

Compal Confidential

PBJ30 Schematics Document

Nvdia(T20) + DDRII

2011-07-20

3G Version PCB

LA-7252P

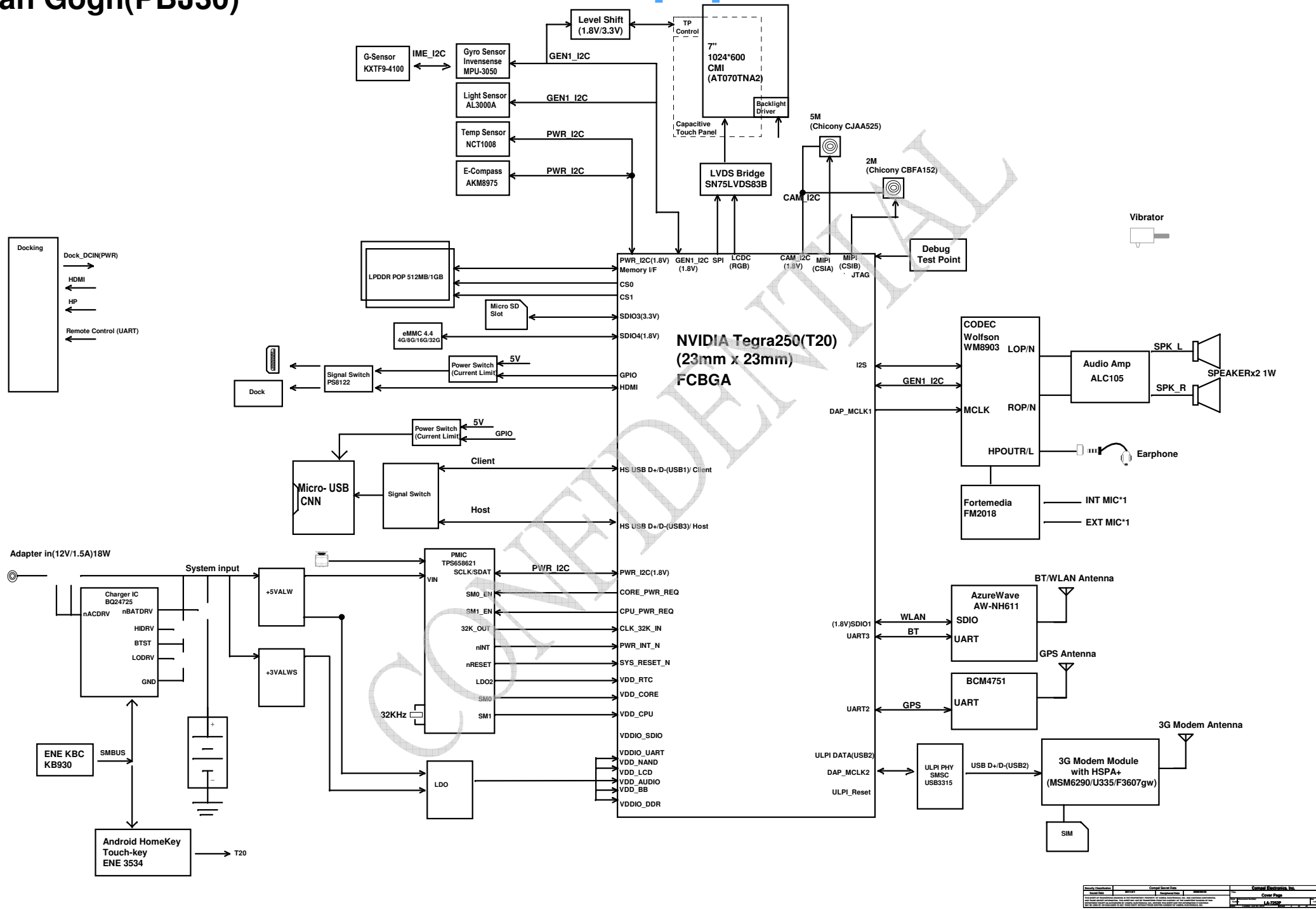
REV: 1.0

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NVIDIA Tegra250(T20) System Block Diagram

Van Gogh(PBJ30)

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Voltage Rails

Power Plane	Description
VIN	Adapter 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

PWR_I2C address

Device	Address
PMU	0110 100x b
e-Compass	0001 100x b
Temperature sensor	1001 100x b

CAM_I2C address

Device	Address
Camera 5M	0111 101x b
Camera 2M	0111 100x b
LED Flash	0110 011x b

GEN1_I2C

Device	Address
Audio Codec	0011 010x b
Light sensor	0011 100x b
Gyro	1101 000x b
G-sensor	0001 111x b
Touch-Pad	1100 111x b

TS_I2C

Device	Address
--------	---------

GEN2_I2C

Device	Address
EC	1011 000x b

AP_SMB

Device	Address
--------	---------

EC_SMB

Device	Address
Echo Cancellation	1100 000x b

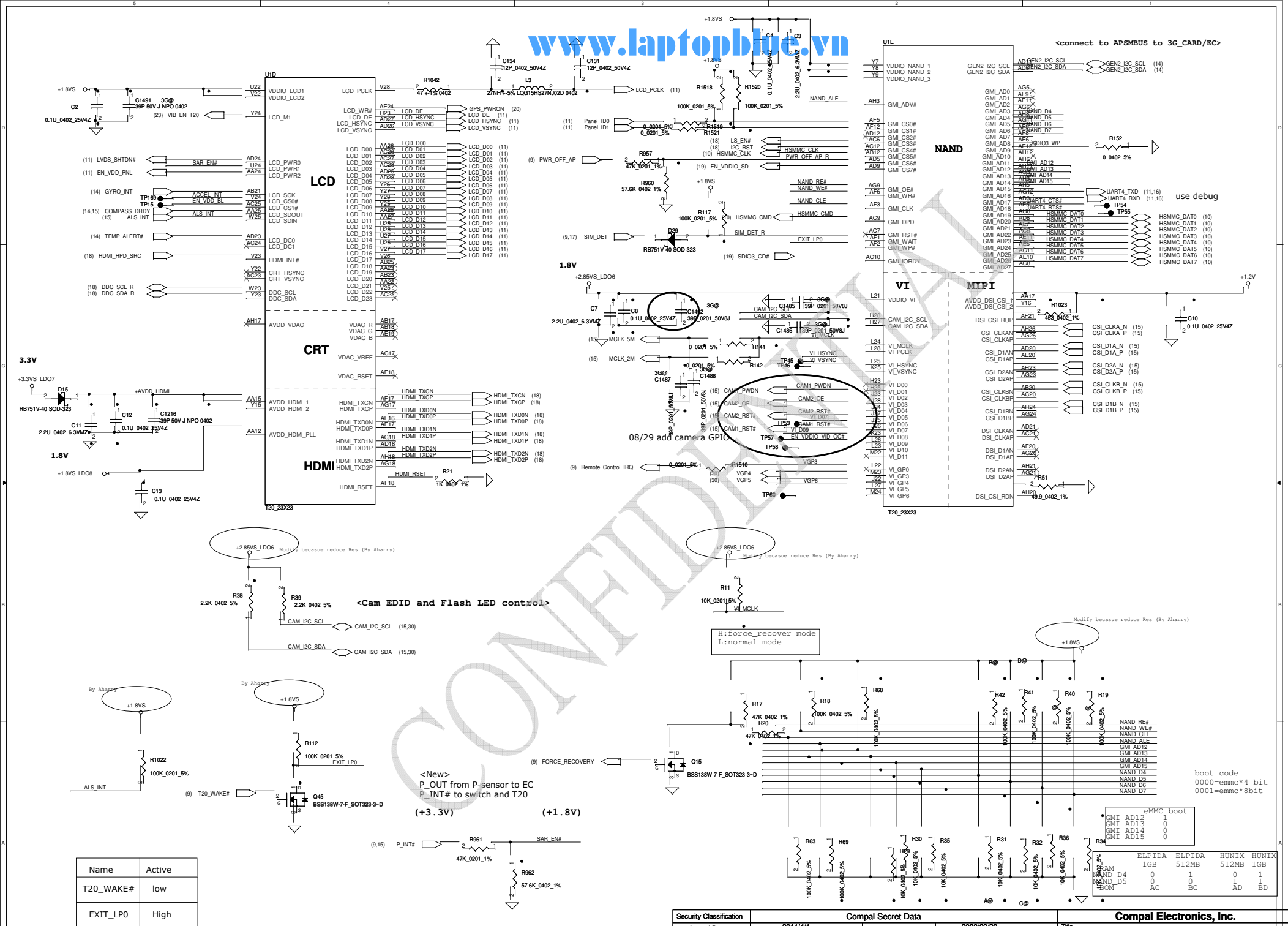
IME_I2C

Device	Address
--------	---------

DDC_I2C

HDMI_DDC_I2C

Device	Address
--------	---------



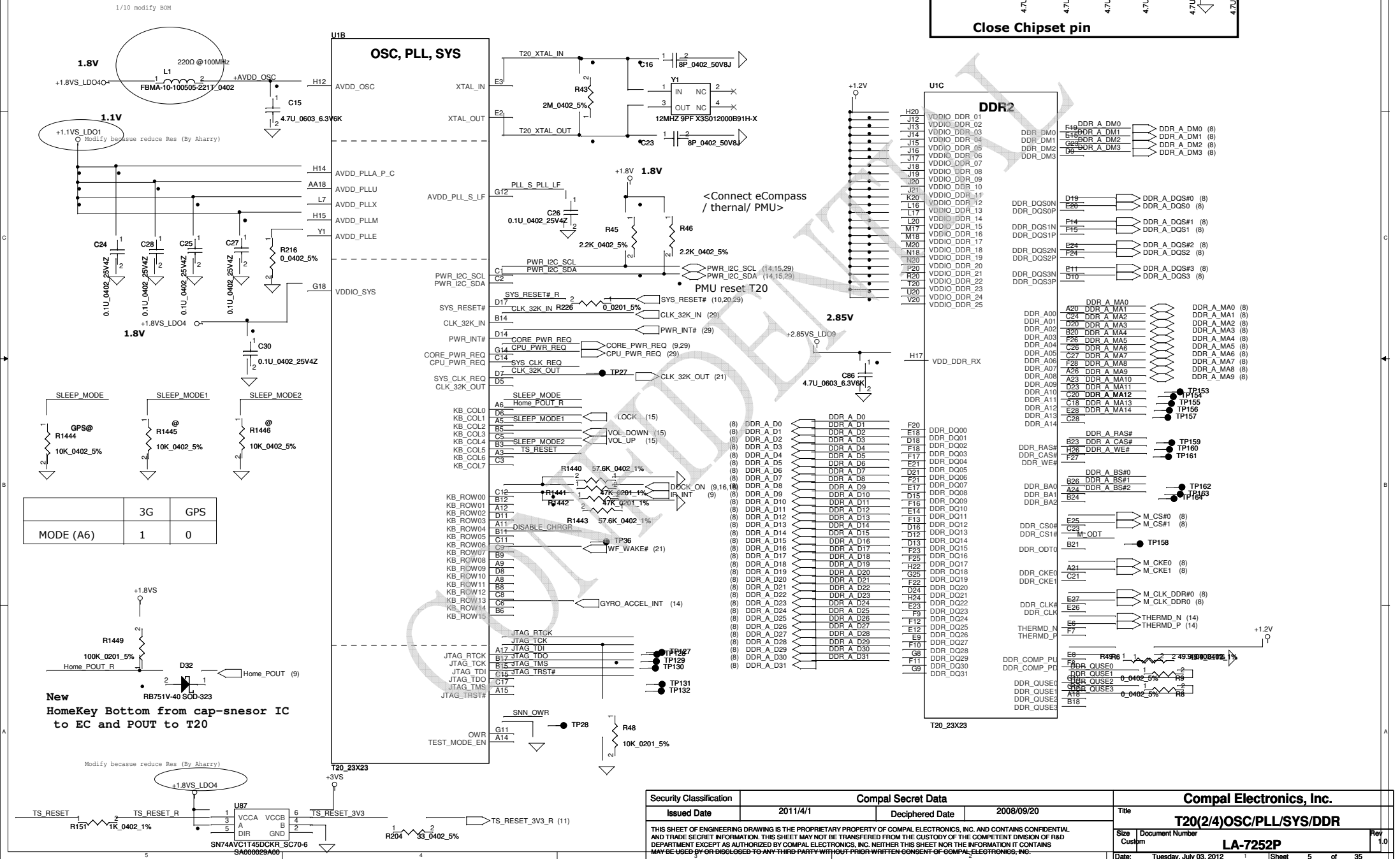
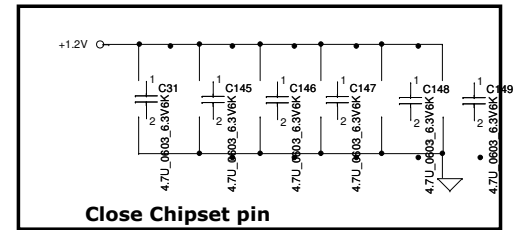
Name	Active
T20_WAKE#	low
EXIT_LP0	High

