

Compal Confidential

Model Name :
File Name : LA-8671P

Compal Confidential

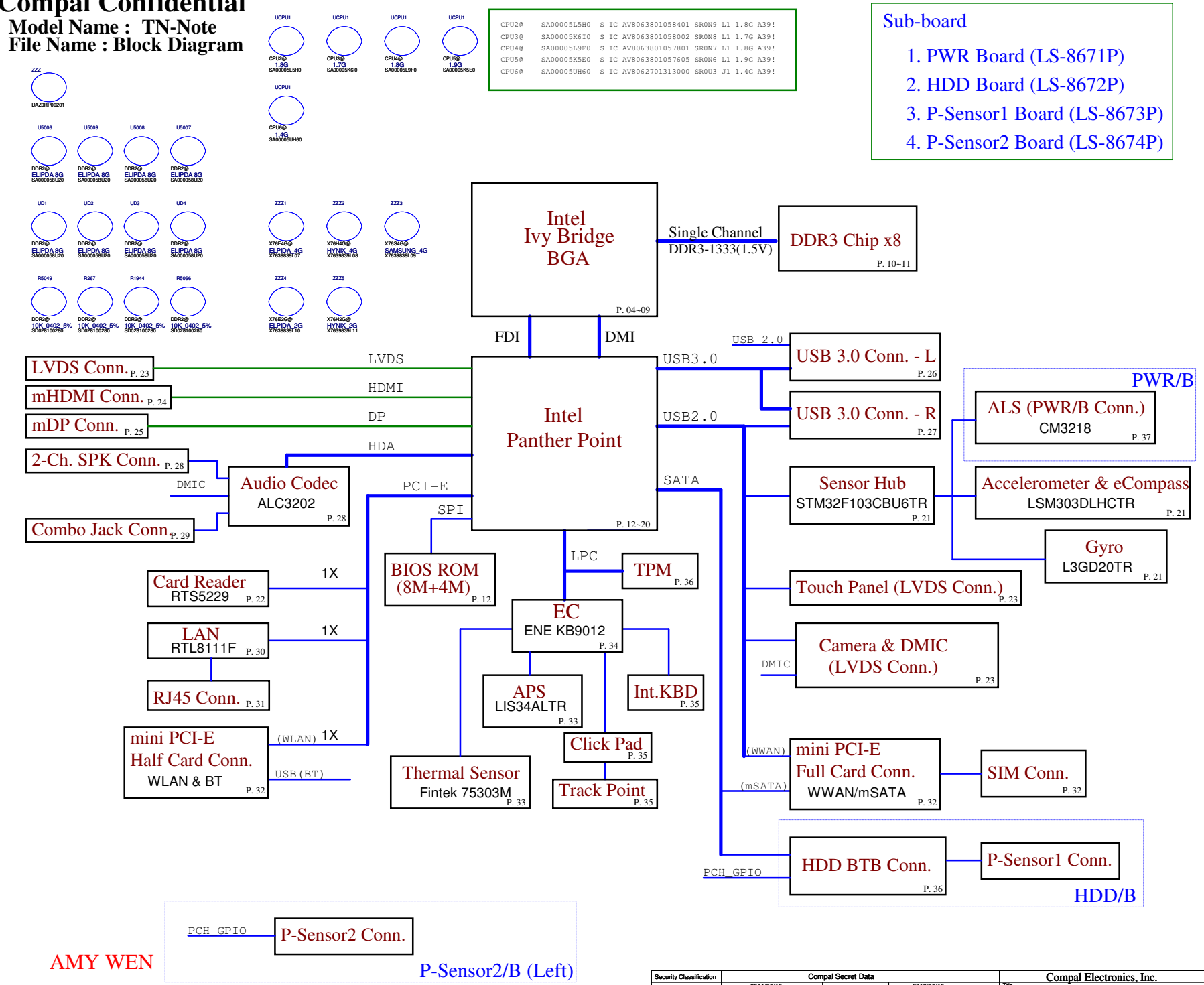
TN-Note Schematic Document

2012-07-27

REV:1.0_0727A

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Compal Confidential
Model Name : TN-Note
File Name : Block Diagram



AMY WEN

P-Sensor2/B (Left)

Voltage Rails

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

BOM Structure

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

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 DIMMO	1010-000xb	A0 H

SM Bus Controller 0

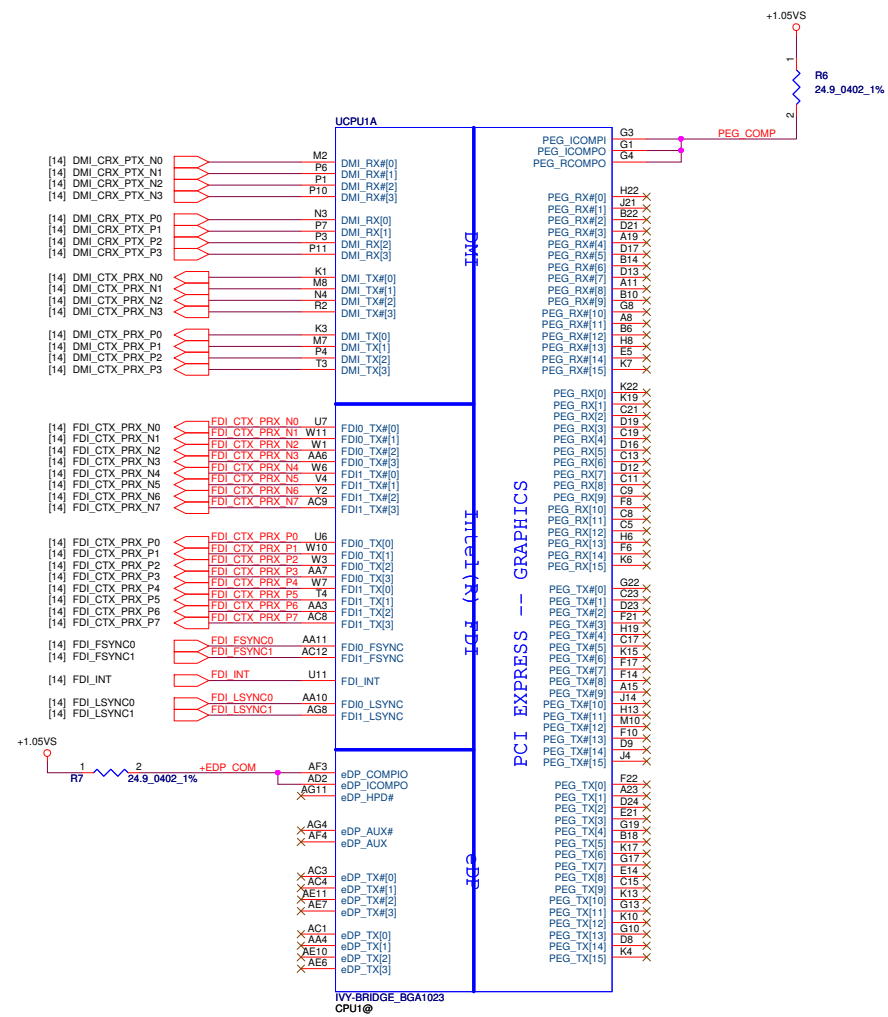
Device	Address	HEX
No-use	No-use	No-use

Sensor HUB

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

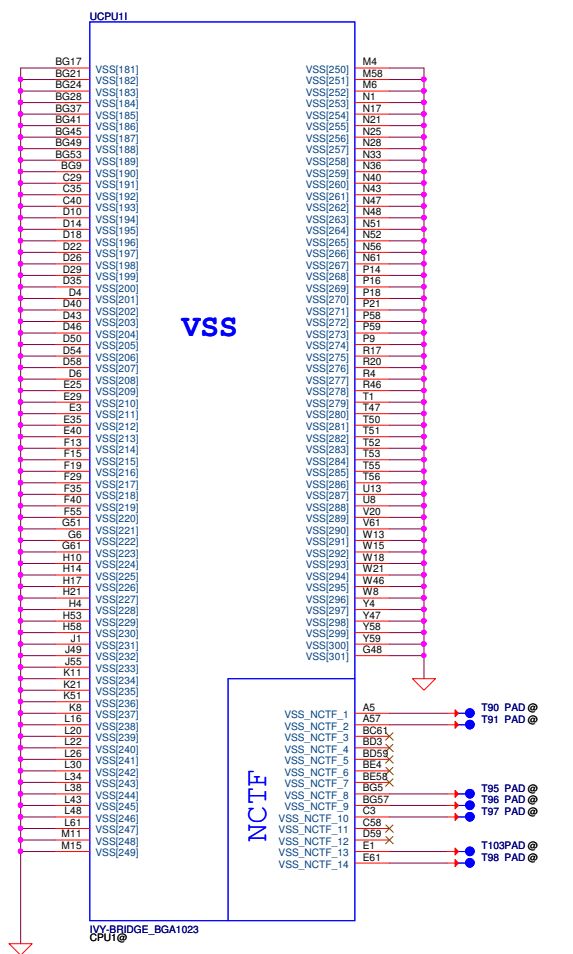
USB3.0	USB2.0	NOTE
1	0	
2	1 *	USB3.0/2.0 Conn
3	2	USB3.0/2.0 Conn
4	3	
	4	Sensor Hub
	5	USB Camera
	6	✗
	7	✗
	8	Touch Panel
	9 *	WWAN
	10	WLAN
	11	Finger Printer**
	12	
	13	Bluetooth**

* Debug Port
** Not Use

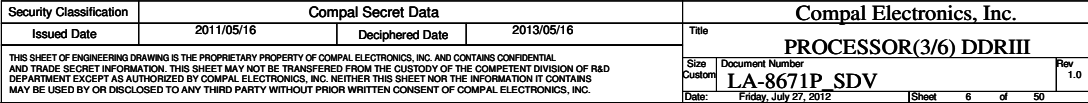


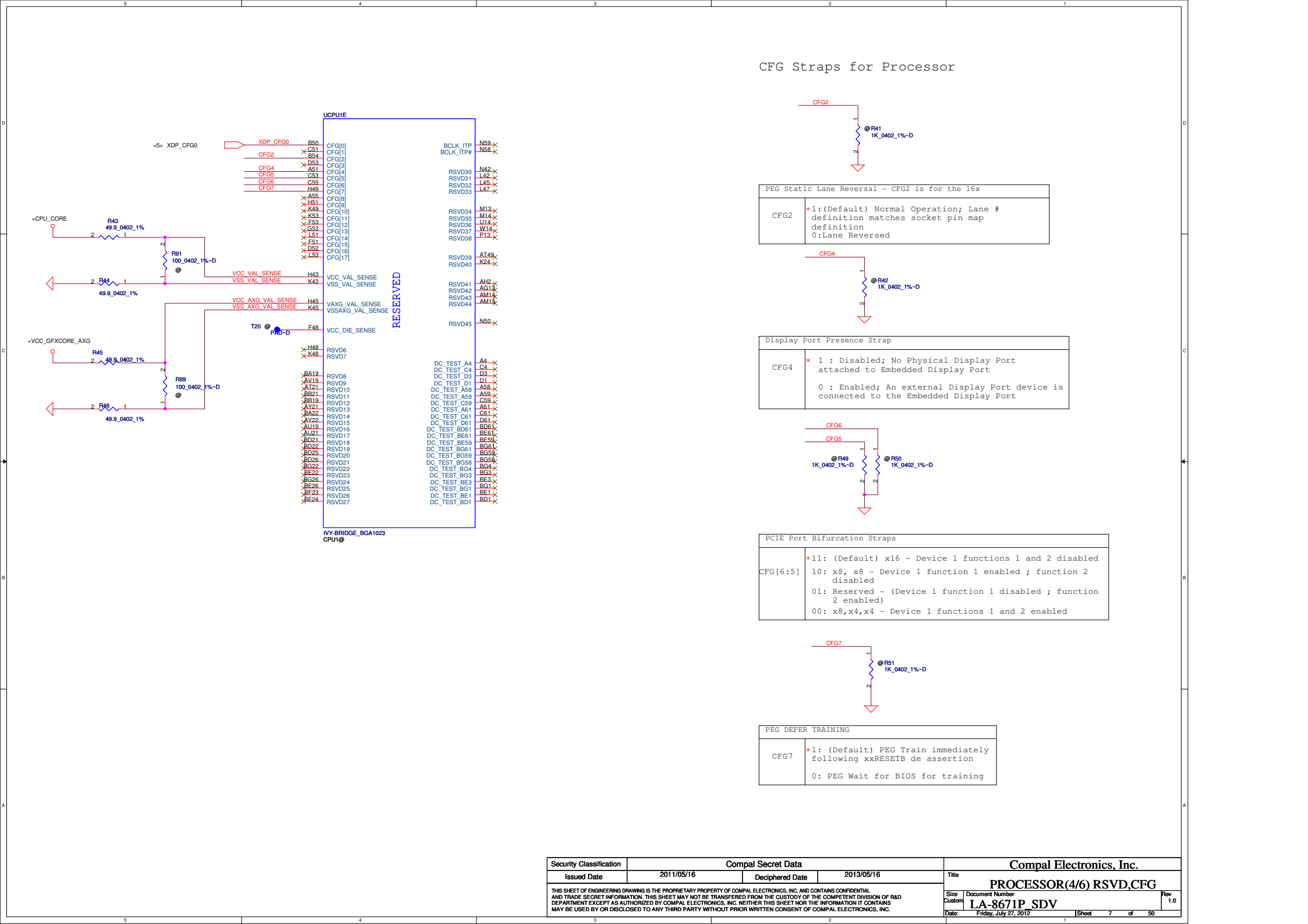
PEG_ICOMPI and RCOMPO signals should be shorted and routed with - max length = 500 mils - typical impedance = 43 mohms
PEG_ICOMPO signals should be routed with - max length = 500 mils - typical impedance = 14.5 mohms

