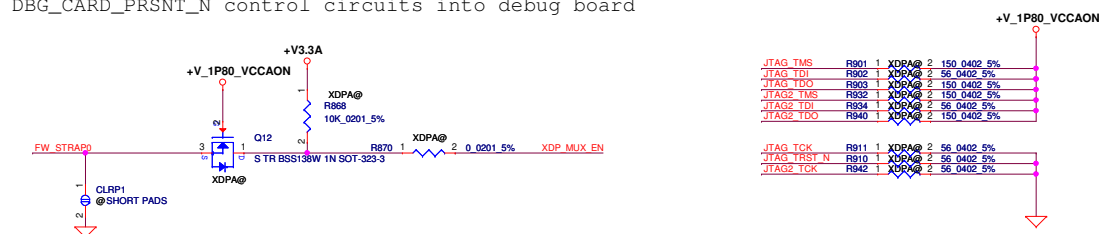
ACER DEBUG



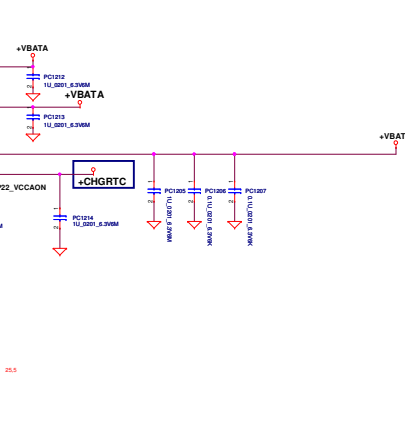
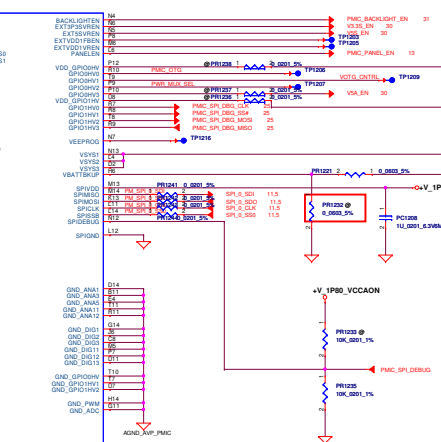
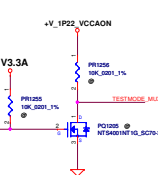
XDP DEBUG