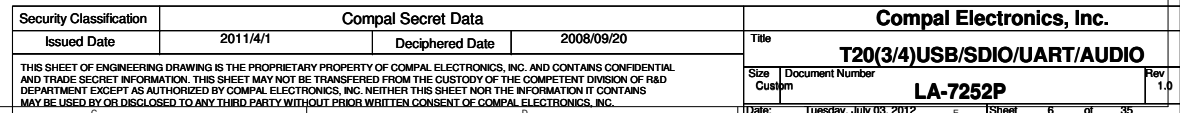
eMMC boot

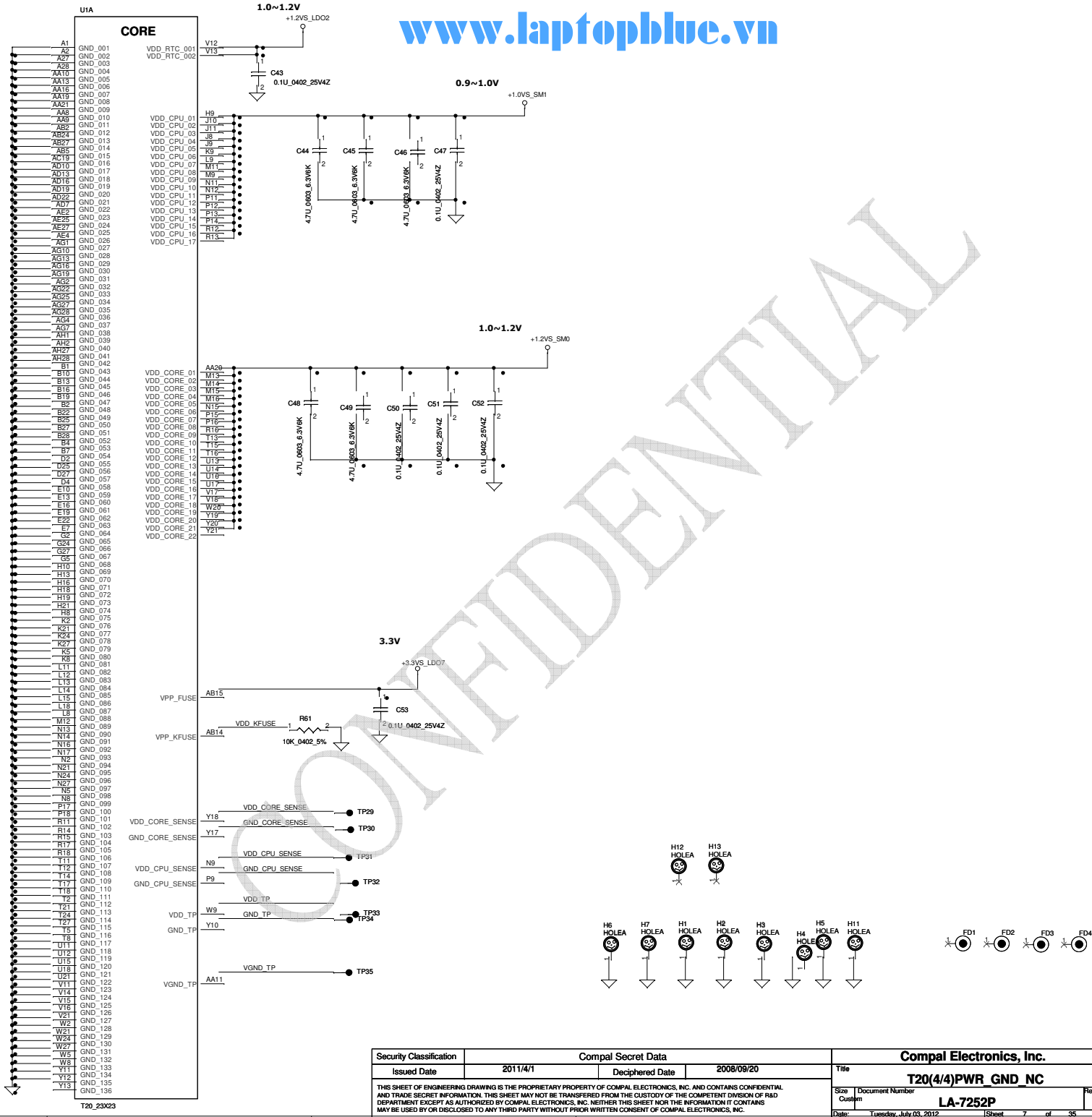
- GMI_AD12 1
- GMI_AD13 0
- GMI_AD14 0
- GMI_AD15 0

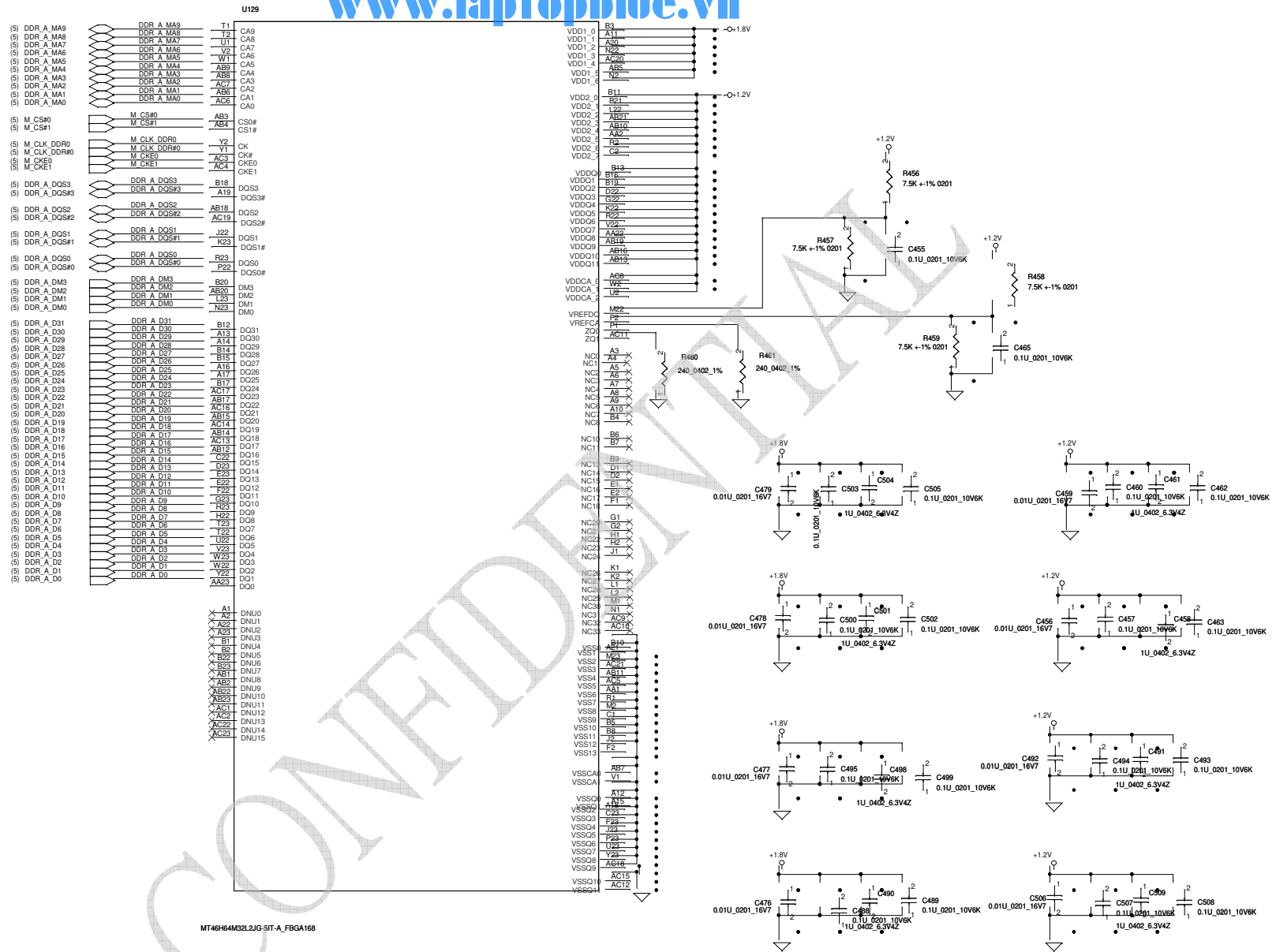
	ELPIDA 1GB	ELPIDA 512MB	HUNIX 512MB	HUNIX 1GB
RAM	0	0	1	1
D4	0	1	0	1
D5	0	0	1	1
BOM	AC	BC	AD	BD

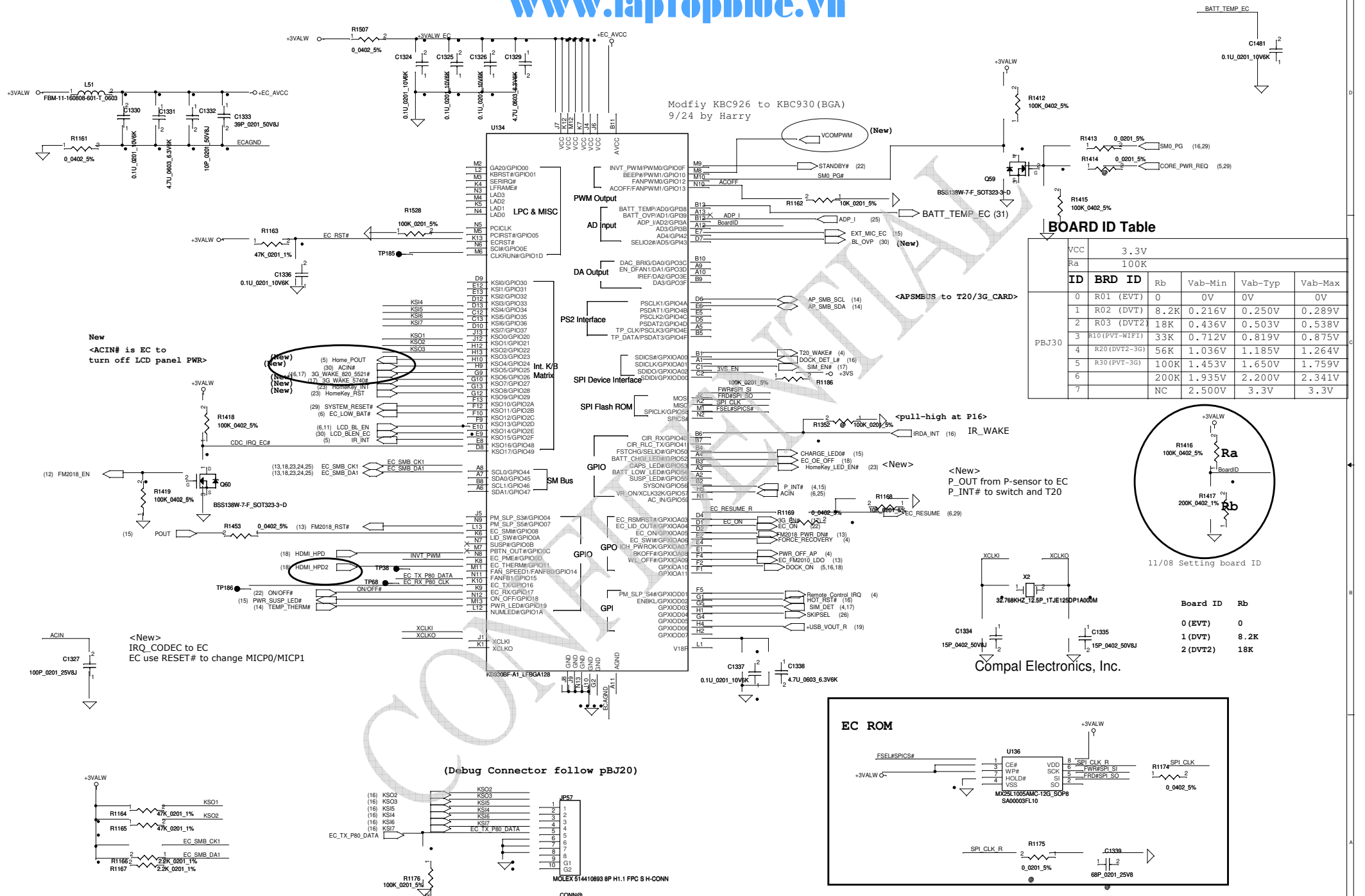
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Issued Date	2011/4/1	Deciphered Date	2008/09/20	Title	T20(1/4)LCD/CRT/HDMI/NAND
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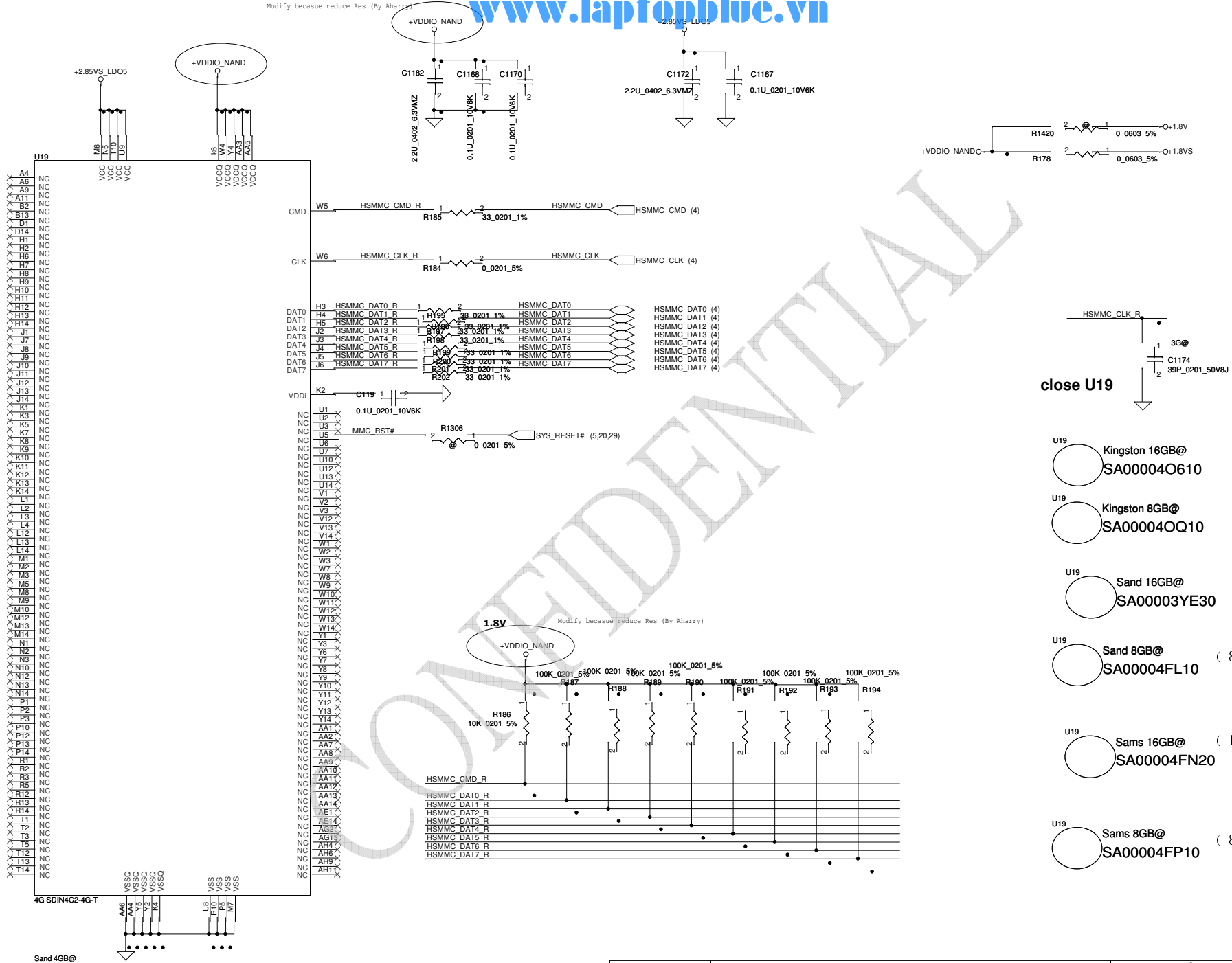






