# Compal Confidential

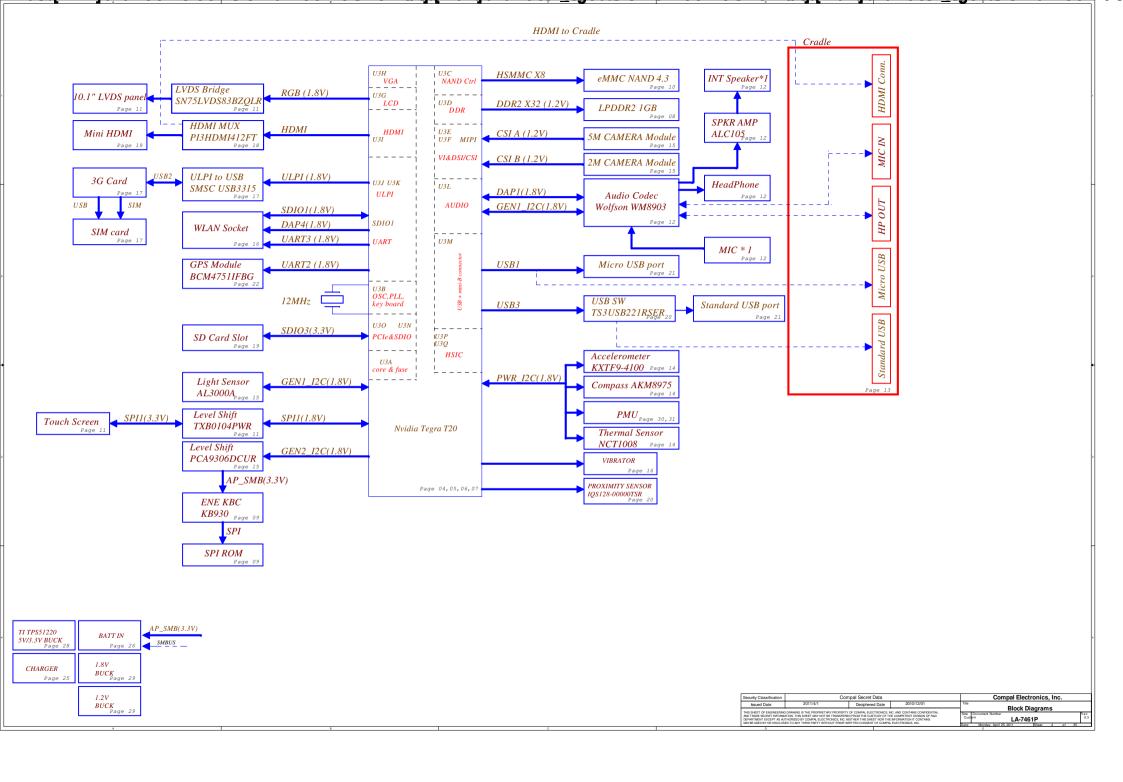
LA-7461 Schematics Document

Nvdia(T20) + LPDDRII

2011-04-22

REV: 0.3

Security Classification	Con	Compal Secret Data				cs, In	c.		
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# Voltage Rails

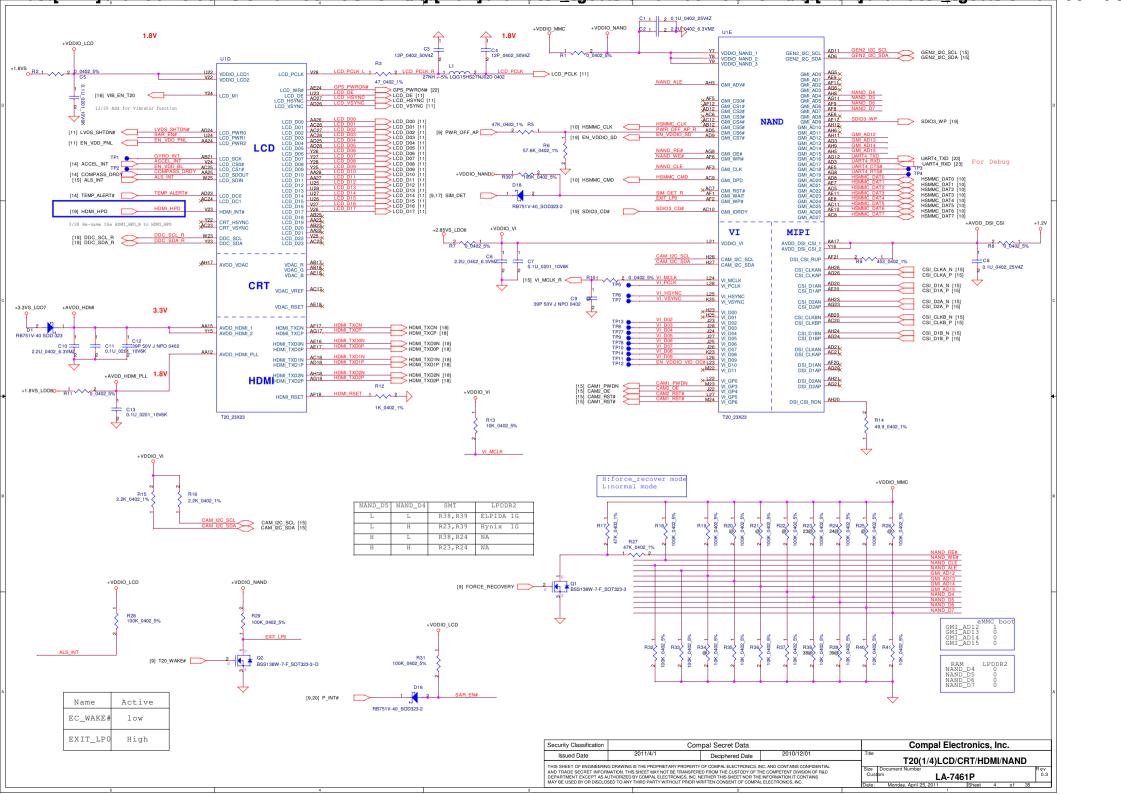
Power Plane	Description					
VIN	Power supply (19V)					
B+	AC or battery power rail for power circuit.					
+1.2VS_SM0	Core voltage for CPU					
+1.0VS_SM1	CPU voltage for CPU					
+1.1VS_LDO1	AVDD_PLL power rail					
+1.2VS_LDO2	T20 RTC power rail					
+1.8VS_LDO4	T20 system power rail					
+3.3VS_LDO3	T20 USB power rail					
+2.85VS_LDO5	Core voltage for EMMC					
+2.85VS_LDO6	Core voltage for CAMERA					
+3.3VS_LDO7	T20 HDMI power rail					
+1.8VS_LDO8	T20 HDMI PLL power rail					
+2.85VS_LDO9	T20 DDR RX power rail					
+3VALW	3.3V always on power rail					
+3VS	3.3V switched power rail for standby mode					
+5VALW	5V always on power rail					
+1.8VS	1.8V always on power rail					
+1.8VS_S3	1.8V switched power rail for standby mode					
+3.3VS_RTC	RTC power					

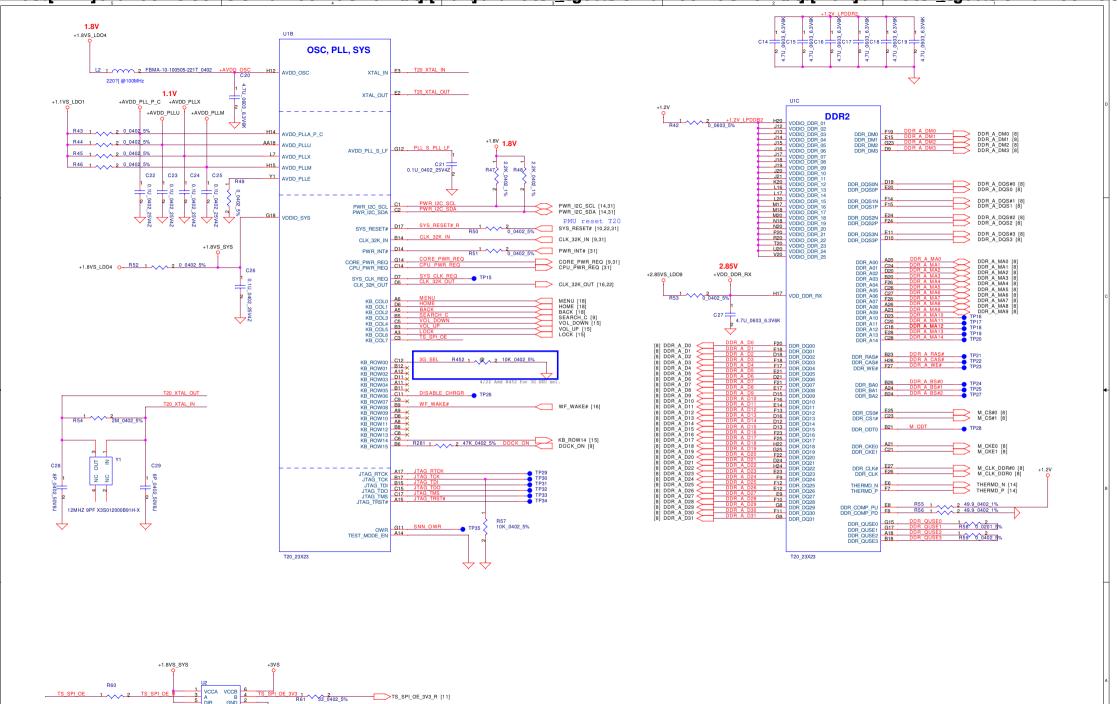
# LPDDR2

ĺ	NAND D5	NAND D4	SMT		LPDDR	2	Part Number		
ı	Т.	T.	R38	R38 R39		1G	SA000048030		
ı			R23	R39	ELPIDA		SA00004MJ10		
	ь	Н			Hynix	1G			
	H	L	R38	R24	Samsung	1G	NA		
ı	Н	Н	R23	R24	NA		NA		