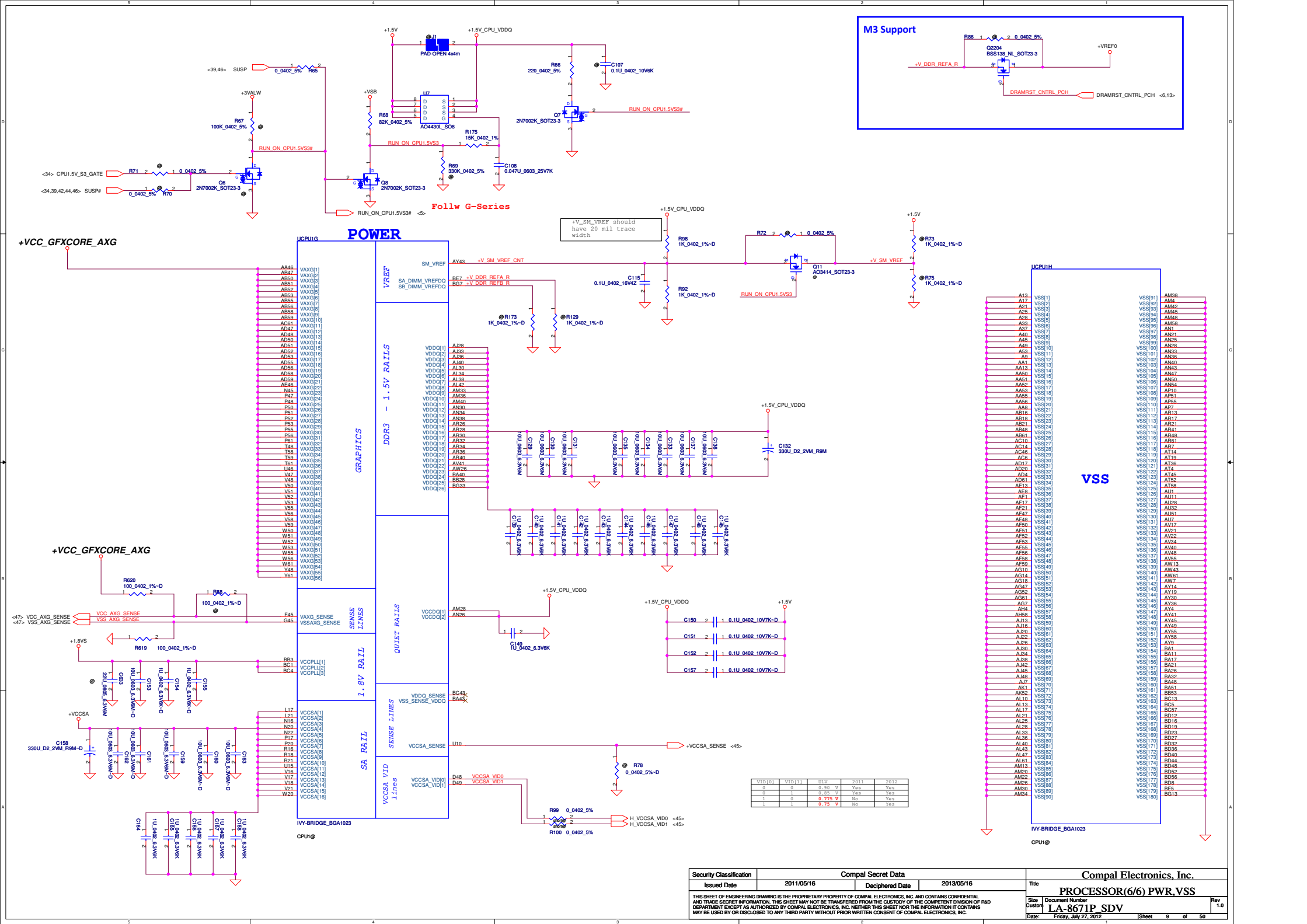
CFG2	★ 1: Normal Operation; Lane # definition matches socket pin map definition 0: Lane Reversed
------	--



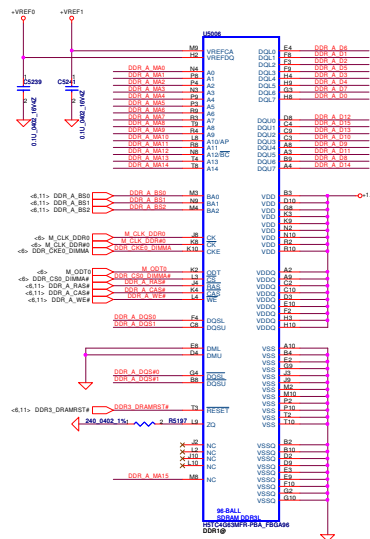
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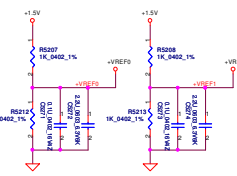
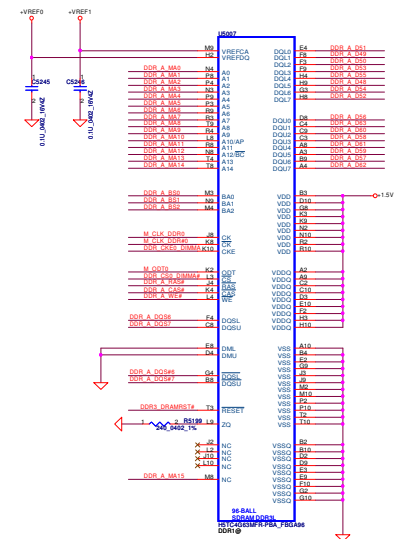
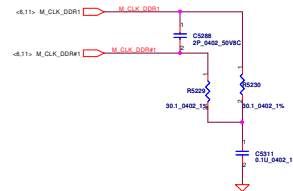
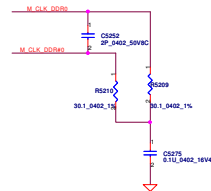
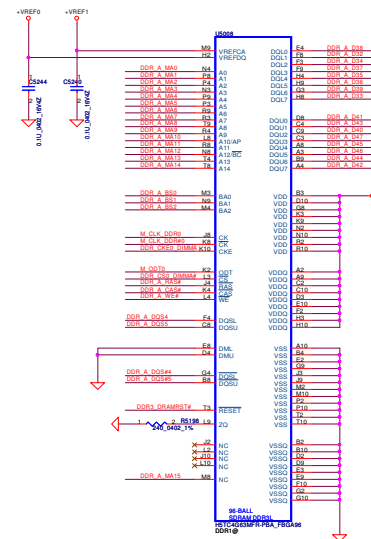
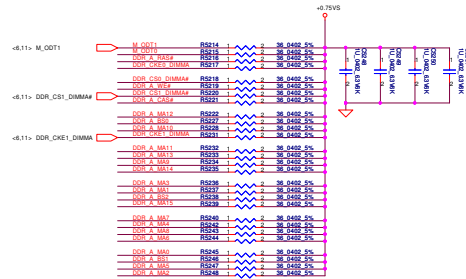
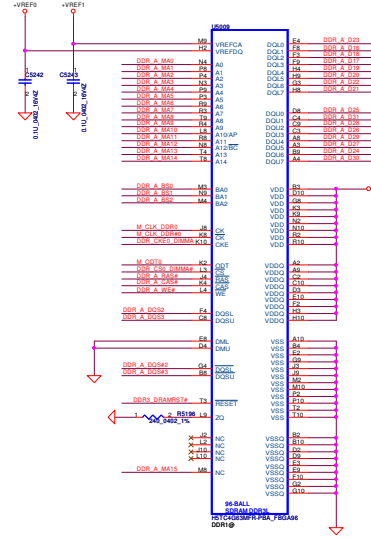
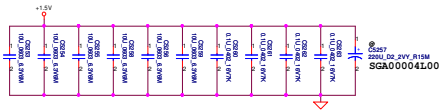
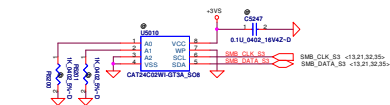




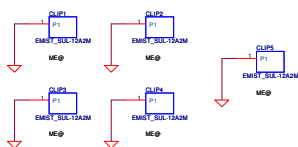
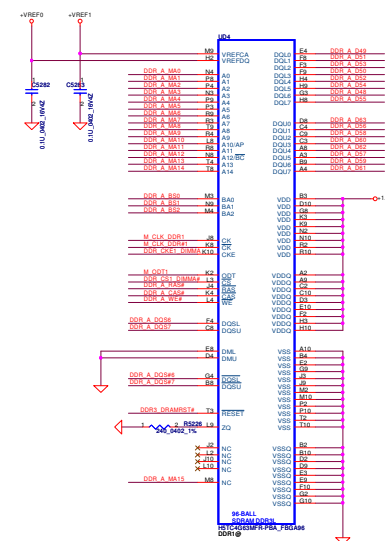
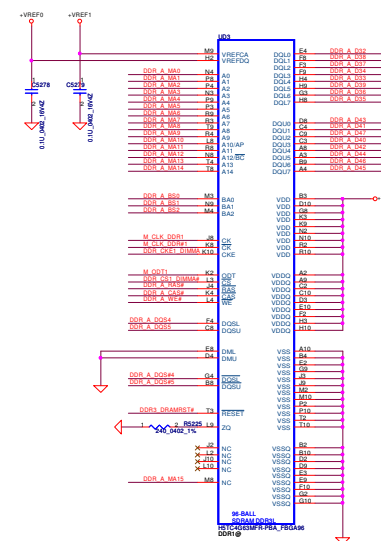
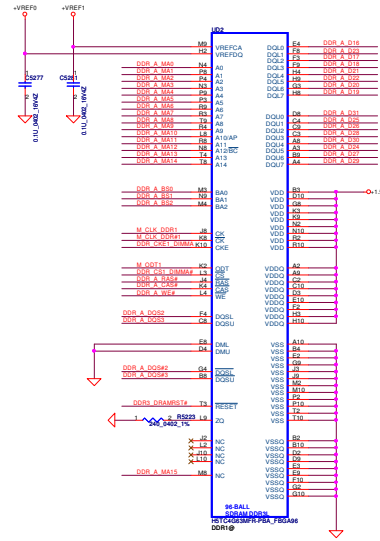
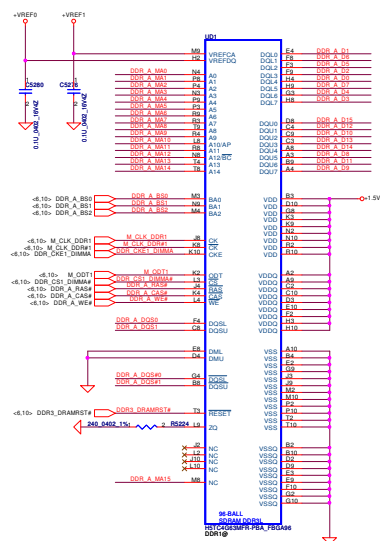
<E11> DDR_A_M0(15)  DDR_A_M0(15)
 <E11> DDR_A_D0(49:7)  DDR_A_D0(49:7)
 <E11> DDR_A_D0(49:7)  DDR_A_D0(49:7)
 <E11> DDR_A_D0(49:7)  DDR_A_D0(49:7)



