

**Compal Confidential**

**Model Name :**  
**File Name : LA-8671P**

# Compal Confidential

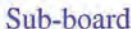
## TN-Note Schematic Document

2012-07-27

REV:1.0\_0727A

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**Model Name : TN-Note**  
**File Name : Block Diagram**



1. PWR Board (LS-8671P)
2. HDD Board (LS-8672P)
3. P-Sensor1 Board (LS-8673P)
4. P-Sensor2 Board (LS-8674P)



## Voltage Rails

Power plane / State	+B	+5VALW / +3VALW	+1.5V	+3VM / +1.05VM	+5VS +3VS +1.8VS +1.5VS +1.05VS +VCC_GFXCORE_ANG +CPU_CORE +VCCSA +0.75VS
S0	O	O	O	O	O
S3	O	O	O	O	X
M3	O	O	O	O	X
S4/S5 - AC	O	O	X	X	X
S4/S5 - BATT ONLY	O	X	X	X	X
S4/S5 - NO AC & BATT	X	X	X	X	X

STATE \ SIGNAL	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS
Full ON	H	H	H	ON	ON	ON
S3 (Suspend to RAM)	L	H	H	ON	ON	OFF
S4 (Suspend to Disk)	L	L	H	ON	OFF	OFF
S5 (Soft OFF)	L	L	L	ON	OFF	OFF

## BOARD ID Table

Board ID	PCB Revision
0	0.1
1	0.2
2	0.3
3	0.4
4	0.5
5	
6	
7	

## EC SM Bus1 address

Device	Address	HEX
Smart Battery	0001-011xb	16H
Charger	0001-0010b	12H

## EC SM Bus2 address

Device	Address	HEX
Thermal sensor	1001-101xb	9AH
PCH (SML1DATA / GPIO75)	1001-0110 b	96H

## SM Bus Controller

Device	Address	HEX
Security Rom	1010-100xb	A8 H
DDR DIMM0	1010-000xb	A0 H

## BOM Structure

	SDV	FVT	SIT	SVT	SOVP
@ : No Stuff					
ME@ : ME components					
CPUx@ : CPU SKU	V	V	V	V	
DDRx@ : RAM SKU	V	V	V	V	
SBA@ : SBA	V	V	V	V	
NOSBA@ : NO SBA					
ID4@ : Intel Deep S4	V				
AOAC@ : AOAC	V	V	V	V	
TPM@ : TPM		V	V	V	
Short@ : 0ohm short pad					

## SM Bus Controller 0

Device	Address	HEX
No-use	No-use	No-use

## Sensor HUB

Device	Address	HEX
ALS	0100-100xb	48h
APS	0011-001xb	32h
Gyroscope	0110-101xb	6Ah
e-Compass	0011-110xb	3Ch

USB3.0	USB2.0	NOTE
1	0	
2	1 *	USB3.0/2.0 Conn
3	2	USB3.0/2.0 Conn
4	3	
	4	Sensor Hub
	5	USB Camera
	6	X
	7	X
	8	Touch Panel
	9 *	WWAN
	10	WLAN
	11	Finger Printer**
	12	
	13	Bluetooth**

\* Debug Port

\*\* Not Use

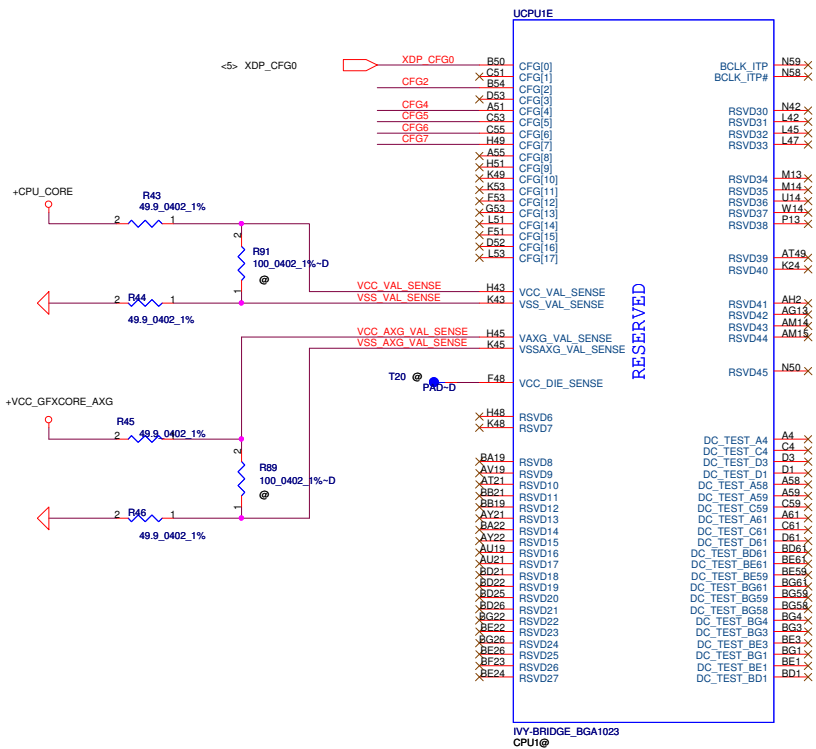
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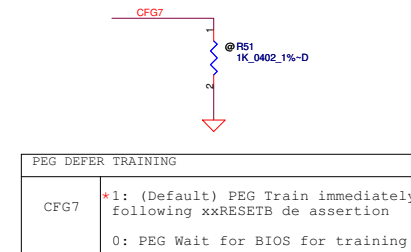
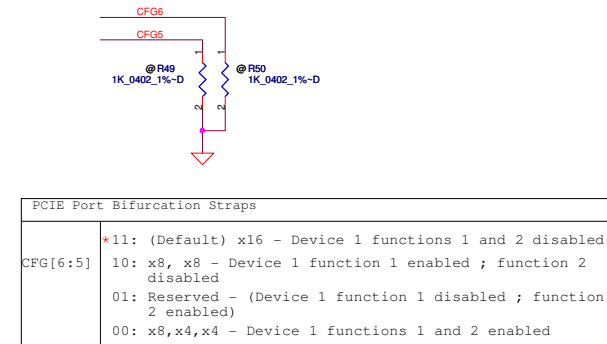
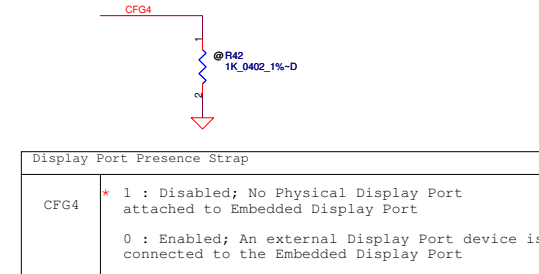
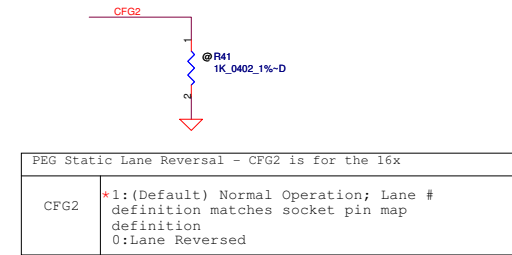








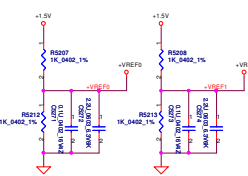
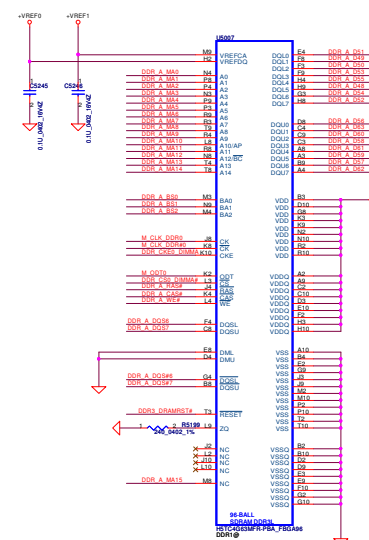
## CFG Straps for Processor





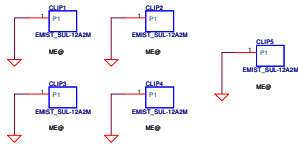
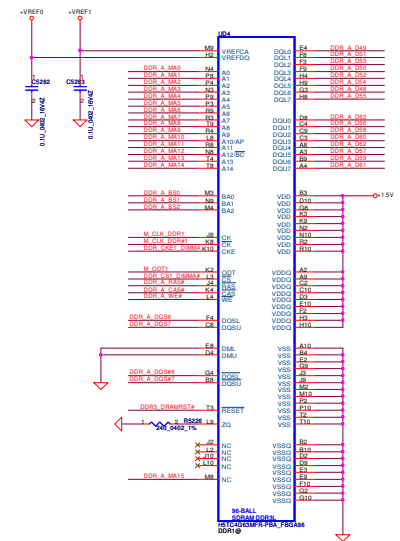
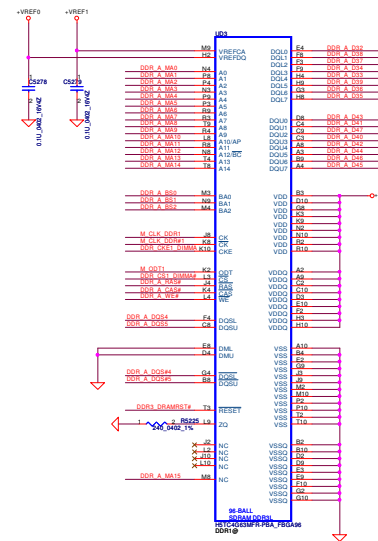
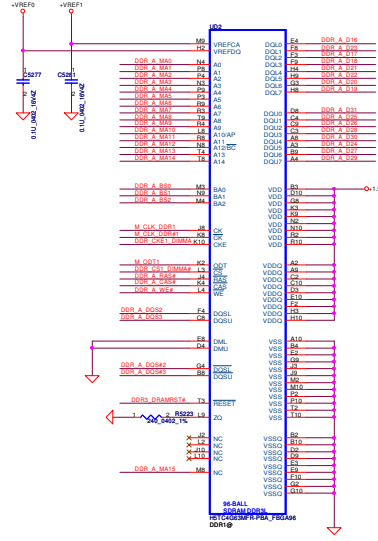
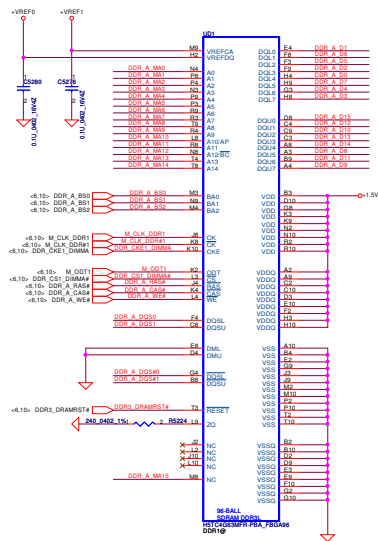






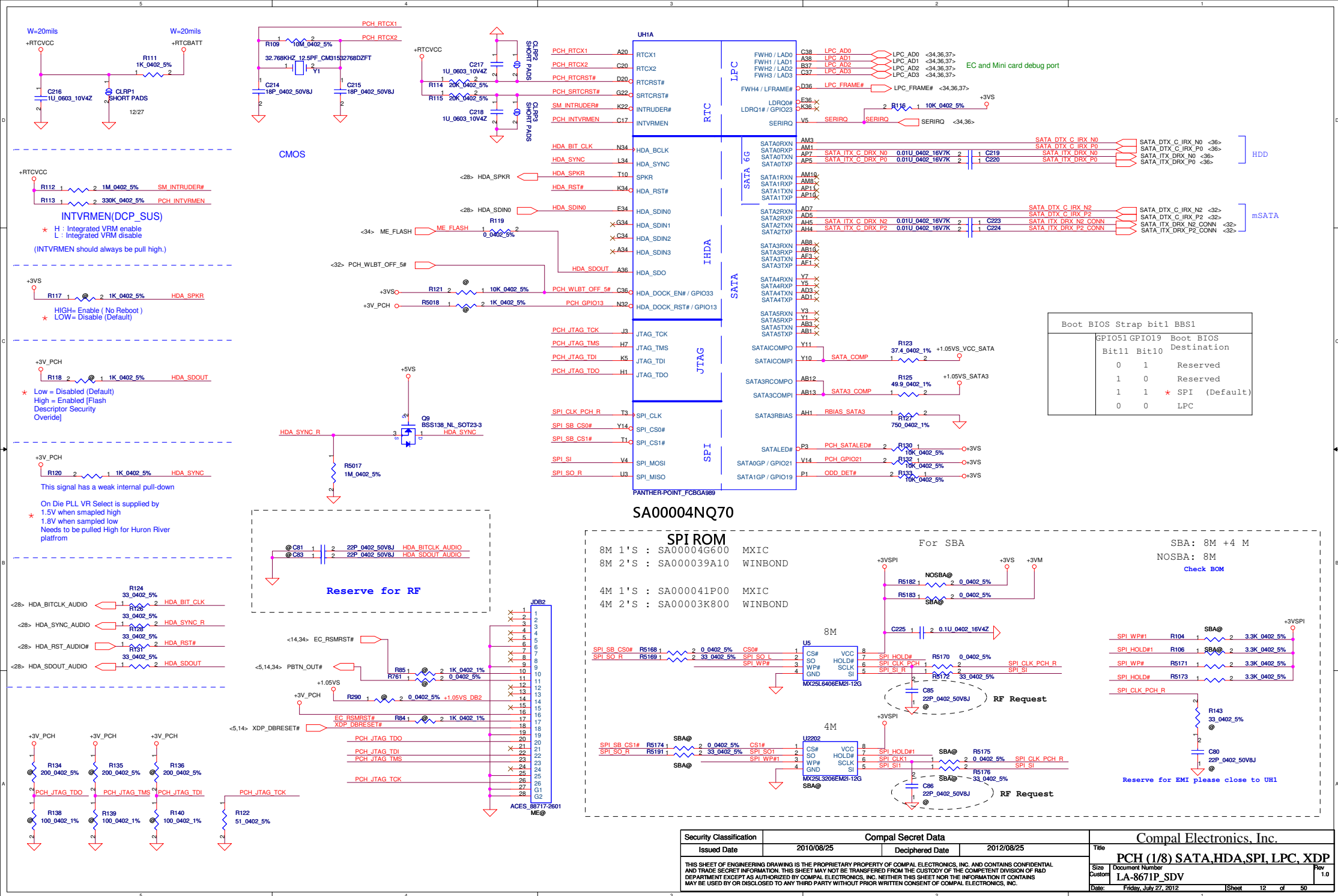
[www.vinafix.vn](http://www.vinafix.vn)

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 <10: DDR\_A\_D0(6) ○ DDR\_A\_D0(6)  
 <10: DDR\_A\_D0(6) ○ DDR\_A\_D0(6)  
 <10: DDR\_A\_D0(6) ○ DDR\_A\_D0(6)