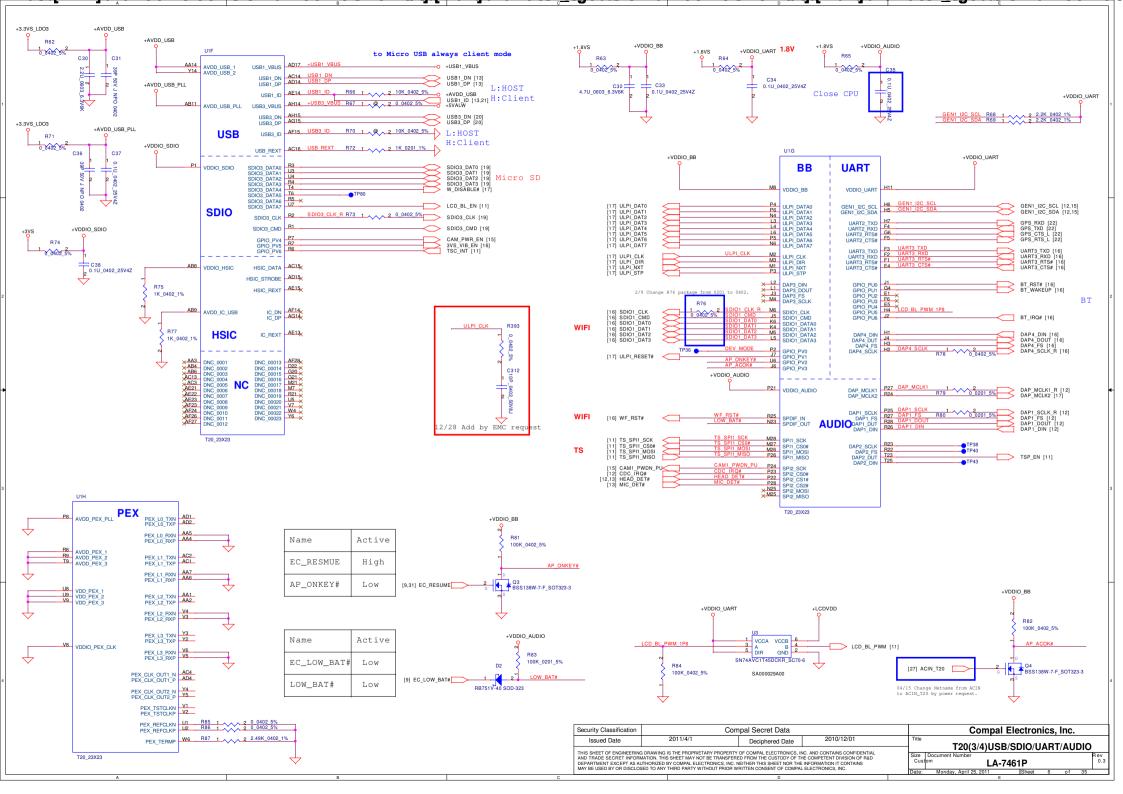
PWR_I2C address	SS	CAM_I2C a	AM_I2C address		
Device O PMU O E-Compass O Temperature sensor	Address 0110 100x b 0000 110x b 0100 110x b	Device CAMERA 5M CAMERA 2M	Address		
GEN1_I2C		TS_I2C			
Device O Audio Codec O Light sensor	Address 0011 010x b 0001 110x b	Device	Address		
Device Address  ○ PMJ 0110 100x b  ○ E-Compass 0000 110x b  ○ Temperature sensor 0100 110x b  □ Device Address  ○ Audio Codec 0011 010x b  □ Light sensor 0001 110x b  □ Device Address  □ Address 0011 010x b  □ Address 0001 110x b  □ Address Address Address		AP_SMB			
Device	Address	Device LCD 3G CARD	Address		
EC_SMB		IME_I2C			
Device O BATT		Device O G-sensor	Address 0001 1111 b		
DDC_I2C		HDMI_DDC	C_I2C		
		Device HDMI EDID	Address		

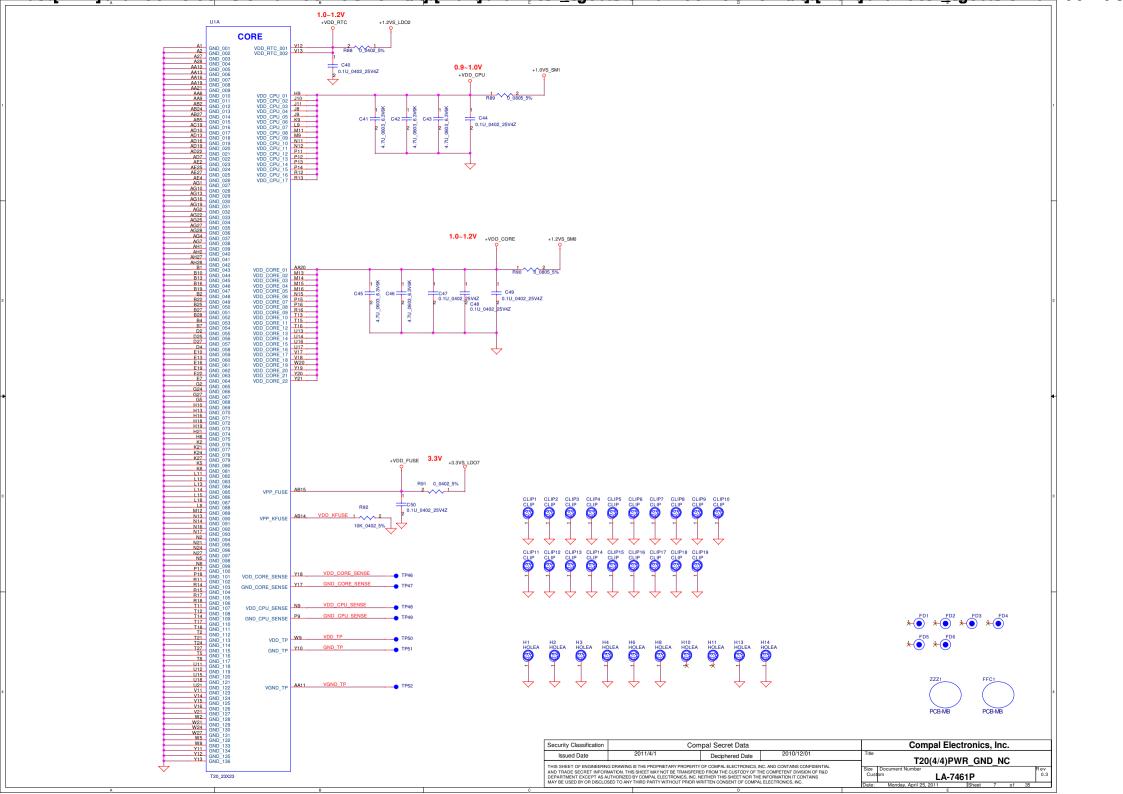
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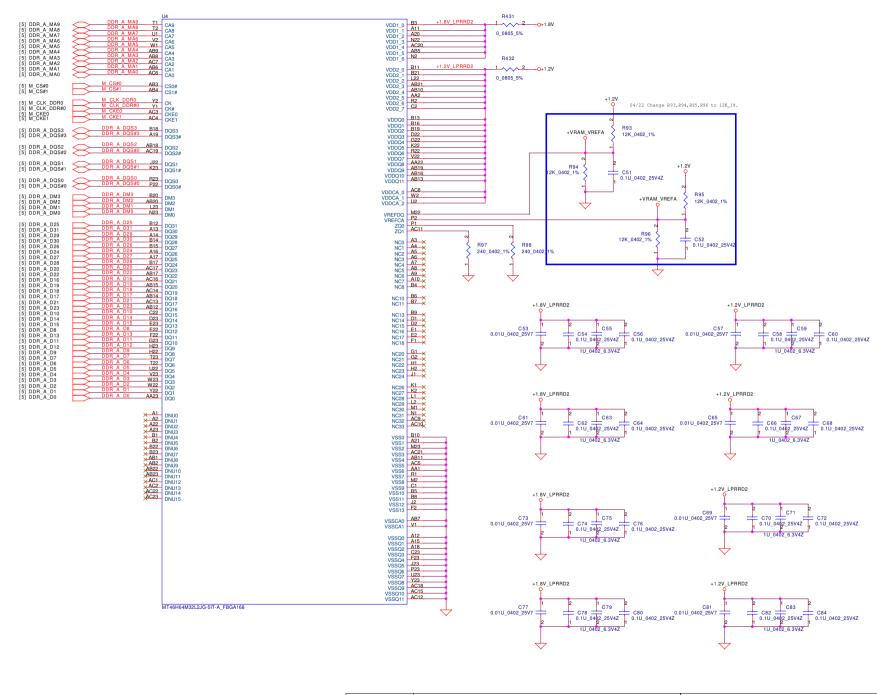