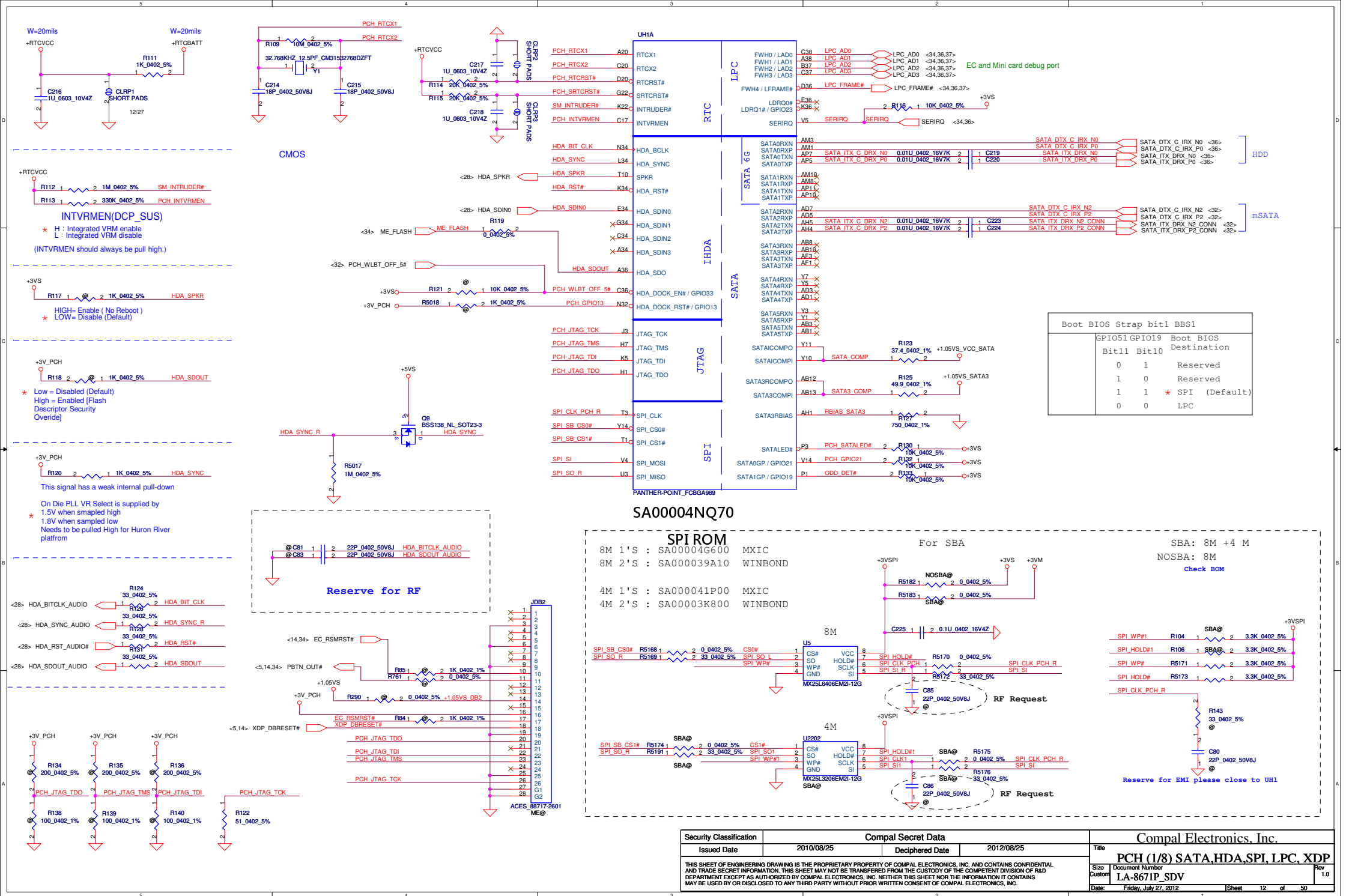
SA00001IV10

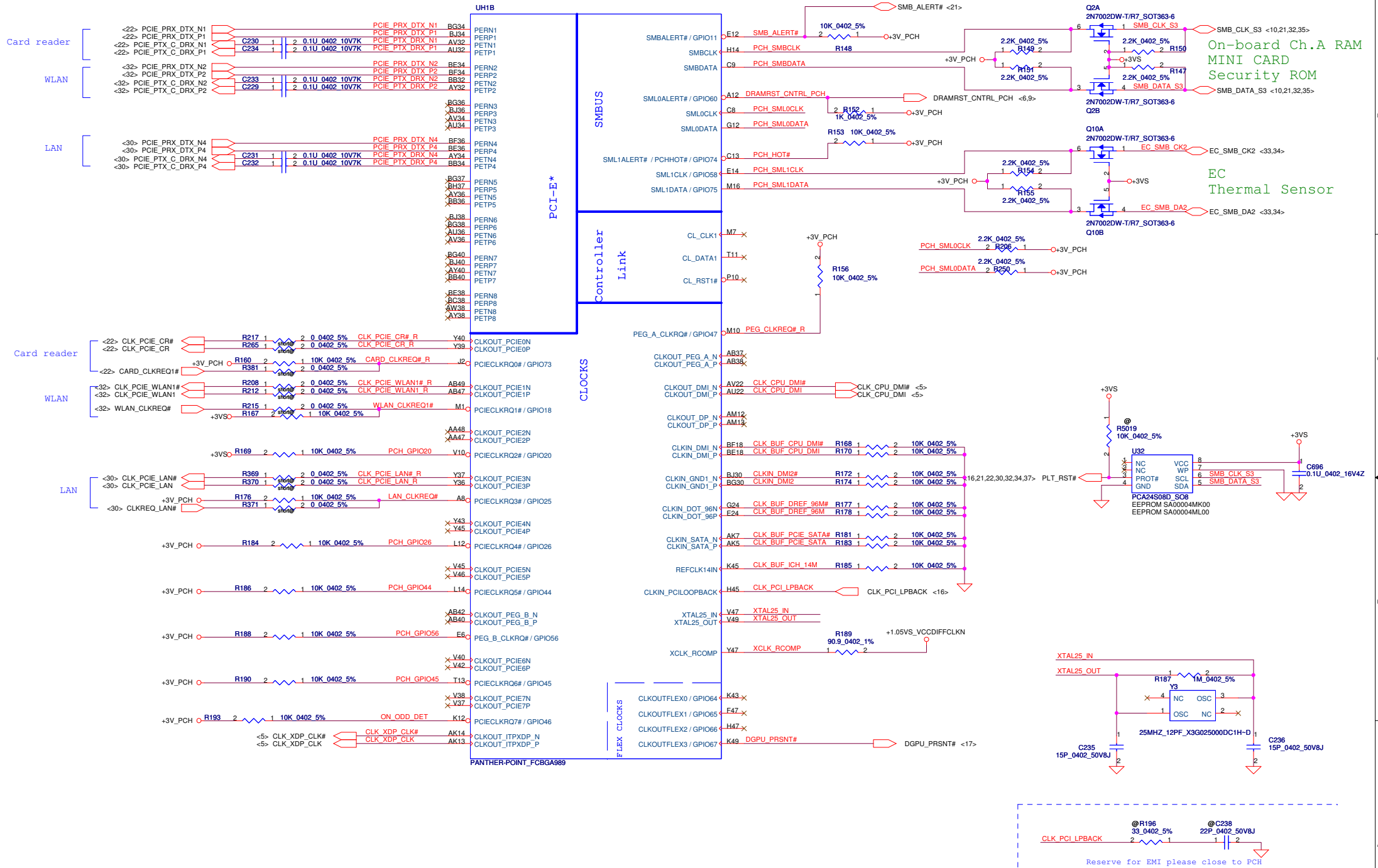


<6,10> DDR_A_MA[0..15] DDR_A_MA[0..15]
 <6,10> DDR_A_DQS#[0..7] DDR_A_DQS#0..7]
 <6,10> DDR_A_DQS[0..7] DDR_A_DQS0..7]
 <6,10> DDR_A_D[0..63] DDR_A_D[0..63]

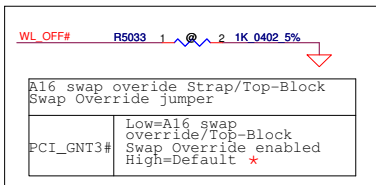
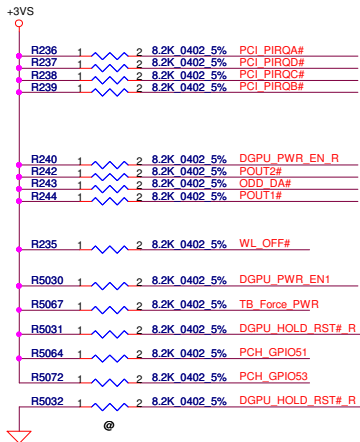


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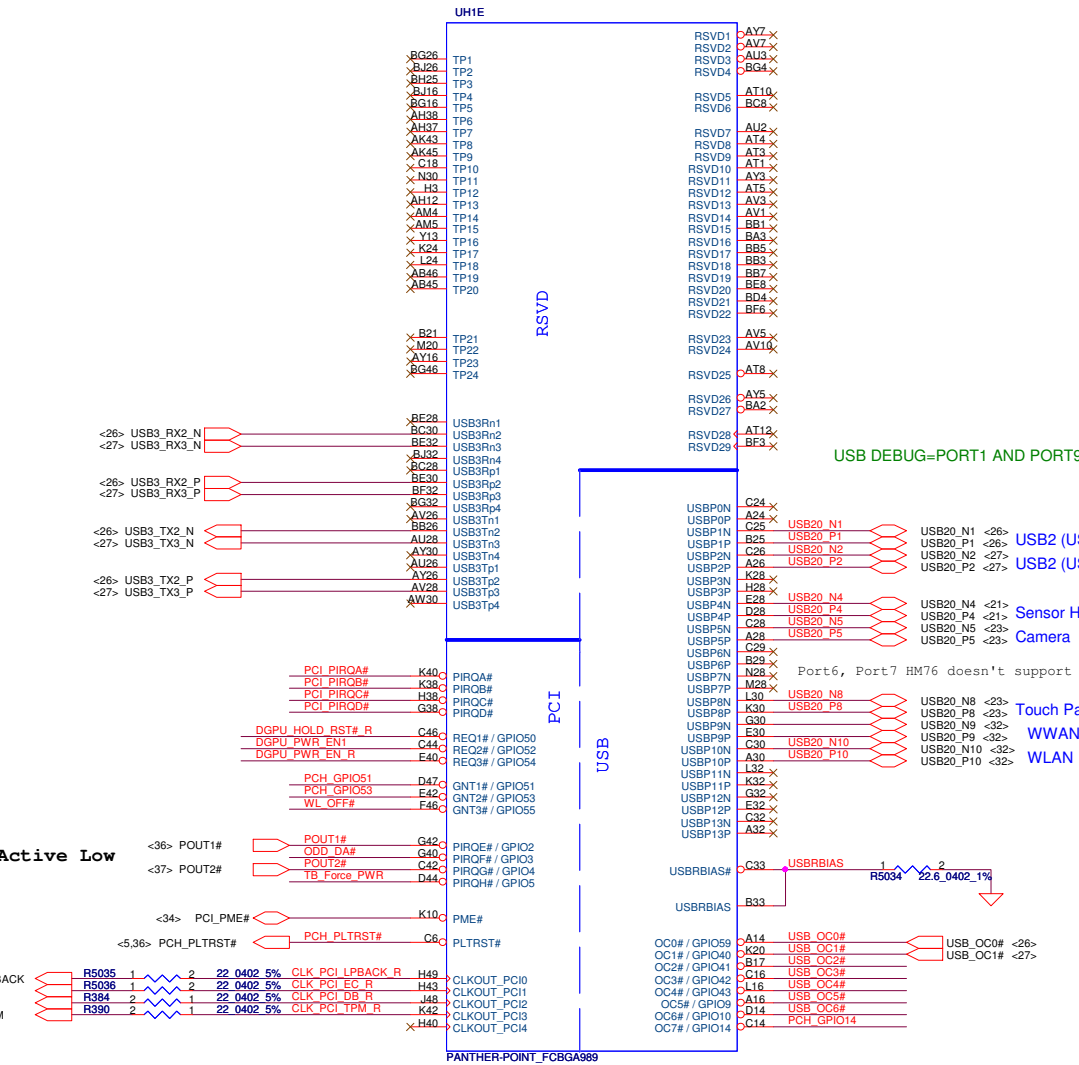
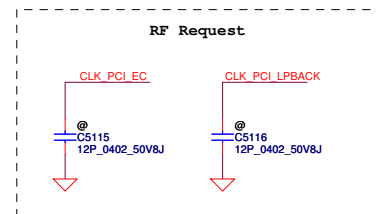




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								Size		Document Number		Rev	
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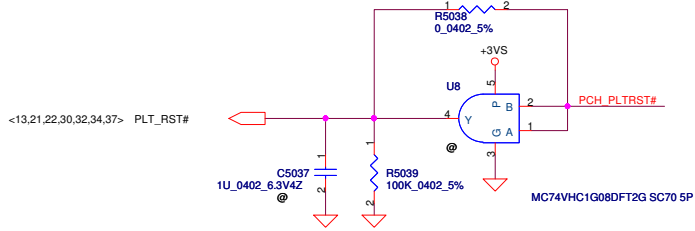
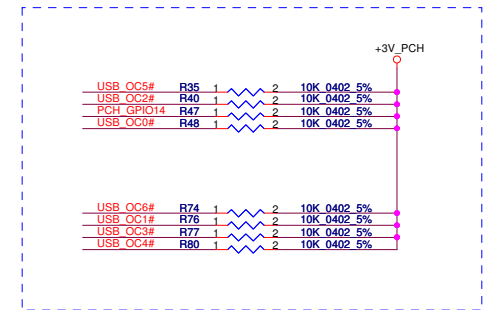


Default: Active Low

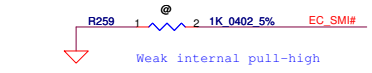


USB3.0	USB2.0	NOTE
1	0	
2	1 *	USB3.0/2.0 Conn
3	2	USB3.0/2.0 Conn
4	3	
	4	Sensor Hub
	5	USB Camera
	6	X
	7	X
	8	Touch Panel
	9 *	WWAN
	10	WLAN
	11	Finger Printer**
	12	
	13	Bluetooth**

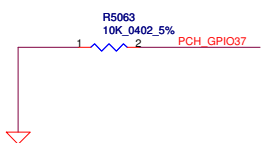
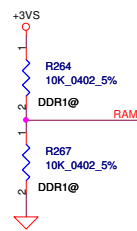
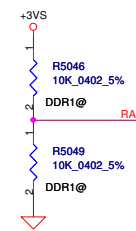
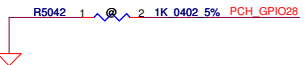
* Debug Port
** Not Use