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Date		1/1		1/1	



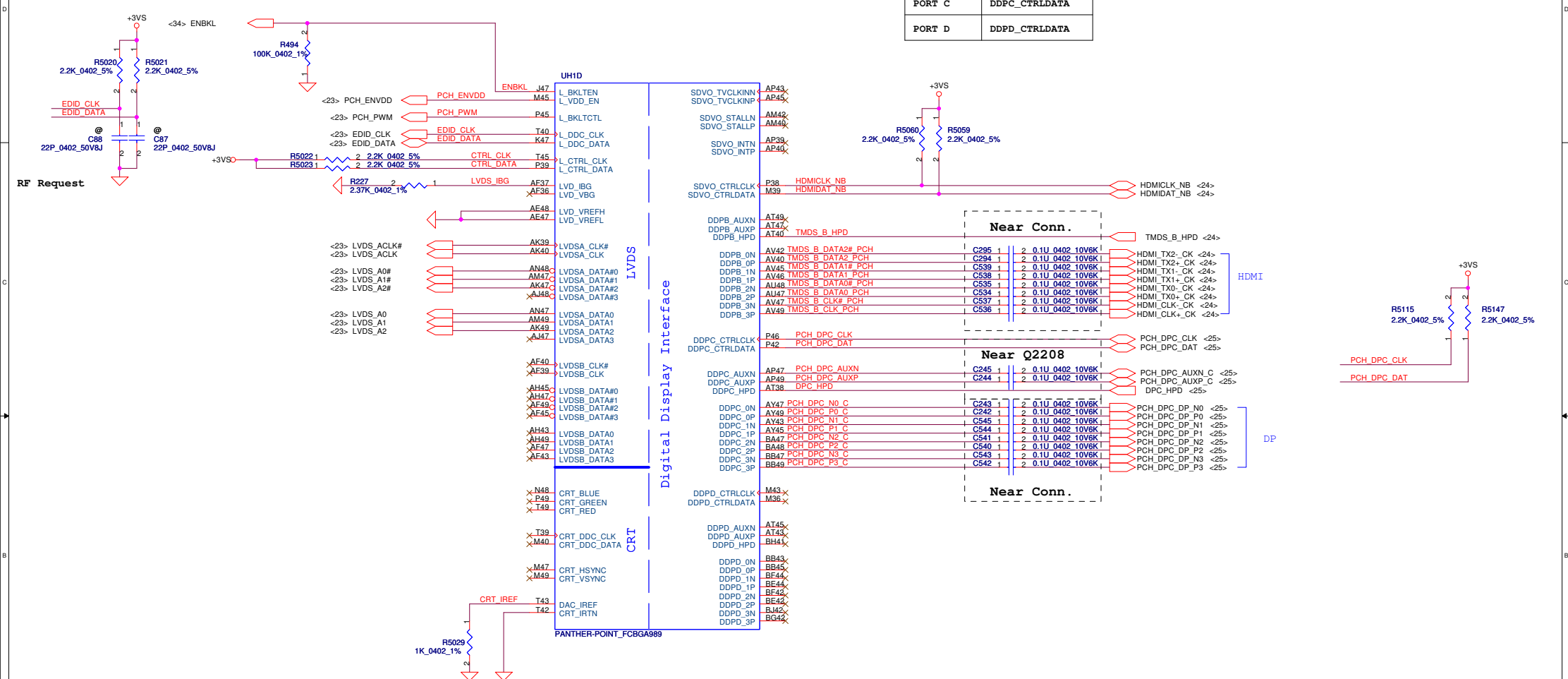






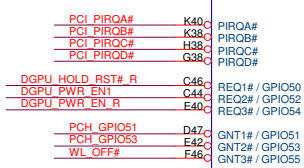
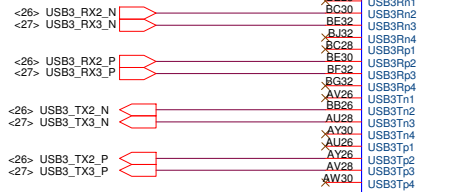
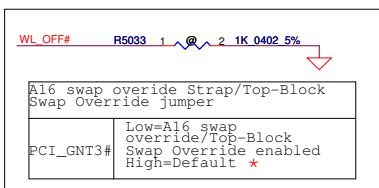
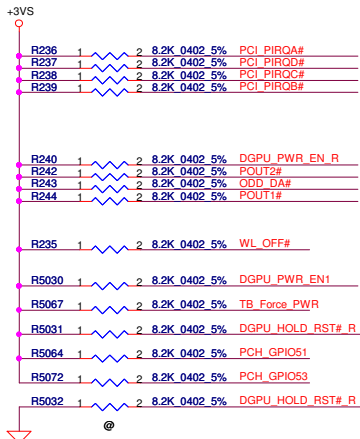


PORT	STRAP
LVDS	L_DDC_DATA
PORT B	SDVO_CTRLDATA
PORT C	DDPC_CTRLDATA
PORT D	DDPD_CTRLDATA

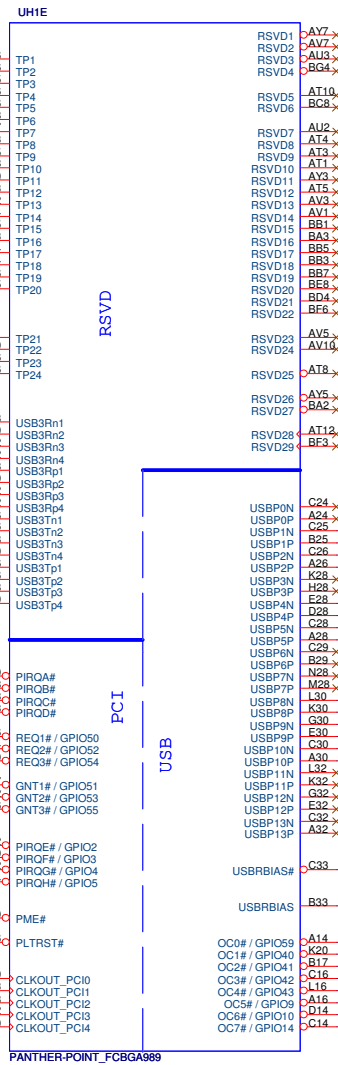
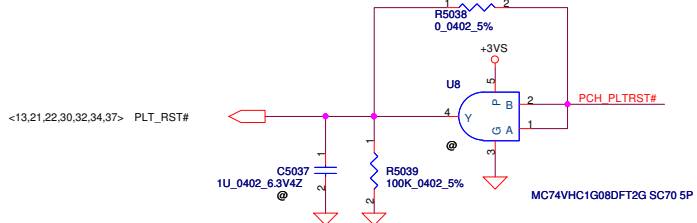
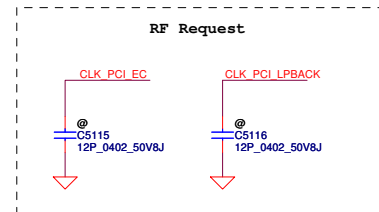
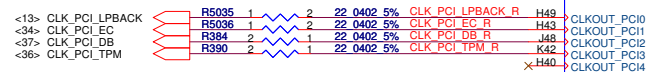
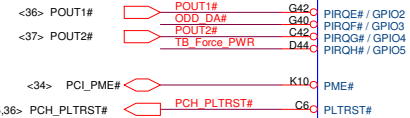


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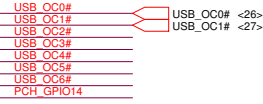
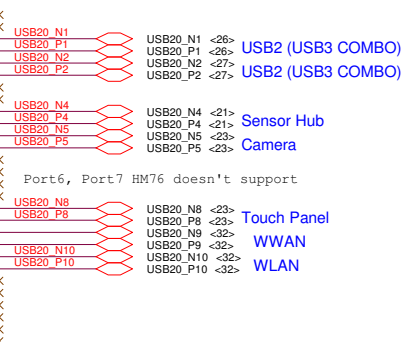
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Default: Active Low

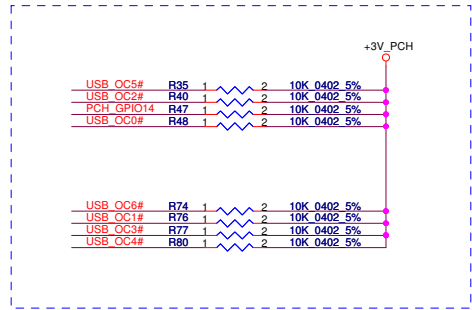


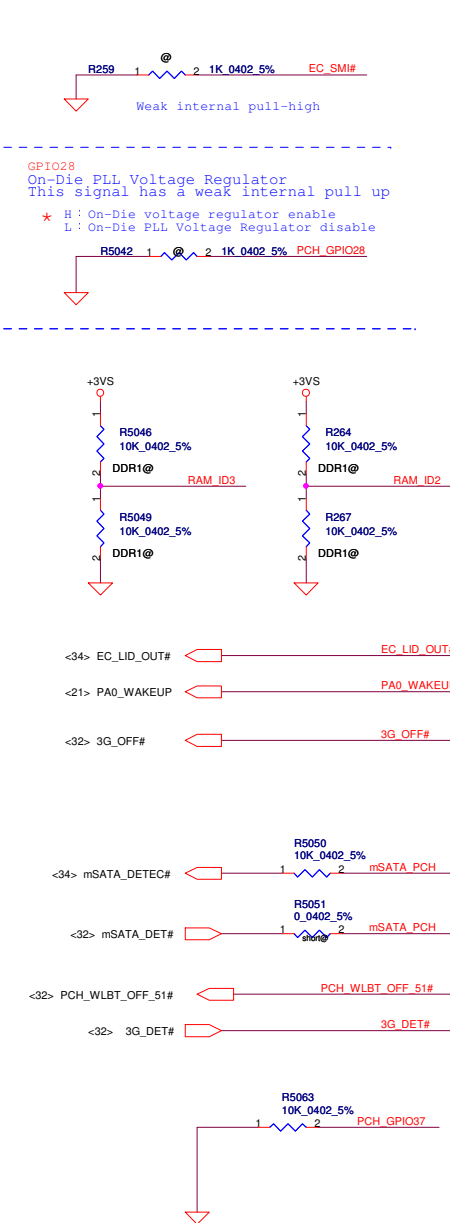
USB DEBUG=PORT1 AND PORT9



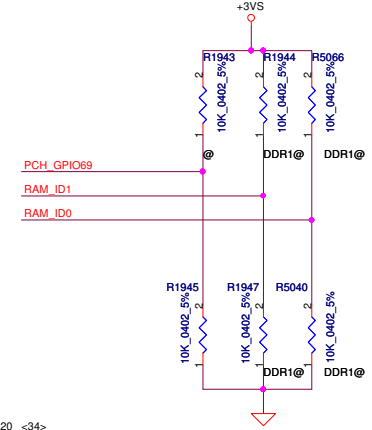
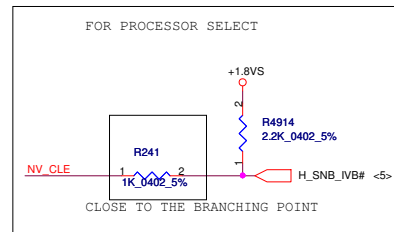
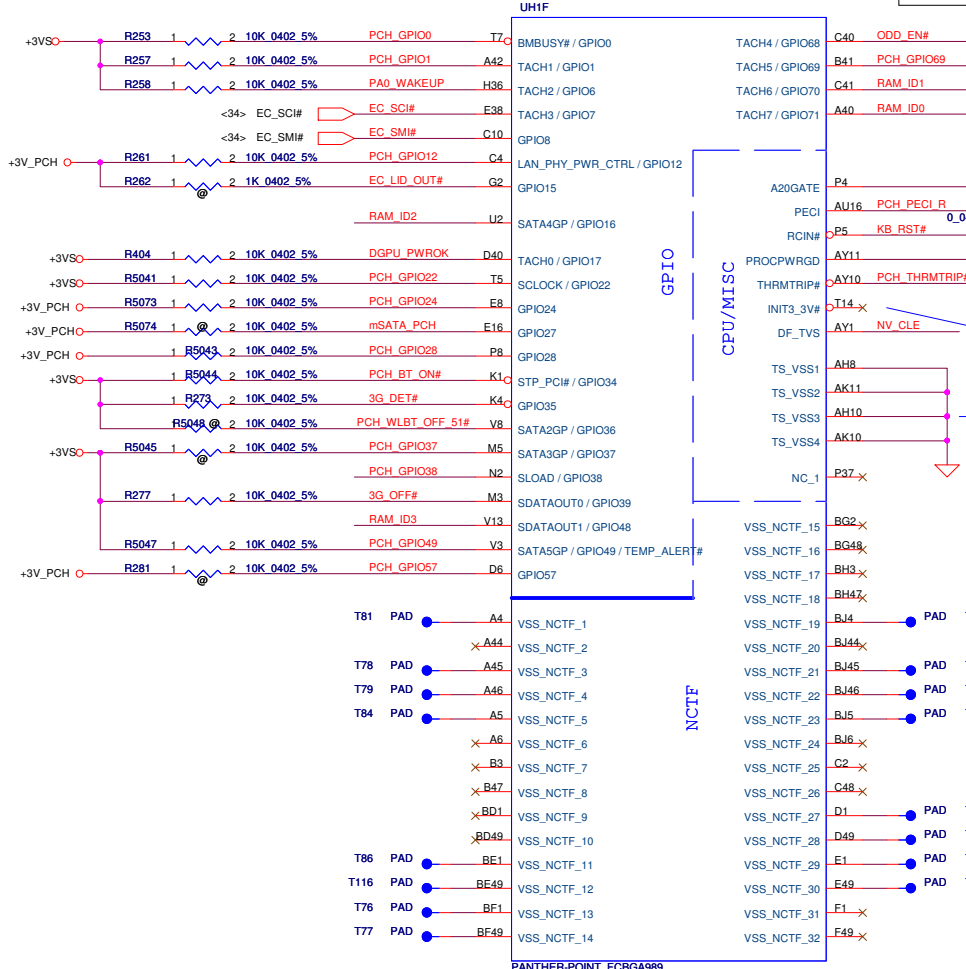
USB3.0	USB2.0	NOTE
1	0	
2	1 *	USB3.0/2.0 Conn
3	2	USB3.0/2.0 Conn
4	3	
	4	Sensor Hub
	5	USB Camera
	6	X
	7	X
	8	Touch Panel
	9 *	WWAN
	10	WLAN
	11	Finger Printer**
	12	
	13	Bluetooth**

\* Debug Port  
\*\* Not Use

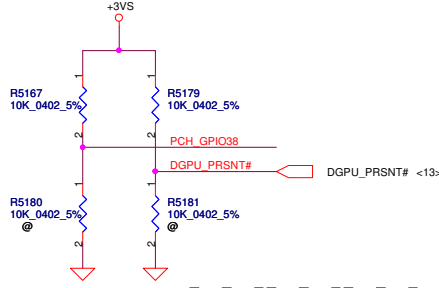




PCH_GPIO69	PCH_GPIO38	PCH_GPIO67	Function	GPU_ID
0	0	0	PX4.0	0
0	0	1	Reserved	1
0	1	0	DIS	2
0	1	1	UMA	3



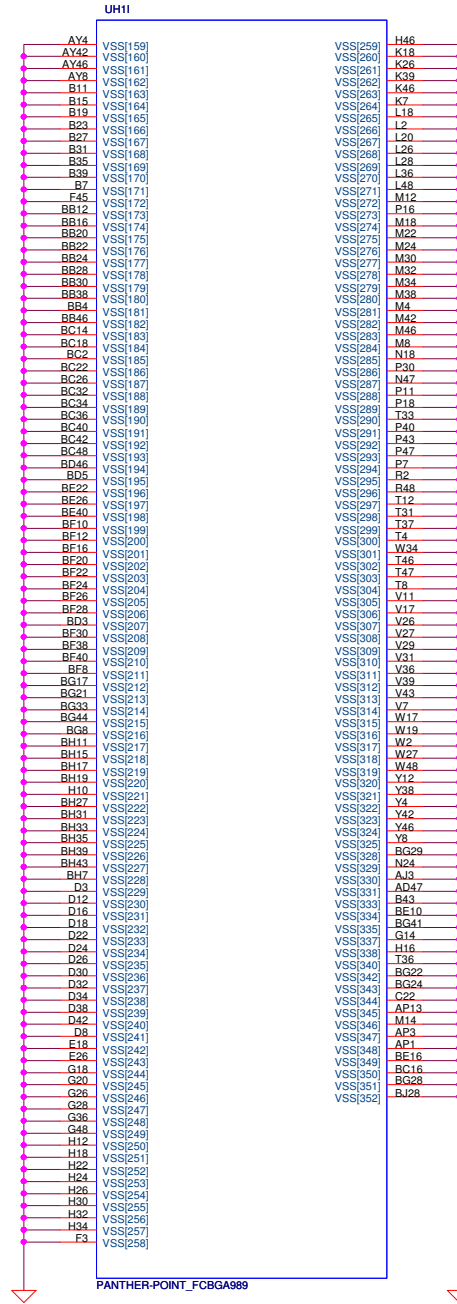
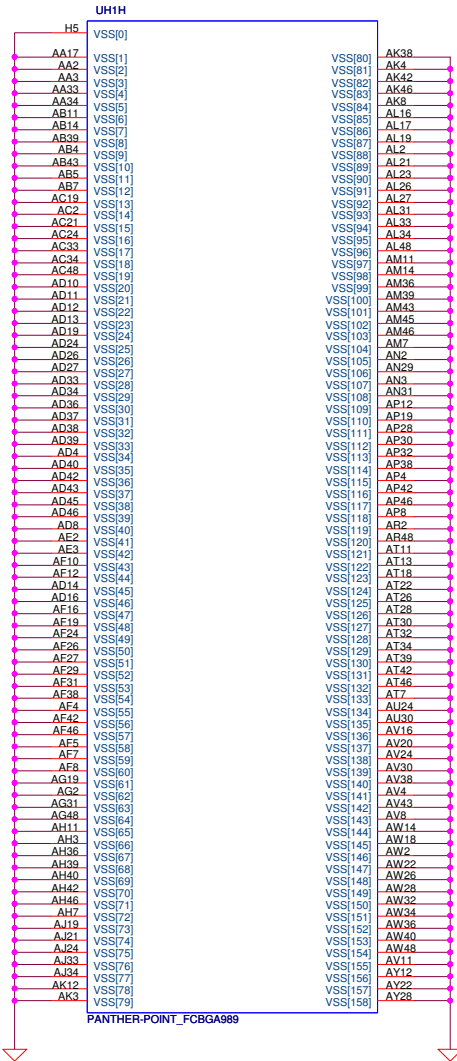
RAM_ID3	RAM_ID2	RAM_ID1	RAM_ID0	RAM
GPIO48	GPIO16	GPIO70	GPIO71	
0	0	0	0	ELPIDA 4GB
0	0	0	1	SAMSUNG 4GB
0	0	1	0	HYNIX 4GB
0	0	1	1	ELPIDA 8GB
0	1	0	0	SAMSUNG 8GB
0	1	0	1	HYNIX 8GB
0	1	1	0	ELPIDA 2GB
0	1	1	1	SAMSUNG 2GB
1	0	0	0	HYNIX 2GB
1	0	0	1	TBD
1	0	1	0	TBD
1	0	1	1	TBD
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1	1	0	1	TBD
1	1	1	0	TBD
1	1	1	1	TBD