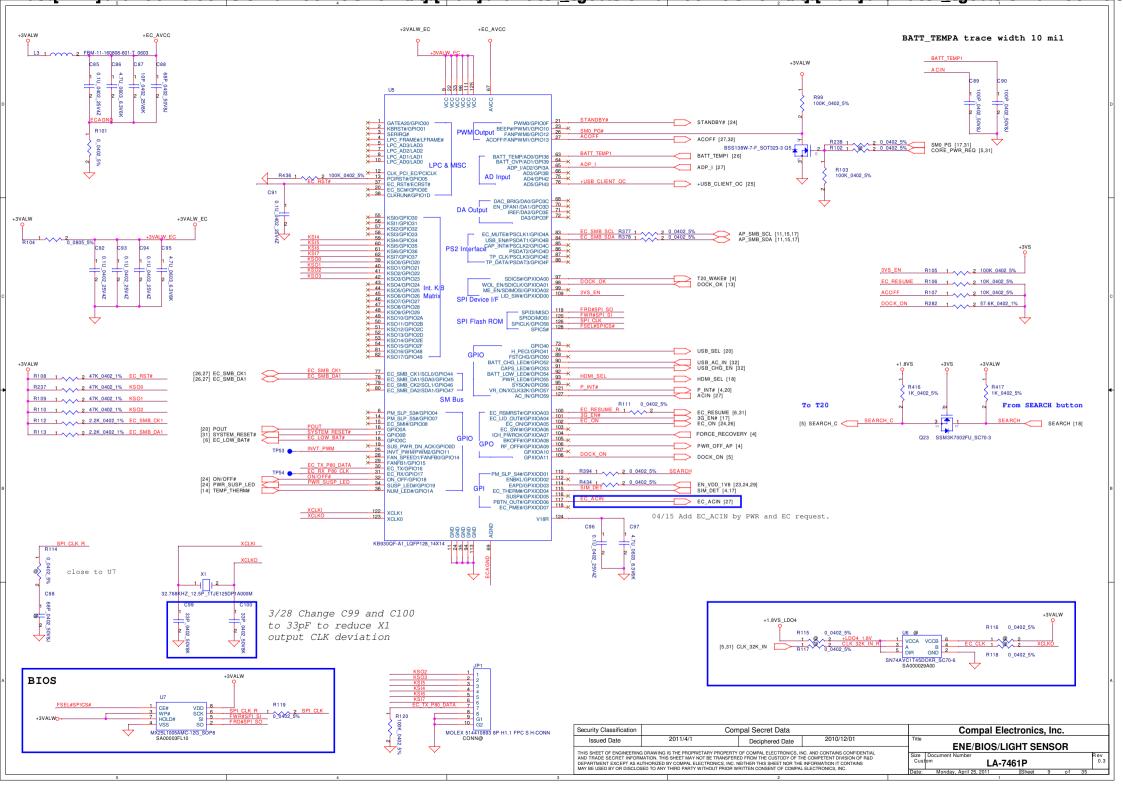


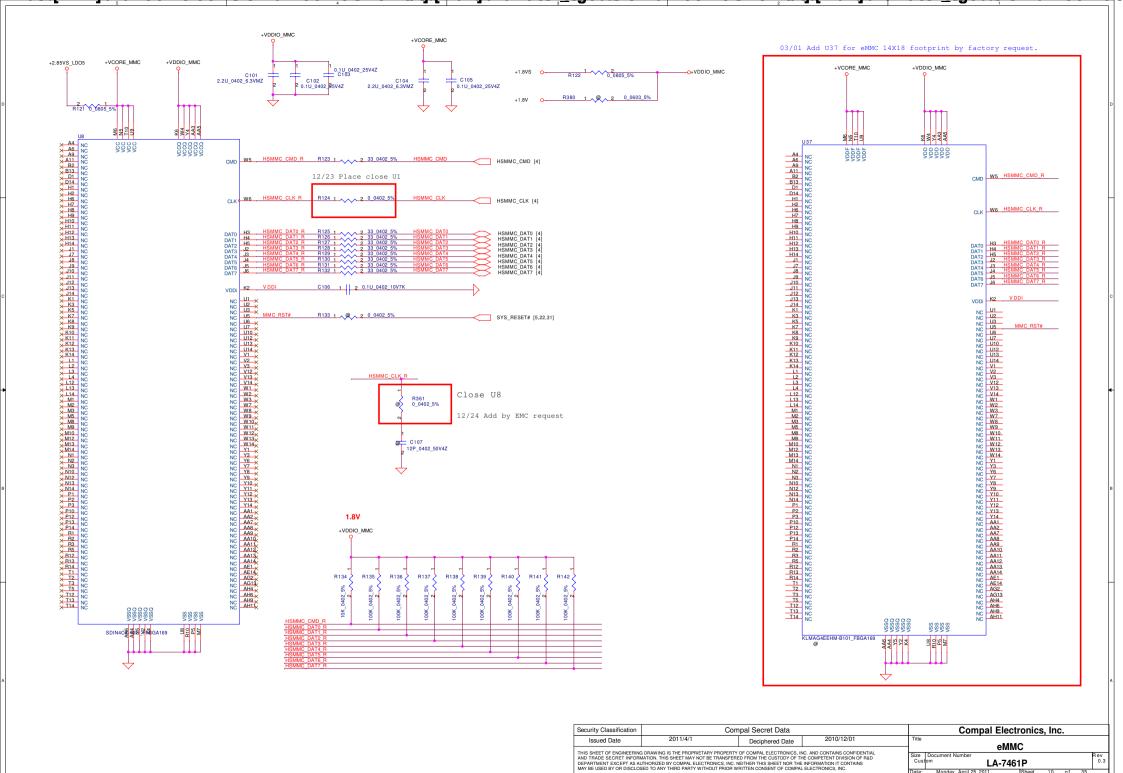


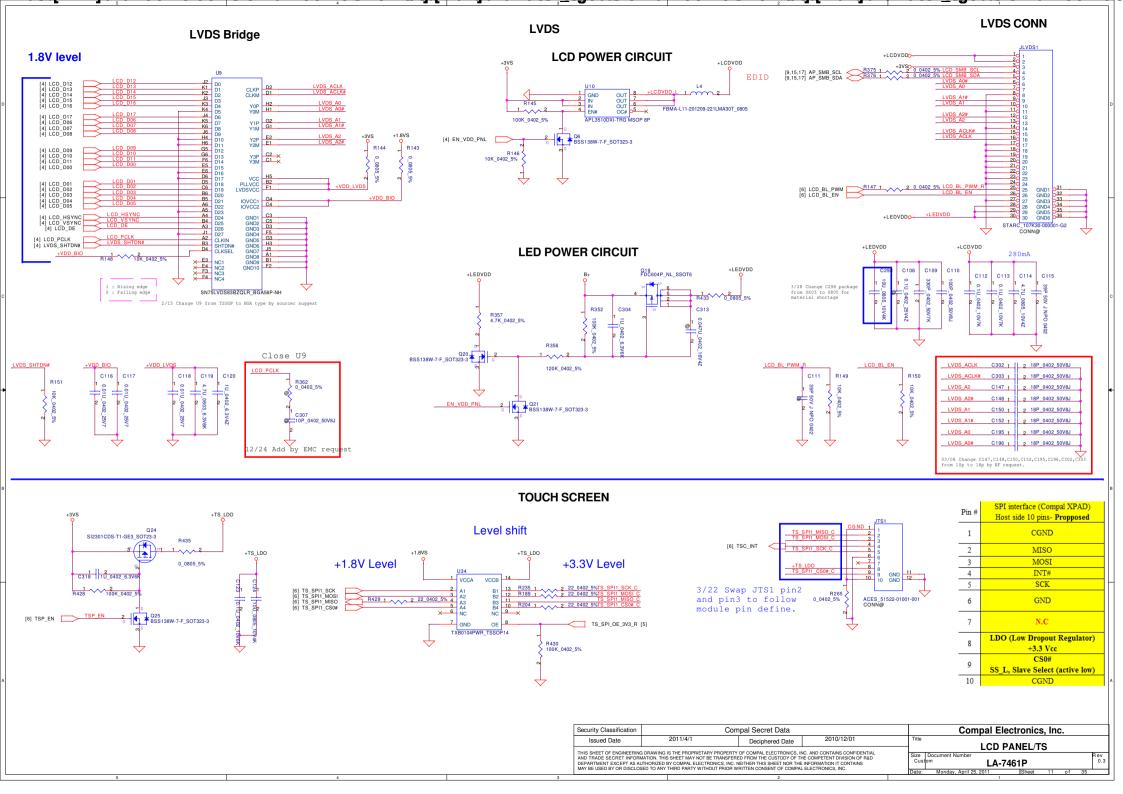


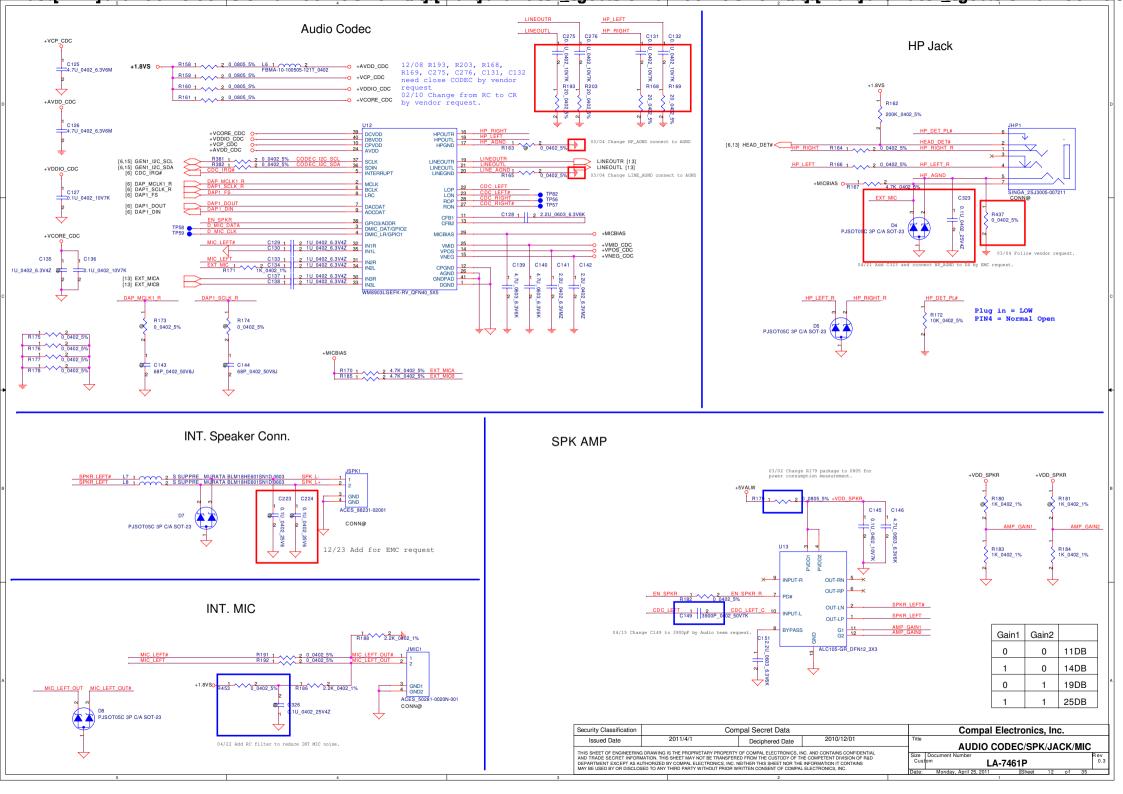


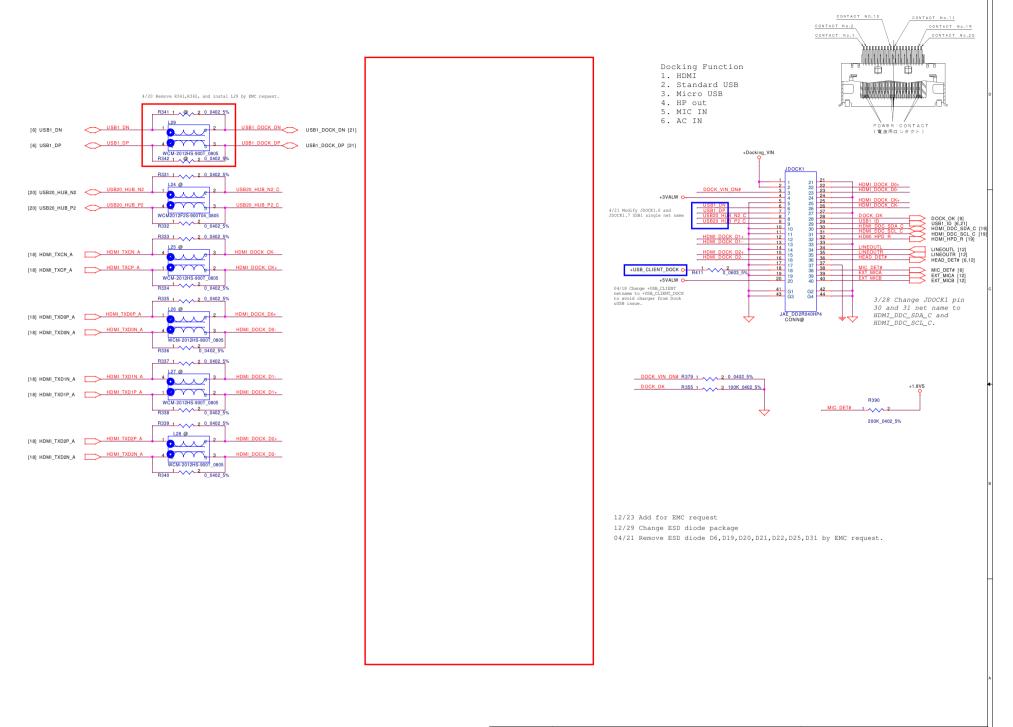
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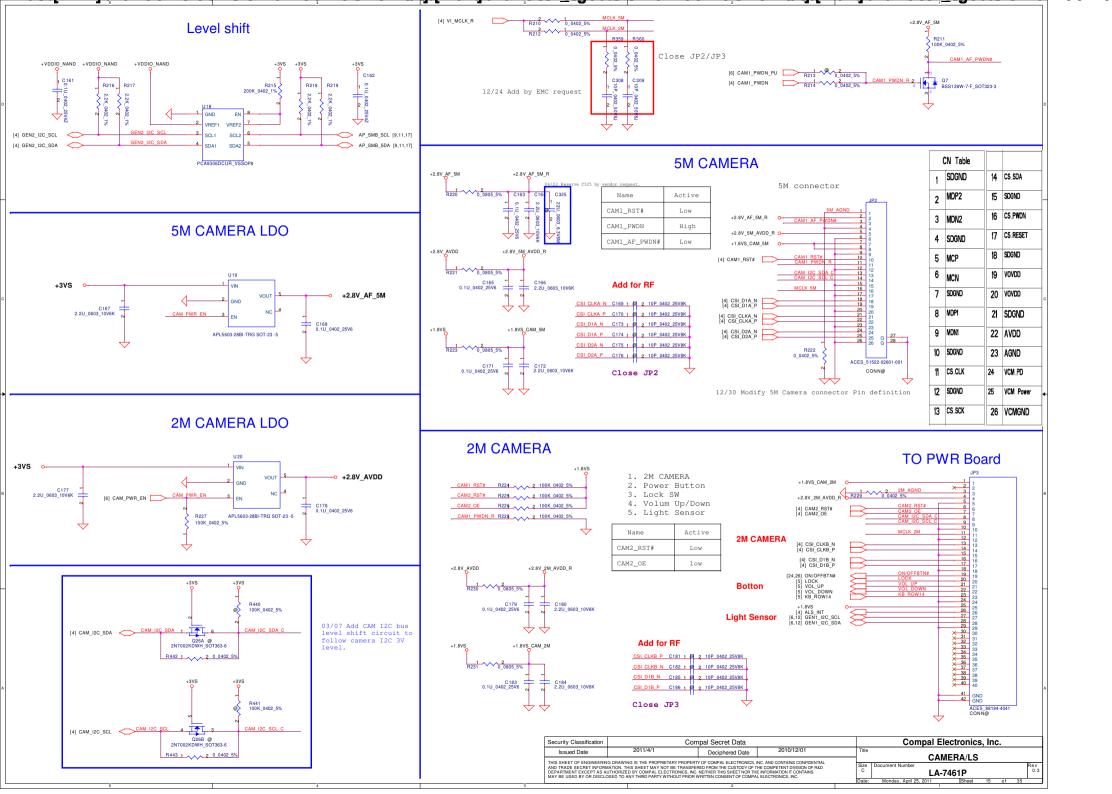
#### **ECompass** G-SENSOR +1.8VS R194 0 0402 5% [4] COMPASS\_DRDY R195 1 2 0\_0402\_5% COMPASS\_DRDY\_R C3 DRDY +1.8VS 3SEN 1 IO VDD DNC SND VDD VDD R199 0\_0402\_5% × B4 SO +1.8VS\_COMPASS A2 CAD0 CAD1 CSB# 0 111 0402 25V47 × A4 RSV KXTF9-4100 LGA10 3X3 VSS C1 R201 10K 0402 5% AK8975C BGA14 10K 0402 5% +3VS\_COMPASS +1.8VS\_COMPASS C156 0.1U 0402 16V4Z C157 2.2U 0402 6.3VMZ C158 0.1U 0402 16V4Z +3VS COMPASS 6 VDD IOVDD 9 4 AIX RSTN 7 5 AIY SDA 8 3 AIZ SCL 8 4 GPO VSS 2 +1.8VS\_COMPASS YAS529-PZ\_WLCSP10 THERMAL max current is 