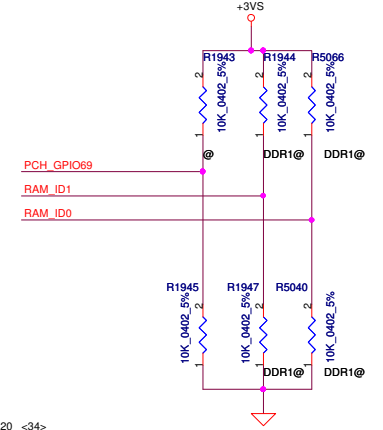
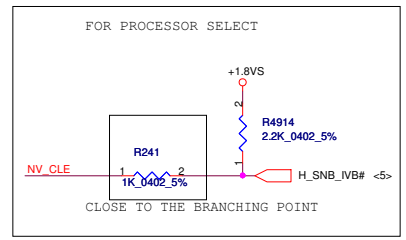
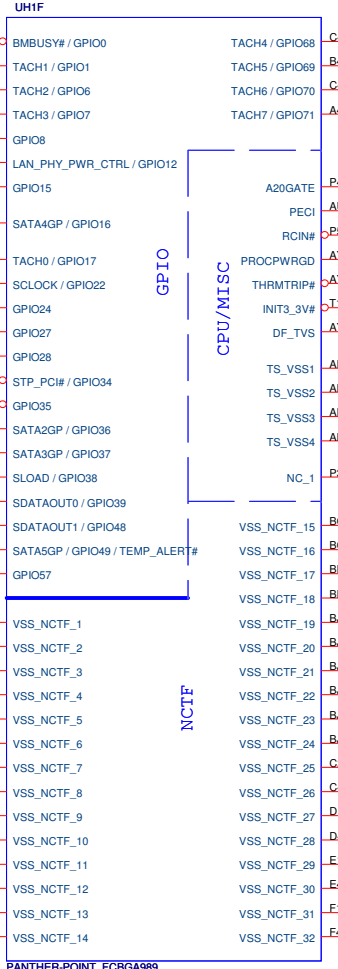
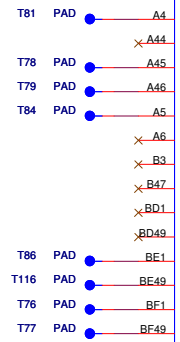
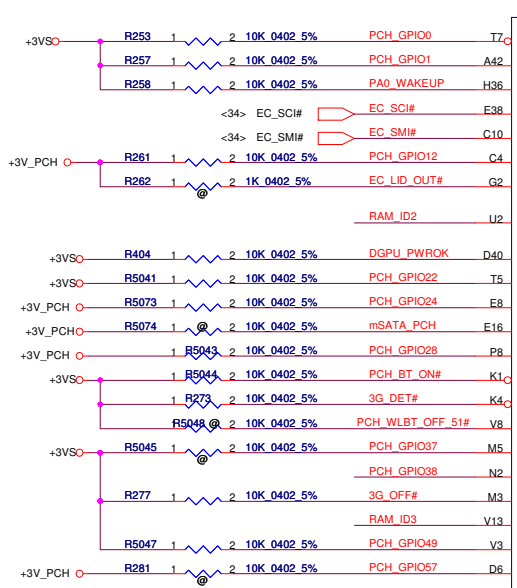
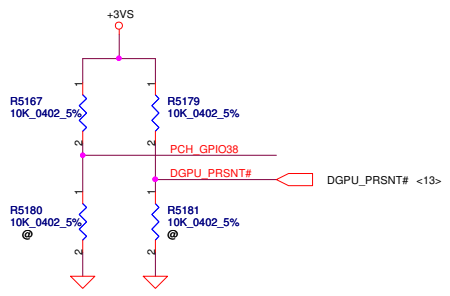
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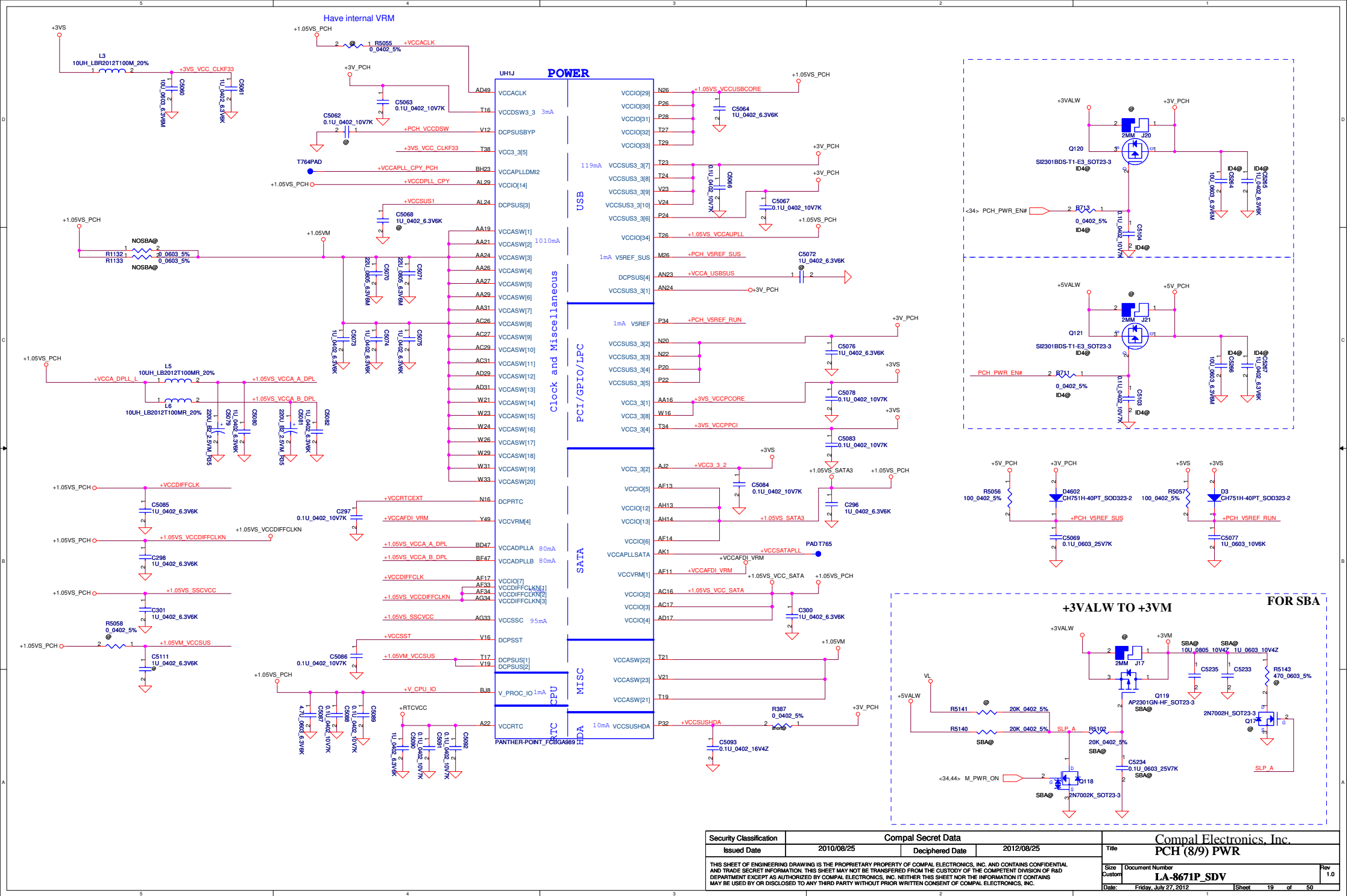
GPIO28
On-Die PLL Voltage Regulator
This signal has a weak internal pull up
★ H : On-Die voltage regulator enable
L : On-Die PLL Voltage Regulator disable

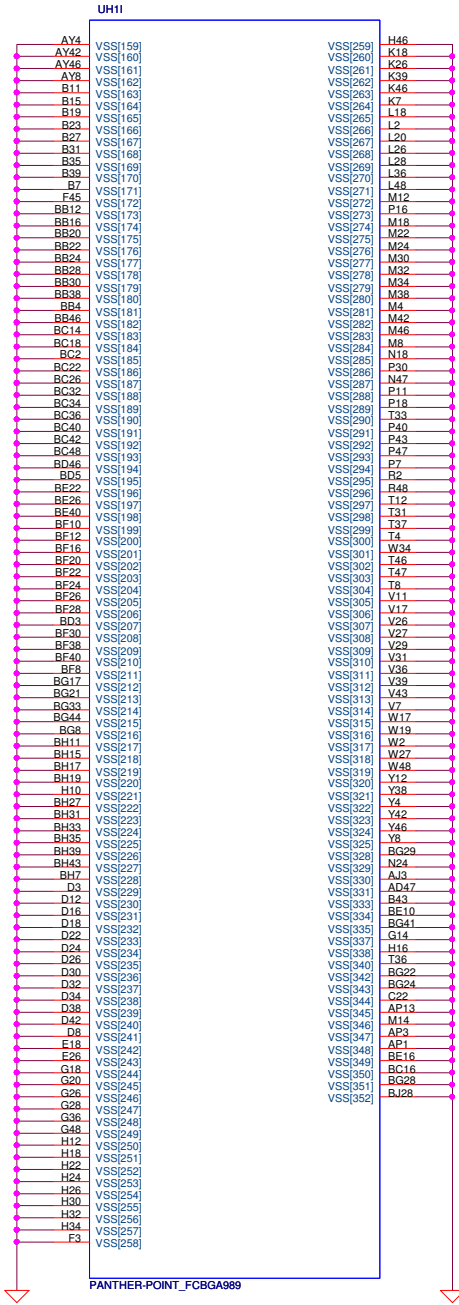
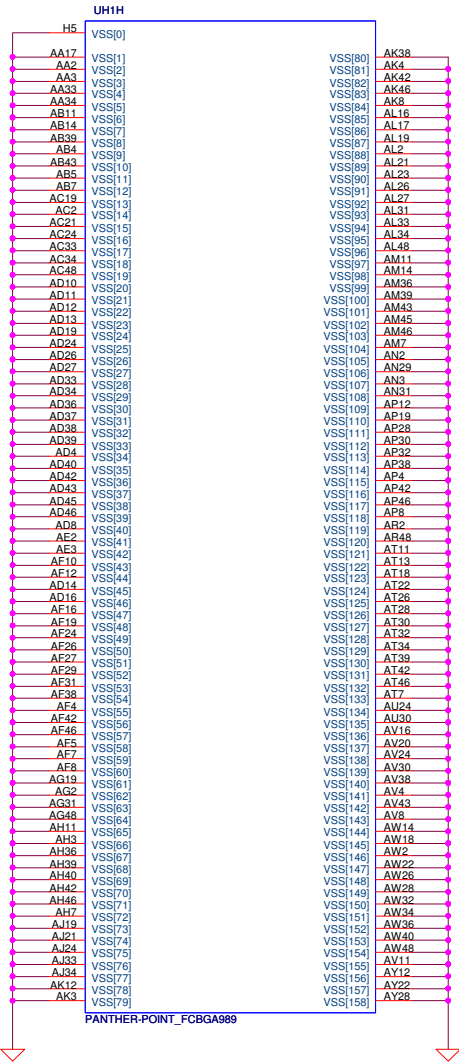


PCH_GPIO69	PCH_GPIO38	PCH_GPIO67	Function	GPU_ID
0	0	0	PX4.0	0
0	0	1	Reserved	1
0	1	0	DIS	2
0	1	1	UMA	3



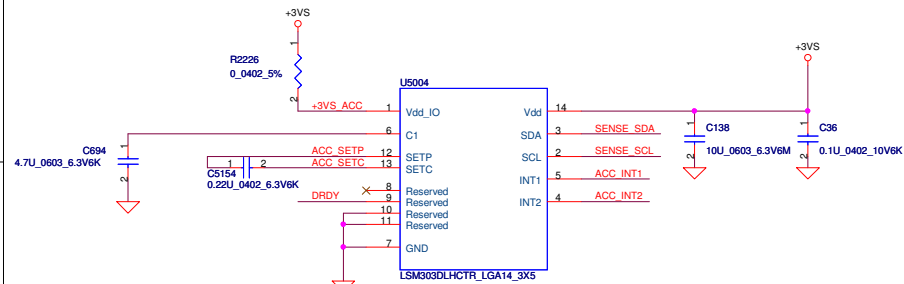
RAM_ID3	RAM_ID2	RAM_ID1	RAM_ID0	RAM
GPIO48	GPIO16	GPIO70	GPIO71	
0	0	0	0	ELPIDA 4GB
0	0	0	1	SAMSUNG 4GB
0	0	1	0	HYNIX 4GB
0	0	1	1	ELPIDA 8GB
0	1	0	0	SAMSUNG 8GB
0	1	0	1	HYNIX 8GB
0	1	1	0	ELPIDA 2GB
0	1	1	1	SAMSUNG 2GB
1	0	0	0	HYNIX 2GB
1	0	0	1	TBD
1	0	1	0	TBD
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1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