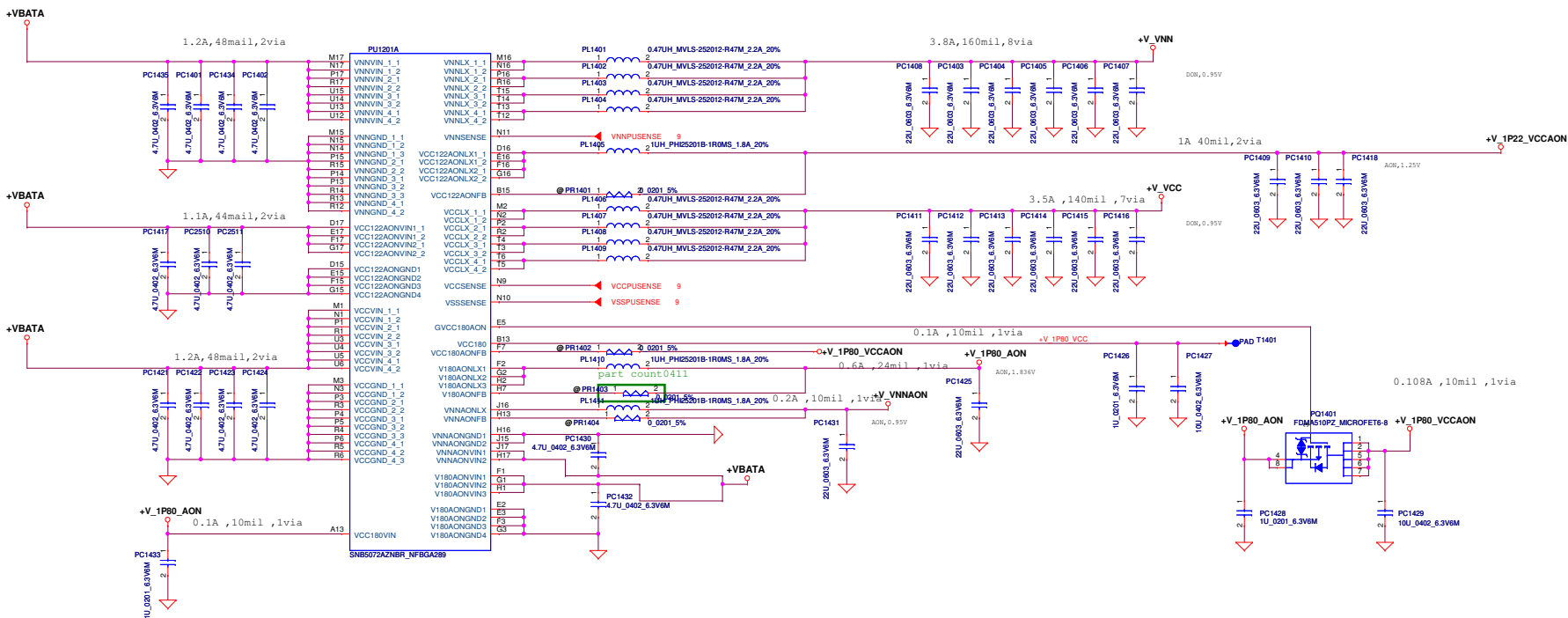


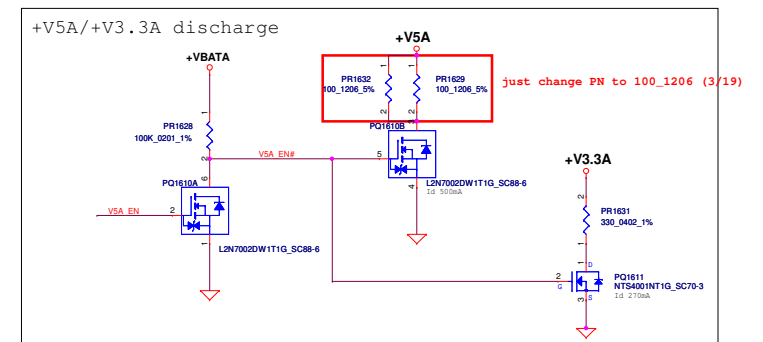
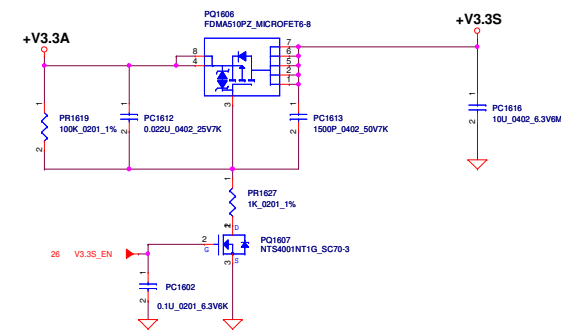
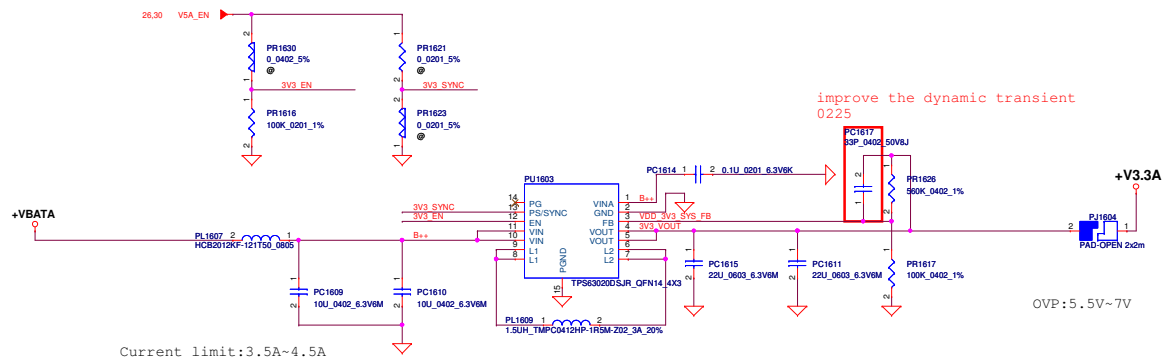
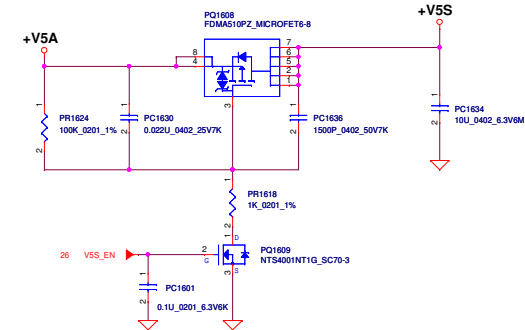
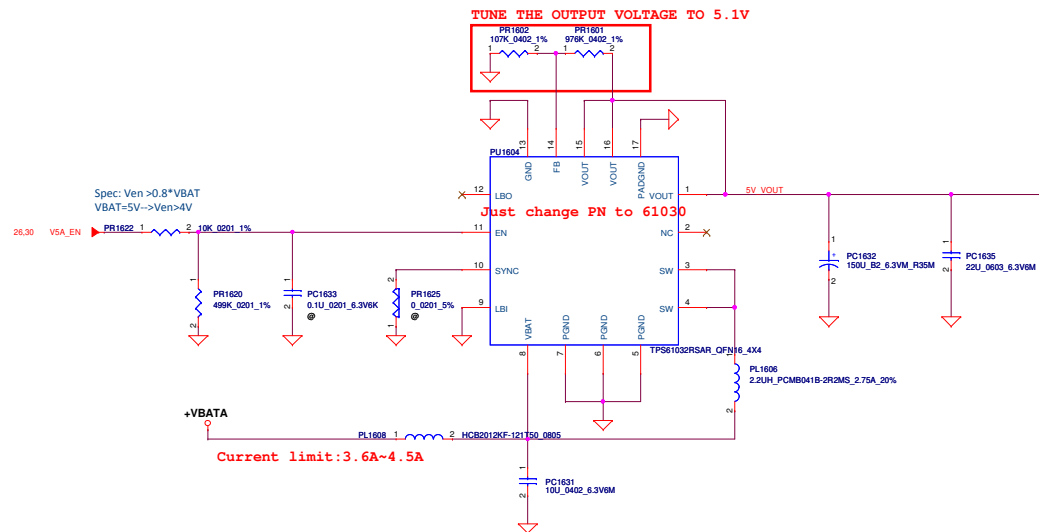
DBG_CARD_PRSENT_N control circuits into debug board