350uA VR1 =17mV R208 1 2 100 0402 1% THERMD F P [5] THERMD\_P +3VS +VDDIO LCD C160 1000P\_0402\_50V7K +3VS\_TH R205 49.9\_0402\_1% 1 R209 1 2 100 0402 1% THERMD F N R206 [5] THERMD N U17 2 10K\_0402\_5% 10K\_0402\_5% THERM# ALERT# GND NCT1008CMT3R2G\_WDFN8 Address 0X4C U36 @ +3VS\_TH THERMAL\_I2C\_SCL THERMD\_F\_P THERMAL\_I2C\_SDA SDA THERMD\_F\_N ALERT# T\_CRIT\_A# 03/01 Reserve thermal sensor for sourcer request Compal Electronics, Inc. Security Classification Compal Secret Data

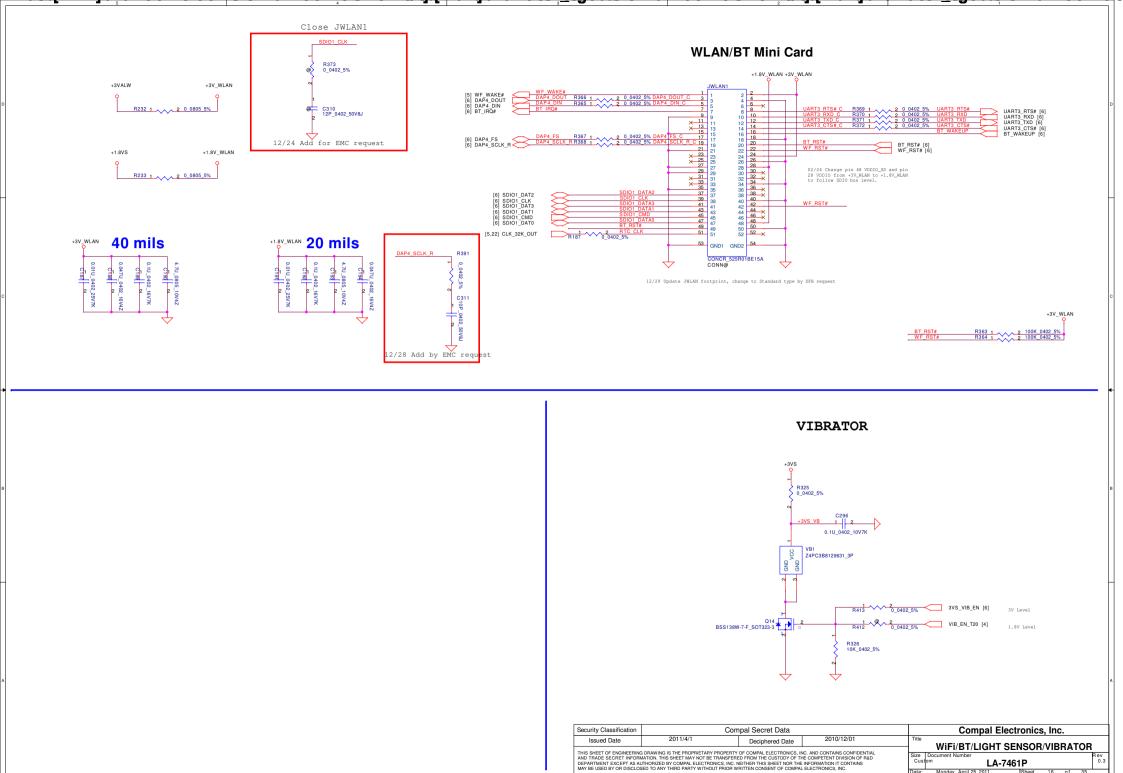
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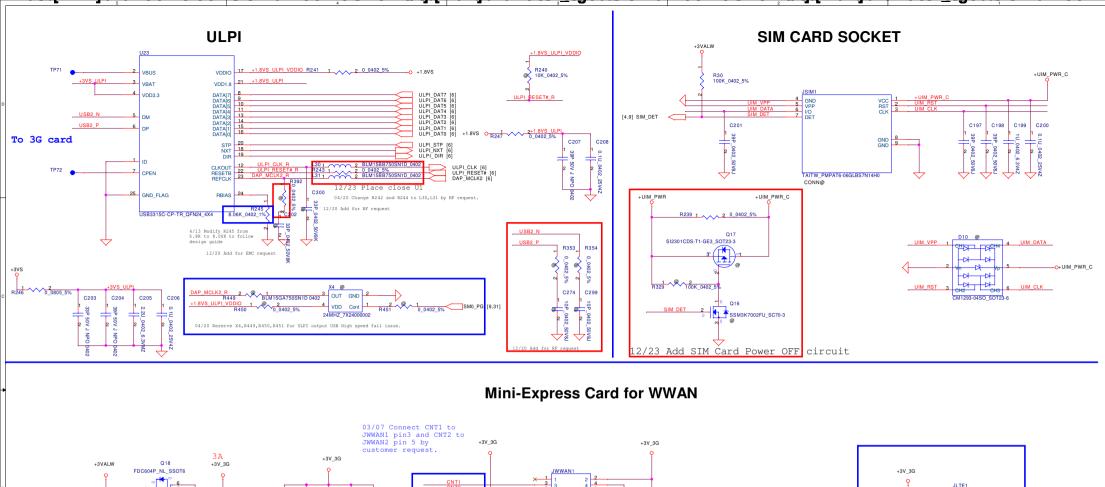
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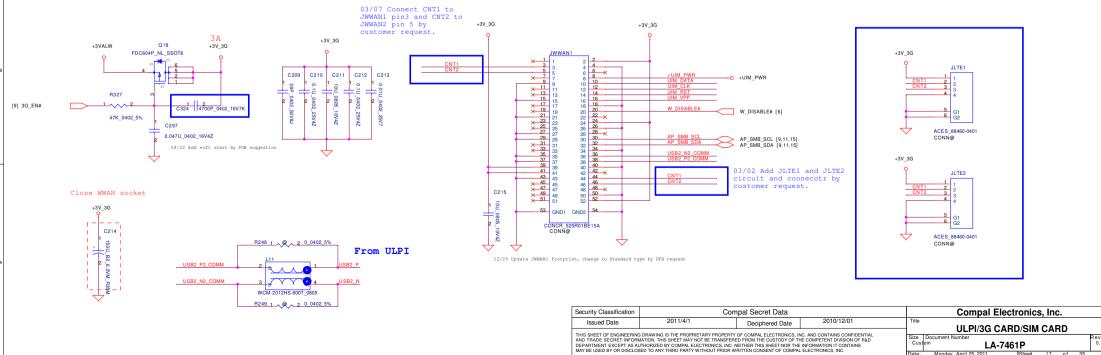
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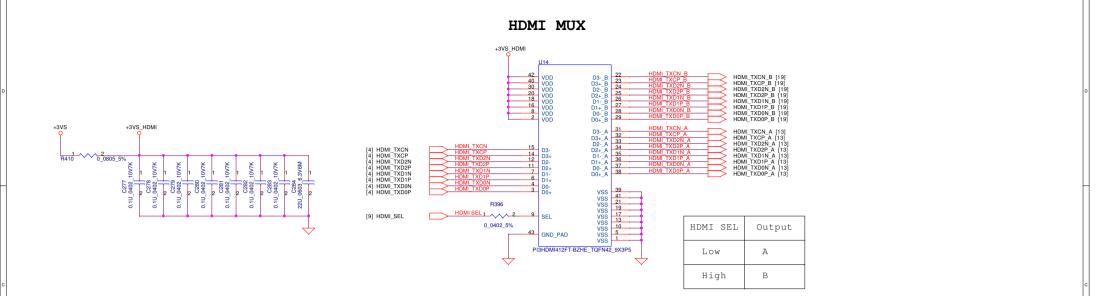
G-SENSOR/ECOMPASS/THERMAL