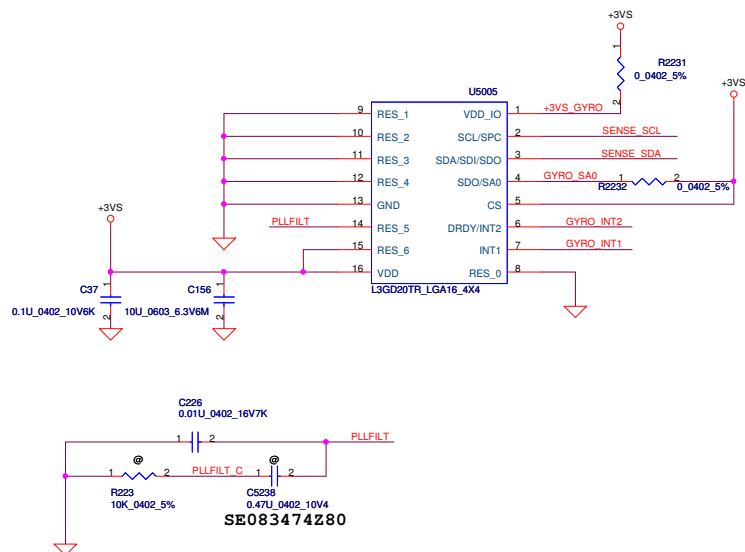


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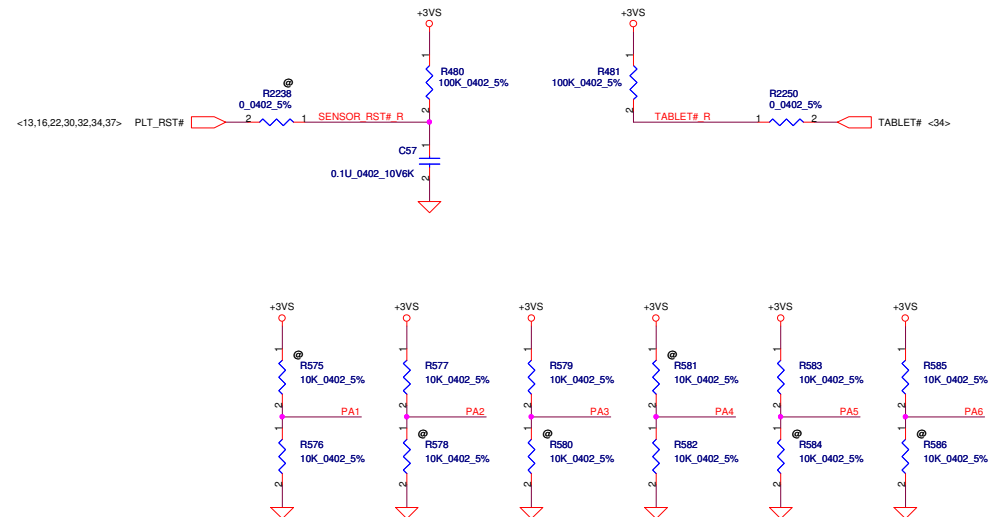
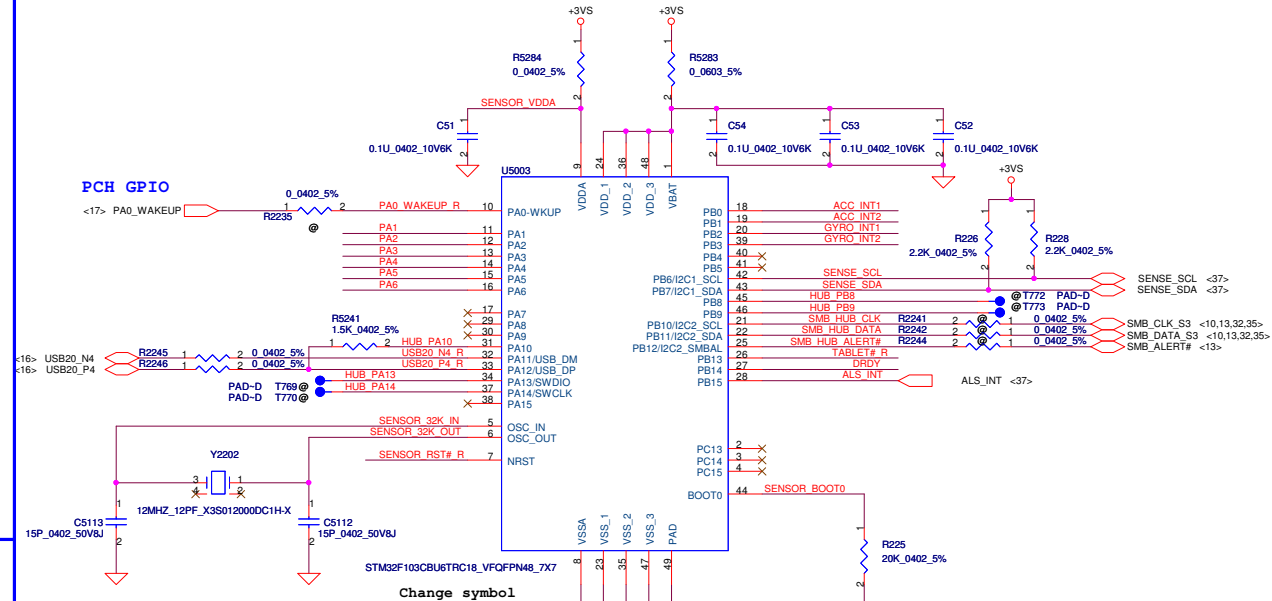
Accelerometer + eCompass



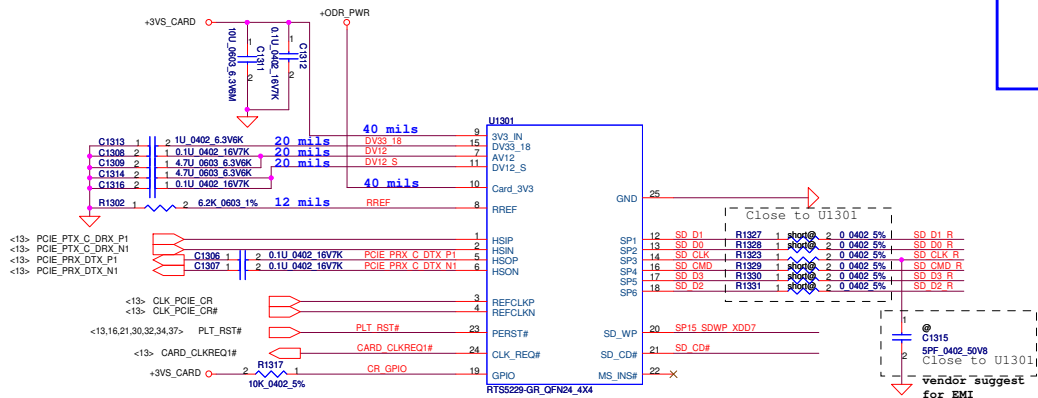
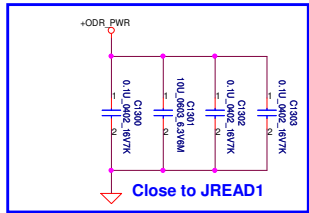
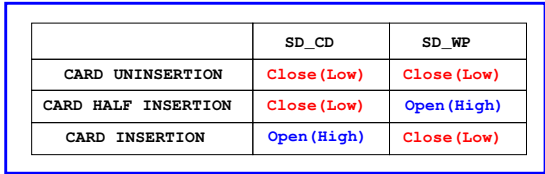
Gyro



Sensor Hub



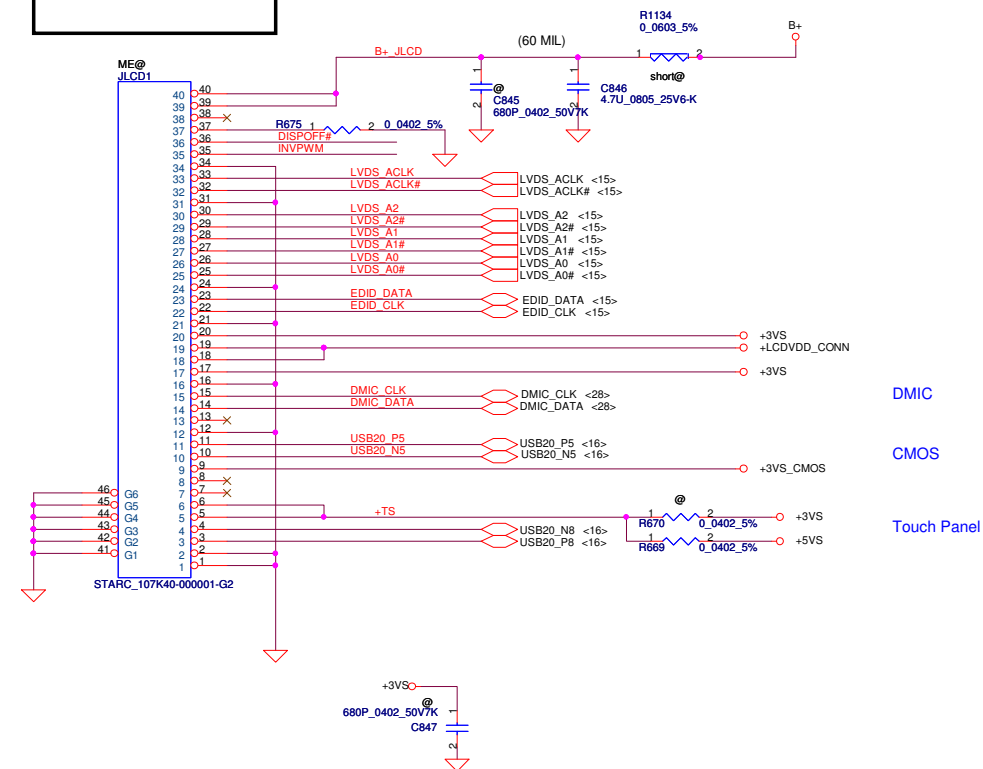
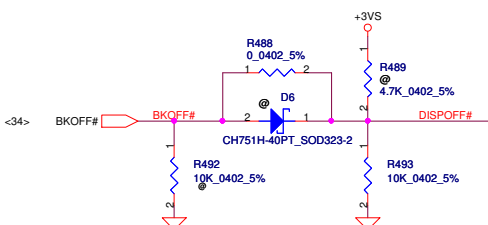
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				Size Custom	Document Number LA-8671P_SDV	Rev 1.0
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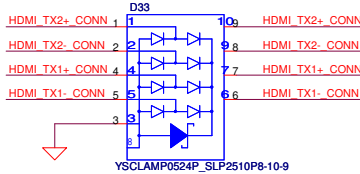
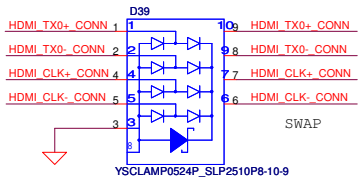
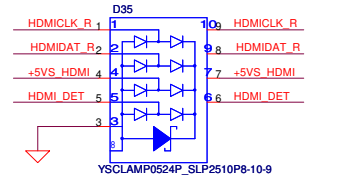
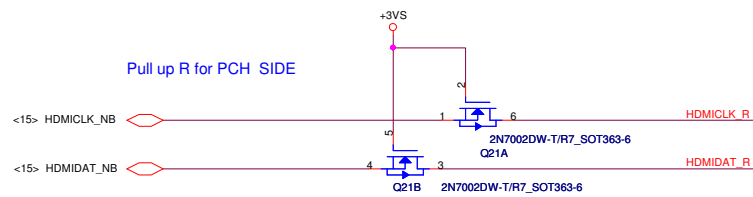
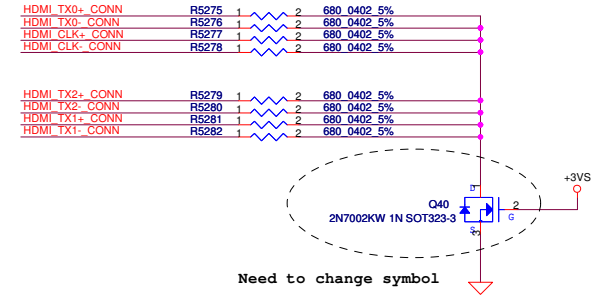
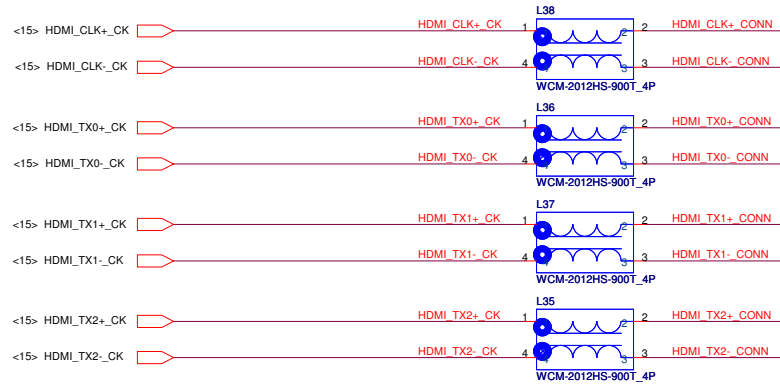
For GMCH DPST

For GMCH DPST

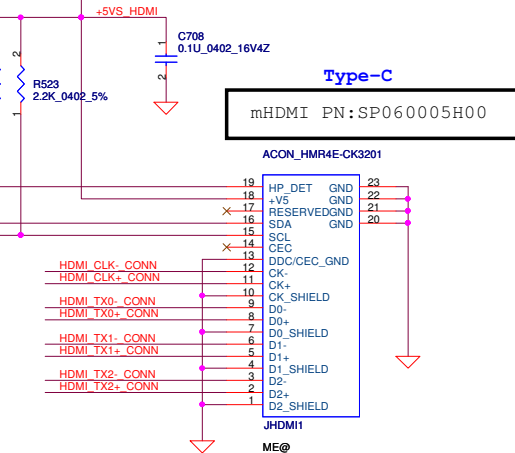
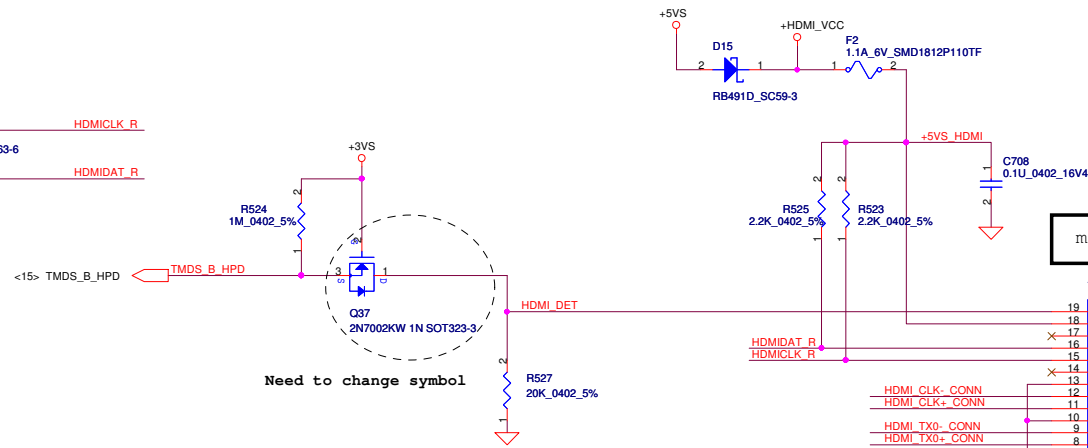