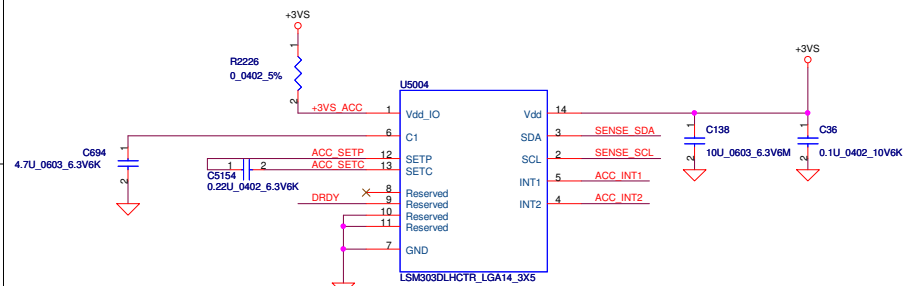




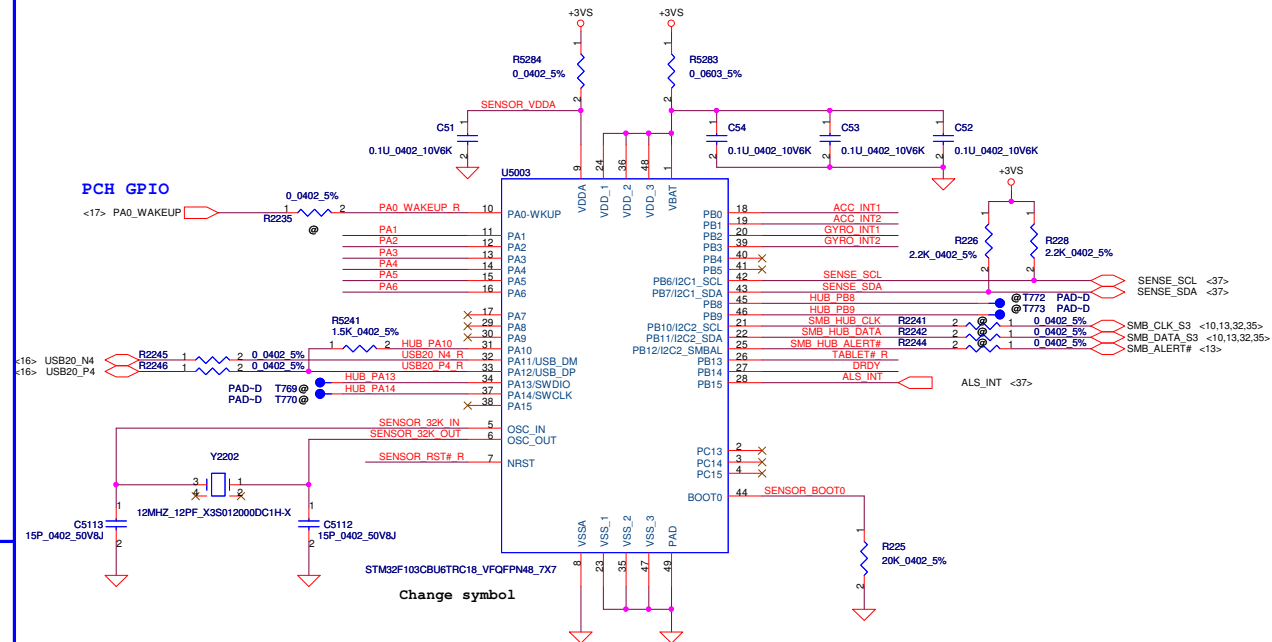
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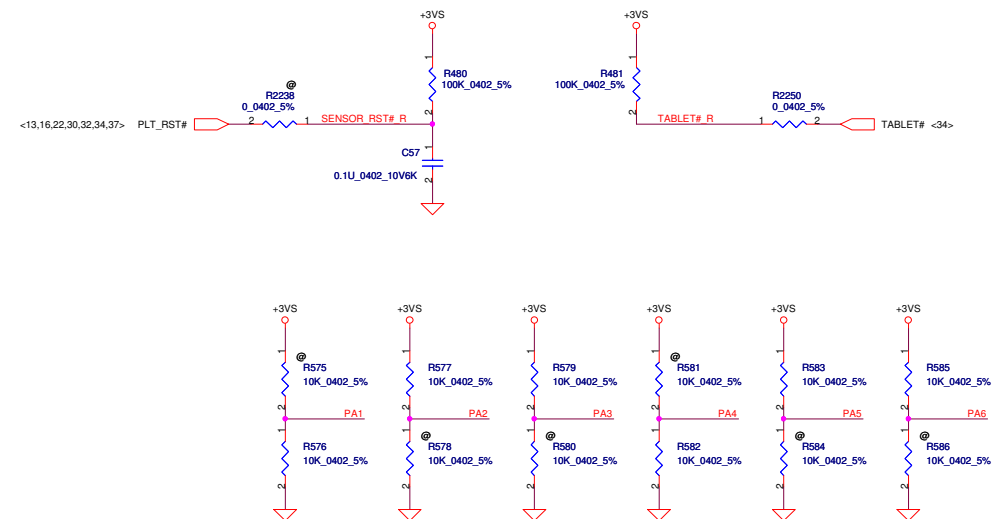
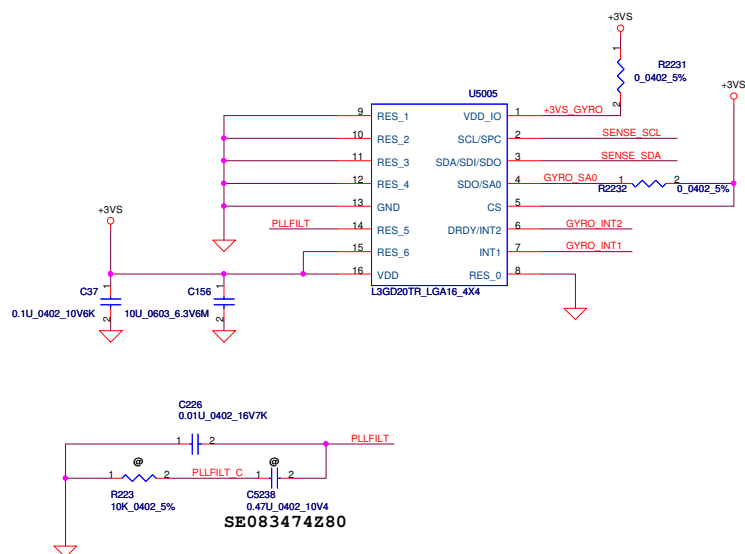
## Accelerometer + eCompass



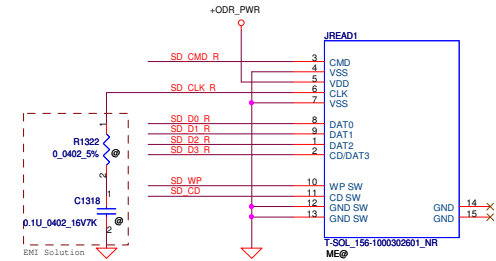
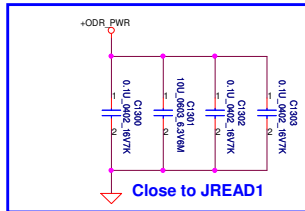
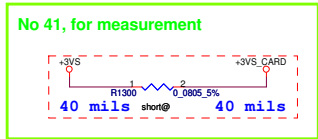
## Sensor Hub



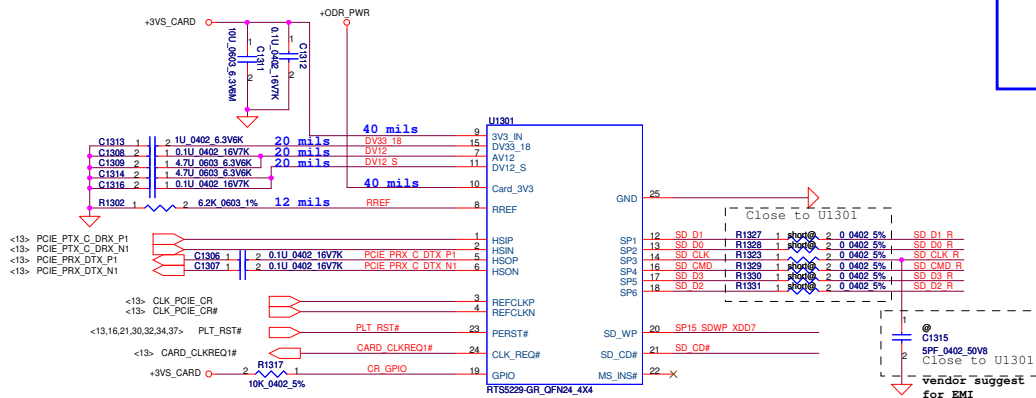
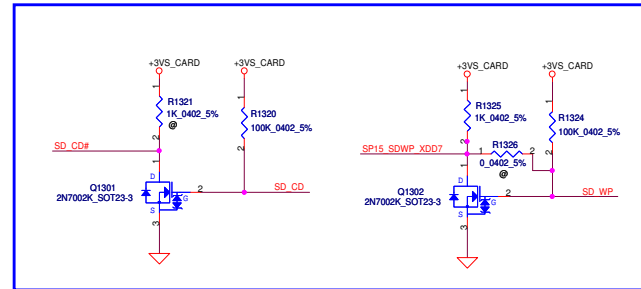
Gyro

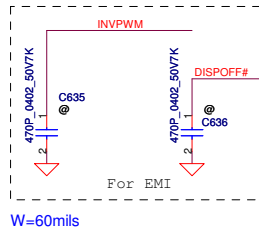


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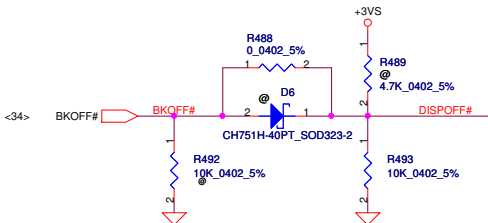
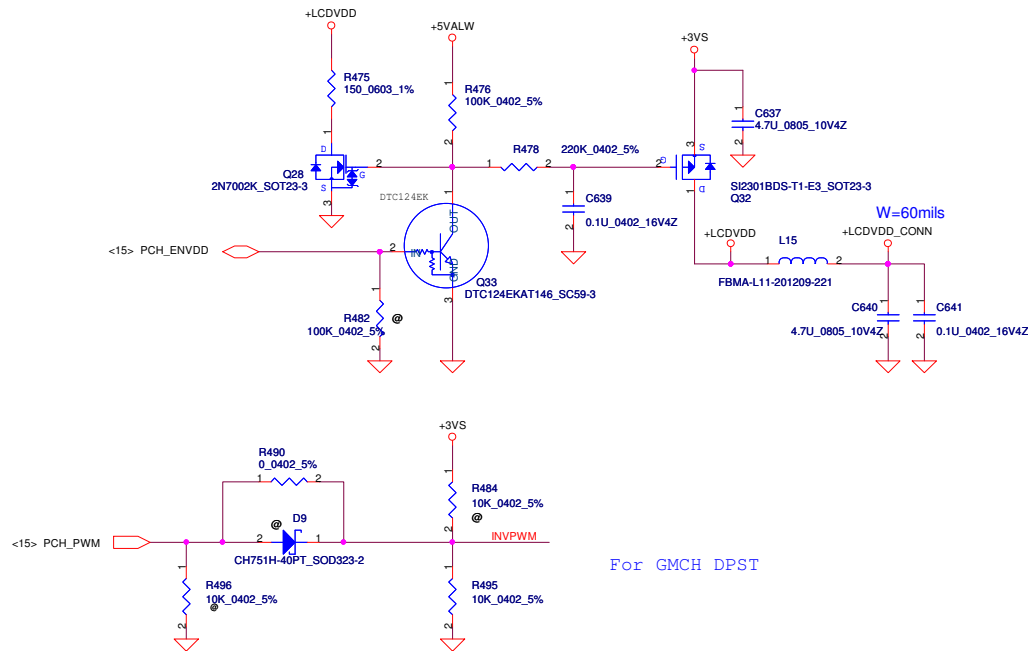


	SD_CD	SD_WP
CARD UNINSERTION	Close (Low)	Close (Low)
CARD HALF INSERTION	Close (Low)	Open (High)
CARD INSERTION	Open (High)	Close (Low)