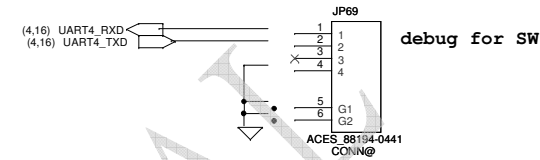
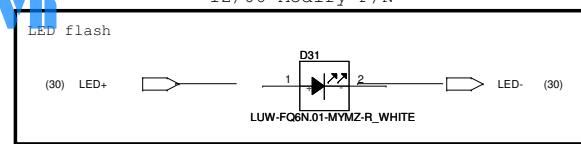
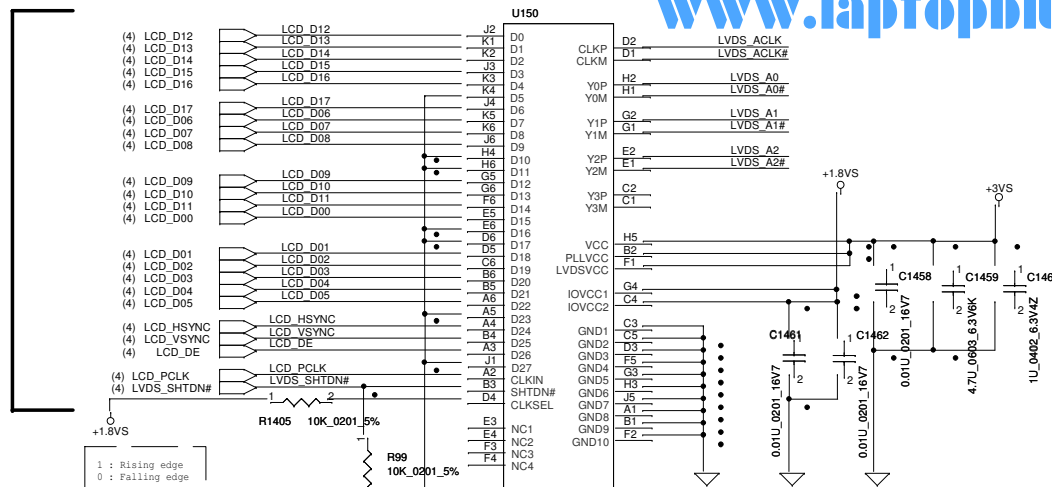
Modify because reduce Res (By Aharry)

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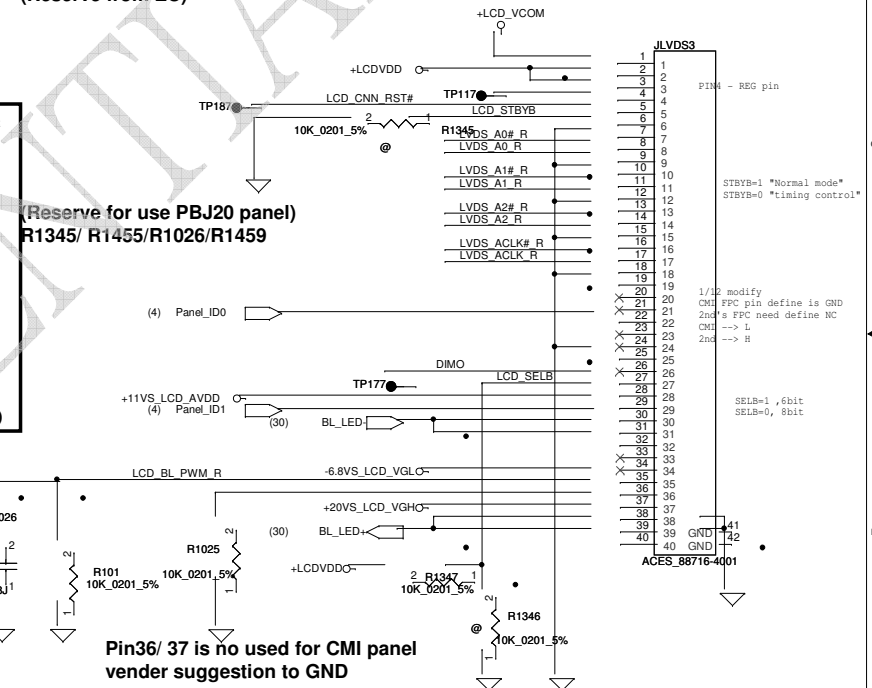
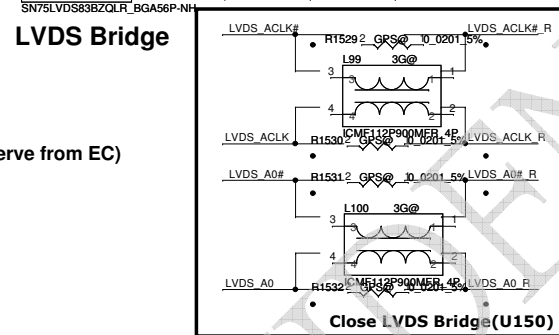
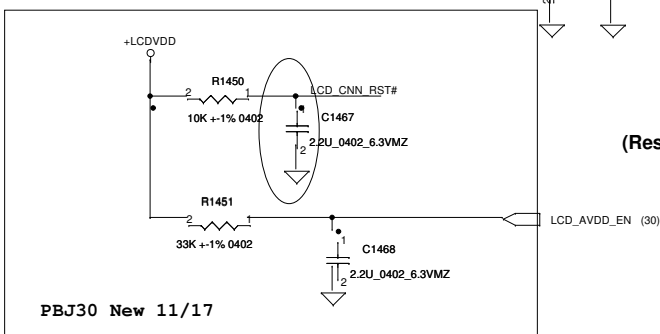


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				Rev 1.0
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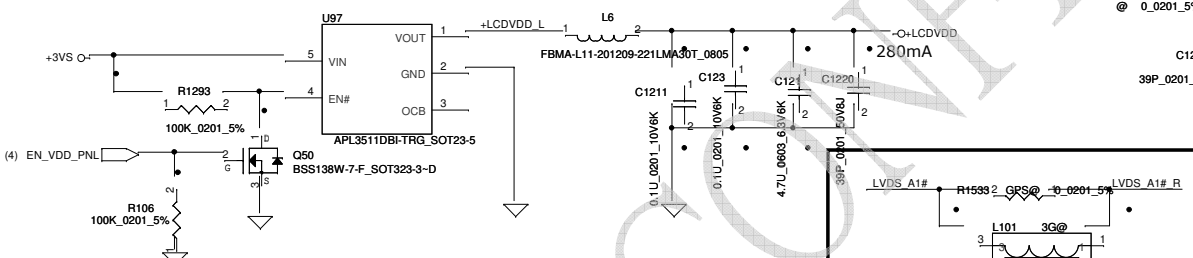
1.8V level



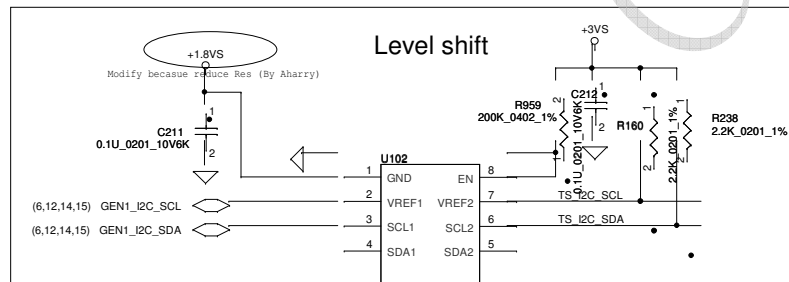
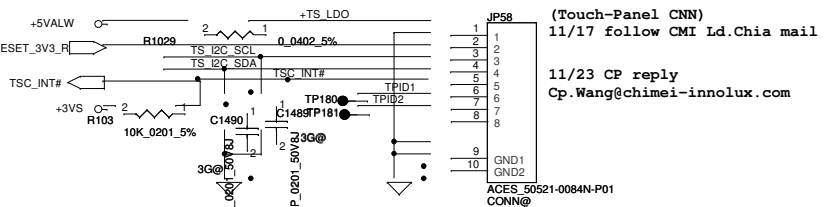
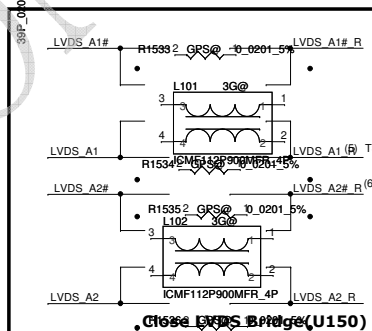
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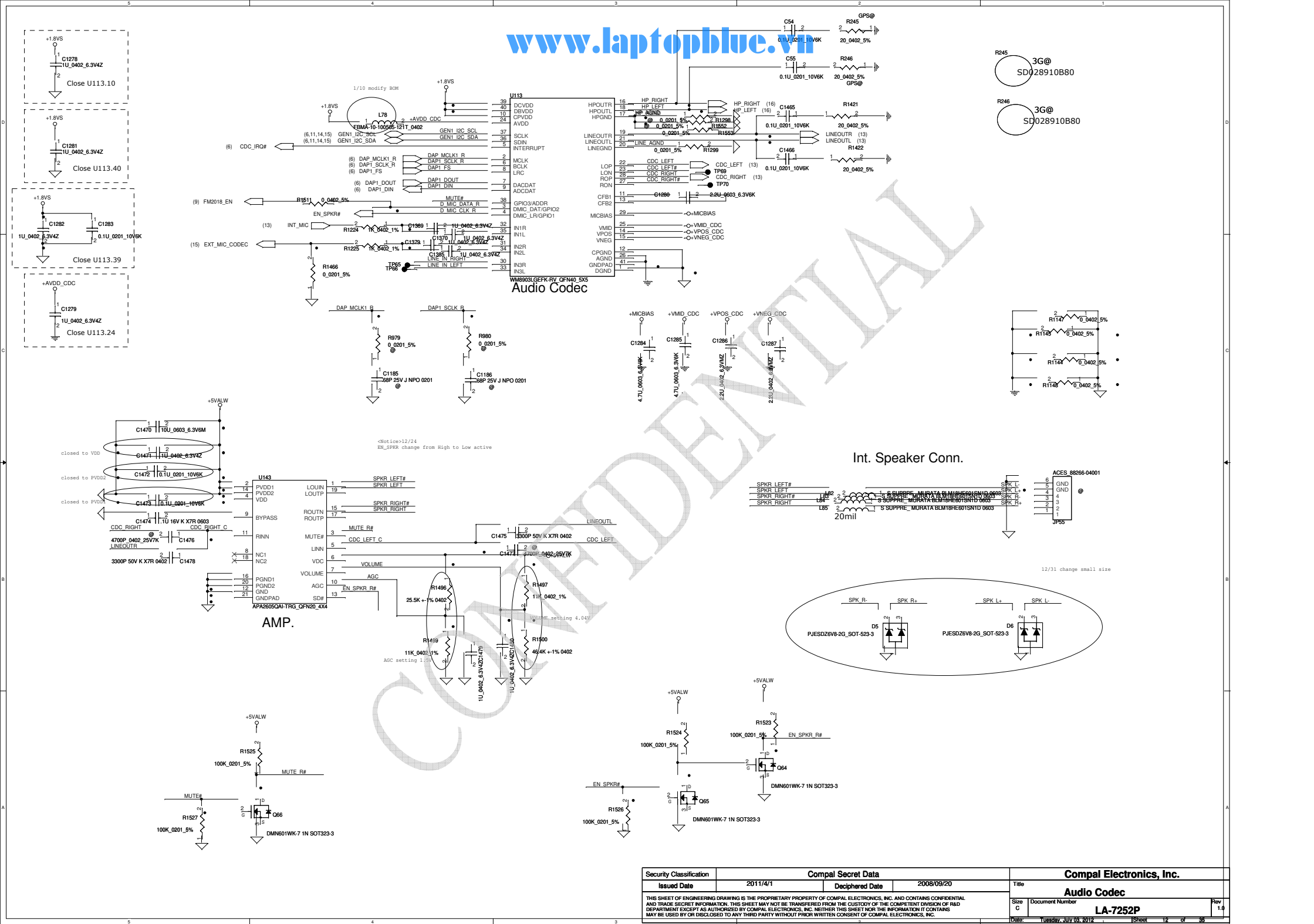
LCD POWER CIRCUIT