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				Date:	Friday, July 27, 2012	Sheet

PN:SM070001S00x 4

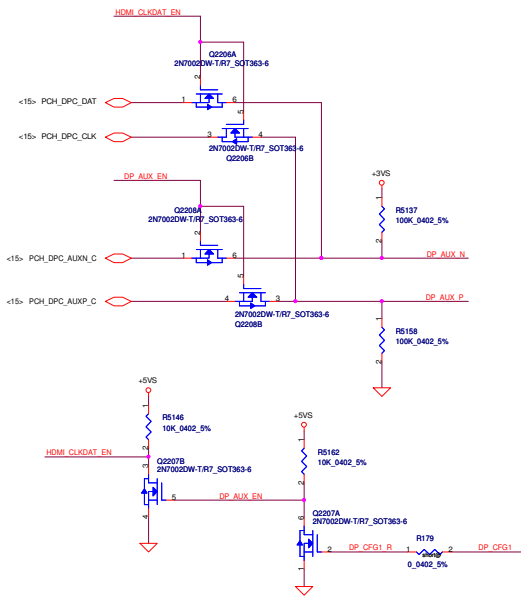
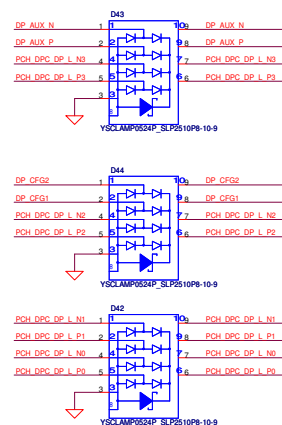
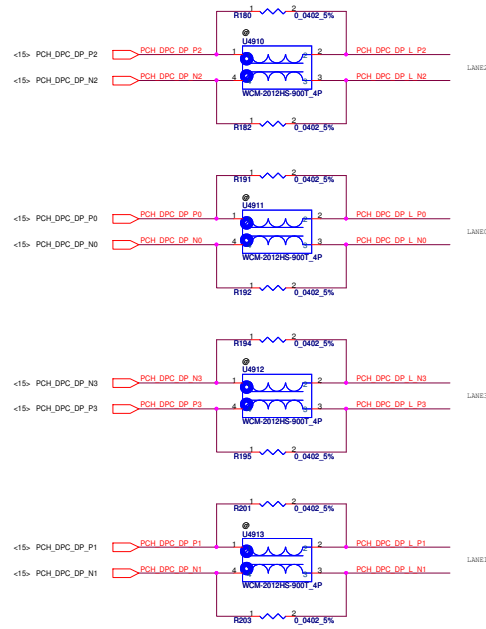


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2'SPN: SC300002800



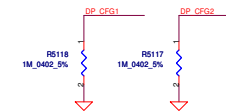
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Issued Date		2010/08/25	Deciphered Date	2012/08/25	Title	Mini-HDMI				
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					Custom	LA-8671P_SDV	1.0			
					Date:	Friday, July 27, 2012	Sheet	24	of	50

Close to JmDP1

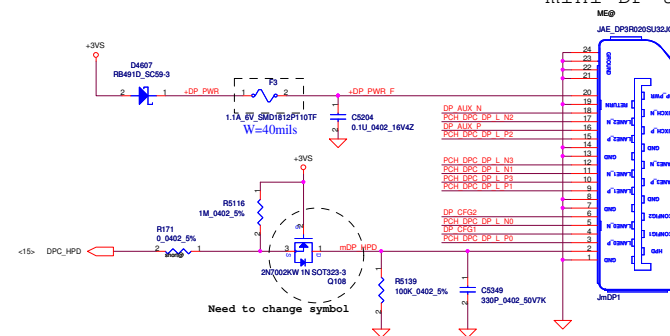


TBT, HDMI, DP mode table

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

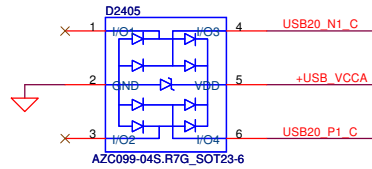
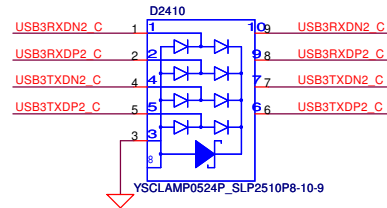


mini DP type



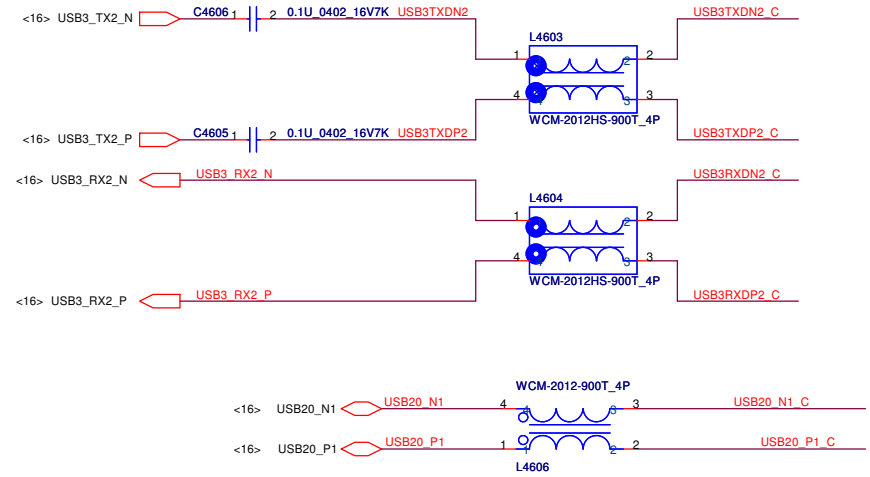
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Issued Date	2010/08/25	Deciphered Date	2012/08/25	mDP Connector		
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Date				Created	July 27, 2017	
				Sheet	26	of 60

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2'SPN: SC300002800

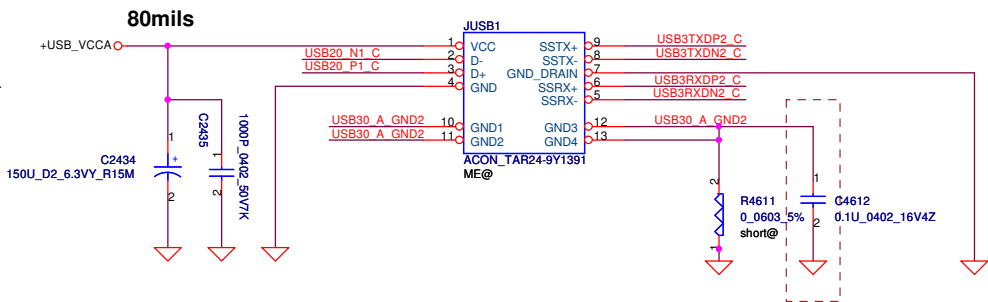
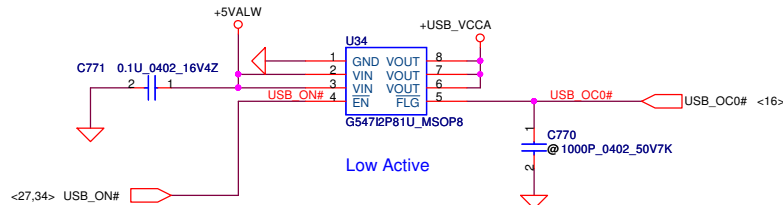


1'S PN: SC300001G00
2'S PN: SC300002E00

JUSB1USB3.0/USB2.0

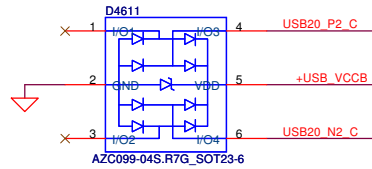
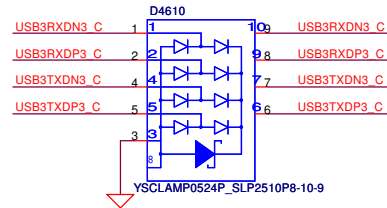


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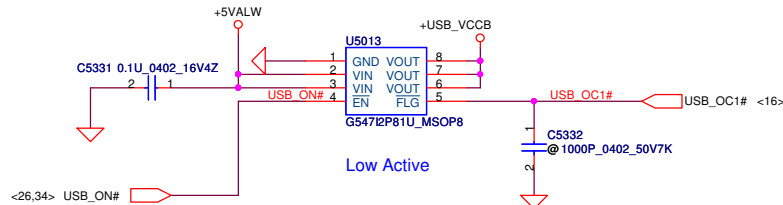


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						Size		Document Number		Rev	
						Custom		LA-8671P_SDV		1.0	
						Date:		Friday, July 27, 2012		Sheet 26 of 50	

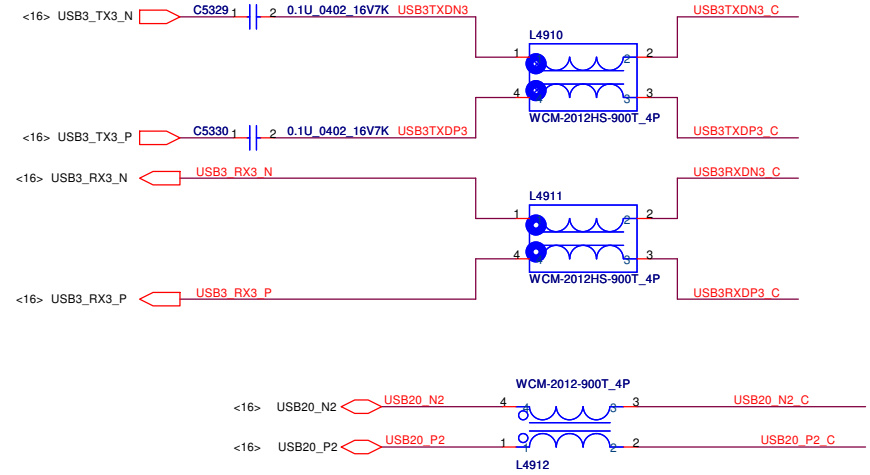
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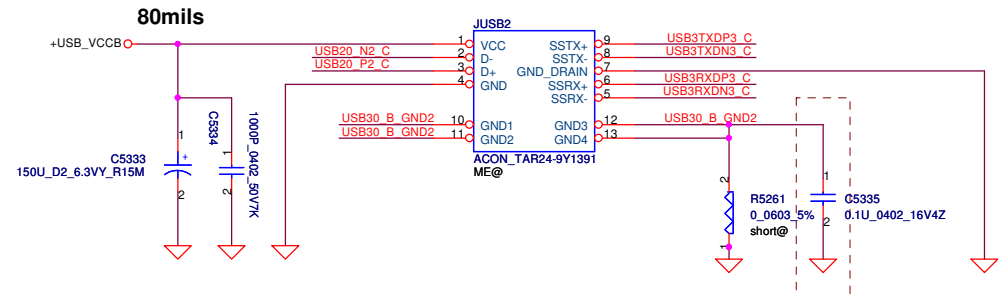
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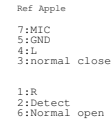


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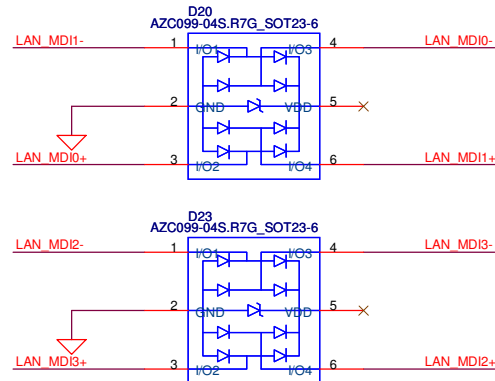
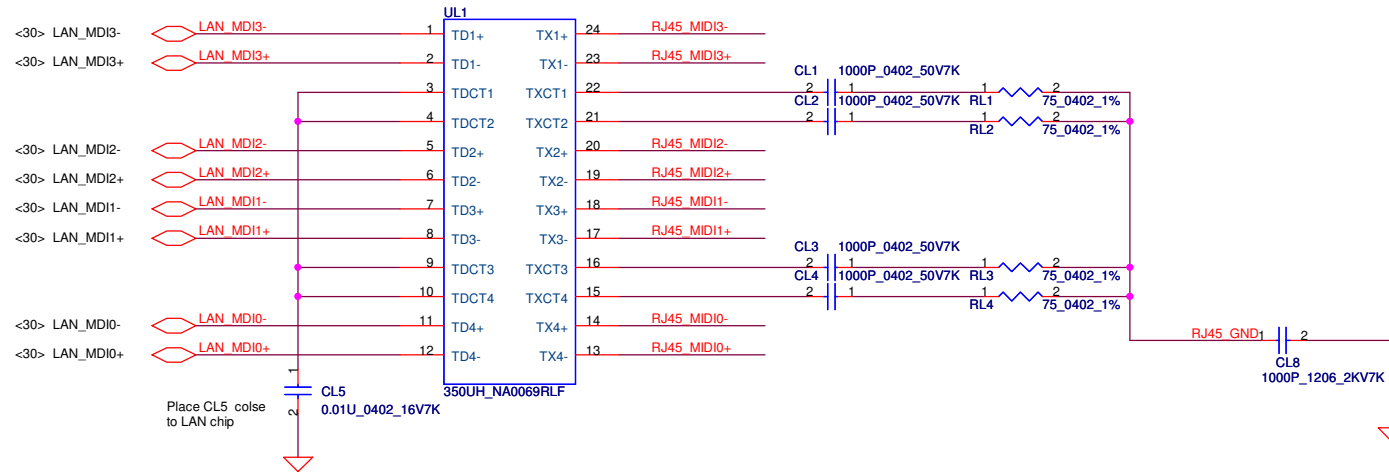
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						Custom		LA-8671P_SDV		1.0	
						Date:		Friday, July 27, 2012		Sheet 27 of 50	

Choose normal-open type!