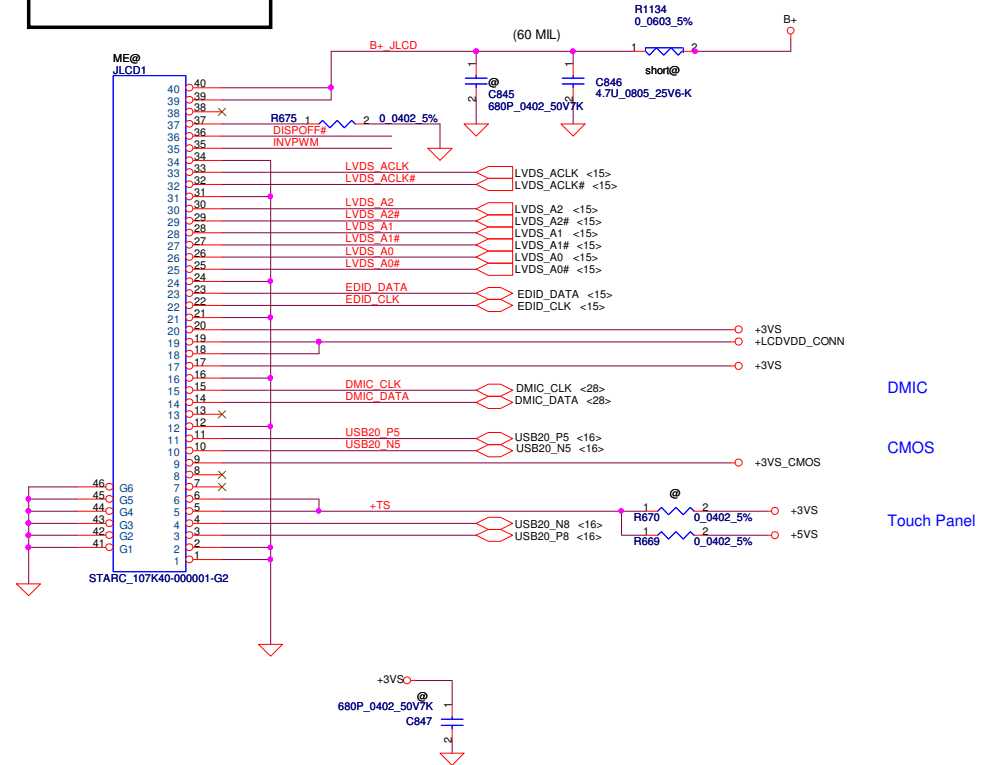




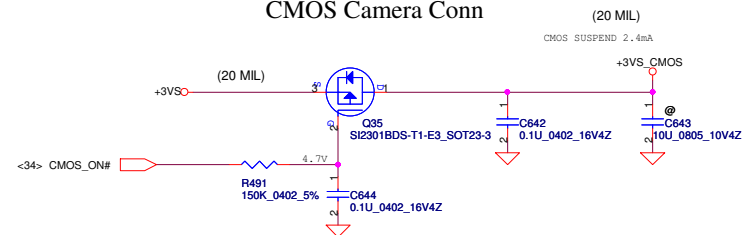
## LCD POWER CIRCUIT



PN:SP01000XE00

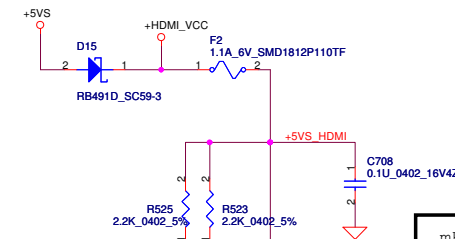
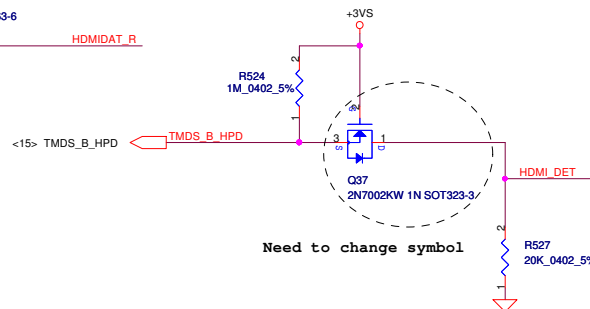
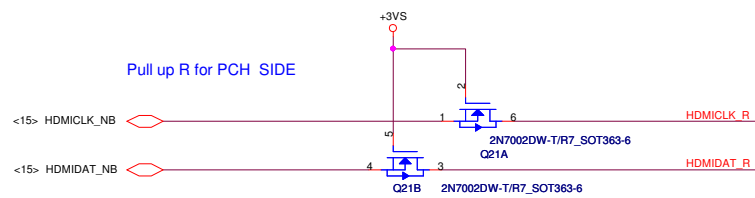
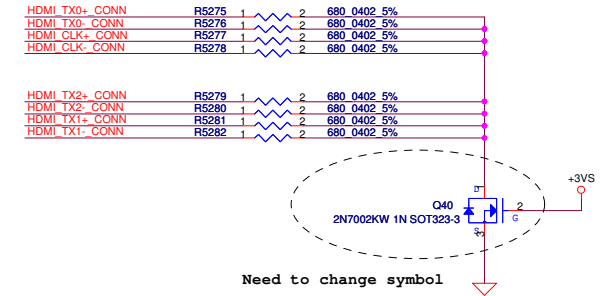
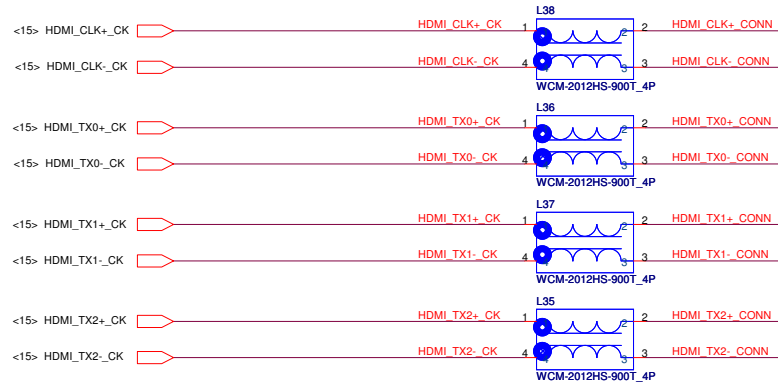


## CMOS Camera Conn

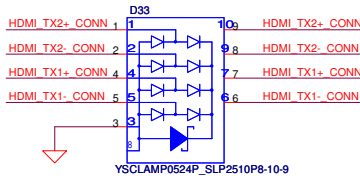
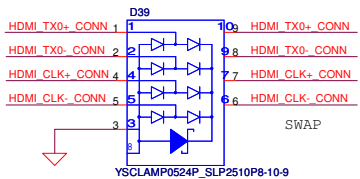
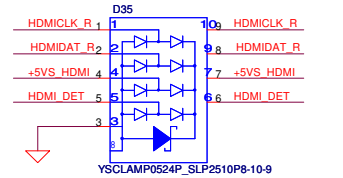


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# PN:SM070001S00x 4



Type-C  
mHDMI PN:SP060005H00

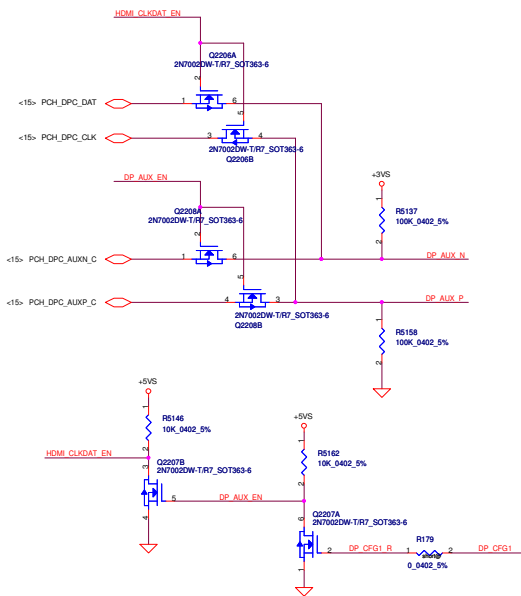
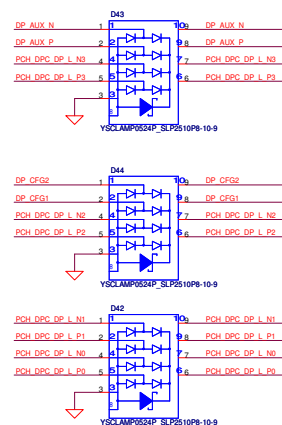
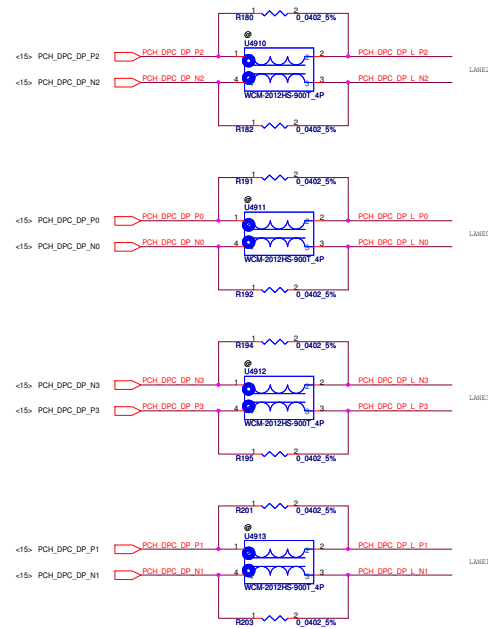


1'SPN: SC300001Y00  
2'SPN: SC300002800

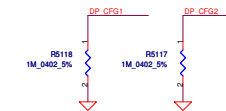
Security Classification			Compal Secret Data			Compal Electronics, Inc.		
Issued Date			Deciphered Date			Title		
2010/08/25			2012/08/25			Mini-HDMI		
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Date: Friday, July 27, 2012			Sheet 24 of 50			Rev 1.0		



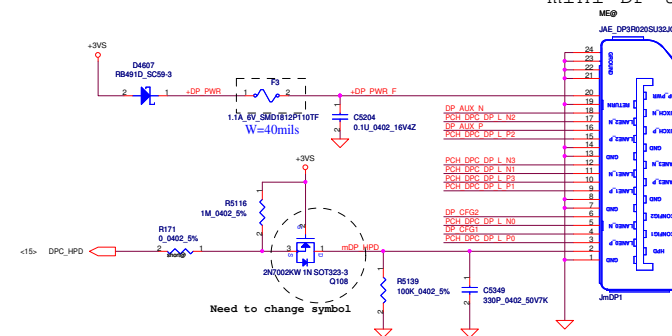
Close to JmDP1



HPD	CFG1	CFG2	LSRX	Mode
1	0	0	X	DP
1	1	X	X	HDMI
0	0	1	1	TBT

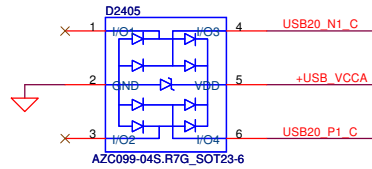
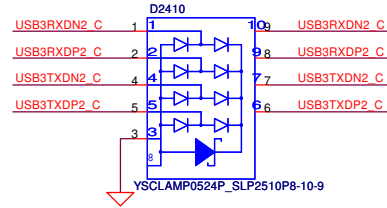


mini DP type



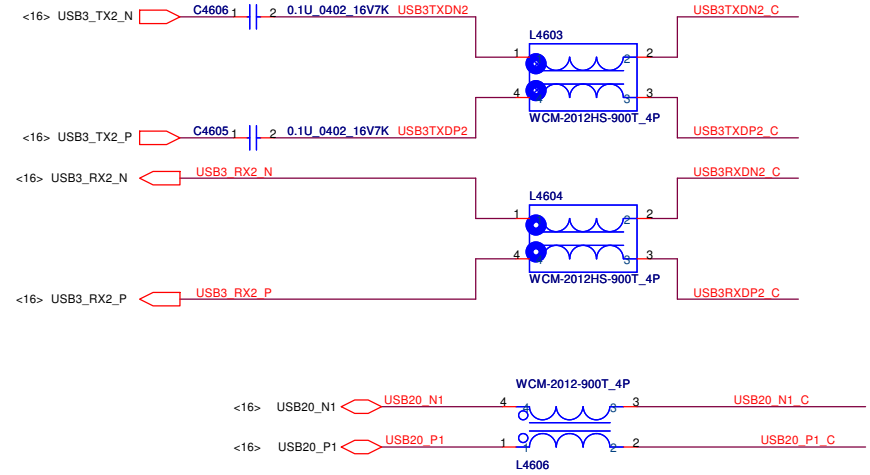
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/08/25	Deciphered Date	2010/08/25	Title	
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Size	Document Number			Rev	
Compal	LA-8671P_SDV			1.0	
Date	Friday, July 27, 2012	Sheet	25	of 50	

1'SPN: SC300001Y00  
2'SPN: SC300002800

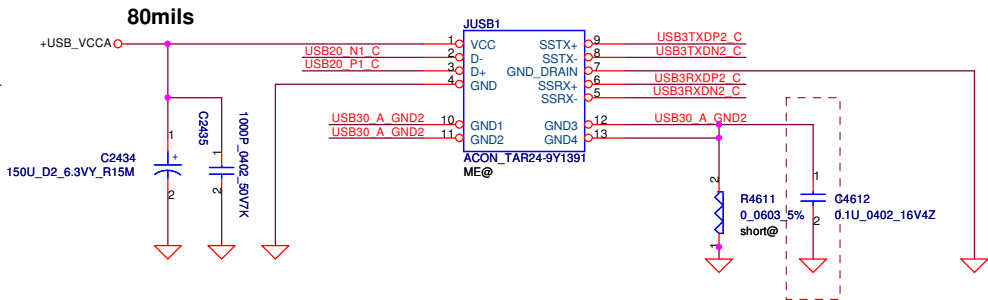
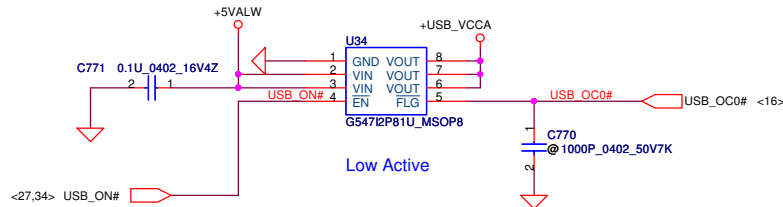


1'S PN: SC300001G00  
2'S PN: SC300002E00

## JUSB1USB3.0/USB2.0



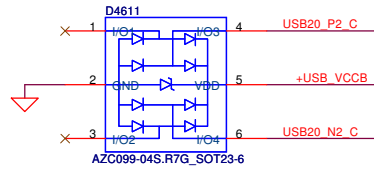
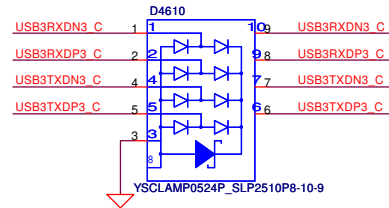
## DC23300A410



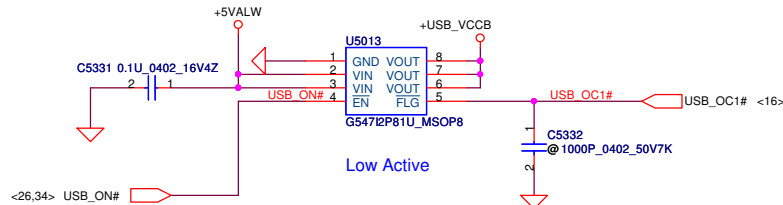
Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2011/05/16	Deciphered Date	2013/05/16	Title	USB3.0/2.0 CONN-L	
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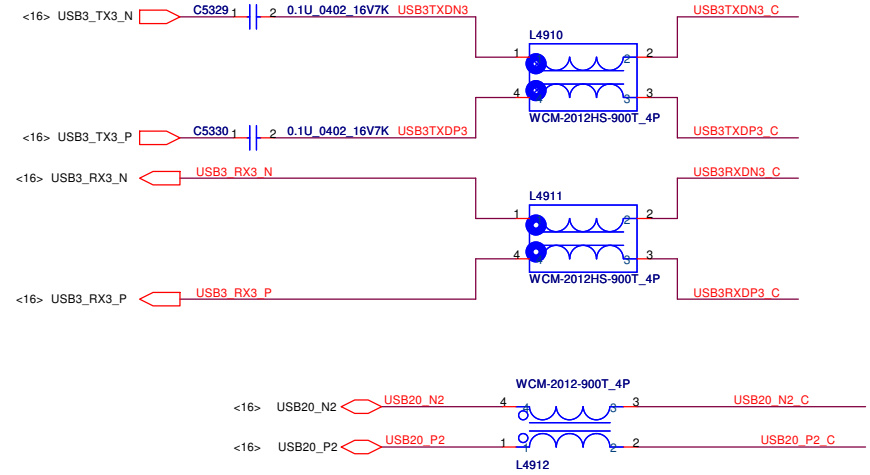
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2'SPN: SC300002800



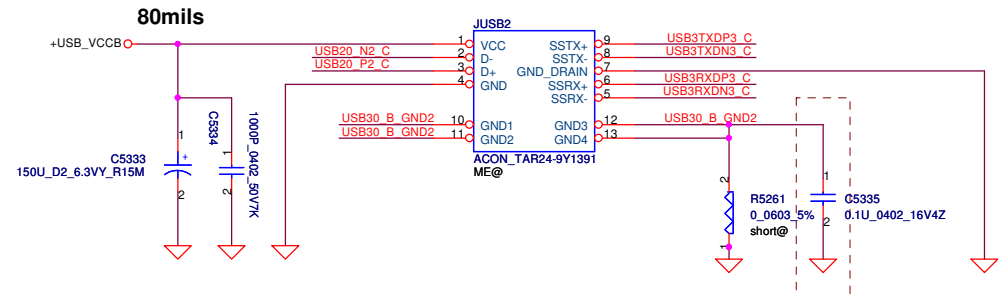
1'S PN: SC300001G00  
2'S PN: SC300002E00



## JUSB1USB3.0/USB2.0



## DC23300A410



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Size	Custom	Document Number	LA-8671P_SDV	Rev	1.0
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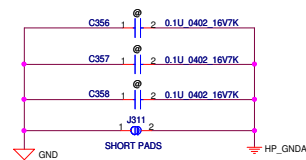
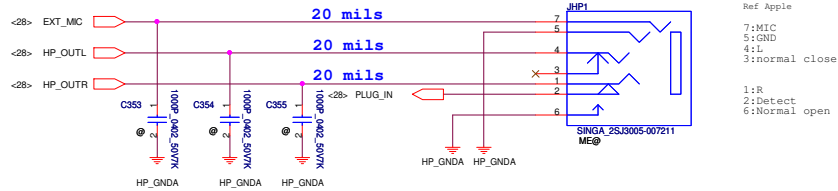
www.vinafx.vn



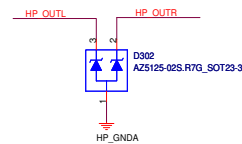


PN:DC230008E00

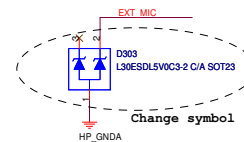
Choose normal-open type!