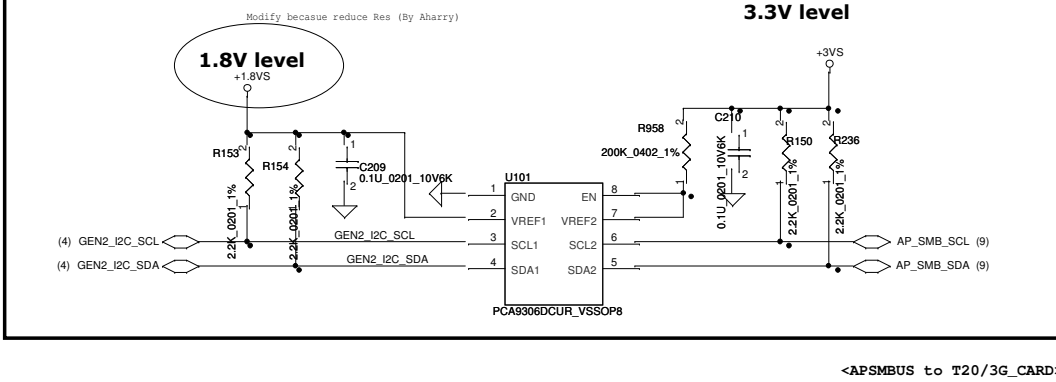
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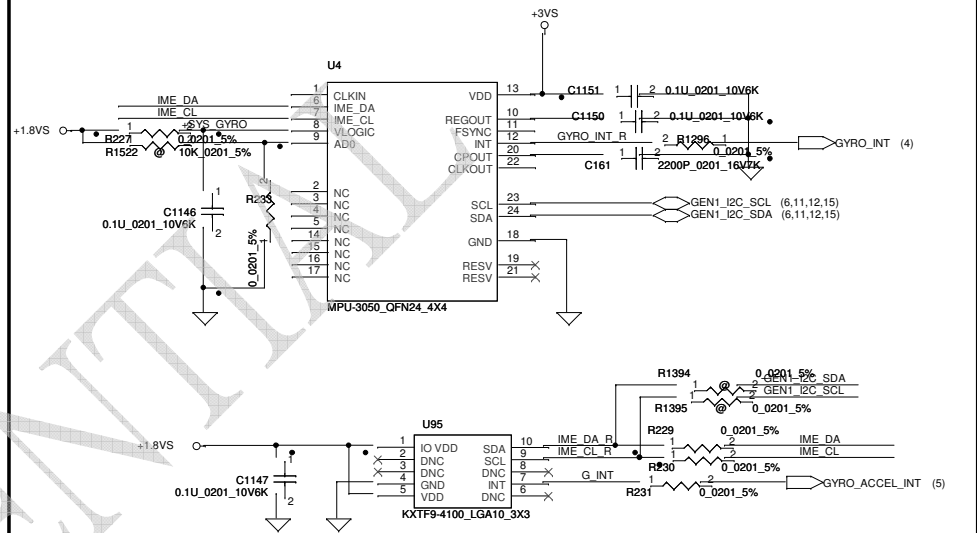
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				Size Custom	Document Number LA-7252P	Rev 1.0
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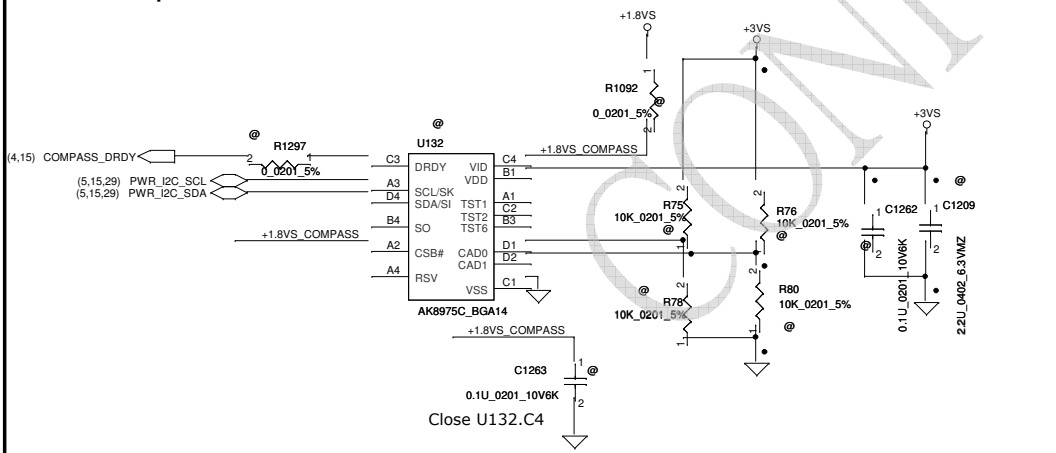
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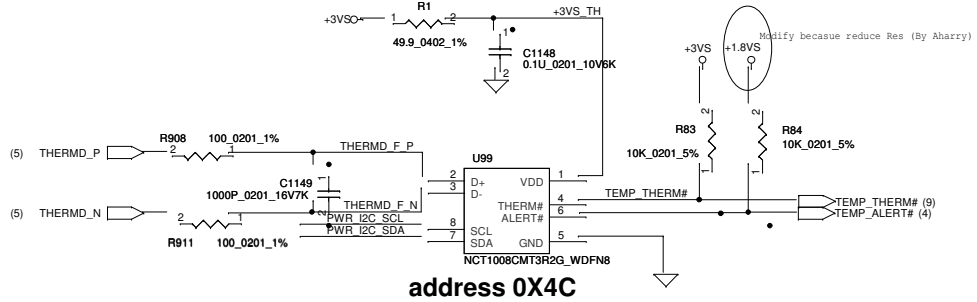
GYRO



Ecompass

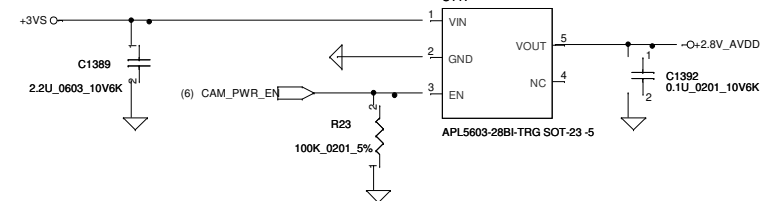
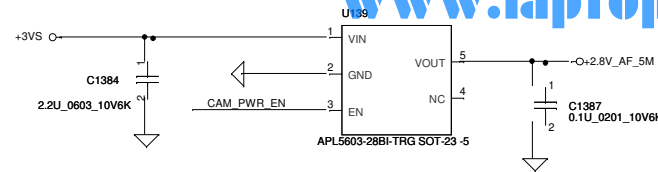


max current is 350uA
VR1 =17mV

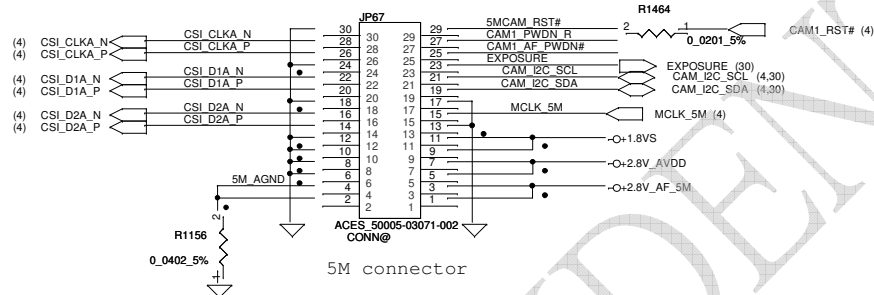
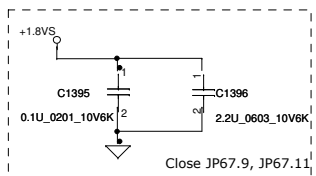
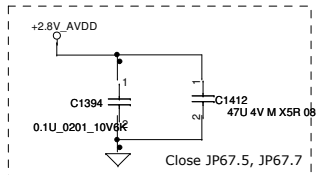
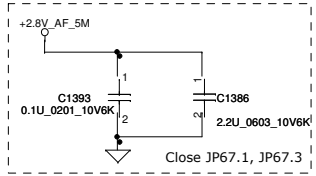
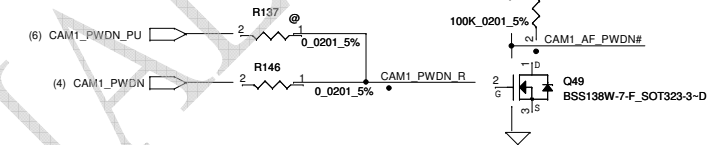
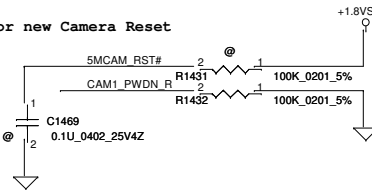


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				Size Custom
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5M Camera



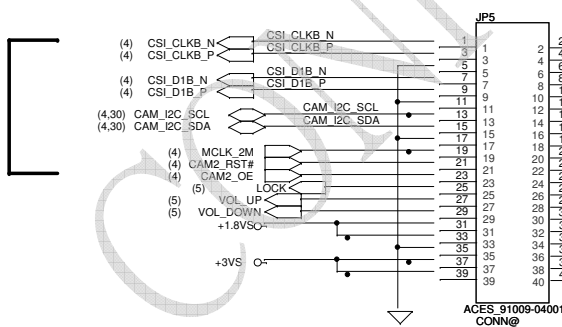
<New> RC for new Camera Reset



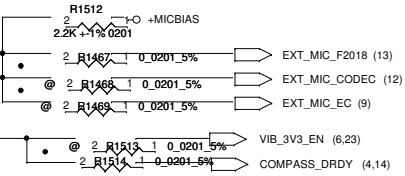
Name	Active
CAM1_RST#	Low
CAM1_PWDN	High
CAM1_AF_PWDN#	Low

To I/O Board

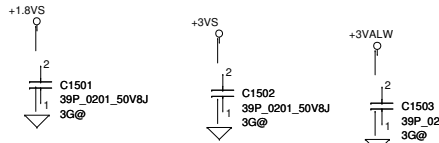
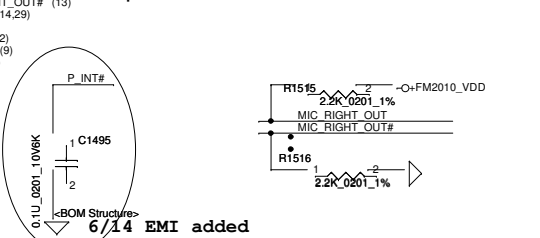
2M Camera