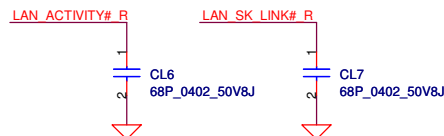
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Issued Date	2011/05/16	Deciphered Date	2013/05/16	Title	Combo Jack	
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Issued Date	2010/08/25	Deciphered Date	2012/08/25	Title LAN-RTL8111F			
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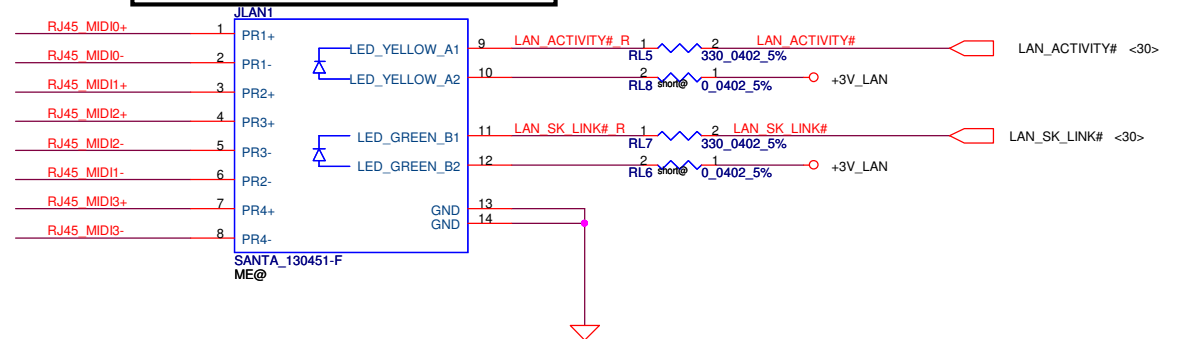
D20/D23
1'S PN:SC300001G00
2'S PN:SC300002E00

For EMI's request



DC234005300
LAN Conn.

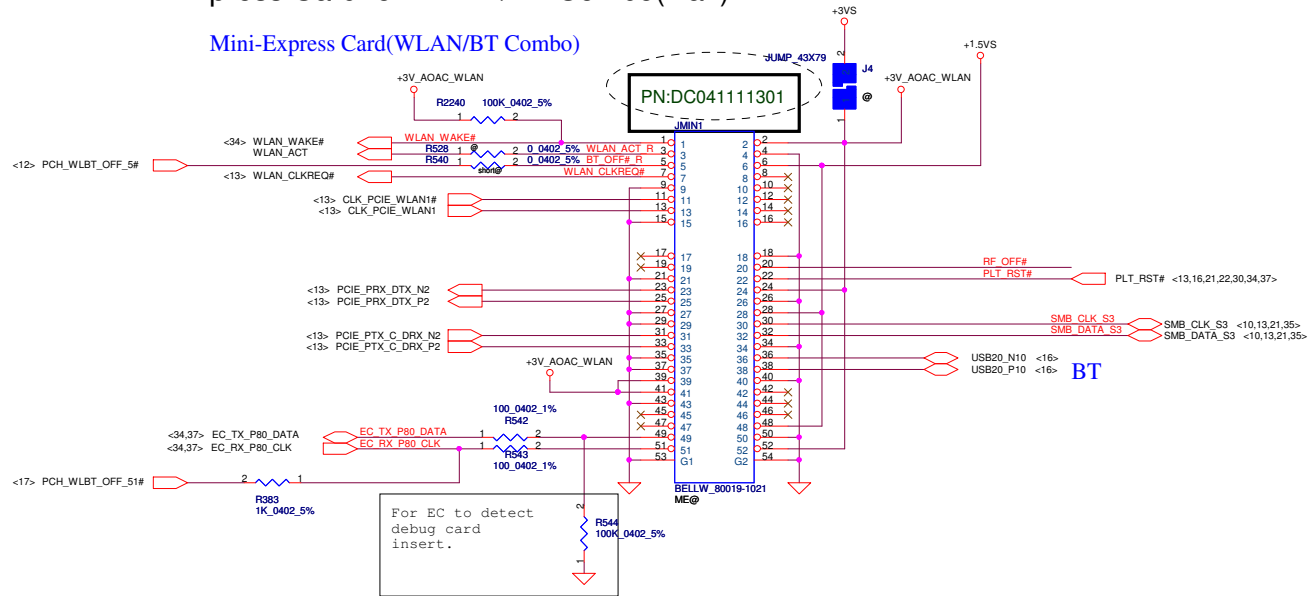
RL5,RL7 Vendor recommend 510 ohm



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				Size Custom	Document Number
				LA-8671P_SDV	
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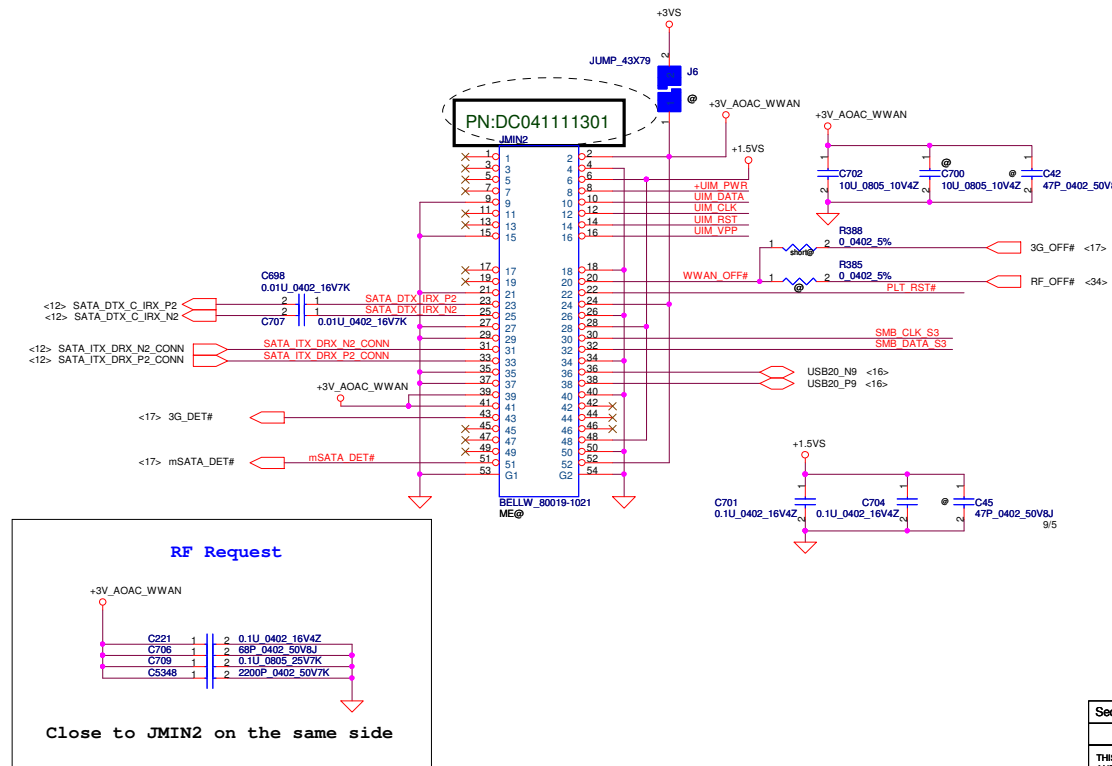
Mini-Express Card for WLAN/BT Combo(Half)

Mini-Express Card(WLAN/BT Combo)

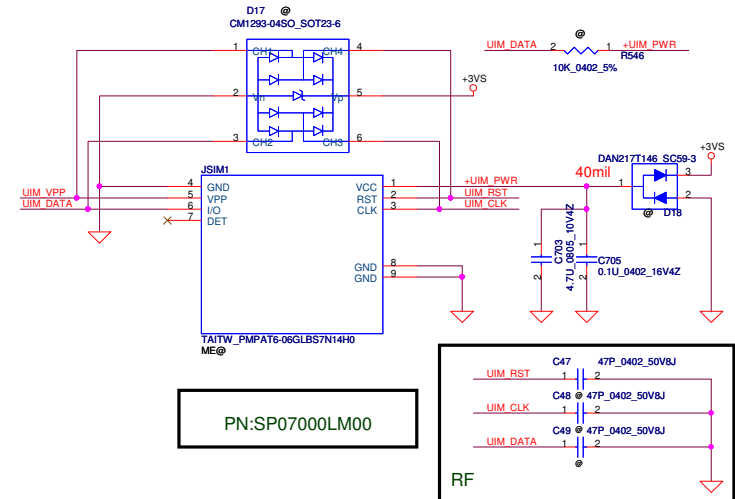
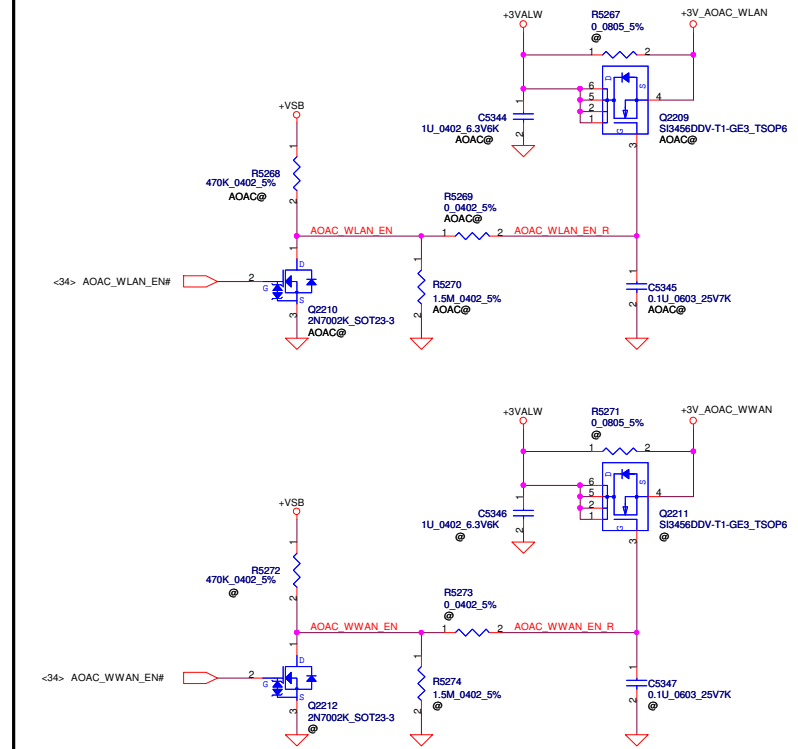


Mini-Express Card for WWAN/mSATA(Full)

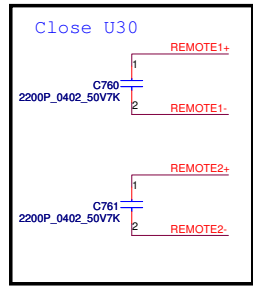
Mini-Express Card(WWAN 3G)



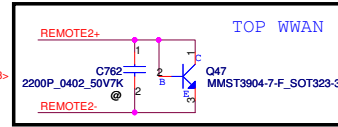
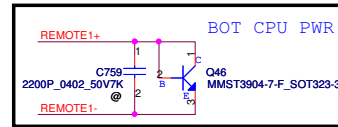
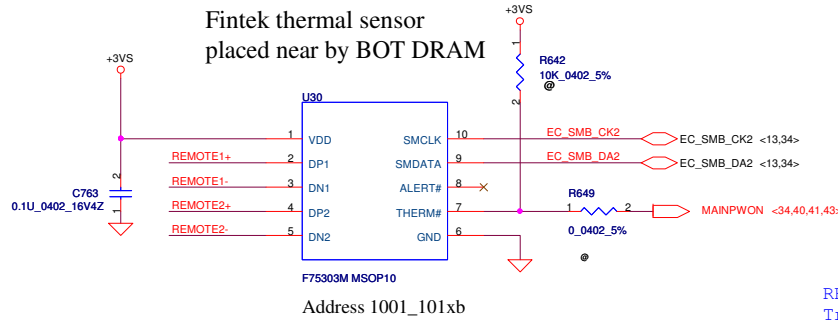
AOAC



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				Date	Friday, July 27, 2012
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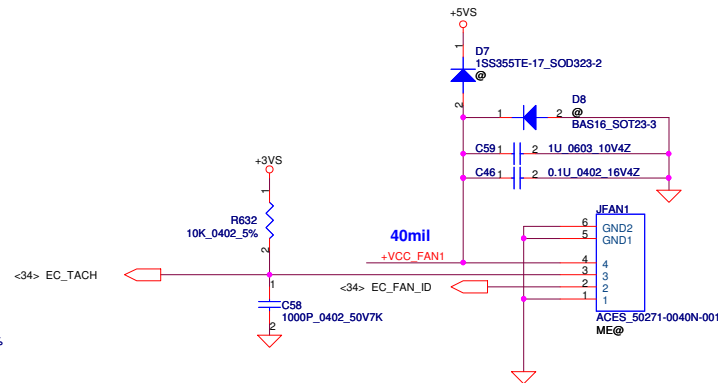
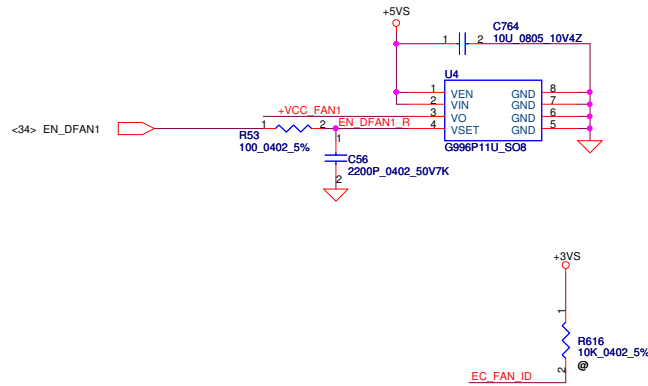