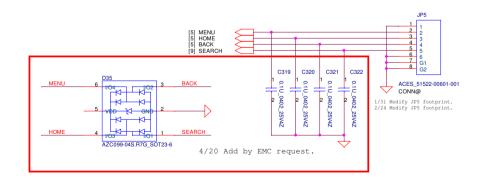




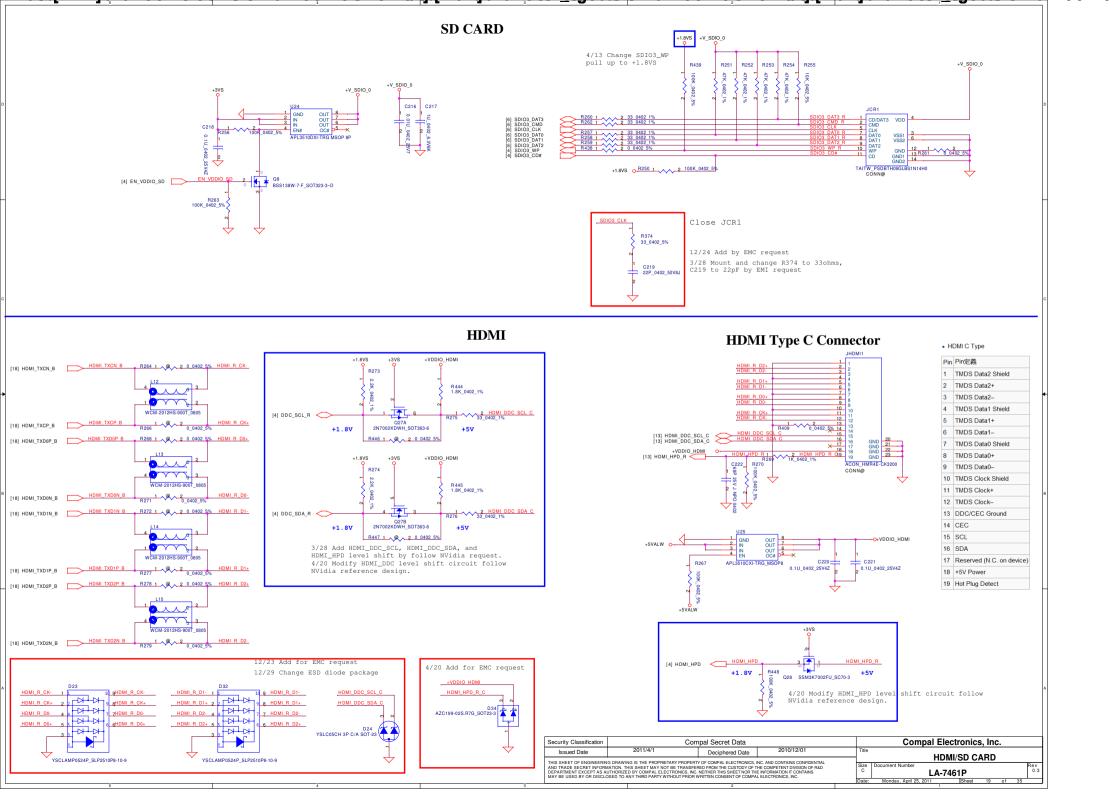




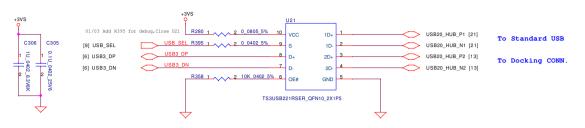
#### Button Board



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AND TRADE SECRET INFORMA DEPARTMENT EXCEPT AS AUT	SOURCE USING PROMINERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAYER LISED BY ORD INSCLINEST IN ANY THEIRD PARTY WITHOUT PROPER WRITTER CONSPAN OF INC. FOR FORDING INC.  WE WAS AUTHORIZED BY COMPALED THE PROPERTY OF THE PROPERTY OF COMPAL BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THEIR PARTY WITHOUT PROPERTY OF COMPAL BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPACT BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY THE PROPERTY WITHOUT PROPERTY OF COMPANY BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY OF THE PROPERTY OF COMPANY BY ENTEROYING INC.  WE WAS AUTHORIZED BY COMPANY BY THE PROPERTY OF THE		Size Cust	Document Number	of 35	Rev 0.3	

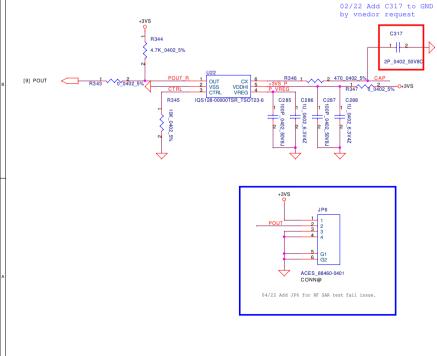


### **USB SW**

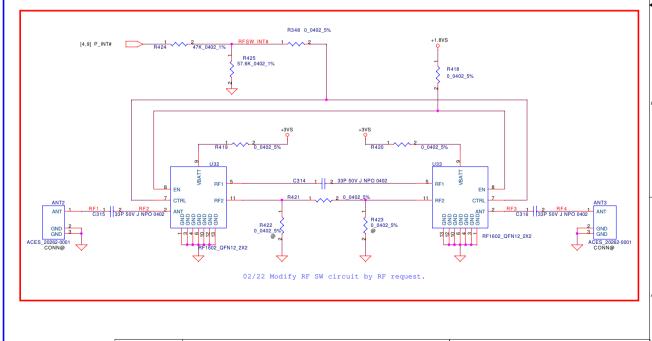


S	Output
L	D = 1D
Н	D = 2D

#### PROXIMITY SENSOR

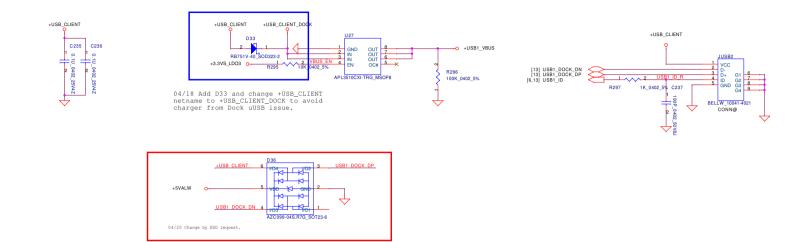


#### RF SW

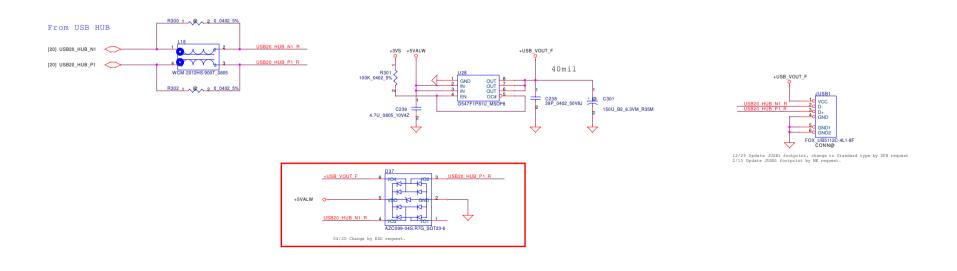


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#### MICRO USB



#### STANDARD USB



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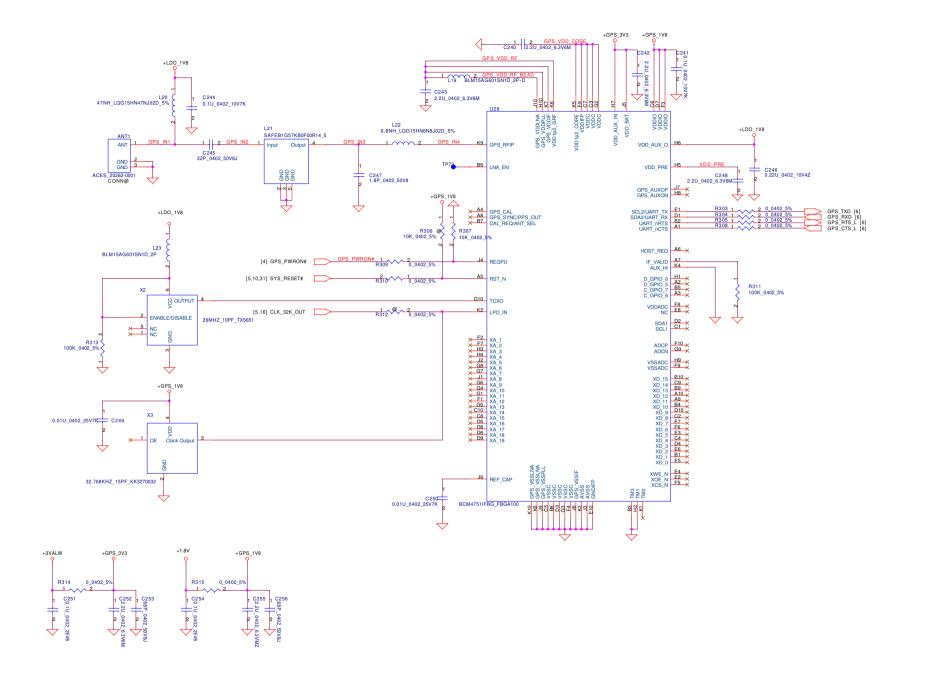
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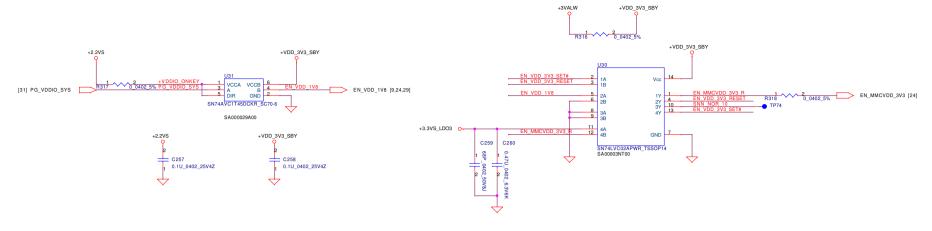
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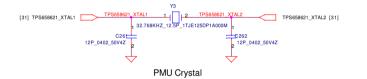
**USB CONN** 



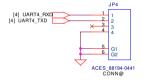
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# Power Sequence Logic