Audio HP



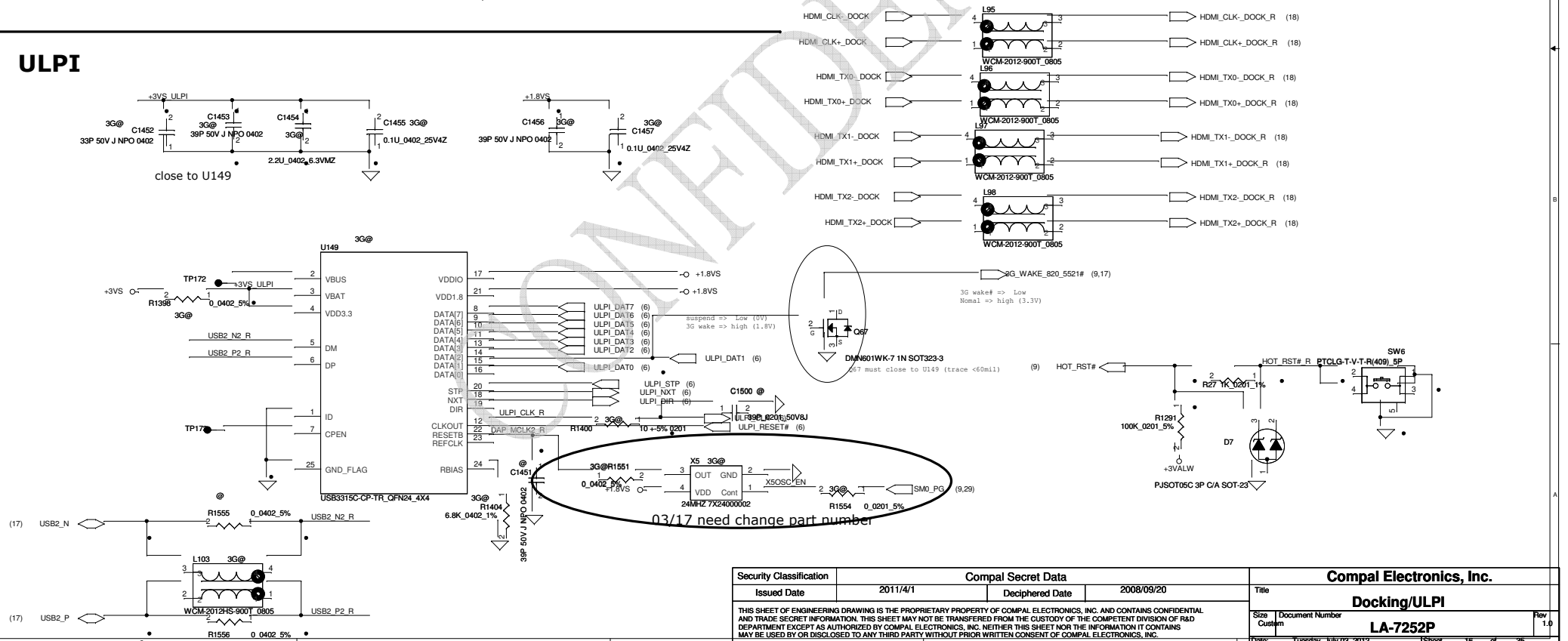
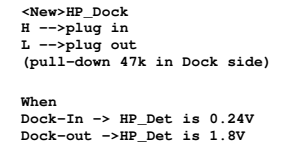
one port MIC



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				5M Camera/ IO board CONN.					
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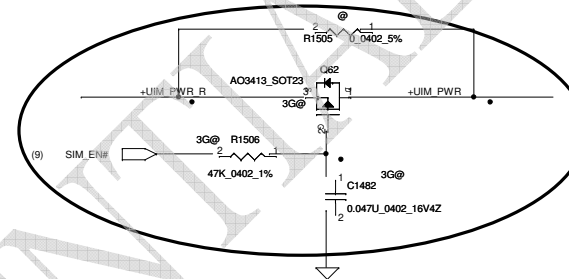
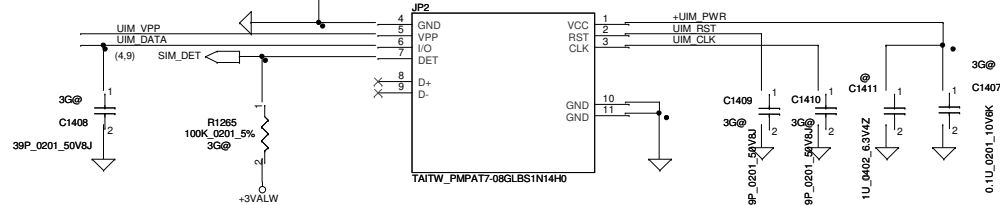
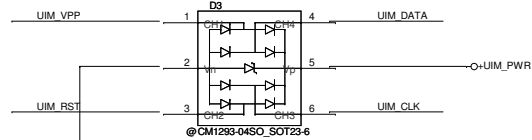
The diagram shows two identical nodes, R1470 and R1473, arranged horizontally. Each node is represented by a circle. Inside each circle, there is a label '3G@' and a component identifier 'SM010001Q00' below it. The nodes are connected to a central vertical line, which is part of a larger network structure shown in the background.

POR status =PD

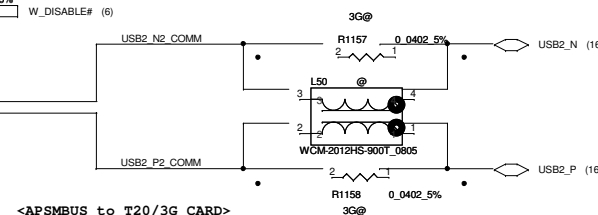
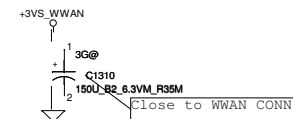
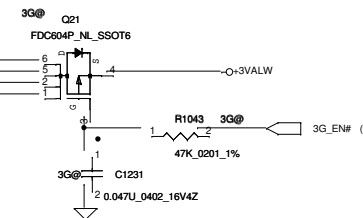
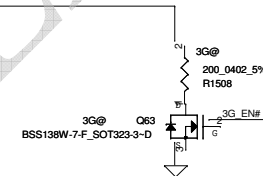
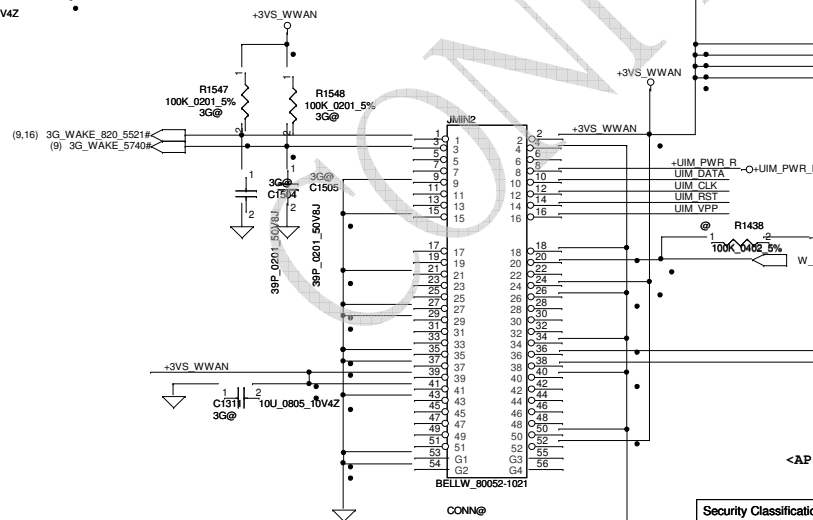
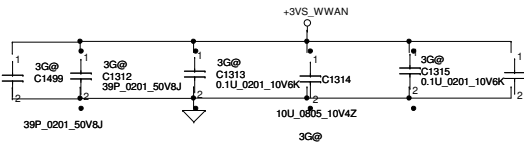


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SIM CARD



Mini-Express Card for WWAN

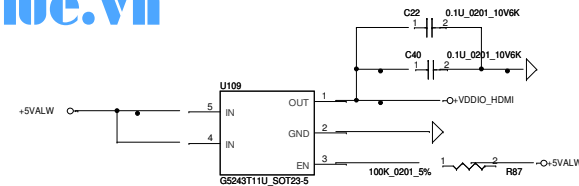


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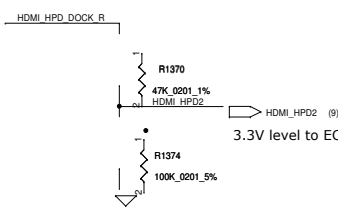
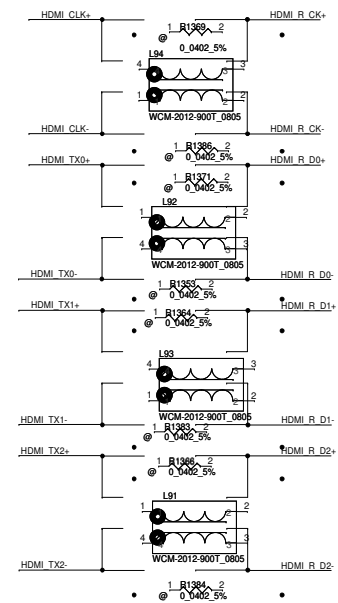
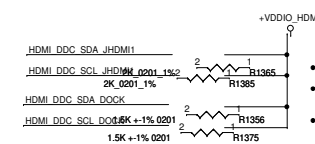
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Schematic diagram of the JHD11 module showing its connection to the HDMI HPD_R signal. The module is represented by a black box with pins 1 through 19. Pin 1 is connected to HDMI HPD_R through a 200pF capacitor (C1446). Pin 2 is connected to a 1K 0402_1% resistor (R1439) which is then connected to pin 1. Pin 19 is connected to +VDDIO_HDMI. The module pins are labeled with their functions: 1 HP_DET, 2 Utility, 3 D2_Shield, 4 D2, 5 D1+, 6 D1_Shield, 7 D1, 8 GND0, 9 GND1, 10 D0_Shield, 11 GND2, 12 GND3, 13 CK+, 14 CK_Shield, 15 CK, 16 CEC, 17 DDC/CEC_GND, 18 SCL, 19 SDA. The module is identified as BELLU 80082-1021 and is connected to CONN@.

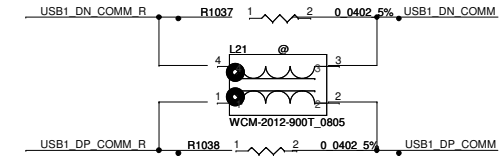
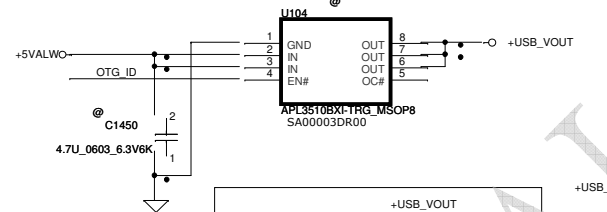
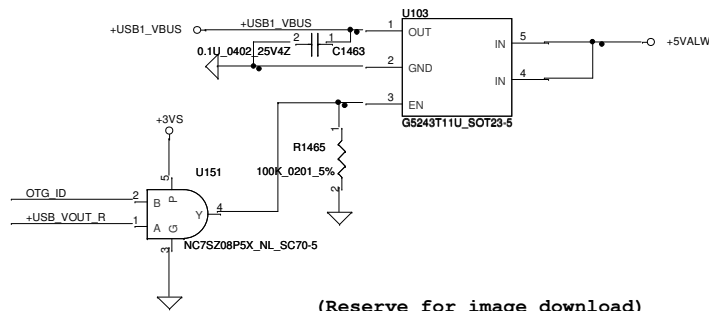


Pin Number	415	8122
1	SW	SW/SDA_CTL
2	OE#	OE#/SDA_CTL
3	Test	I2C_CTL_EN
18	NC	MODE/I2C_ADDR
33	OC_P2	CEXT
48	OC_P1	REXT

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				Size C		Document Number	
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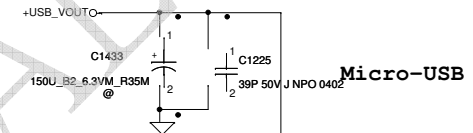
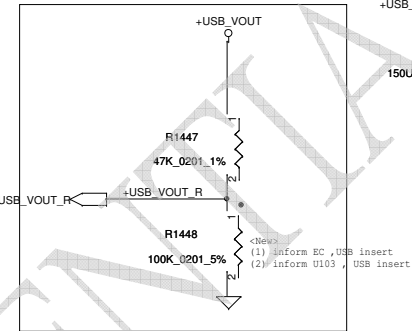
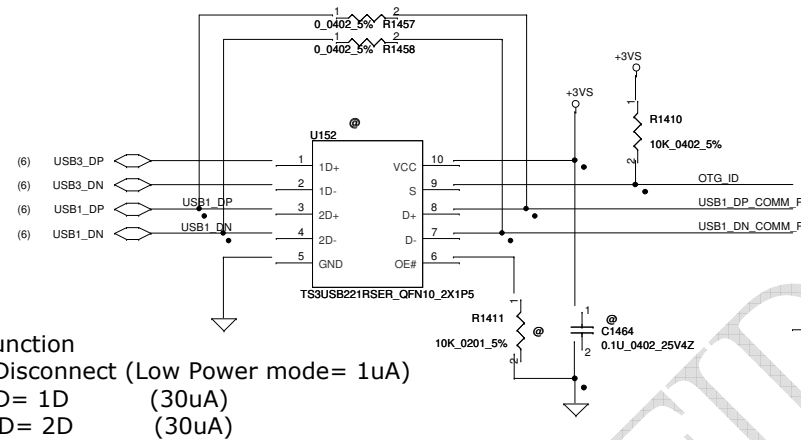
Micro USB

To T20 +USB1_VBUS



(Reserve for image download)