GND

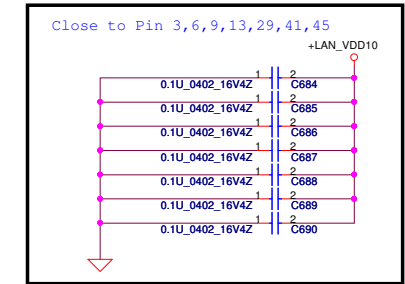
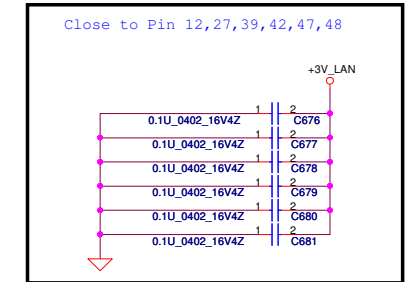
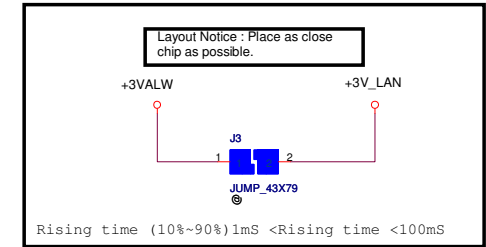
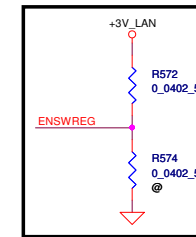
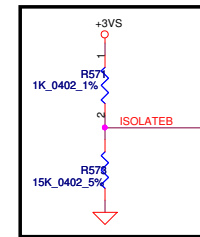
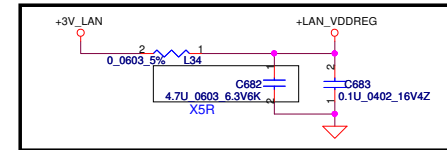
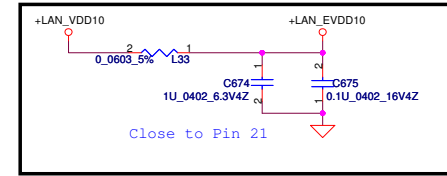
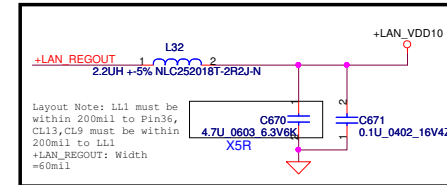
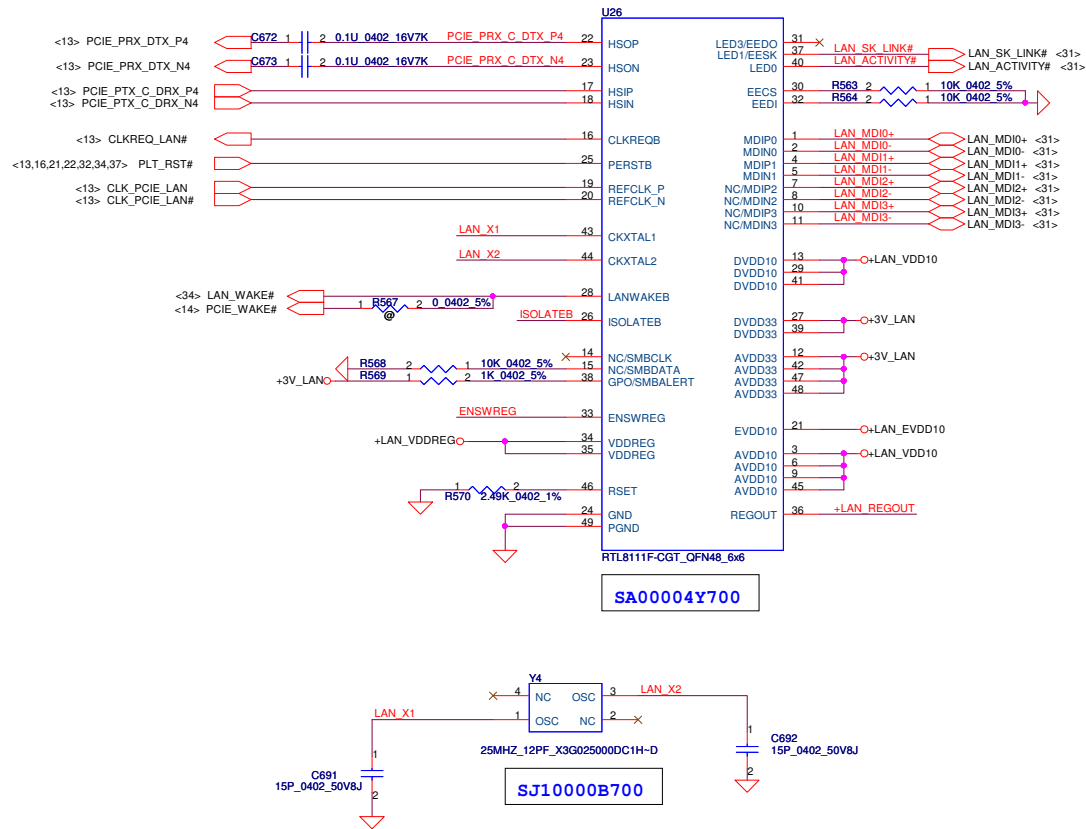


PN: SCA00001I00

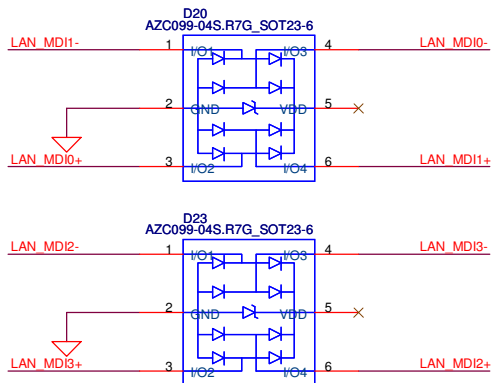


PN: SCA00001L00

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				Date	Friday, July 27, 2012
				Sheet	29 of 50
				Rev	1.0

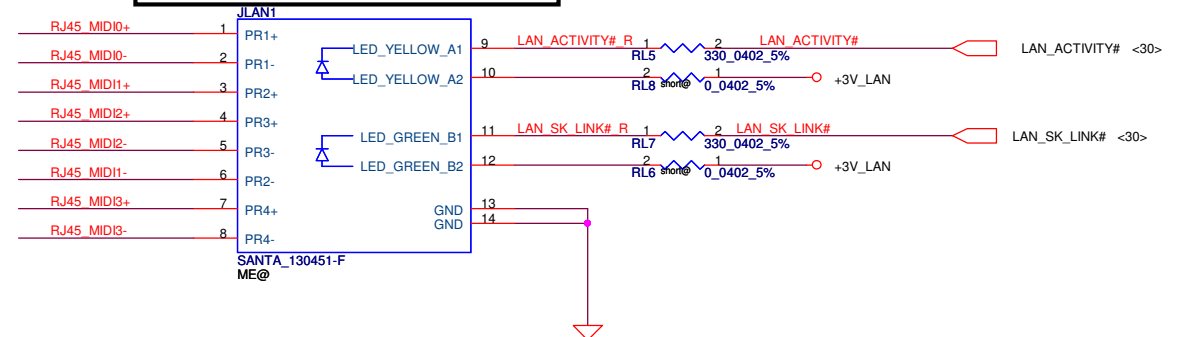


Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date				2010/08/25				Title			
				Deciphered Date				LAN-RTL8111F			
				2012/08/25				Size			
								Document Number			
								LA-8671P_SDV			
								Rev			
								1.0			
								Date			
								Friday, July 27, 2012			
								Sheet			
								30 of 50			



The schematic diagram shows two signal lines, LAN\_ACTIVITY# and LAN\_SK\_LINK#, each connected to a capacitor (CL6 and CL7) and then to ground. The components are labeled as follows:

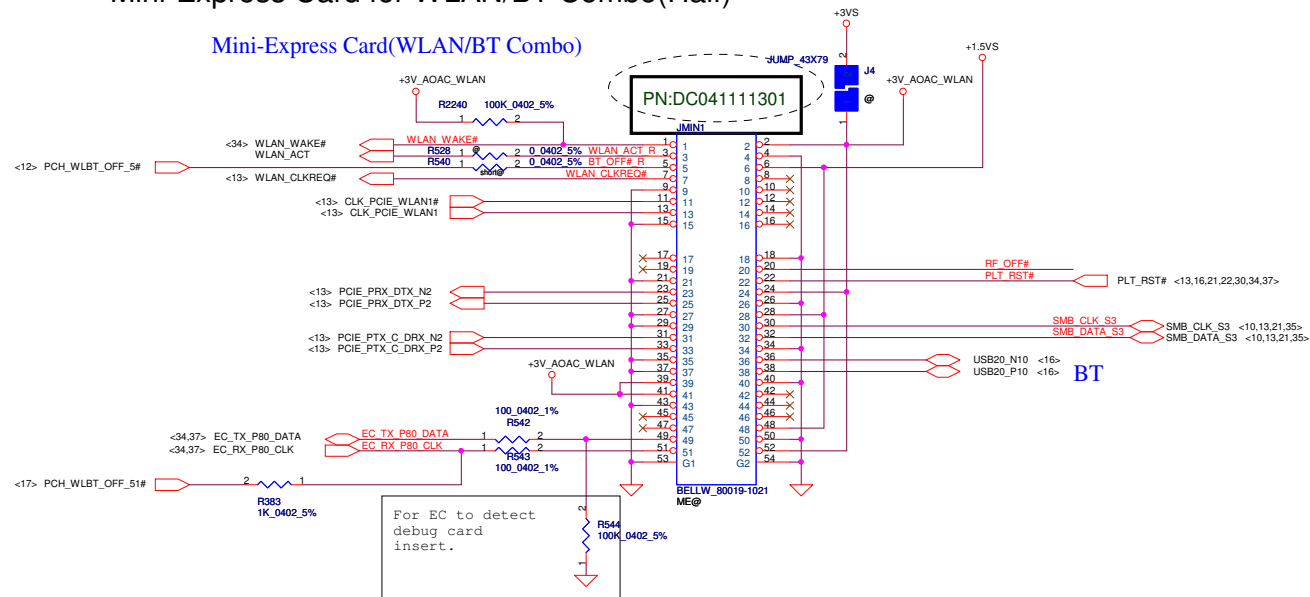
- LAN\_ACTIVITY# R
- CL6 68P\_0402\_50V8J
- LAN\_SK\_LINK# R
- CL7 68P\_0402\_50V8J



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				Date	Friday, July 27, 2012	Sheet 31 of 50

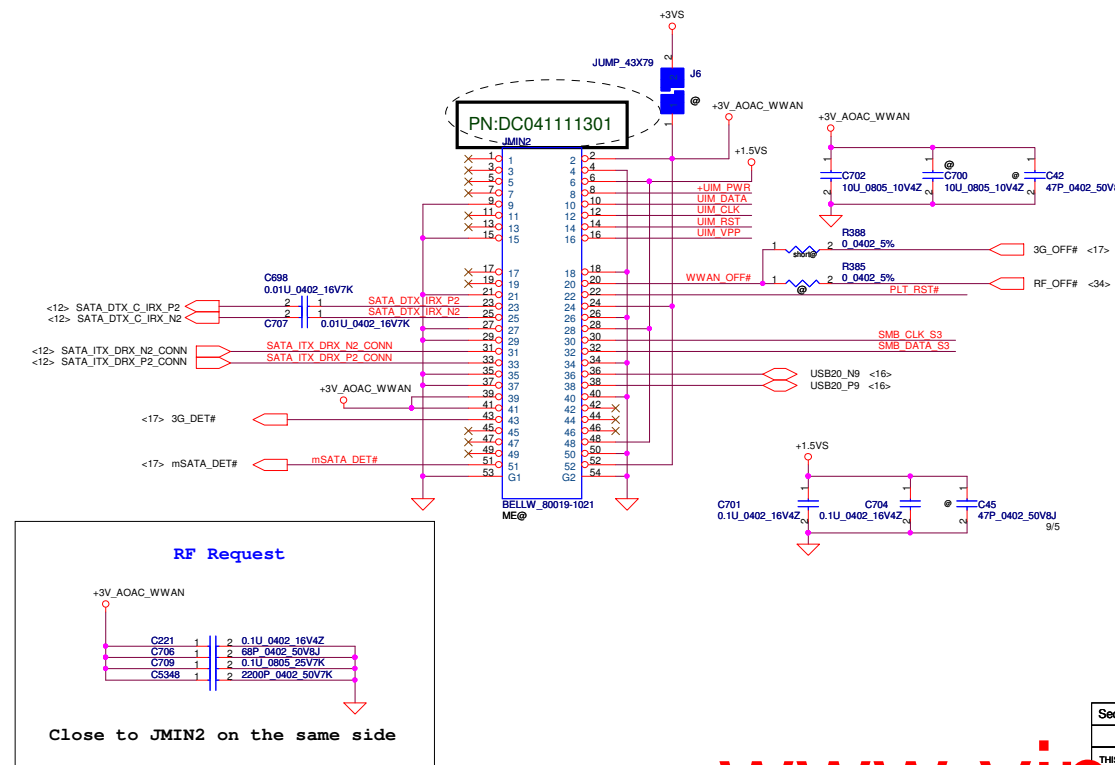
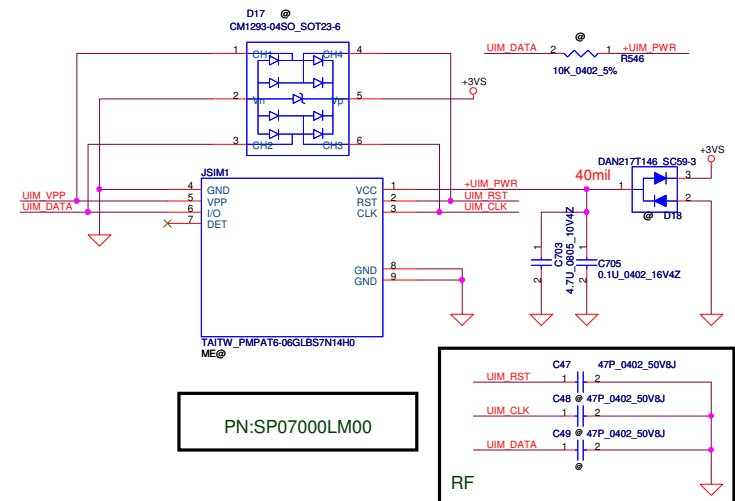
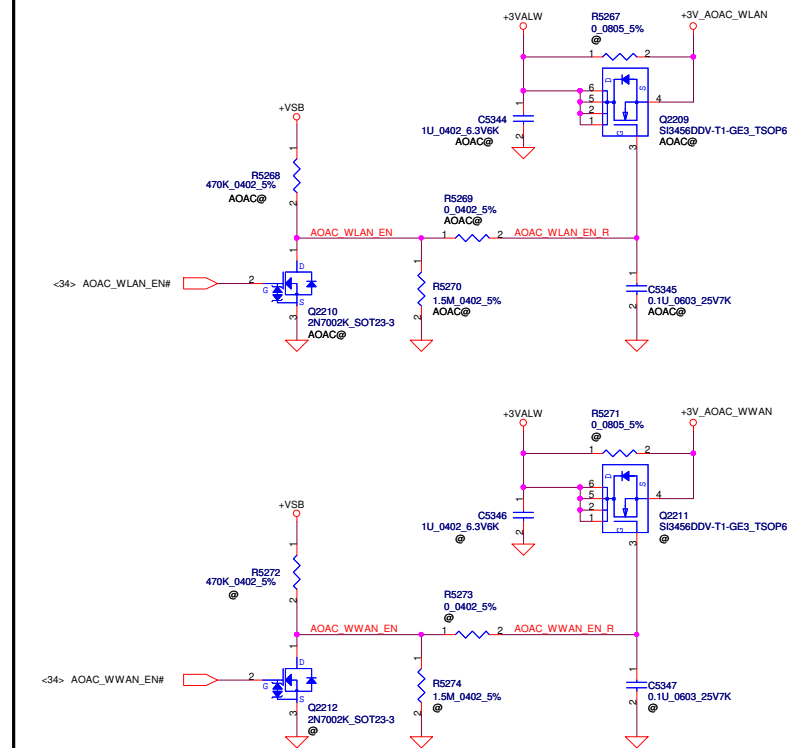
## Mini-Express Card for WLAN/BT Combo(Half)

### Mini-Express Card(WLAN/BT Combo)



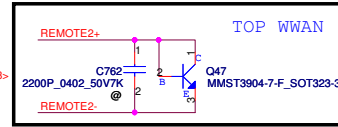
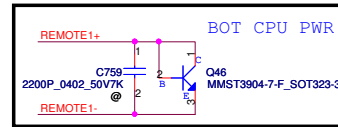
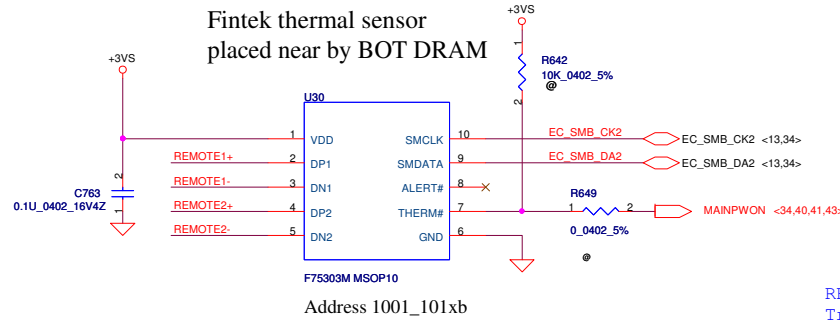
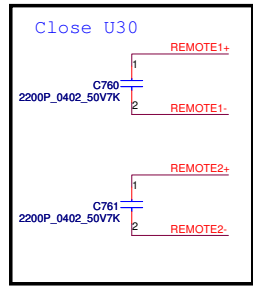
## Mini-Express Card for WWAN/mSATA(Full)