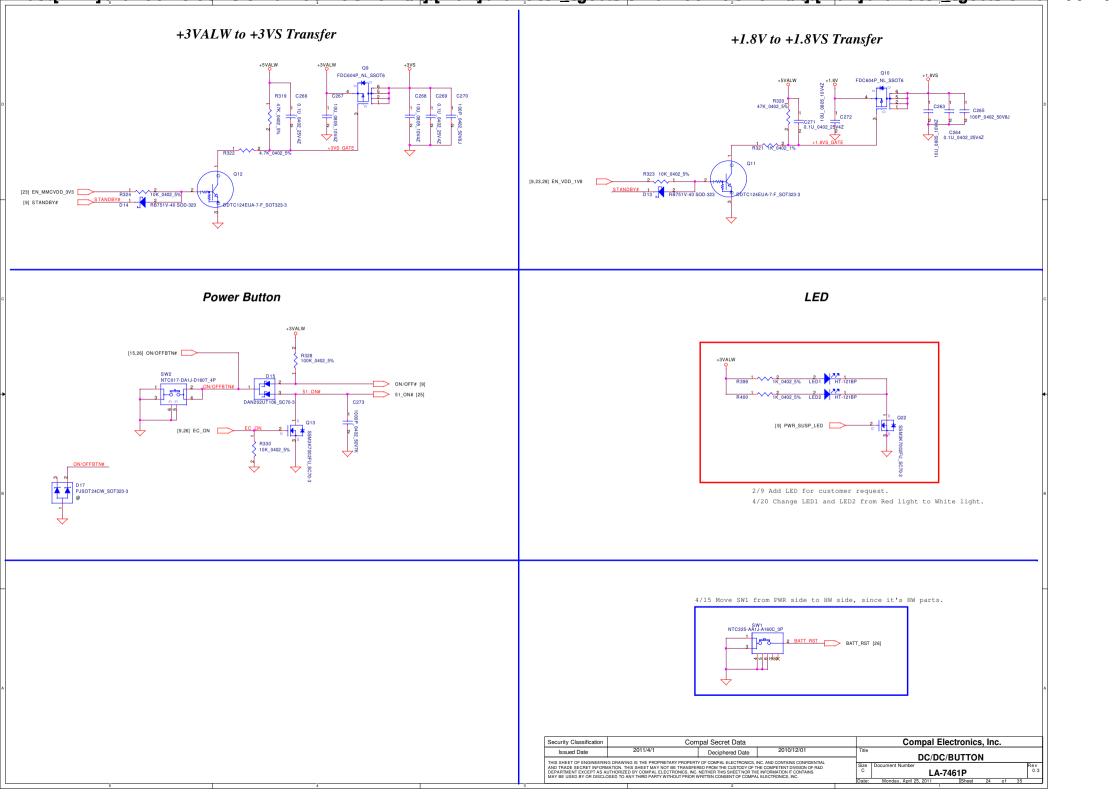


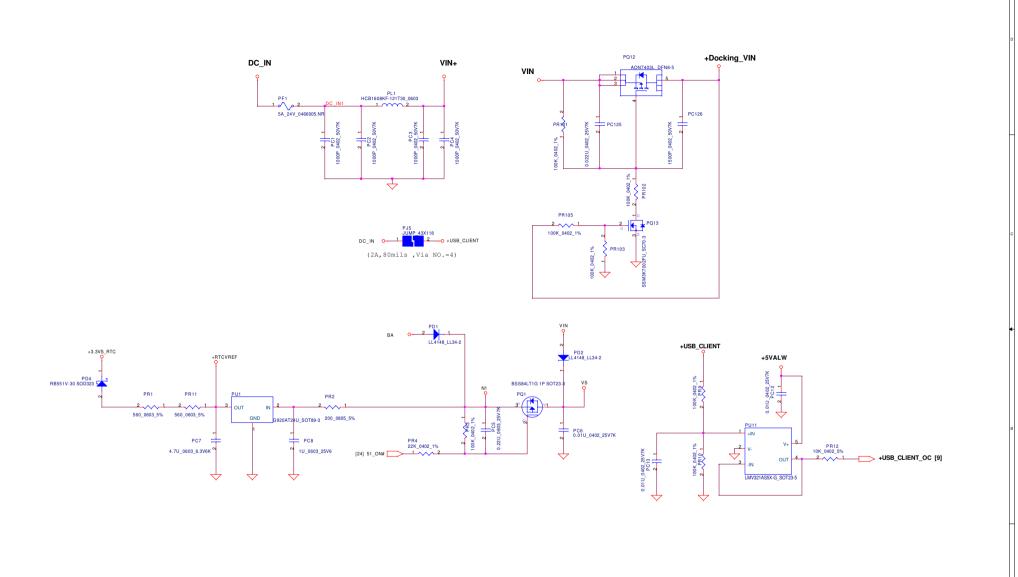
# Debug connector



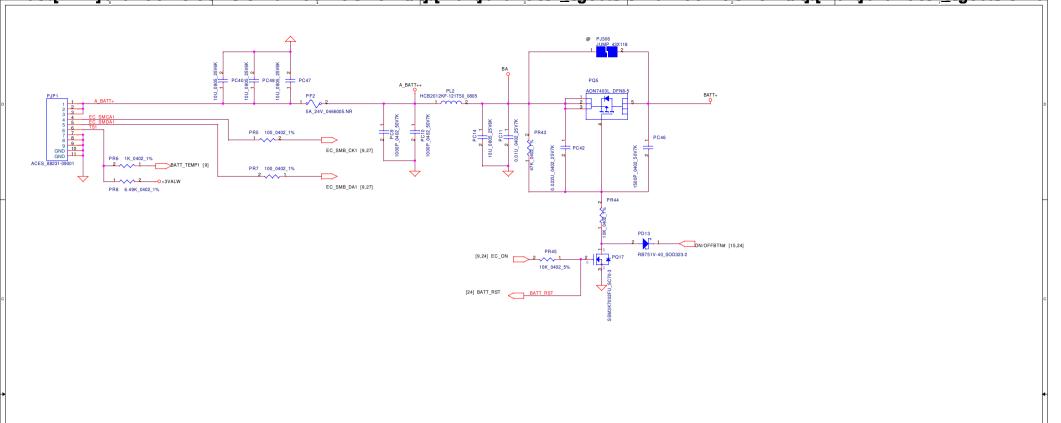
12/16 Add Debug Connector

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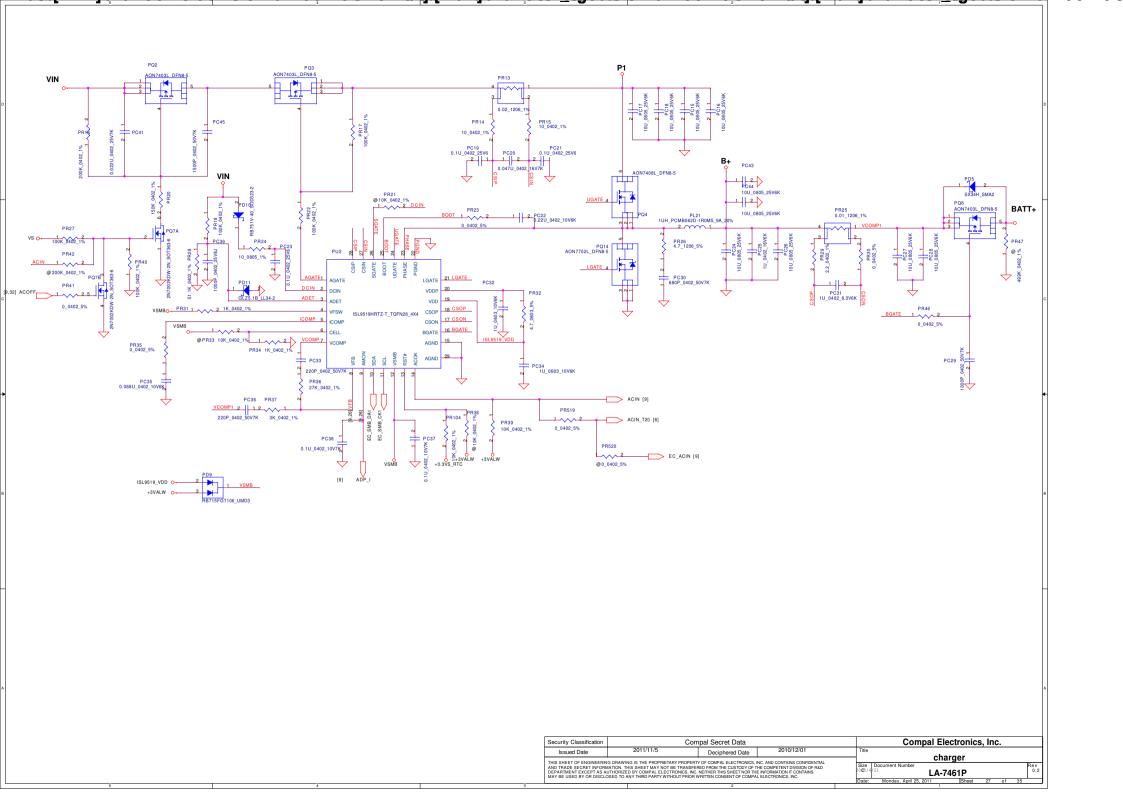


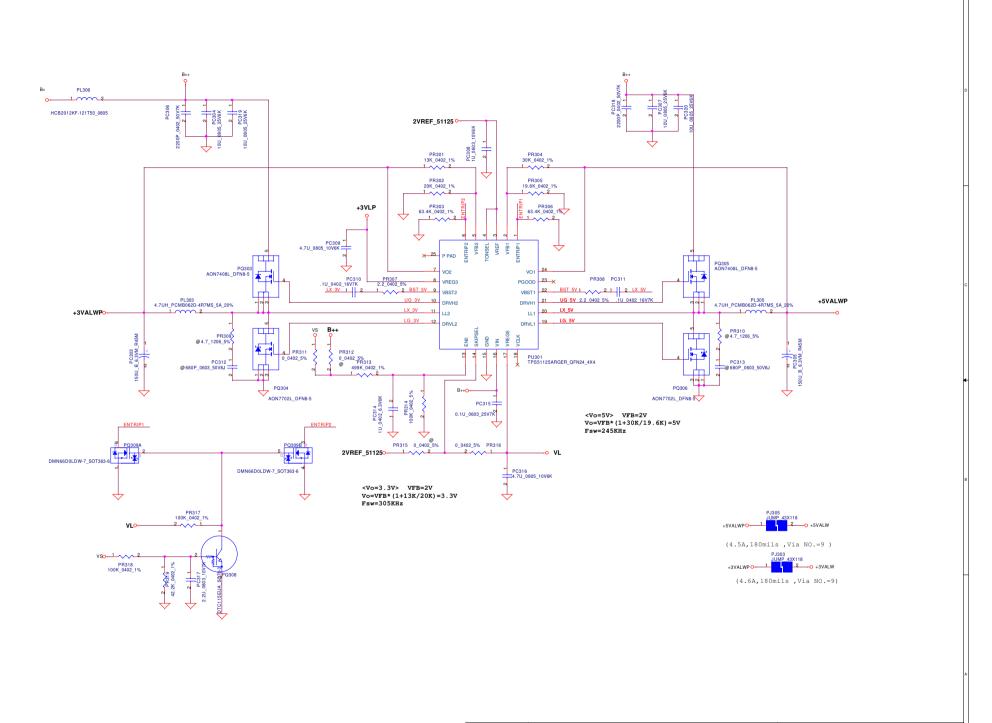


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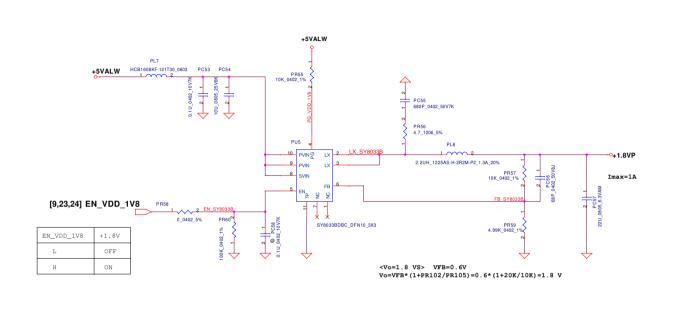