Host T20 Port3
Client T20 Port1



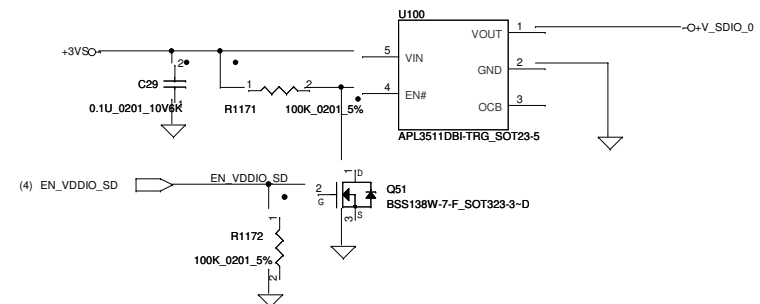
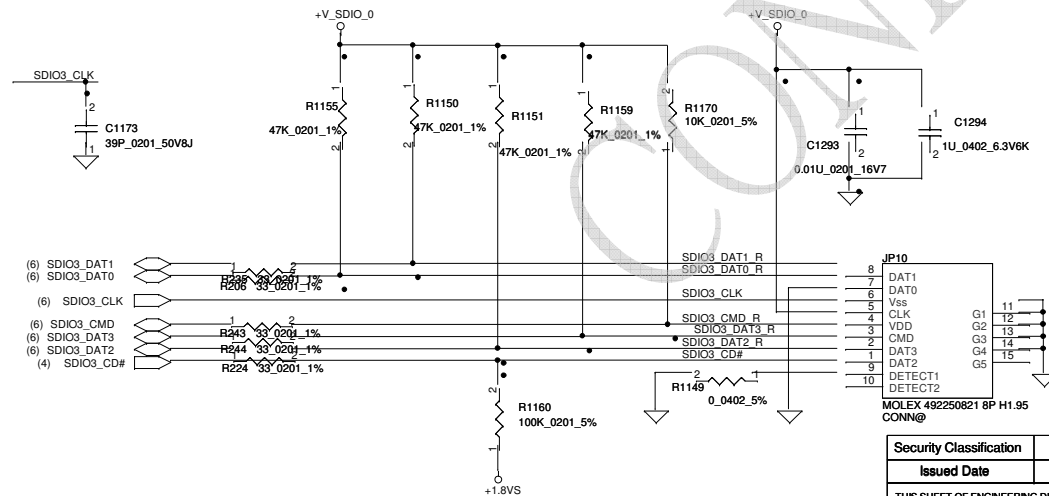
Micro-USB

JP70
ACON_MUC4A-557700

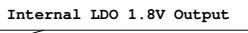
ID: Low -> T20 = Host
ID: Floating -> T20 = Client

S	OE#	Function
X	H	Disconnect (Low Power mode= 1uA)
L	L	D= 1D (30uA)
H	L	D= 2D (30uA)

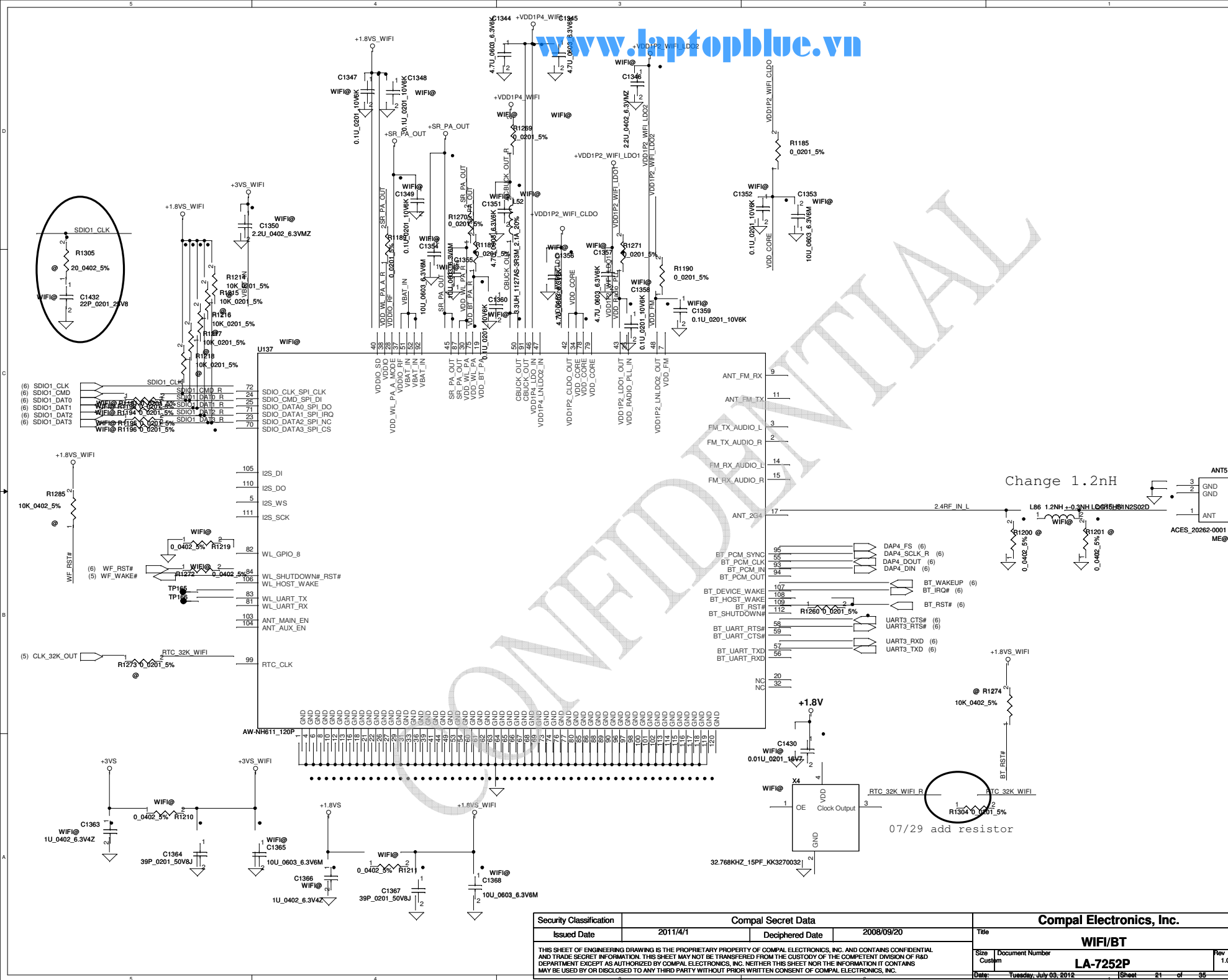
Micro SD

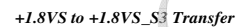
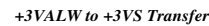


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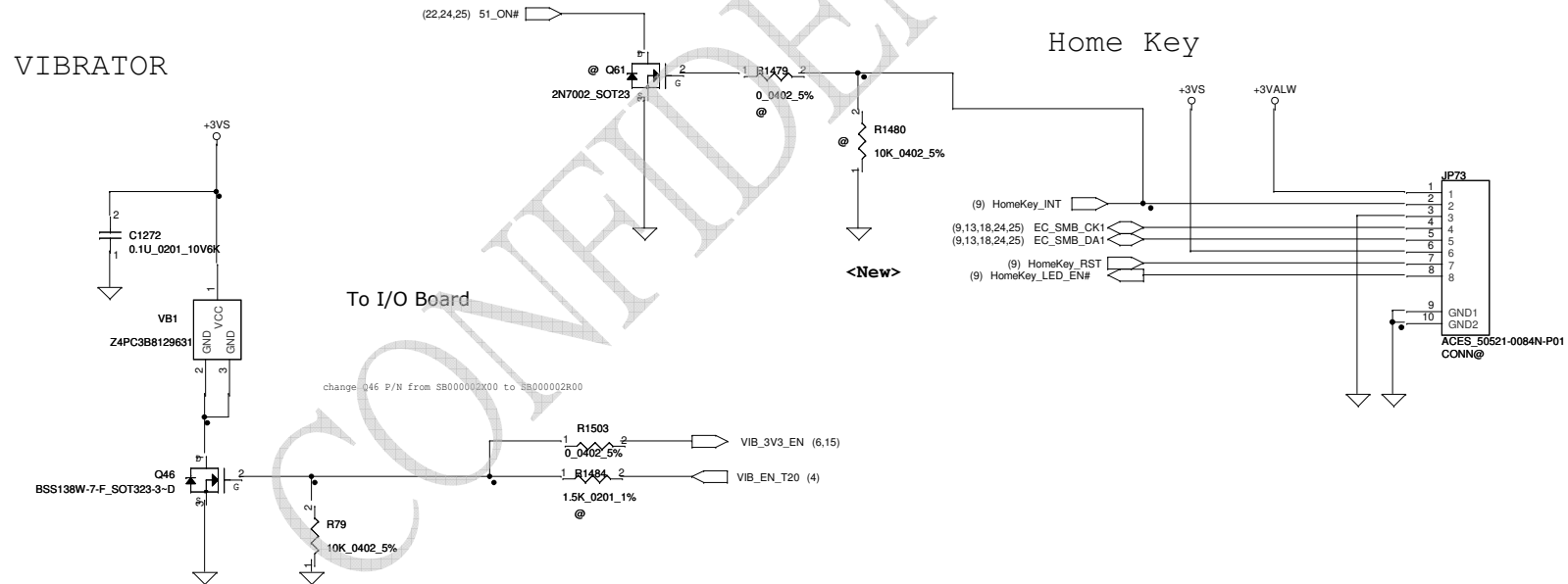
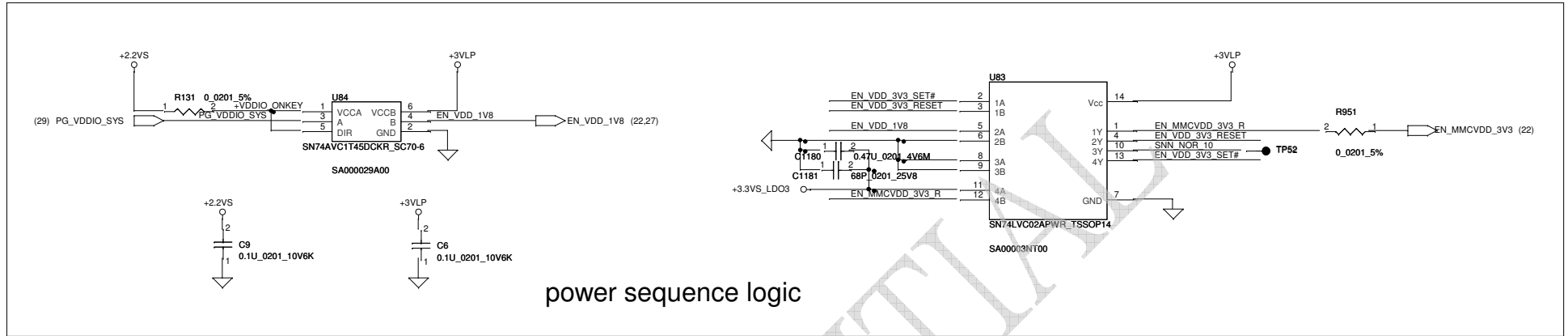


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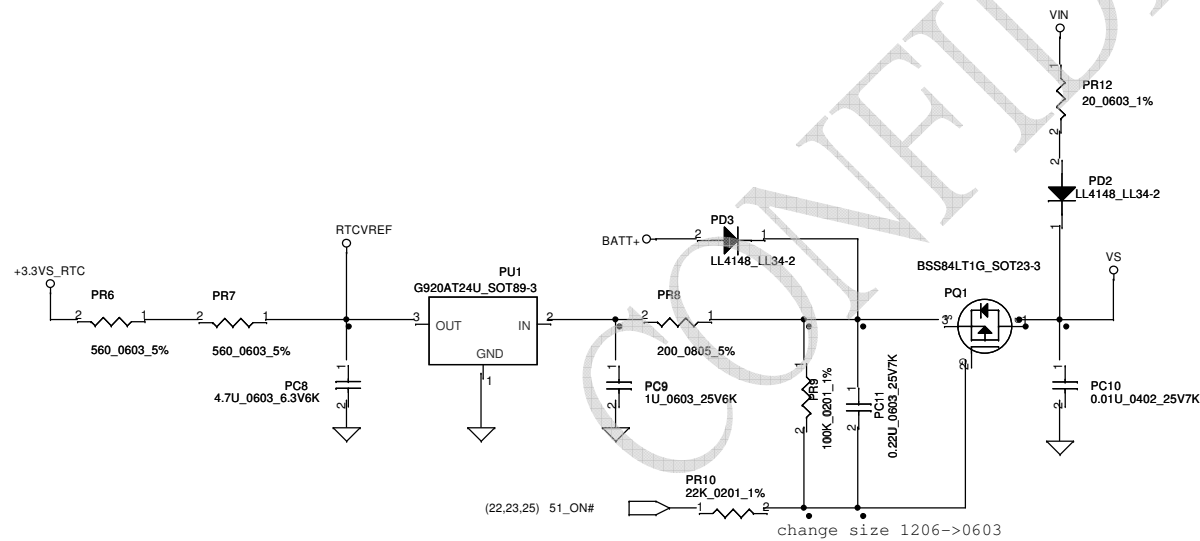
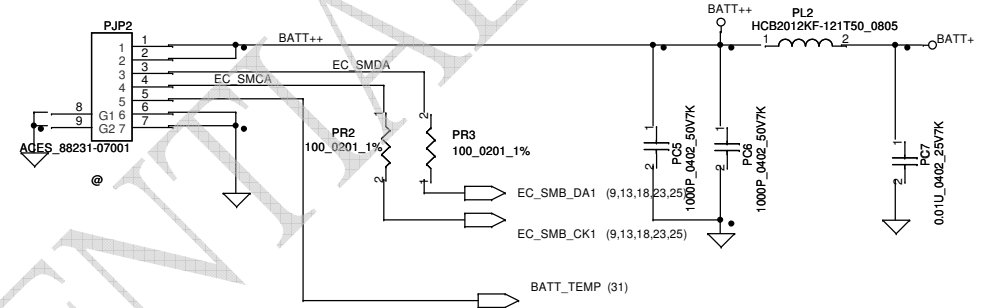
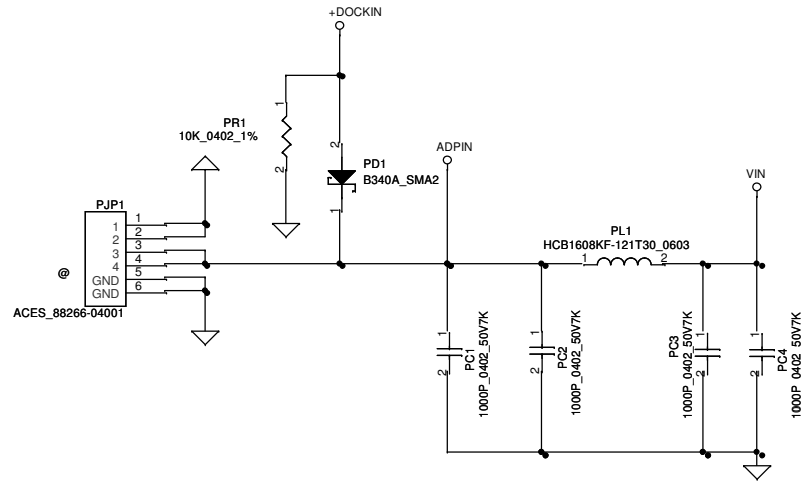