## Mini-Express Card(WWAN 3G)

**AOAC**

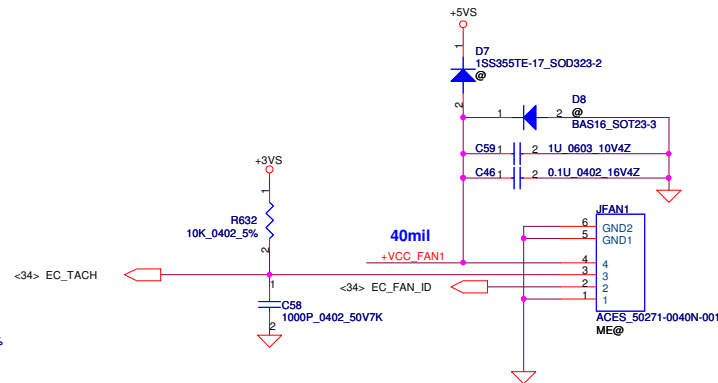
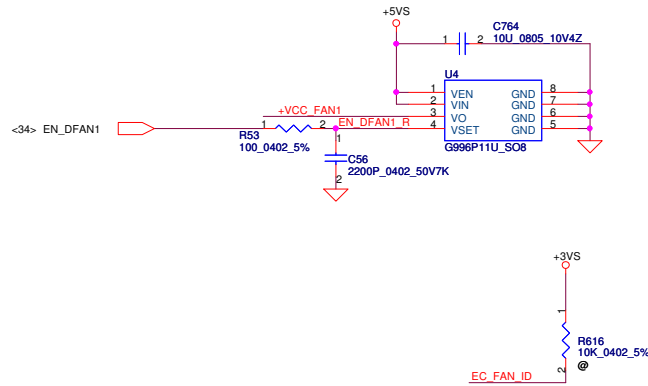
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Issued Date	2010/08/25	Deciphered Date	2012/08/25	Title	WLAN/BT/WWAN/m-SATA
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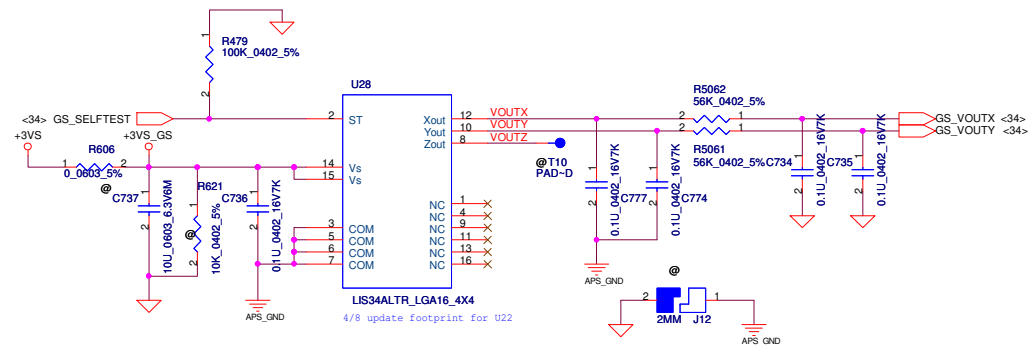
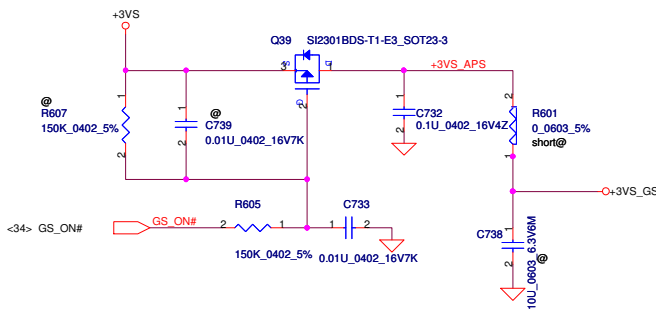
REMOTE1,2+/-:  
Trace width/space:10/10 mil  
Trace length:<8"

### FAN +5VS DROOP



SP02000TS00

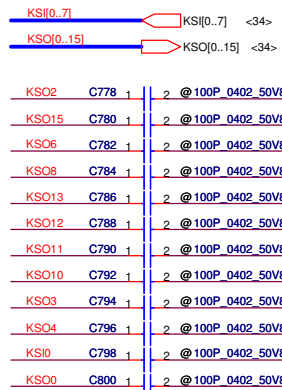
### APS G-Sensor



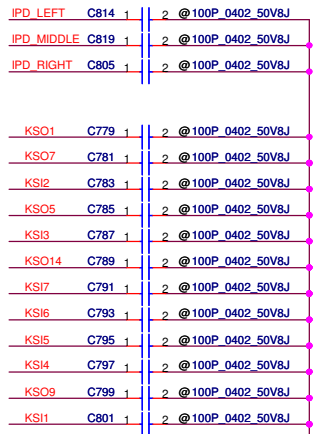
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Size	Document Number	Rev	LA-8671P_SDV	
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## INT\_KBD Conn.



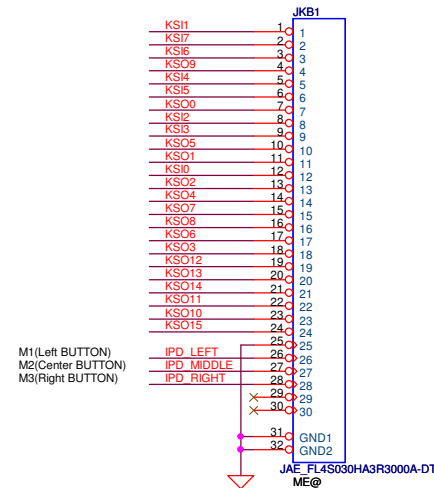
CONN PIN define need double check



Reserve for ESD.

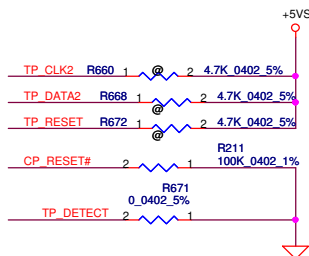
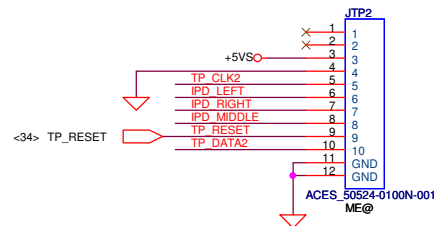
## INT\_KBD Conn.

PN:SP01000YH00



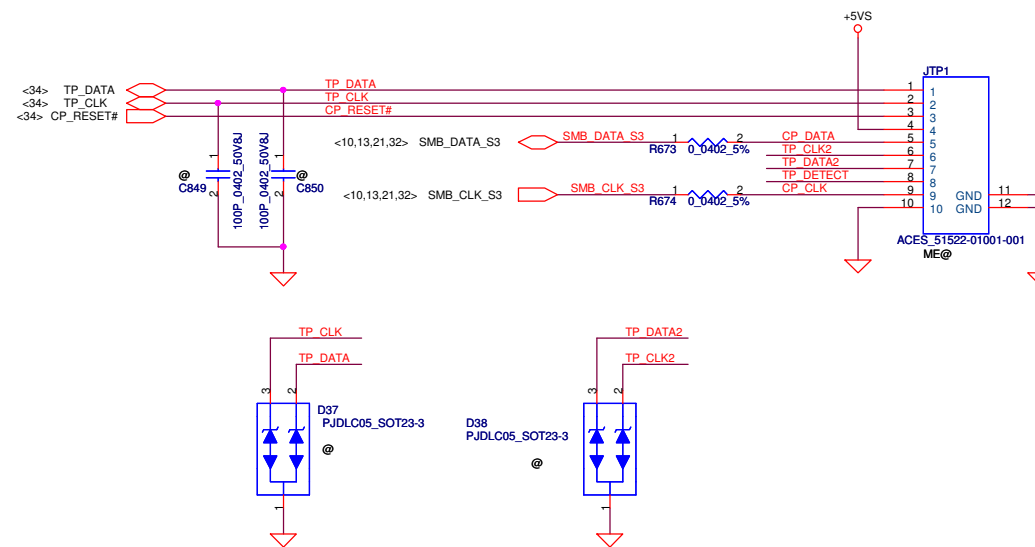
## Track point

PN:SP01001CH00



## Click pad 10PIN

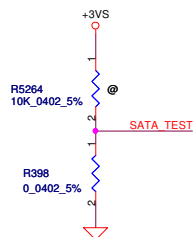
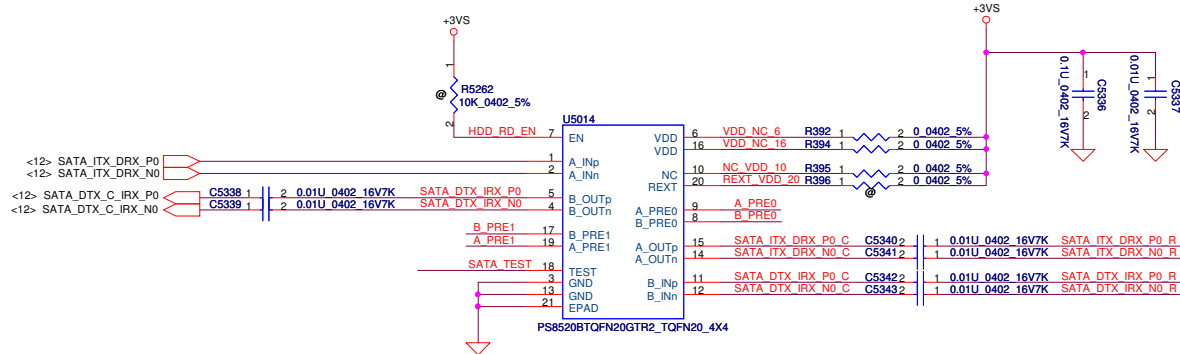
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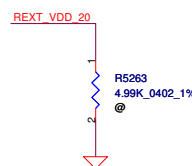
PN: SCA00000U10 X 2

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								Custom		LA-8671P_SDV		1.			
								Date:		Friday, July 27, 2012		Sheet		35 of 50	

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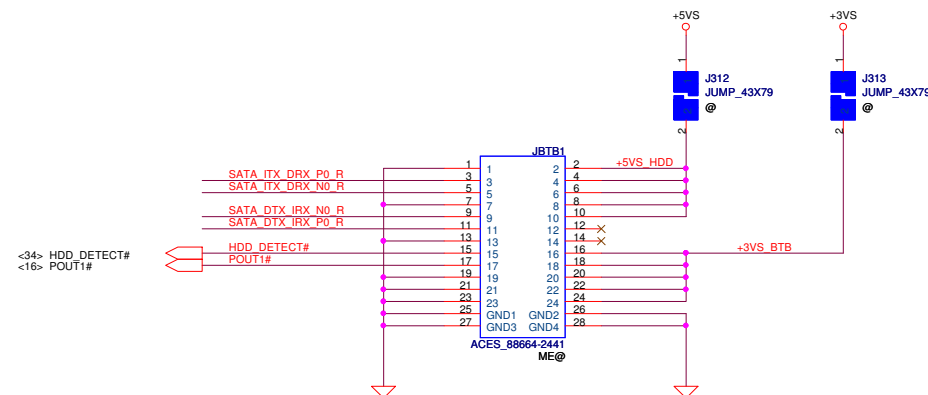
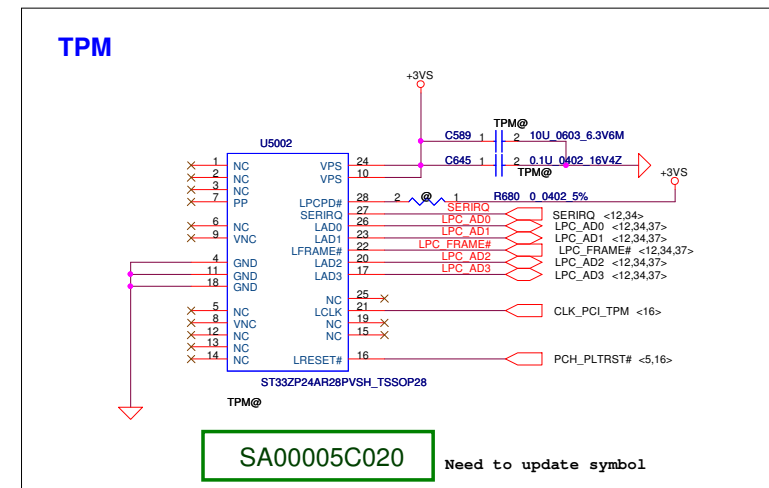


	TEST (Internal Low)
Normal Mode (Default)	LOW
Test Mode	HIGH



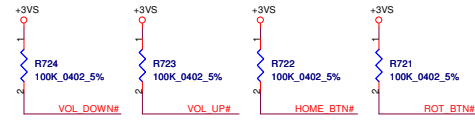
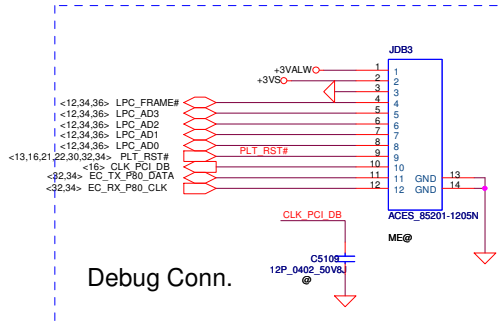
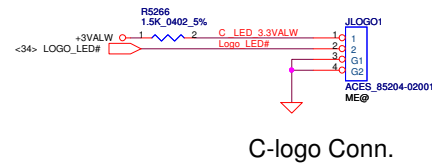
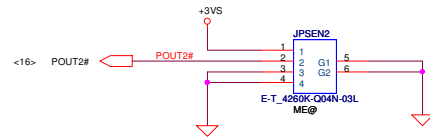
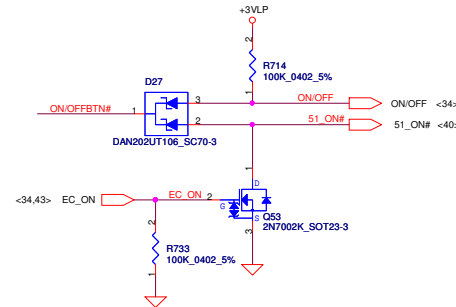
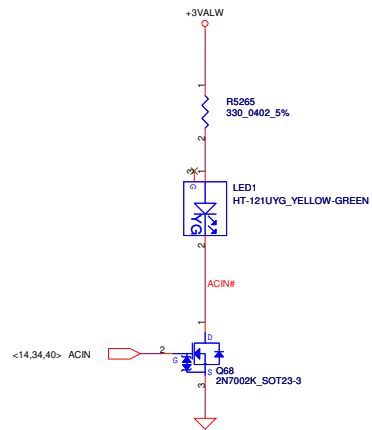
Remove pull-low

	A_PRE1/B_PRE1 (Internal pull Low)	A_PRE0/B_PRE0 (Internal pull Low)
0dB, no pre-emphasis	Low	Low
1.5dB pre-emphasis is selected	Low	High
2.5dB pre-emphasis is selected	High	Low
3.5dB pre-emphasis is selected	High	High