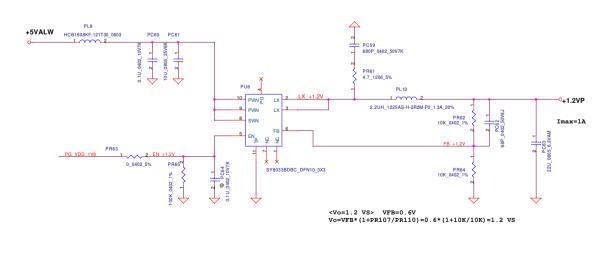
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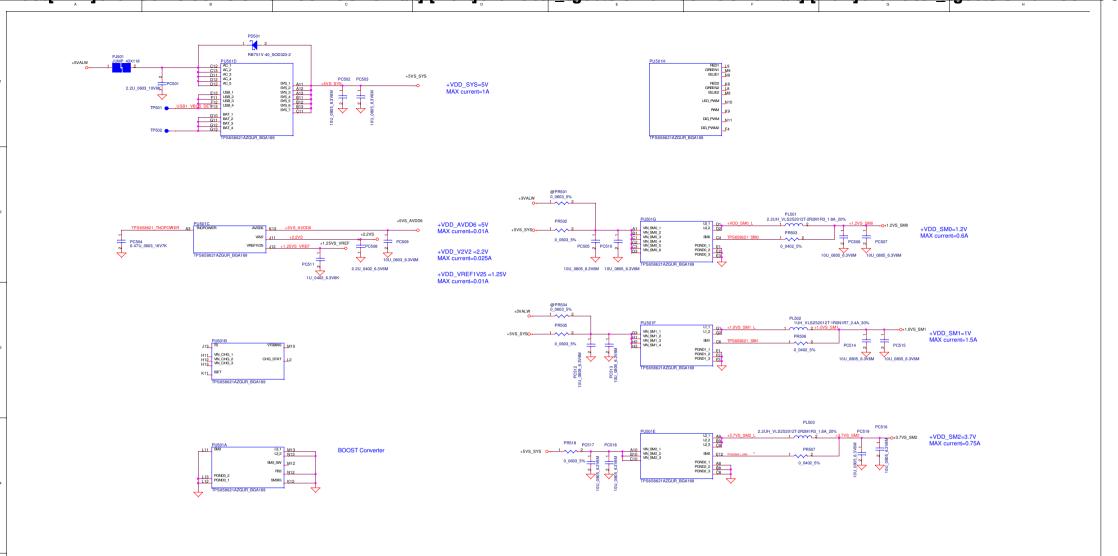




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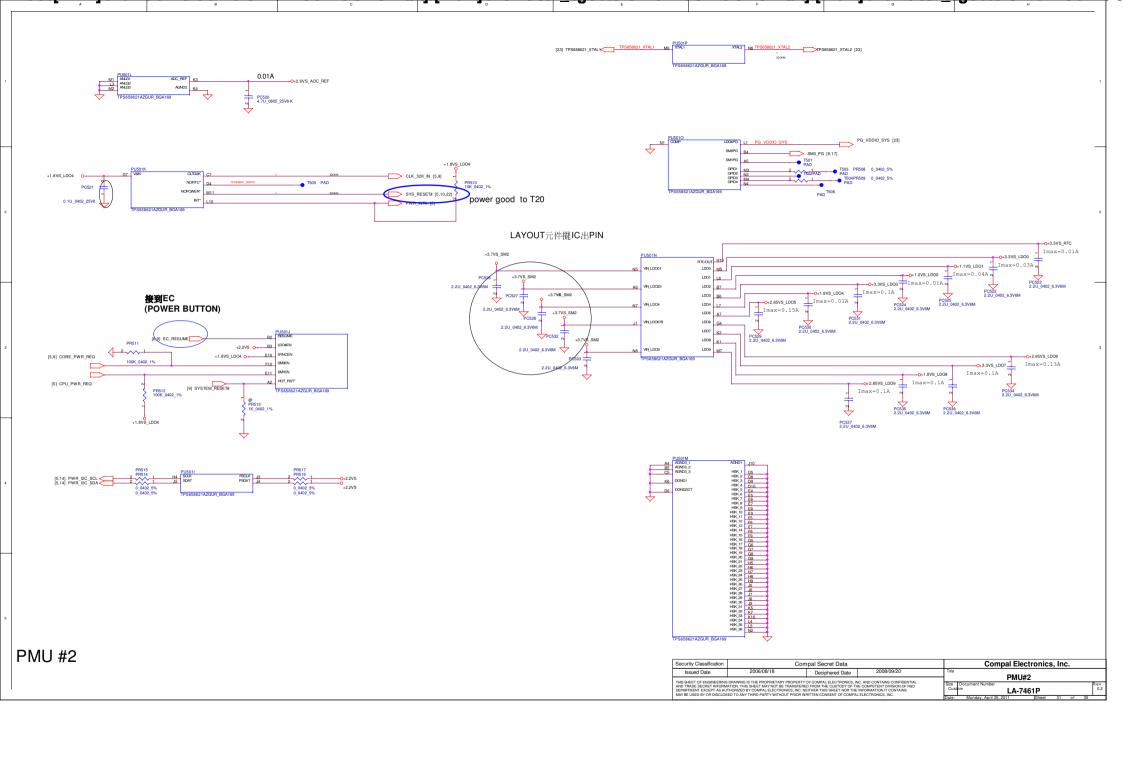
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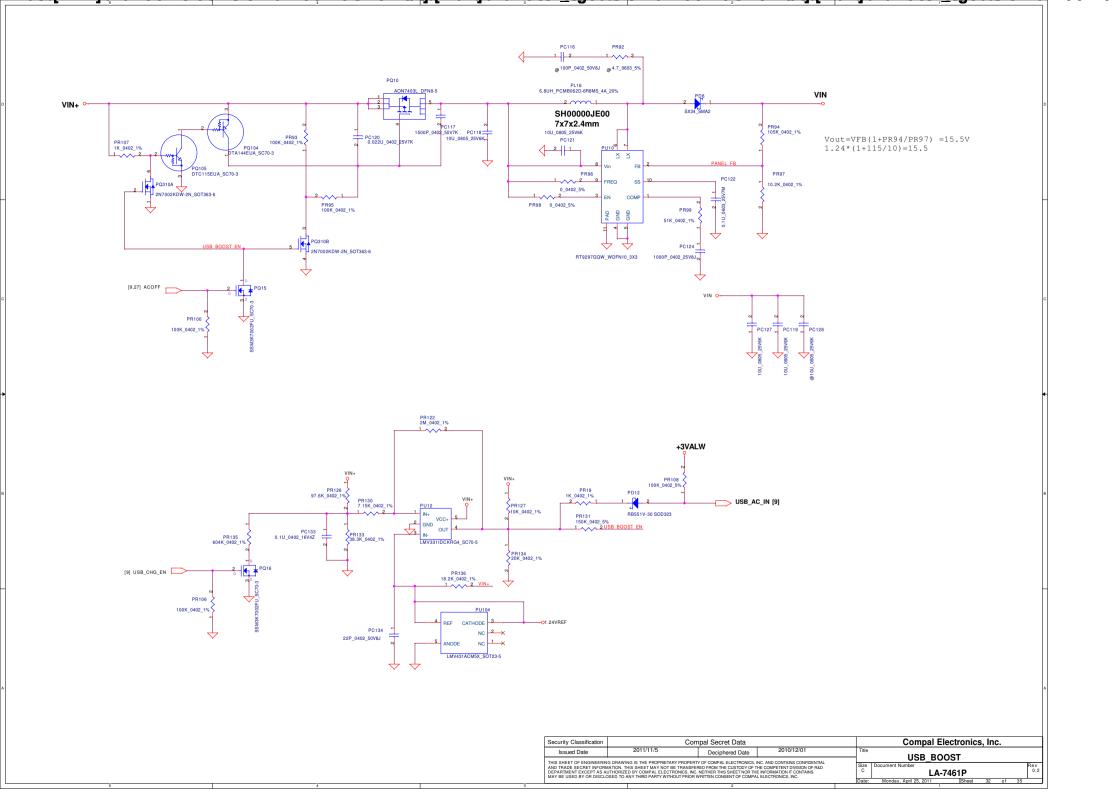
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Version Change List (P. I. R. List) for Power Circuit