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Version change list (P.I.R. List)

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for PWR

Item	Reason for change	PG#	Modify List	Date	Phase
1	Add EC to control charger	27,30	Change Net name PMIC_CHARGER_DISABLE to CHARGER_DISABLE_EC	1/3	EVT
2	Add EC to control charger	30	Add net name I2C_2_SCL_EC, I2C_2_SDA_EC, CHARGER_PWRGD_EC, CHARGE_COMPLETE_EC, CHG_INT#_EC	1/3	EVT
3	Swap battery connector pin order to follow Acer define	30	Swap PJP2801 pin order	1/3	EVT
4	Add +EC_VCC power rail	30	Add PU301, PC1527, PC1528, PC1529	1/3	EVT
5	Change DCIN connector from 4pin to 5pin	30	Change JP1 to ACES_88266-05001	1/3	EVT
6					
7	PMIC sequence issue	30	Mount PR1533	1/3	EVT
8	POWER rail V5A need to set higher change PU1604 PN to TPS61030	31	change PU1604 PN to TPS61030	1/8	EVT
9	POWER rail V5A need to set higher change PU1604 PN to TPS61030	31	mount PR1601 PR1602	1/8	EVT
10	change vender to common material		PC102, PC1511, PC1518 PC15130 PC1526	1/8	EVT
11	Follow intel schematic	30	PC1525 PC1516 PC1530	1/8	EVT
12	TI PMIC AC only bug				
13	intel request	30	PC1331	3/5	PVT
14	follow intel schematic	30	PR1629	3/5	PVT
15	PI pin pull low to GND	29	PR1535	3/6	PVT
16	change Ilim value	28	PR1520	3/25	PVT
17	change PH resistor in PVT	29	PR1511 PR1512	3/25	PVT
18	need one more resistor to sfford the current	30	PR1629 PR1632	3/25	PVT
19	change the short pad resistor to not short pad	26	PR1223	4/11	PVT
20					

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Version change list (P.I.R. List)

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for HW

Item	Reason for change	PG#	Modify List	Date	Phase
1	Change pwoer LED power to +EC_VCC	24		03/15	PVT
2	change panel SHLR/UPDN strap (0,0)	13	unpop R678	03/15	PVT
3	change touch I2C pull high resister	24	chg R670,R671 to 1.5K R 0402	03/15	PVT
4	touch board connector pin1 error	24	swap JTCH1	03/15	PVT
5	fine tune the crystal clock	5,20	change C1,C2 ,C711,C712 to 18P	03/15	PVT
6	add screw hole	23	add H6	03/18	PVT
7	change RF component for RF request	19	change R61 to C51 , R104 to C52 , R105 to L31	03/18	PVT
8	Reserve Rst btn pull up to +EC_VCC	24	Add R726	03/18	PVT
9	Reserve ANT2 circuit	19	remove JANT1 , R97, JANT2 , ANT2 , L31, C52 , R106 , R98	03/20	PVT
10	change JWIN1 PIN8 to DGND	23		03/20	PVT
11	change R723,R725 to R0402	22		03/20	PVT
12	net "EC_INT#_LS'' wrong pwoer rail	23	chenge R663 pull up to +EC_VCC	03/20	PVT
13	EMC request	5	C3,C4,C5,C6 change to 1000P and POP C3,C4,C5	03/20	PVT
14	EMC request	18	change D50 to EMC@	03/20	PVT
15	EMC request	5,12	add C52,C53 for net "DISP_BRDG_RESET_N"	03/20	PVT
16	+V_3P30_VCC discharger	8	change R681 to 0603 and pop Q11,R681	03/21	PVT
17		23	chg H4 to 2P5N	03/21	PVT
18		24	Chg hole sensor U2 to AH180WG-7_SC59-3	03/21	PVT
19	modify sensor strap setting	20	POP R1061,R1069,R1070 ; unpop R1067,R1063,R1064	03/25	PVT
20	POP RTC curcuit	24	POP R722,Q16	03/25	PVT
21	add Homekey debounce	23	add C517	04/03	Pre MP
22	change LVDS bridge to A11 version	12	change U5 PN to SA00005ER30	04/10	Pre MP
23	change JP3 to HW part and change P/N	19	change JP3 PN to SN700000100	04/11	Pre MP
24	EMC request	11	Add D51 D52 for ESD request	04/15	Pre MP

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