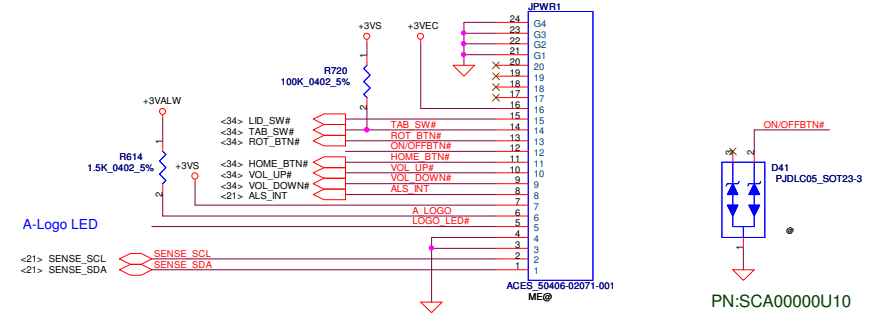




## AC-IN LED (Color : Green)

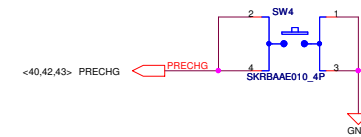


SP010016L00



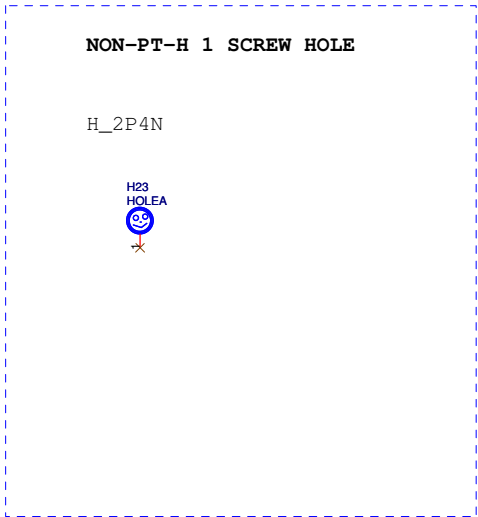
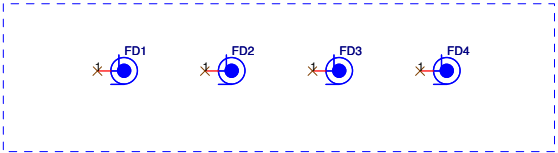
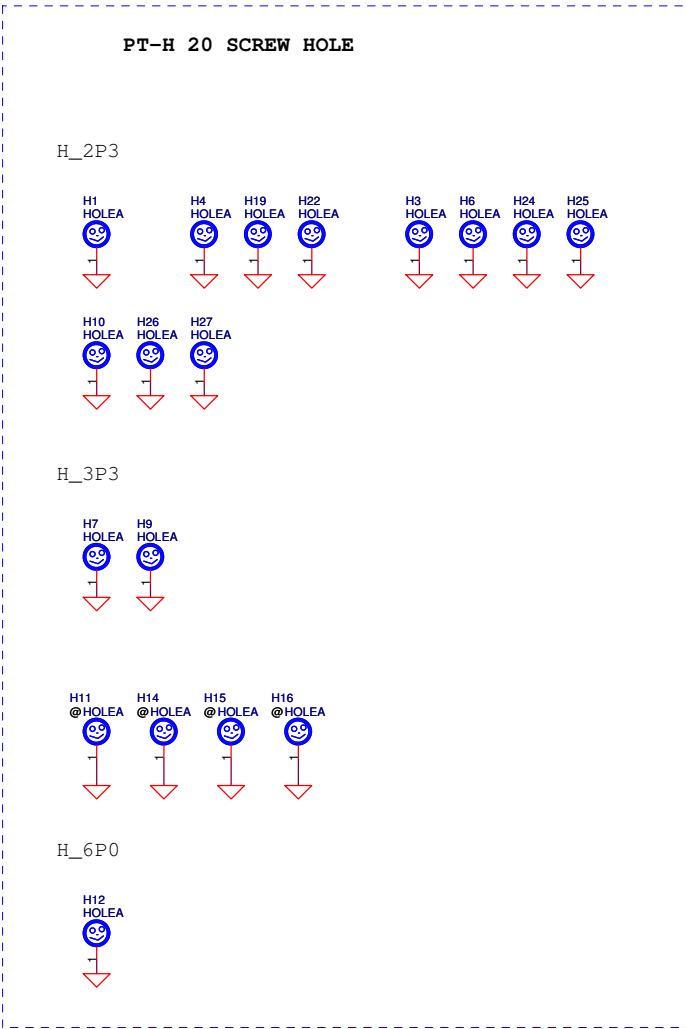
## Power Board connector

BOTTOM SIDE  
SN111005800 by ME drawing



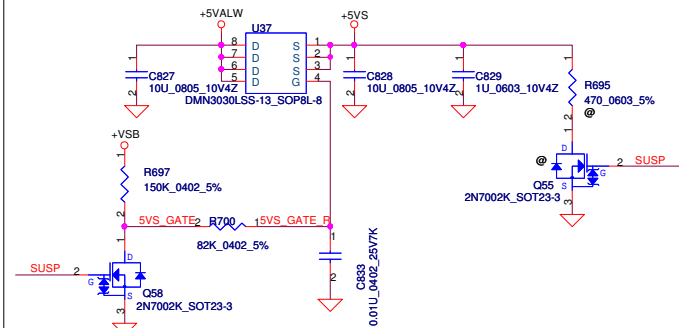
For Power Reset

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Size		Document Number				Rev
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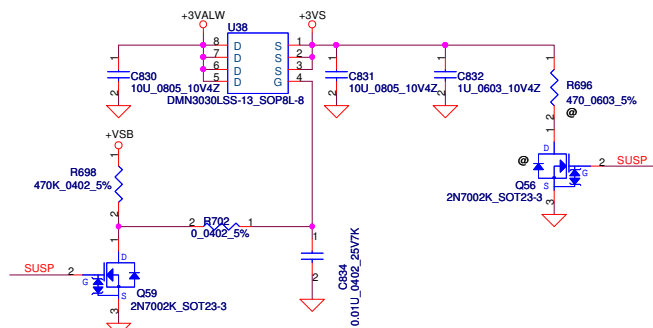


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Size	Document Number	Rev		
Custom	LA-8671P_SDV	1.0		
Date:	Friday, July 27, 2012	Sheet	38 of 50	

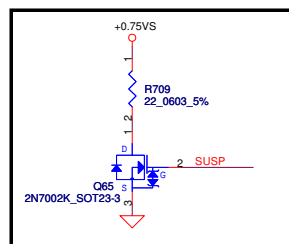
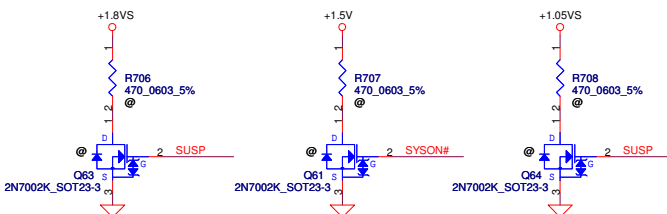
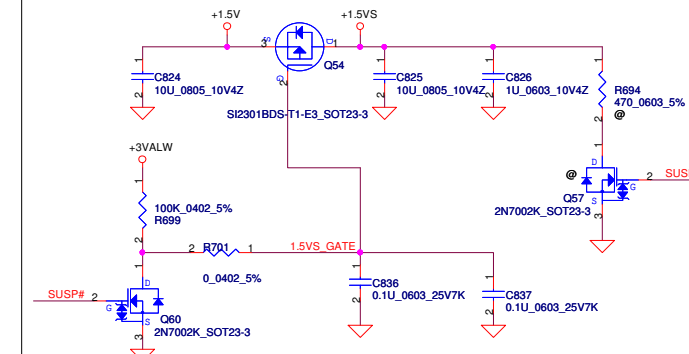
# +5VALW TO +5VS



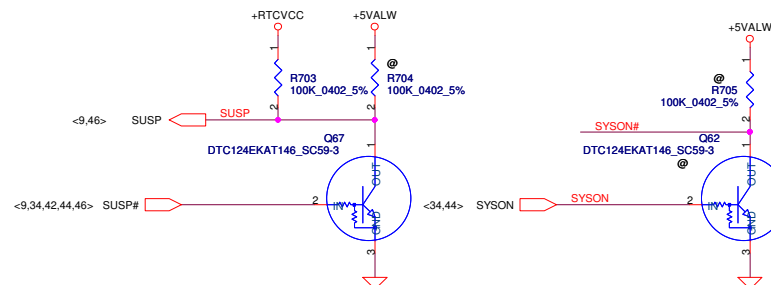
# +3VALW TO +3VS



# +1.5V to +1.5VS



For Intel S3 Power Reduction.

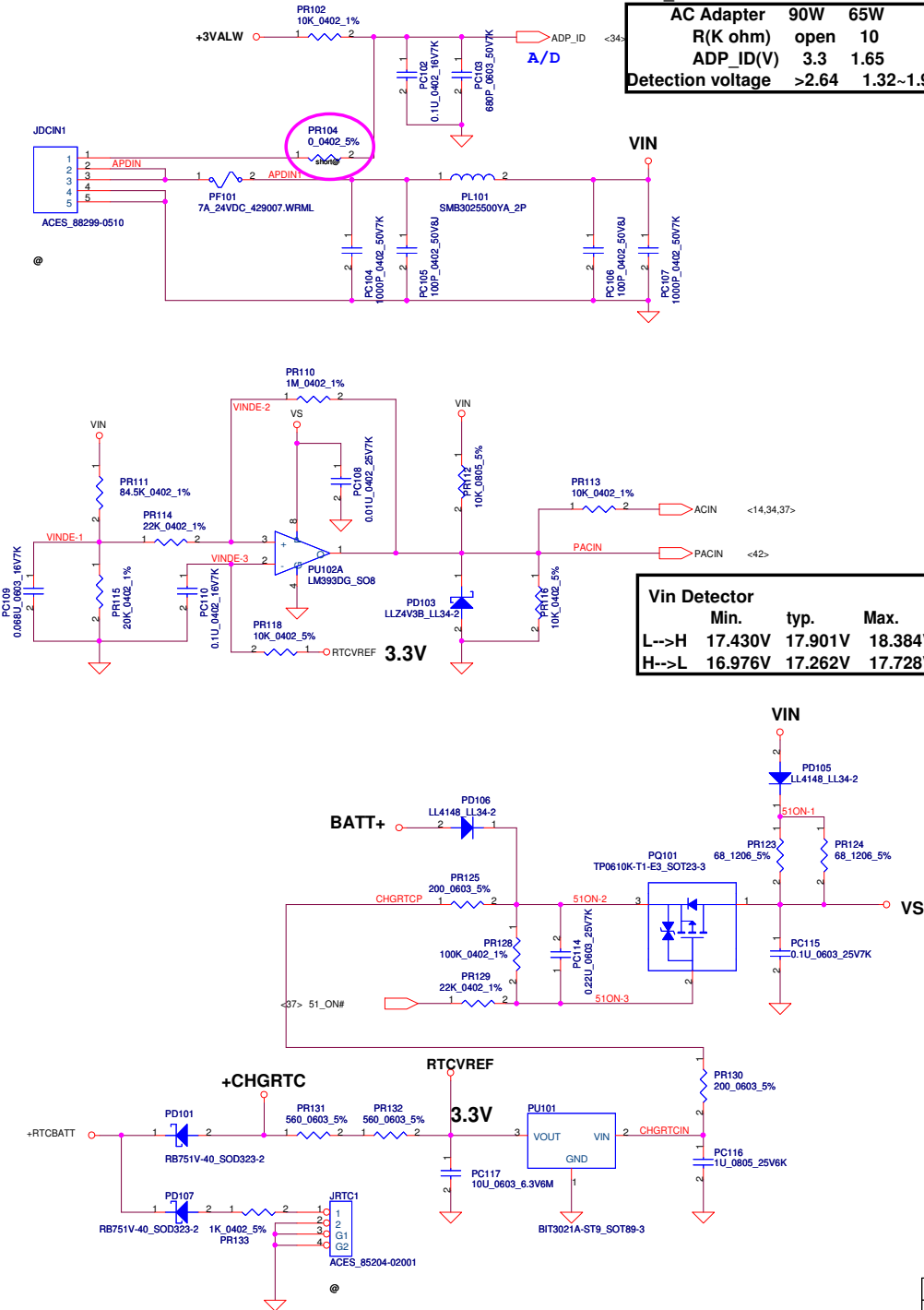


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								Size		Document Number		Rev	
								Custom		LA-8671P_SDV		1.0	
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# ADP\_ID

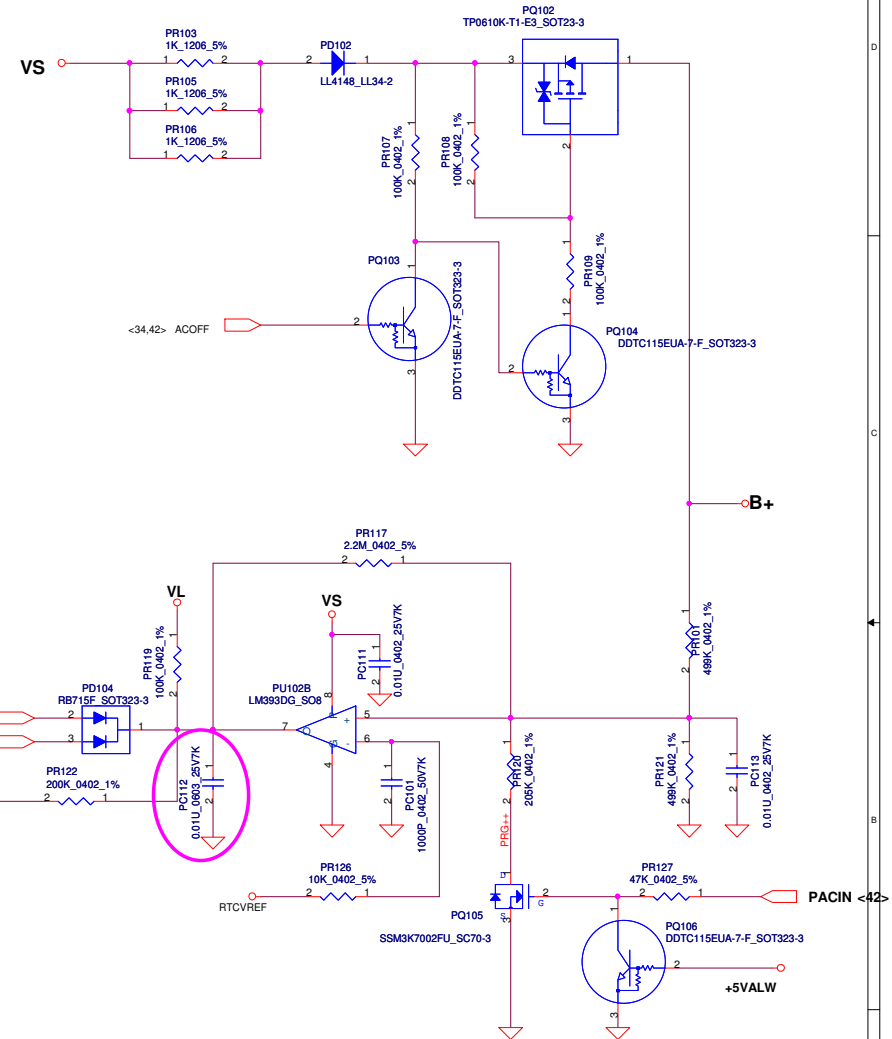
AC Adapter	90W	65W
R(K ohm)	open	10
ADP_ID(V)	3.3	1.65
Detection voltage	>2.64	1.32~1.98

# Precharge detector 15.97V/14.84V FOR ADAPTOR



# Vin Detector

	Min.	typ.	Max.
L-->H	17.430V	17.901V	18.384V
H-->L	16.976V	17.262V	17.728V



# ACIN

Precharge detector	Min.	typ.	Max.
L-->H	14.991V	15.381V	15.782V
H-->L	13.860V	14.247V	14.621V

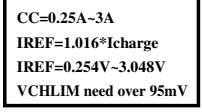
# BATT ONLY

Precharge detector	Min.	typ.	Max.
L-->H	7.196V	7.349V	7.505V
H-->L	6.138V	6.214V	6.056V