Page# Title Date Owner Issue Description Solution Description

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PHJ	IJ00 from SDV to FVT LA-7461P REV:0.1 -> 0.2 Modify <2011.01.30.~2011.03.08. >    Modify Description   Modify Desc												
Rev.	tem	Date	Impact	Page	Change Cause	Modify Description							
0.2	1 2	1/31 1/31	CKT,Layout CKT,Layout	7	-DFx suggest modify fiducial mark from two to three for M/B PCB bend test.  -Force recovery function alway high issue when boot.	-Add FD5 and FD6 -Move SEARCH pin from EC pin 64 to pin 110, and add external pull high R398 to +3VALW.							
	3	1/31	- CKT,Layout - CKT,Layout	9 11	-Force recovery function alway riight issue when boot.  -To solve EN_VDD_PNL turn on issue.	-wove scance purioni cc pin ot o pin 110, and add external puningin 1396 to +3VALW. -Add C313 at 019 G/D side.							
	4-		-CKT,Layout	12	-Internal SPK noise issue.	Uisconnect CDC LEFT and CDC LEFT#, and CDC LEFT# connect to TP82.							
	5		- CKT,Layout	18	-C284 interfere with shielding can.	-Change C284 package from 1206 to 0603.							
	6	1/31	CKT,Layout	11,18	-Update connector list from ME request.	-Modify JTS1 and JP5 footprint							
	7		CKT,Layout	7	-ME release newest drawing	-Add H13 and H14							
	8		CKT,Layout	12	-INT MIC can not record	-Delete C153 and C154, and change R191 and R192 to 0 ohms. MIC_LEFT_OUT pull high to +1.8VS, MIC_LEFT_OUT# pull down to AGND.							
	9		CKT,Layout	19	-Update connector list from ME request.	Modify JCR1 footprint							
0.2	10		CKT,Layout	9,24	-Add RED LED by customer request	-Āda R399, R400, LED1, LED2, and Q22.Add SUSP_LED control signal from EC pin 34.							
0.2	11		CKT,Layout CKT,Layout	12 16	-Change HP and LINEOUT CR to GND by vendor requestBT can not work normally.	-Swap C275 and R193. Swap C276 and R203. Swap C131 and R168. Swap C132 and R169 by vendor requestSwap UART3 RXD and UART3 TXD, and swap UART3 RTS# and UART3 CTS# to solver BT cat not work normally.							
0.2 0.2	12 13		_CKT,Layout _CKT,Layout	16 - <del>1</del> 8 – – –	-BT can not work normally.  -Power consumption measurement	-Swap UAH13_HXD and UAH13_IXD, and swap UAH13_HIS# and UAH13_CIS# to solver B1 cat not work normally.  -Add R410 for power consumption measurement.							
0.2	14		CKT,Layout CKT,Layout	13	-Fower consumption measurement -Cradle micro USB no function.	Auto Harto for power consumption measurement. Change DDOCK pinf18 to HJBB1 VBIUS and serial R411 for solver Cradle micro USB no function issue.							
0.2	15		- CKT,Layout	16	-Vibrator can not work normally.	-Add 3V level GPIO 3VS_VIB_EN to control it, and reserve VIB_EN_T20.							
0.2	16		-CKT,Layout	11	-Follow sourcer's request to common design.	-Change U9 package from TSOP to BGA type.							
0.2	17		CKT,Layout	11	-TSP pin define modify.	-Modify TSP JTS1 pin define by vendor request.							
0.2	18	2/15	CKT,Layout	20	-Power consumption measurement	-Add R414 and R415 for power consumption measurement.							
0.2	19		CKT,Layout	5,9	-Force recovery function abnormal issue	-Add level shift circuit (023, R416, and R417)between SEARCH pin and T20							
	20		CKT,Layout	20	-Follow RF's request	-Modify RF SW circuit by RF team request.							
	21		CKT,Layout	20	-Follow vendor's request	-Add 2P capacitance from CAP signal to GND for vnedor request.							
	22		CKT,Layout	71	-TSP SPI bus is 3V level	-Add level shift circuit (U34, U35, P235, P189, P204, C318, P427)							
	23		CKT,Layout	16	-+1.8VS leakage issue when WIFI enable	Change pin 48 (VDDIO_SD) and pin 28 (VDDIO) from +3V_WLAN to +1.8V_WLAN.							
	24		CKT,Layout	16	-Follow vendor's request	-Swap DAP4_DOUT and DAP4_DIN signal -Add U37 for eMMC 14*18mm foorbrint by DFx request.							
	25		CKT,Layout CKT,Layout	10 14	-Follow DFx's request. -Follow sourcer's request.	-Add U3/ for eMMC 14*18mm foortprint by DFx requestReserve U36 Thermal sensor.							
	26 27	3/01	CKT,Layout CKT.Layout	14 - <del>2</del> 4	rollow sourcer's request. SW2 interfere with ME.	-Change debug power botton SW2 to Top view type.							
	27 28		- CKT,Layout - CKT,Layout	- <del>6</del> , <del>11</del>	-SW2 Interiere with ME. -Follow TSP vendor request.	-c.lange aeuug power bollon 3-w2 to 1 op view type. - Modify TSP level shift circuit and add power switch.							
	29 29		CKT,Layout		-Power consumption measurement.	Modify 101 102 Similar Color and adoptions Similar.  Add R431,R432,R433_R433_R436_R410,R280 package to 0805.							
	30		- CKT,Layout	- <u>-</u>	-Follow customer request.	Add JLTE1 and JLTE2 circuit by customer request.							
	31			9	-Double pull up.	-Delete R319 since SEARCH has double pull resistance.							
0.2	32	3/03		8	-Modify Net name	-Modify LPDDR2 power net name.							
0.2	33	3/03	CKT,Layout	9	-Prevent system hang up issue as PBJ30.	-KBC pin 13 add Fl436 100K ohms to GND.							
0.2	34		CKT,Layout	12	-Follow vendor request.	-Change HP_AGND and LINE_AGND serial resistance to AGND. Connect HP_AGND to JHP1 pin5.							
	35		CKT,Layout	4,19	-SD Card no write protect funciton.	-Connect SDIO3_WP from U1.AE12 to JCR1 pin10. Delete R4. Add pull up resistance R439.							
	36		CKT,Layout	71	-Delete TSP debug connector JTS3.	-Delete JTS3 connector since the vendor can provide FFC cable.							
	37		CKT,Layout	13	-Cradle micro USB abnormally.	-Chage JDOCKT pin 18 net name from +USBT_VBUS to +USB_CLIENT to solve Cradle micro USB can not work issue.							
	38		CKT,Layout	17	-Follow customer request.	-Add CNTT to JWWAN1.3 and CNT2 to JWWAN1.5 for LTE function.							
	39		CKT,Layout	<u> 15                                   </u>	-Camera I2C bus level is 3.3V. -Follow RF request	-Add CAM_I2C bus level shift circuit ( Q26 · R440 · R441 ) to 3V levelChange C147, C148, C150, C152, C195, C196, C302, C303 from 10pF to 18pF by RF request.							
0.2	40	3/08	CKT,Layout	11	-Follow HF request	-change C147,C148,C150,C152,C195,C196,C302,C303 from 1upr-to 18pr- by Hr request.							
					0.2 -> 0.3 Modify <2011.03.22.~2011.04.22. >								
Rev.	tem	Date 0/00	Impact	Page	Change Cause	Modify Description							
0.3	2	3/23 -3/28	CKT,Layout CKT,Layout	11	-Modify JTS1 pin define by follow vendor requestC298 Material shortage	-Swap JTS1 pin2 and pin3 to follow module pin defineChange C298 package from 0603 to 0805							
	3		-CKT,Layout	13,19	-Follow NVidia request	Add HDML DDC and HDML HPD level shift circuit (Q27 · Q28 · R444 · R445 · R447). Modity JDOCK1 pin 30 and 31 net name.							
	4-		- <u>CKT</u>	19	-Follow EMI request	-Change and instal R374 to 33ohms and C219 to 22pF by EMI request.							
	5		- <del>СКТ</del>	9	-X1 output CLK not accurate enough.	-Change C99 and C100 to 35pF by vendor suggestion.							
	6		- <u>скт</u>	17	-Follow SMSC USB3315 reference design	-Change R245 to 8.06K 1%							
0.3	7		-CKT	12	-SPK voice too small	-Change CT49 to 3900pF by Audio team request.							
	8		CKT,Layout	<u>19</u>	-Avoid leakage issue.	-Change SDIO3_WP pull up Tevel to +1.8VS							
	9		CKT	24	-BOM issue	-Move SW1 from PWR side to HW side.							
0.3			CKT,Layout	9	-Power charger unstable issue.	-Add EC_ACIN by power and EC request.							
	11		CKT,Layout	6	-Power charger unstable issue.	Change ACIN netname to ACIN_T20 by power request.							
	12		CKT,Layout	13,21	-Charger from Cradle micro USB issue.	-Add D33 and change +USB_CLIENT netname to +USB_CLIENT_DOCK to avoid charger from Cradle micro USB issue.							
	13		CKT,Layout CKT,Layout	19	-Follow EMC request.	-Add ESD diode D34 for EMC request.							
	14 15		CKT,Layout 	18 - <del>2</del> 1 – – -	-Follow EMC request. -Follow EMC request.	-Add C319,C320,C321,C322, and D35 by EMC request. -Change DT1,DT2 to D36,D37 by EMC request.							
	16		 	- <del>1</del> 4	-Pollow EMC requestAKM eCompass shortage issue.	-Change DT1, DT2 to D36, D37 by Elmo, requestReserve Yamaha eCompass U38 by AKM eCompass shortage issue.							
	17		CKT,Layout CKT,Layout	13	Arkin ecompass shortage issueFollow EMC request.	neserve Tamana ecumpass obs by Arvine ecumpass shortage issue.  Remove R341,R342, and install L29 by EMC request.							
	18	4/20	-CKT,Layout -CKT	15	-Follow RF request.	- Teninger (Set), (1992, and it listed IEE9 by Limb (1994) and (1994) and (1994) and (1994) and (1994) by RF request.							
	19		- <sub>СКТ</sub> ·	24	-Change LED to white light	-Change LED1 and LED2 from Red light to White light							
	20			12	-Follow EMC request.	-Add C323 and connector HP_AGND to D4							
0.3	21		CKT,Layout	13	-Follow EMC request.	-Del ESD diode D6,D19,D20,D21,D22,D25,D31							
	22	4/20	CKT,Layout	17	-For ULPI PHY high speed test fail issue.	-Reserver X4,R449,R450,R451							
	23	4/20	CKT,Layout	13	-Follow EMC request.	-Modify JDOCK1.6 and JDOCK1.7 netname							
	24		CKT,Layout	19	-Follow NVidia reference design.	-Modify HDMI_DDC and HDMI_HPD level shift circuit. Change R444 and R445 to 1.8K. Change R273 and R274 to 2.2K. Add R448 HDMI_HPD pull down resistance.							
0.3	25	4/20	CKT,Layout	21	-Follow EMC request.	-Change D36 and D37 to AZC099 by EMC request.							
	Ī					Security Classification Compal Secret Data Compal Electronics, Inc.							
						Issued Date 2011/11/5 Deciphered Date 2010/12/01 Title							
						Issued Date 2011/11/3 Decipinered Date 2010/12/3 THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. MEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY HISIDD ARRITHMENT CONSENT OF COMPAL ELECTRONICS, INC.							

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<u>PH</u>	J00 f	rom F Date	VT to SIT LA-74  Impact	61P REV	7:0.2 -> 0.3 Modify <2011.03.22.~2011.04.25. >    Change Cause	Modify Description
			CKT,Layout	Page 5	-For without 3G SKU setting	MODITY DESCRIPTION  Add PASS pull done for SW 3G SKU detect.
0.3	27	4/22	-CKT	8	-Customer request.	-Change 183, 184, 185, 186 to 12K, 1%
0.3	28		CKT,Layout	15	-Vendor request.	Reserver C325 for vendor request.
	29		CKT,Layout	17	-Reduce power on irush current.	-Add soft start C324 to reduce instrument
	30		CKT,Layout	20	-Follow FR request.	-Add JP6 by RF request for SAR test.
			CKT,Layout	12	-INT MIC noise issue.	-Add R435,C326 to reduce Int. MIC noise issue.
- '- '-		-1				

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