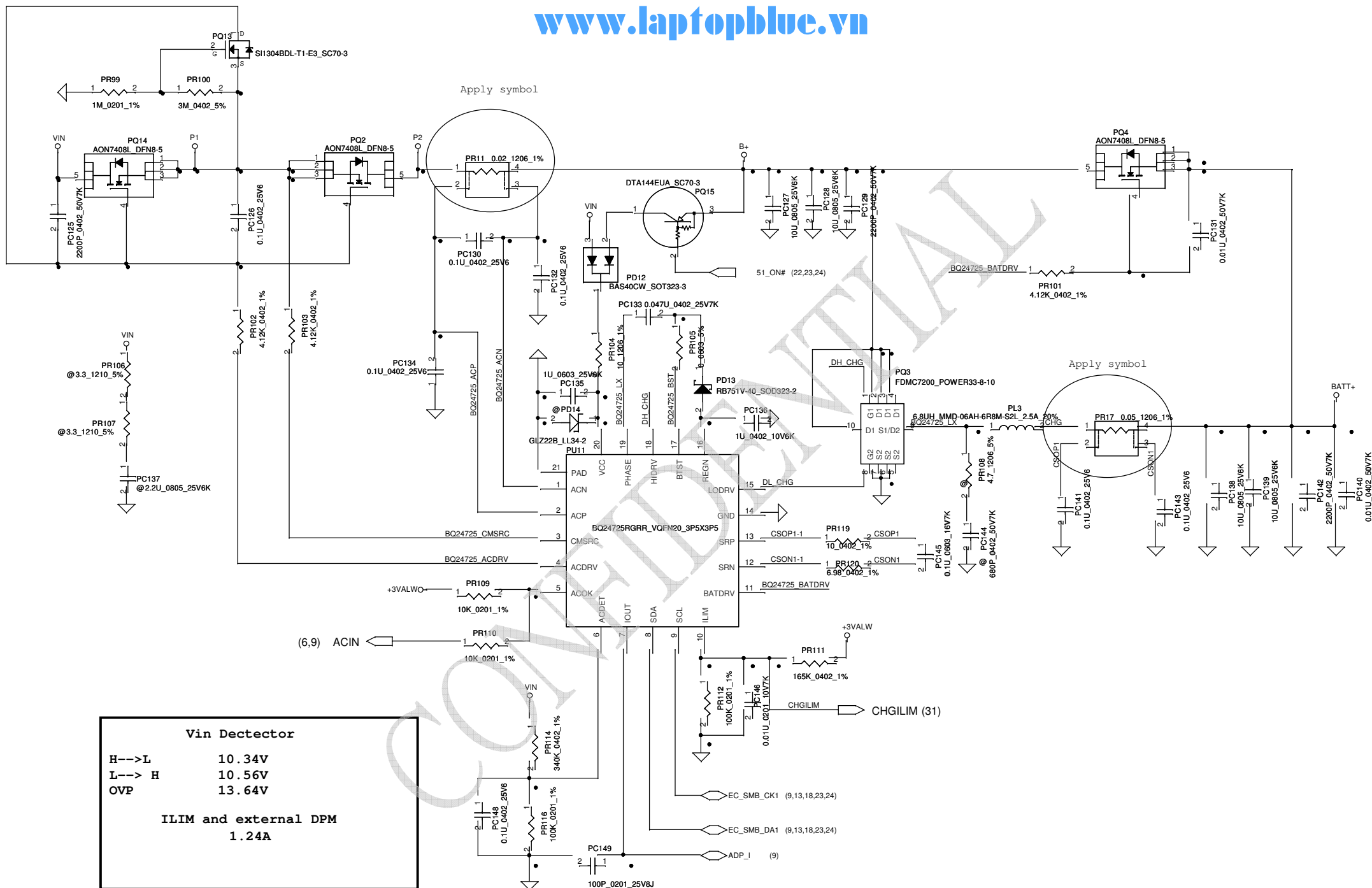
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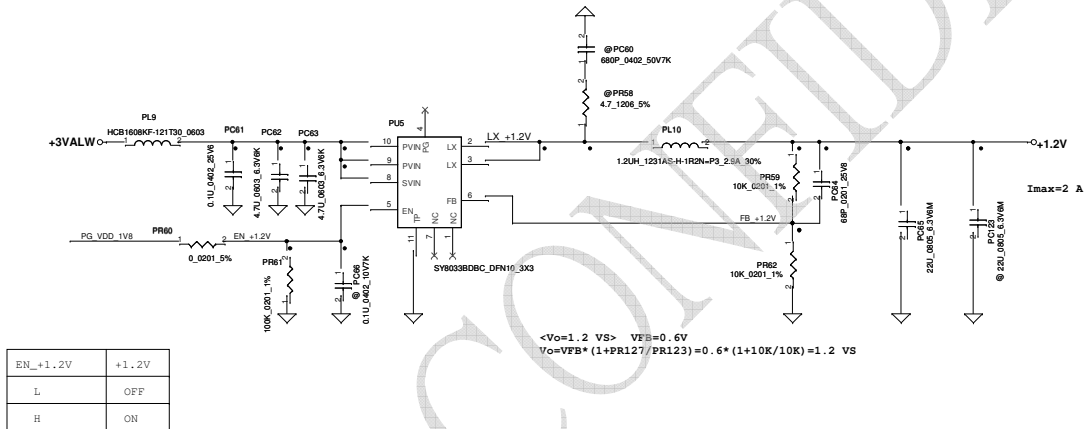
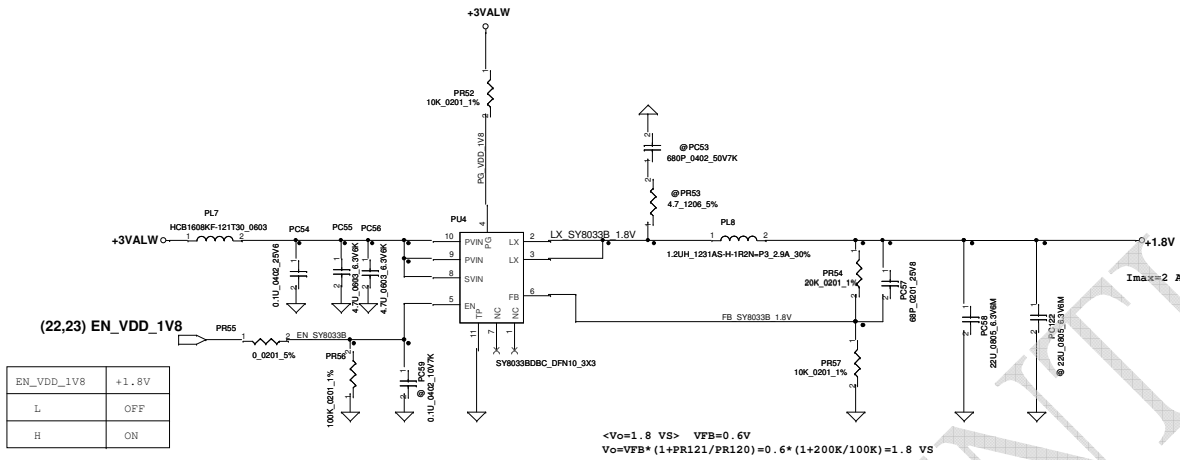
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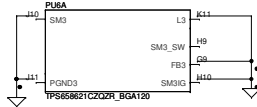
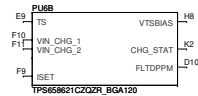
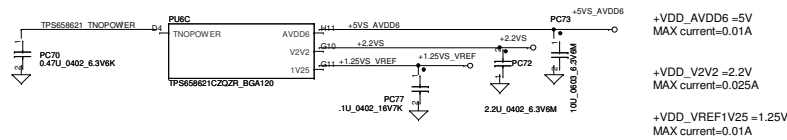
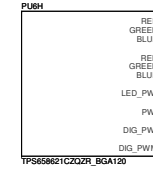
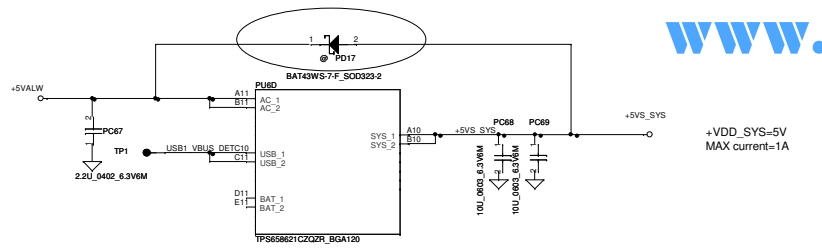
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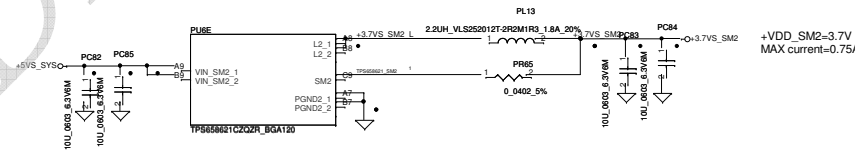
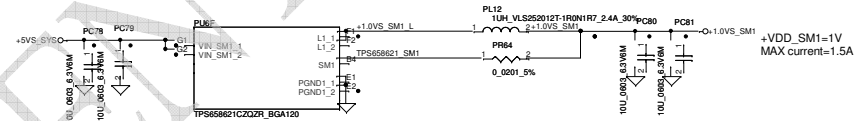
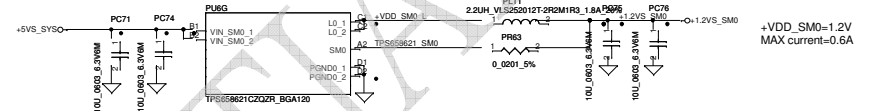
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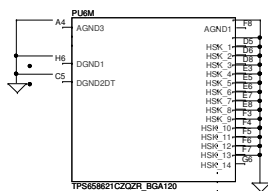
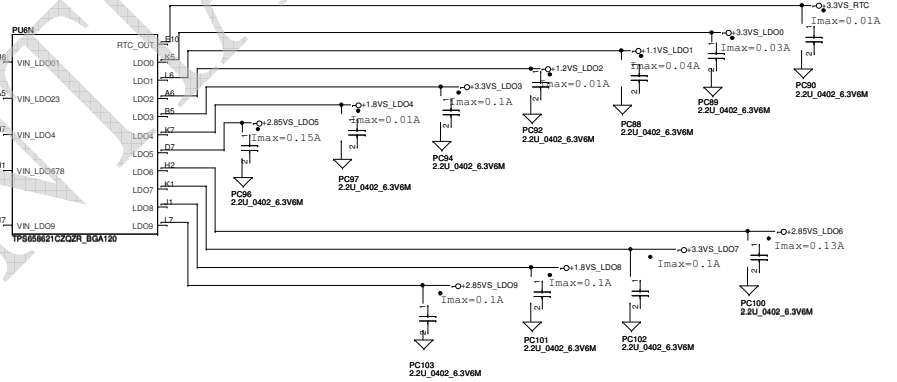
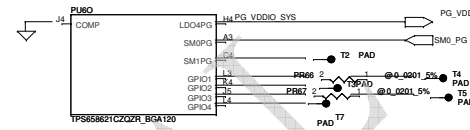