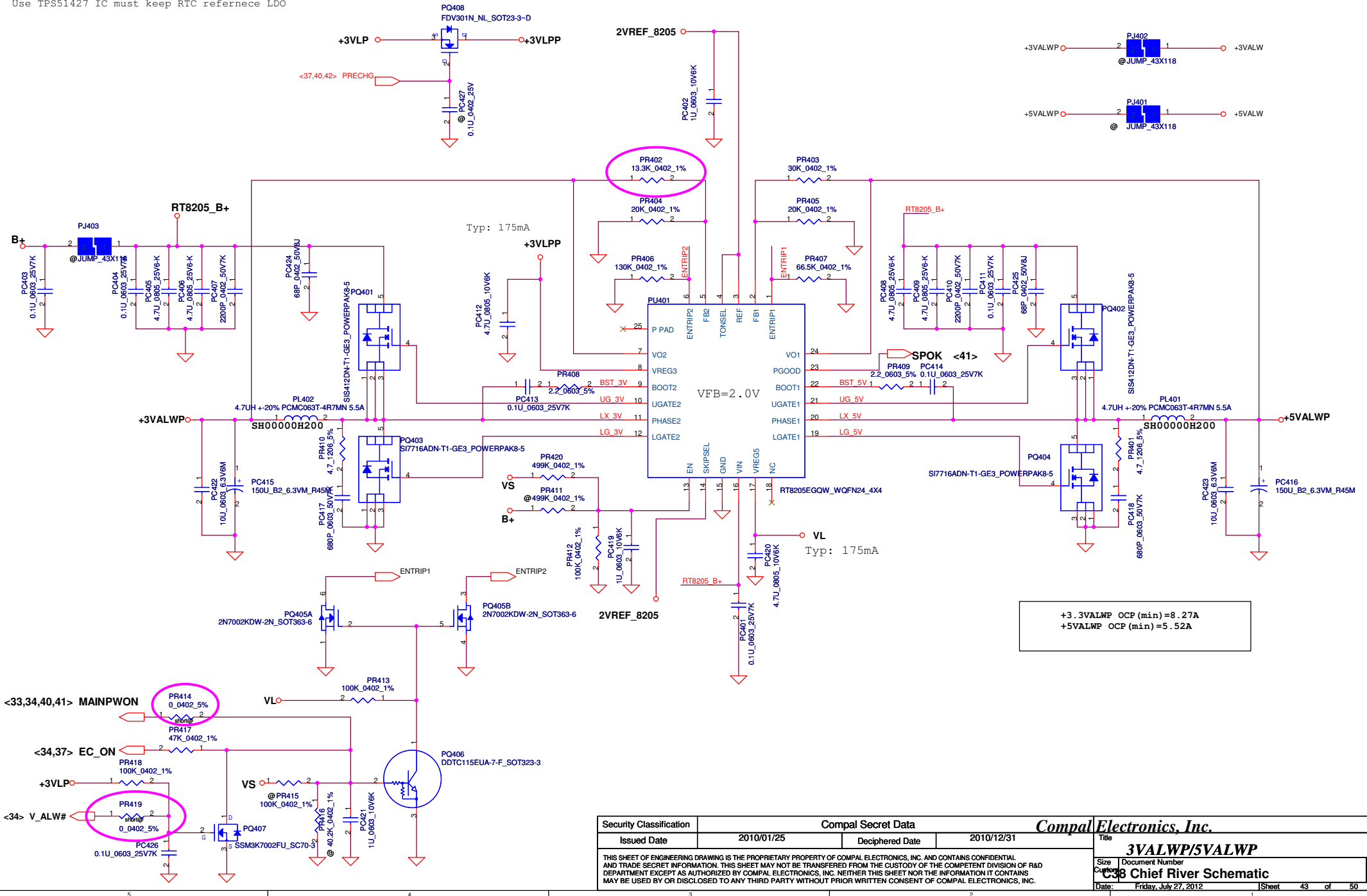
Security Classification	Compal Secret Data	Title	Compal Electronics, Inc.
Issued Date	2010/01/25	Deciphered Date	2010/12/31
Size	Document Number	Rev	0.4
Custom	C38 Chief River Schematic	Date	Friday, July 27, 2012
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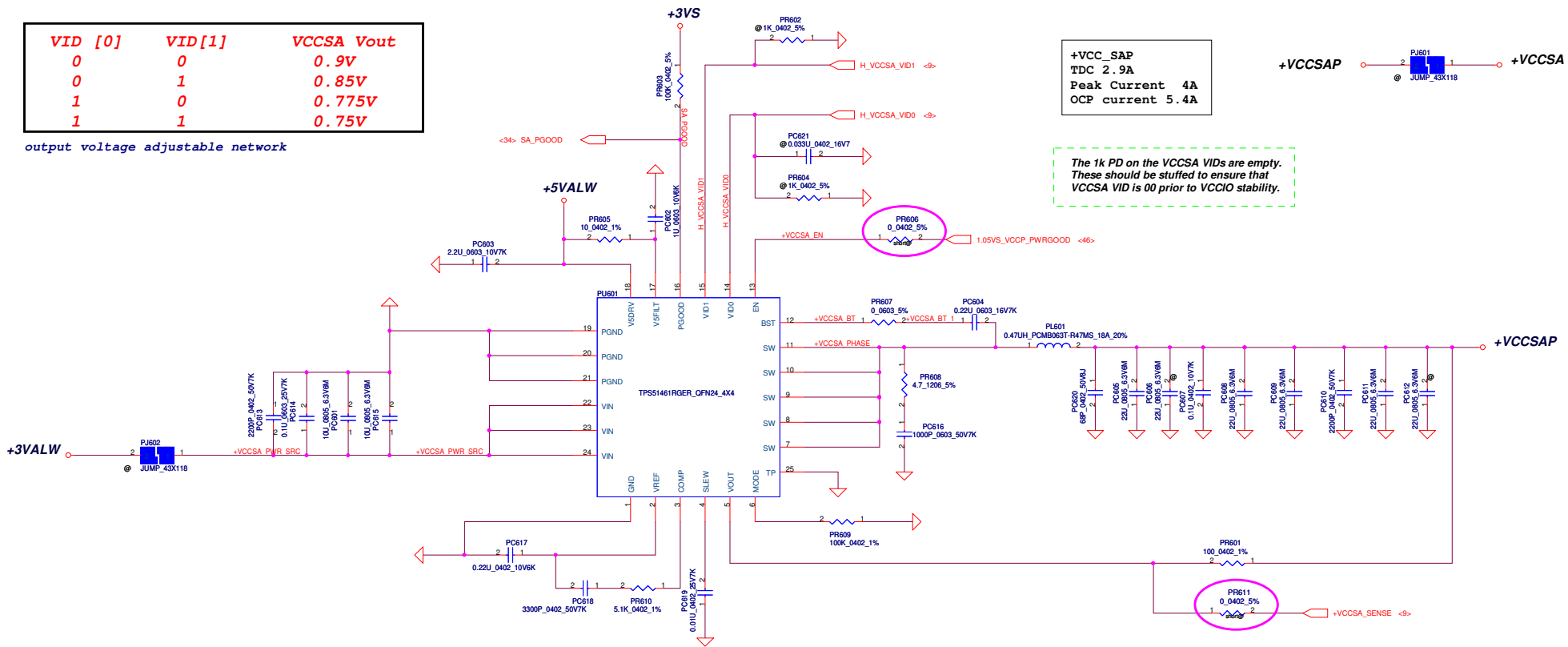
Note:  
 Use TPS51125 IC can remove RTC reference LDO  
 Use TPS51427 IC must keep RTC reference LDO



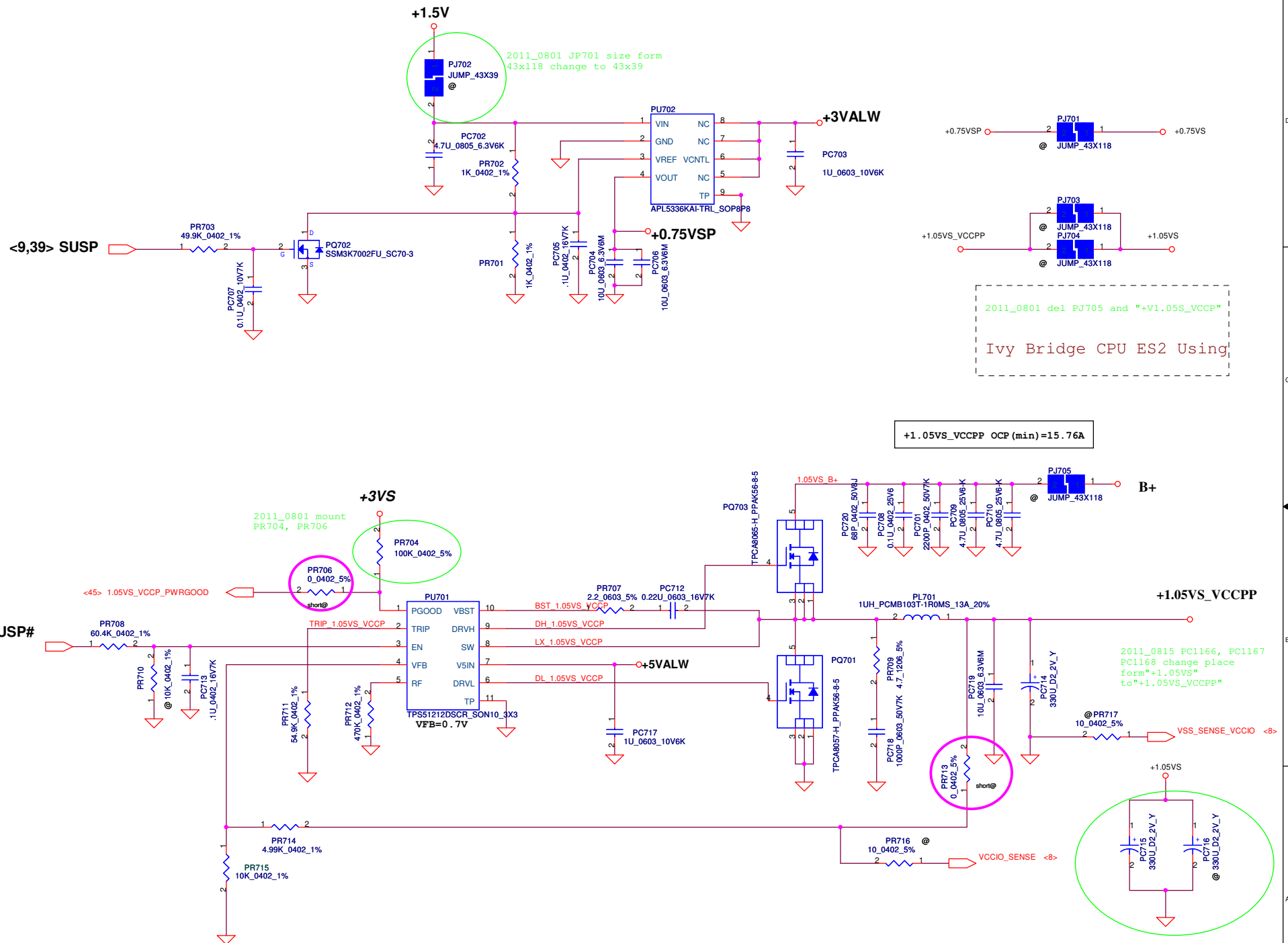


VID [0]	VID[1]	VCCSA Vout
0	0	0.9V
0	1	0.85V
1	0	0.775V
1	1	0.75V

output voltage adjustable network

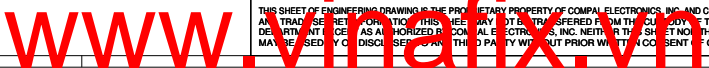


2011\_0801 del +V1.05S\_VCCPP circuit



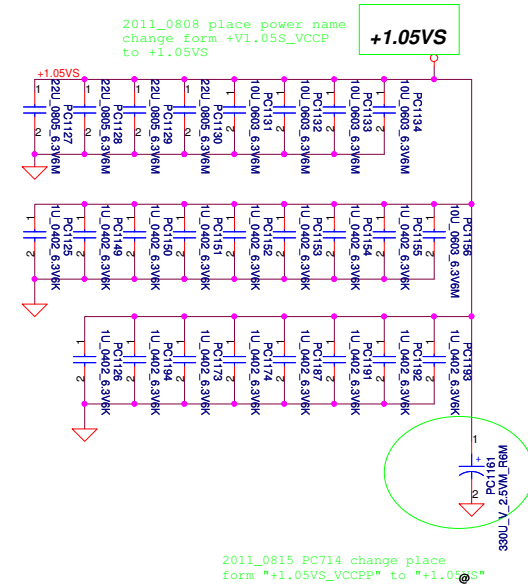
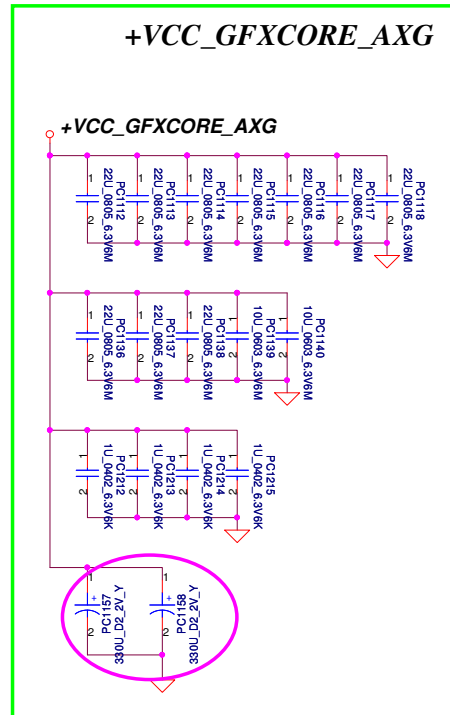
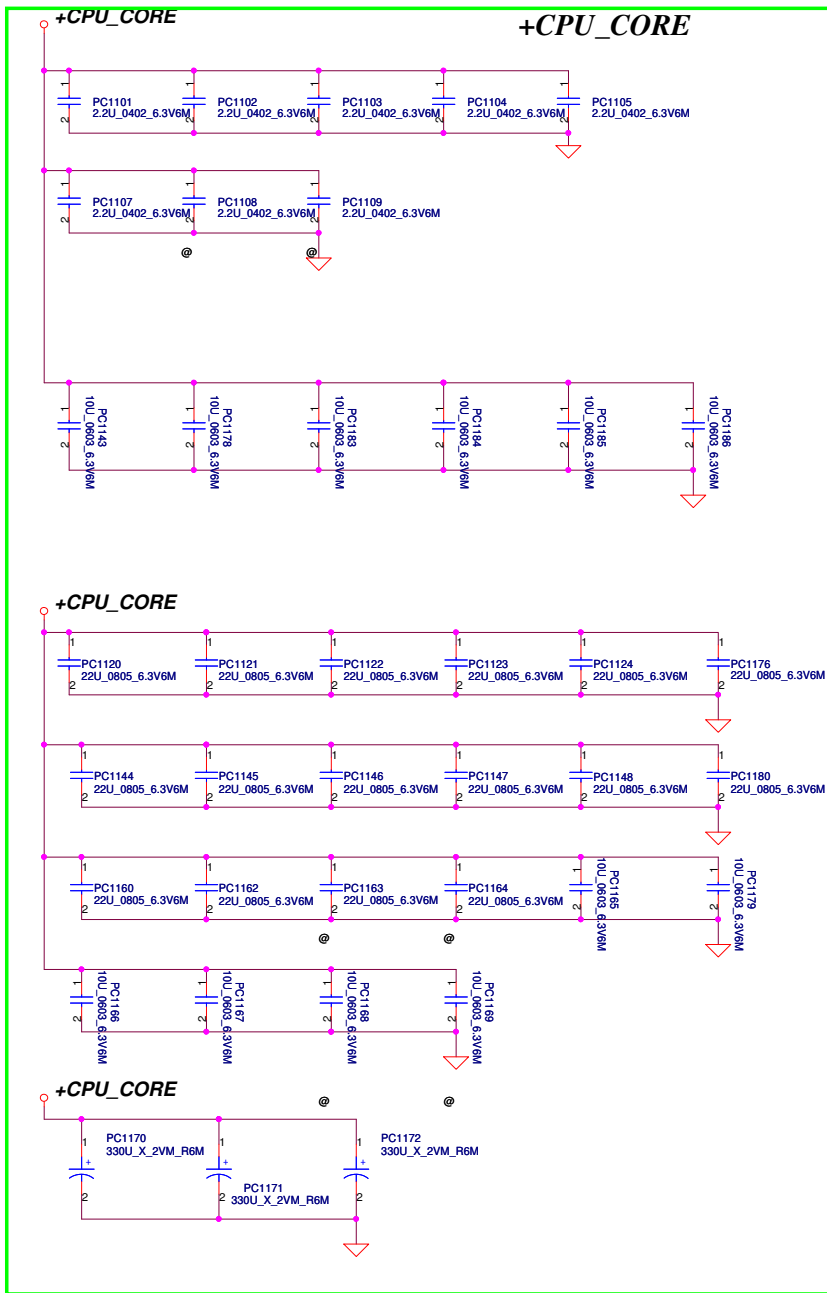
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					LA-8261P_SDV
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## Version change list (P.I.R. List)

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for PWR

Item	Reason for change	PG#	Modify List	Date	Phase
1	NCP6132A update SPEC	P47	Remove PR916, PR945	2012/06/05	
2	Thermal verify PH1 setting point	P41	Change PR208 value to 18.2K	2012/06/08	
3	ME demand : Keyboard assembly issue	P44	Change PL401, PL402 to High=2.4mm (SH000000H200)	2012/06/08	
4	Noise is PASS, Don't need 33u CAP	P48	Remove PC1023, PC1024	2012/06/08	
5					
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17					

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