BOOST Converter

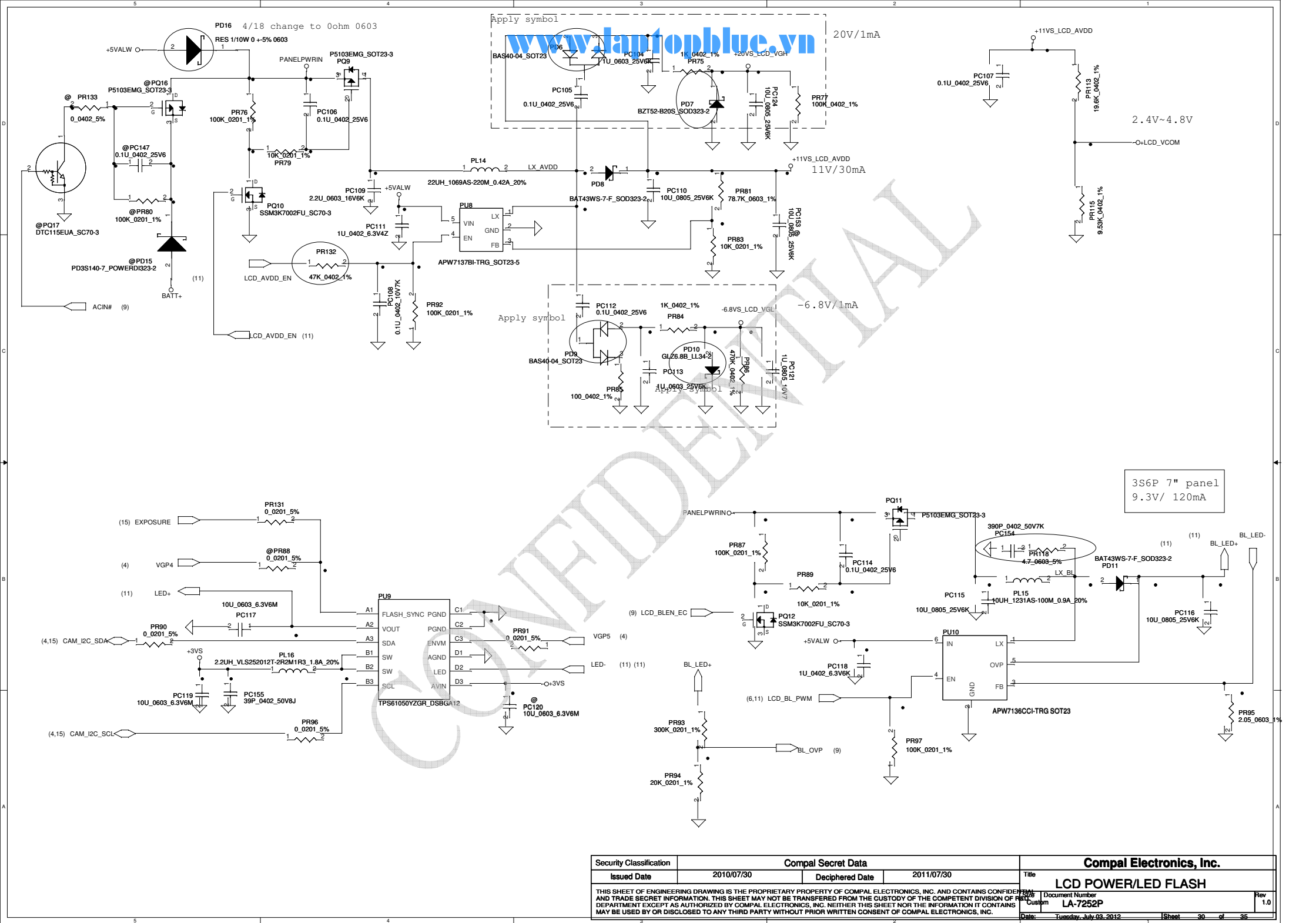


PMU #1

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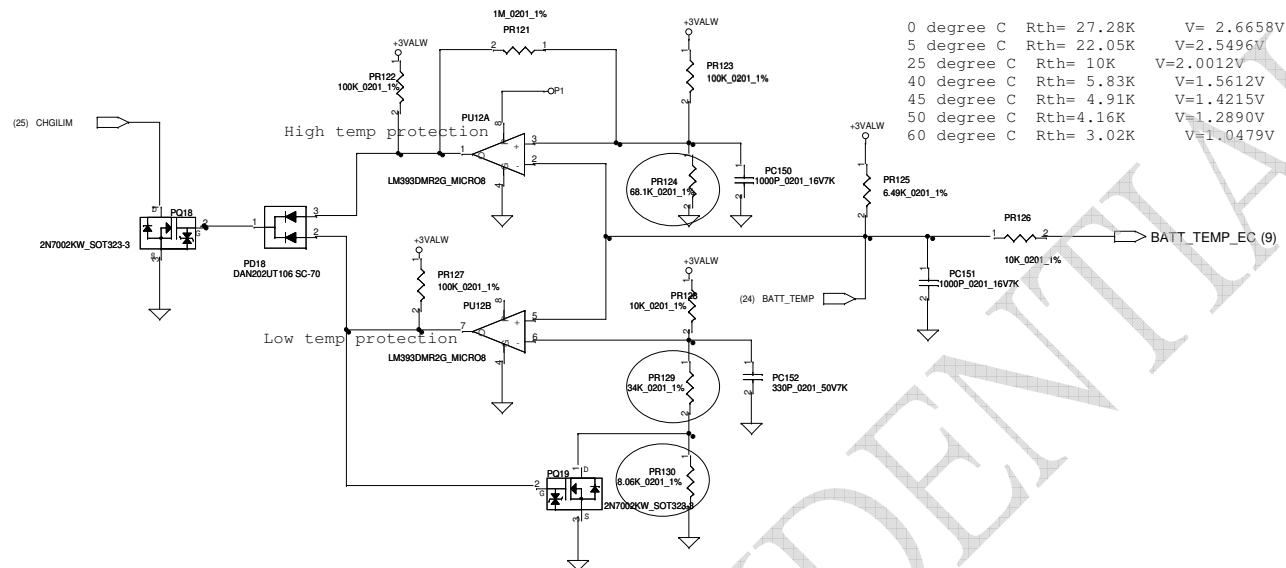


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0 degree C protect, 5 degree C recovery.
50 degree C protect, 45 degree C recovery.



CONFIDENTIAL

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Size C	Document Number			Date: Tuesday, May 03, 2011 Sheet 31 of 35	

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

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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1	Fix panel flicker occurred while plug in/out AC issue	Fix panel flicker occurred while plug in/out AC issue	3.0	30	Change PD15 & PQ16 & PQ17 & PR80 & PR133 & PC147 to non-pop Change PD16 to RES 1/10W 0 +-5% 0603	2011/04/18	3G PVT
2	Improve RF performance	Improve RF performance	3.0	30	Add PC155(SE071390J80,S CER CAP 39P 50V J NPO 0402)	2011/04/18	3G PVT
3	Fix location error	Fix location error	3.0	31	Change location from PQ21 to PQ19	2011/04/18	3G PVT
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Version change list (P.I.R. List)

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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
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<2010/11/01>

P04 - NET: HDMI_HPD_R change to HDMI_HPD_SRC
P15 - CAM2_OE pull down(High active for 2M camera)
P19 - ADD U151, U152, R1411, C1464

<2010/11/03>

P04 - ADD NET: DOCK_ON
P09 - ADD NET: HDMI_HPD, HDMI_HPD2, DOCK_ON
P11 - Modify U97 package to S023-5
Modify JP58(Touch Panel) Library
P12 - Modify JP55 Library
P13 - Modify internal MIC Library
P16 - Modify SW6 Library
P18 - DEL R1377, R1378, R1409
Modify U109 package to S023-5
P19 - Modify U97 package to S023-5

<2010/11/05>

P16 - Modify JP12(Docking) Library
P19 - Modify JP70(Micro USB) Library
Update power circuit

<2010/11/08>

P04 - DEL R931, C1217
P09 - ADD R1412~R1419 and Q59, Q60
P10 - ADD R1420
P11 - ADD D31 for LED Flash
P12 - ADD R1421~R1425 and C1465, C1466
P13 - ADD JMIC1, JMIC2, R1426~R1430 for DMIC
P15 - DEL 5M Camera circuit
P17 - ADD RF switch circuit
P18 - ADD R1439
P22 - DEL Power Button circuit
P23 - DEL P-Sensor circuit

<2010/11/09>

P15 - Update JP2 Pin arrangement
P17 - Remove RF switch circuit to IO board
P22 - Add Power Button circuit

<2010/11/15>

P04 - DEL NET: DOCK_ON
Change NET: PROX_INT# to P_INT#
P05 - ADD NET: DOCK_ON, IR_INT, Home_POUT, Home_LED_ON
ADD R1444~R1446, R1449, D32
P06 - Change R109 to 10K-ohm
Change NET: USB1_ID to +AVDD_USB
P09 - DEL R1177~R1179
DEL NET: USB1_ID, DOCK_DET_L#, SLEEP_MODE
ADD NET: POUT, IR_INT, FM2018_EN, P_INT#
P11 - Change NET: LED- to BL_LED-, LED+ to BL_LED+
Change JP58 Pin arrangement
P12 - Swap D5, D6
P13 - Remove MIC circuit
P15 - Change NET: +5VALW to +3VALW
P16 - DEL R1407, R72
P17 - Swap L50
P18 - Change L91~L94 to SM070001S00
Swap L93, L94 for layout
P19 - Change JP70 library
ADD R1447, R1448

<2010/11/17> By Harry

P12- add C54/C55/R245/R246
P12 - add R182(Head_DET#) pull-high on MB

<2010/11/18> By Harry

update Power schematic

<2010/11/22> By Harry

Page9 add EC ESB BUS

PVT-WIFI

<2011/02/11>

P14 - ADD R1522
Update power circuit

<2011/02/18>

P09 - ADD R1528
P12 - ADD Q64~Q66, R1523~R1527
DEL R1495, R1498
P16 - ADD C1484
Update power circuit

<2011/03/03>

P09 - change R1417 to 33K-ohm(Board ID)
P12 - Q64~Q66 change to SB00000BS00
R1496 change to 25.5K-ohm
R1500 change to 46.4K-ohm
P16 - mount: U149, C1452~C1457, R1396, R1398, R1404 for 3G SKU
P18 - nu-mount: R1363, R1382, R1357, R1362
mount: R1372, R1354, R1367
change R1496 to 422-ohm
change R1373, R1358 to 47K-ohm
P23 - change JP73.1 NET to +3VALW
nu-mount: Q61, R1479, R1480

<2011/03/08>

P03 - modify I2C address table
P05 - R1444 change to 3G@
P09 - modify board ID table
P12 - Change R245, R246 to 9.1-ohm for 3G@
P14 - nu-mount U132
P15 - nu-mount: R1513
mount: R1514
P16 - Change R1470, R1472 to 600-ohm at 100MHz for 3G@
P19 - nu-mount: C1433, C1450

DVT2-3G

<2011/03/15>

P04 - ADD C1485~C1488 for RF issue
P09 - change R1417 to 56K-ohm
ADD 3G Wake-up net
P11 - DEL U153, C101~C108
ADD L99, L100, R1529~R1536, C1489, C1490
P15 - DEL C111, C112, C114, C109, C110, C120
ADD L101~L103, R1537~R1546
P17 - ADD R1547~R1549
P20 - ADD U153, R1550 for GPS power consumption

<2011/03/16>

P11 - DEL R1455, R1456
DEL NET: EC_LCD_AVDD_EN, LCD_RST#
P15 - DEL L101~L103

<2011/03/17>

P08 - Change R456~R459 to 7.5K-ohm
P16 - ADD R1551, X5

<2011/03/18>

P11- Change L99~L102 to SM070002I00

<2011/03/21>

P30- modify PD7 footprint
change PR132 from 20K_0402 to 47K_0402

<2011/03/22>

P04 - ADD C1491, C1492
P20 - ADD C1493, C1494
Update power circuit

<2011/03/25>

P04 - Change C1491, C1492, C1485, C1486 to 39pF
P11 - Change R1450 to 10K-ohm
Change R1451 to 33K-ohm
Change C1467, C1468 to 2.2uF
Change C1489, C1490 to 39pF
P17 - Change C1408, C1409 to 10pF

PVT-3G

<2011/04/07>

P09 - Change R1417 to 100K
P11 - R1450 Change to SD034100280(10K_1%)
R1451 Change to SD034330280(33K_1%)
P12 - Change C1474 to 0.1uF
P13 -nu-mount: R1504
nu-mount: R1245
Update power circuit

<2011/04/11>

P07 - H2 Change to 2.1mm
P12 - ADD R1552, R1553
Update power circuit

<2011/04/12>

P05 - Change R1444 BOM Structure to WIFI@

<2011/04/21>

P12 - R1298, R1552 nu-mount
C1478, C1475 Change to SE074332K80(3300P)
P16 - R1551 Change BOM struture to 3G@
Update power schematic for LCD sequence

<2011/04/28>

P05 - Change R1444 to SD028100280

MP-3G

<2011/07/22>

P16 - ADD R1555, 1556, L103
DEL NET: DAP_MCLK2
P17 - DEL NET:USB3_SIM_P/USB3_SIM_N

<2011/07/27>

P06 - ADD C1496, C1497

<2011/08/01>

P13 - Y2.2, Y2.4 connect to GND
P17 - DEL NET: AP_SMB_SCL, AP_SMB_SDA

<2011/08/02>

P11 - DEL R1481
P17 - ADD C1499, DEL NET: 3G_WAKE_770

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					Size	Document Number	LA-7252P	
					Custom		1.0	
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