Fintek thermal sensor
placed near by BOT DRAM



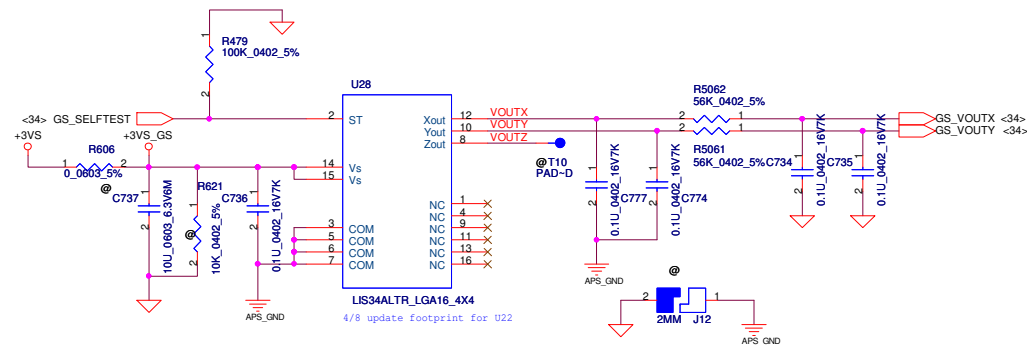
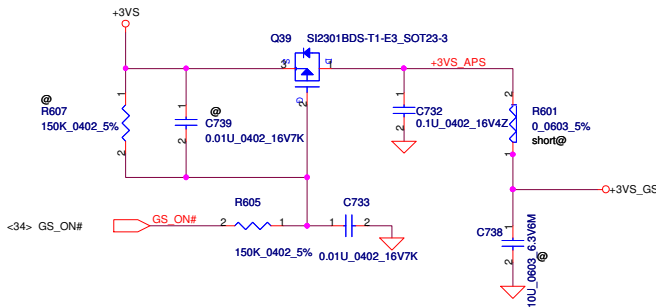
REMOTE1,2+/-:
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Trace length:<8"

FAN +5VS DROOP



SP02000TS00

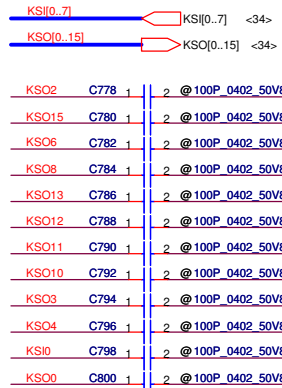
APS G-Sensor



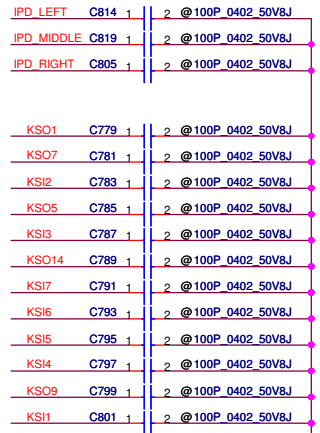
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			2012/08/25			Size		
						Custom		
						LA-8671P_SDV		
						Rev		
						1.0		
						Date: Friday, July 27, 2012		
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INT_KBD Conn.



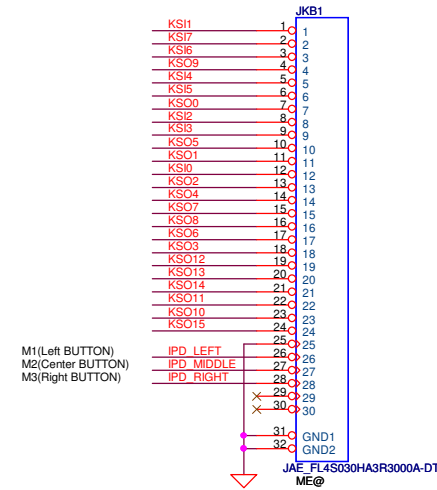
CONN PIN define need double check



Reserve for ESD.

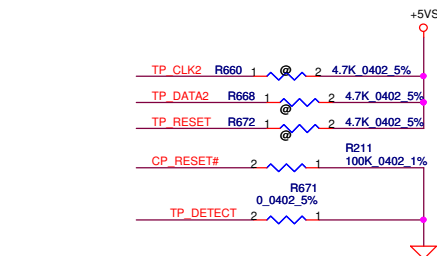
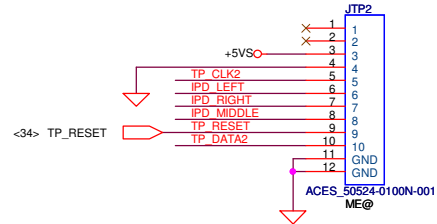
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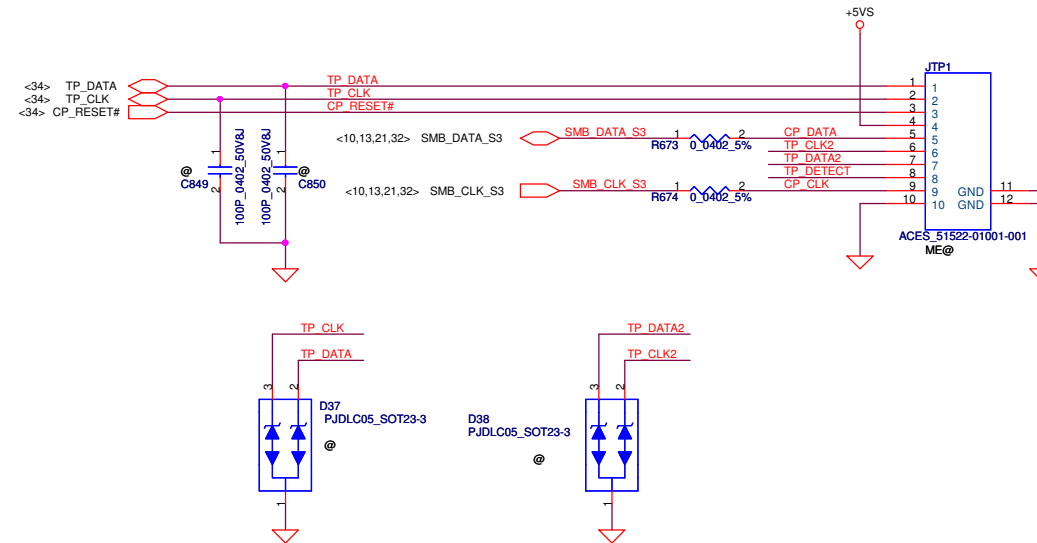
Track point

PN:SP01001CH00



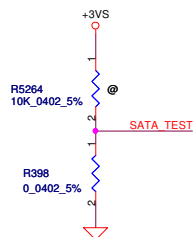
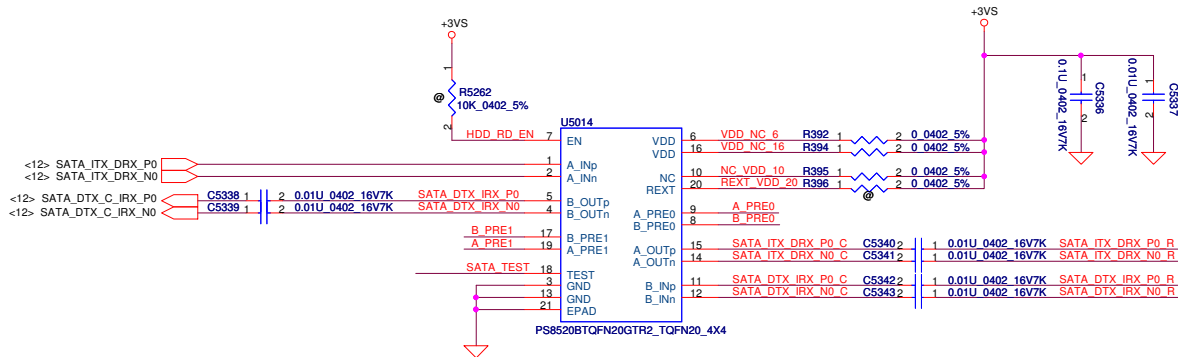
Click pad 10PIN

SP01001AL00

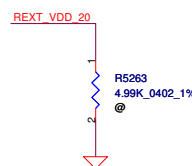


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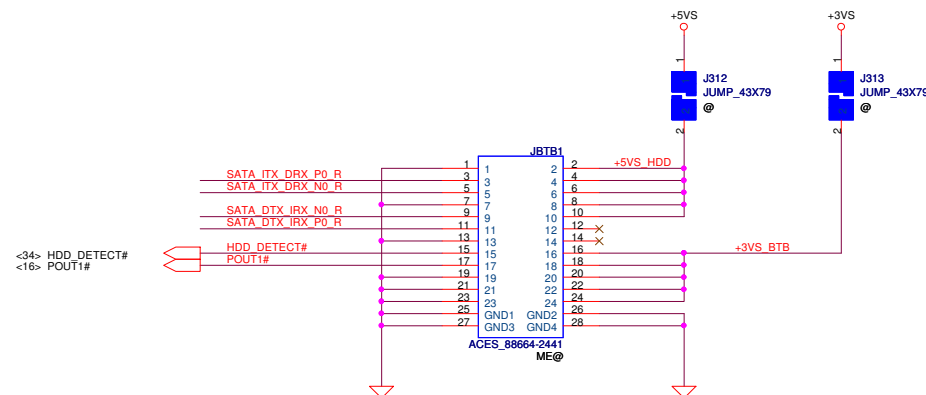
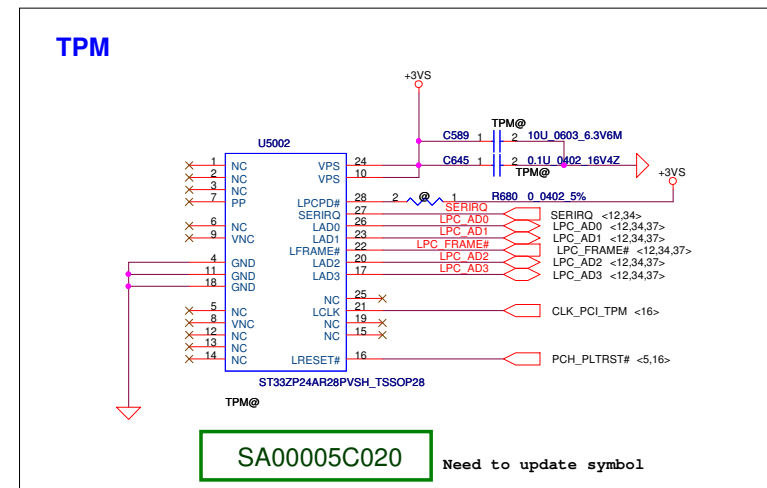


	TEST (Internal Low)
Normal Mode (Default)	LOW
Test Mode	HIGH



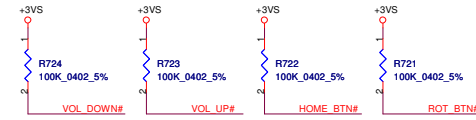
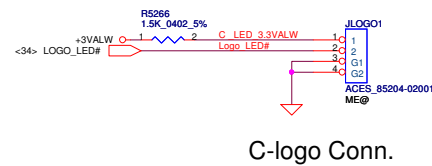
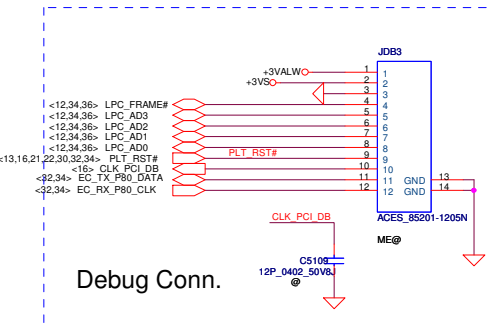
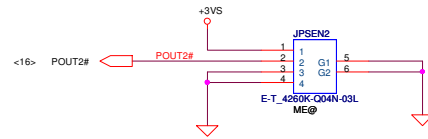
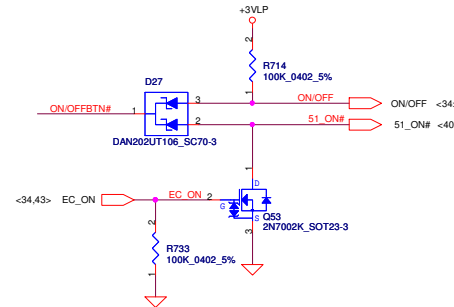
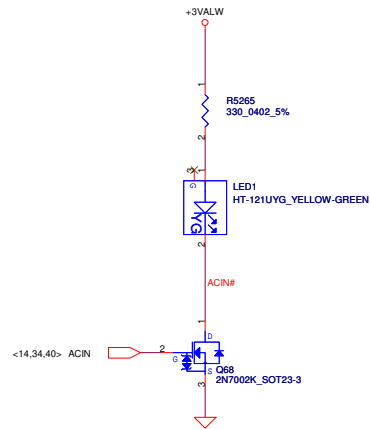
Remove pull-low

	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

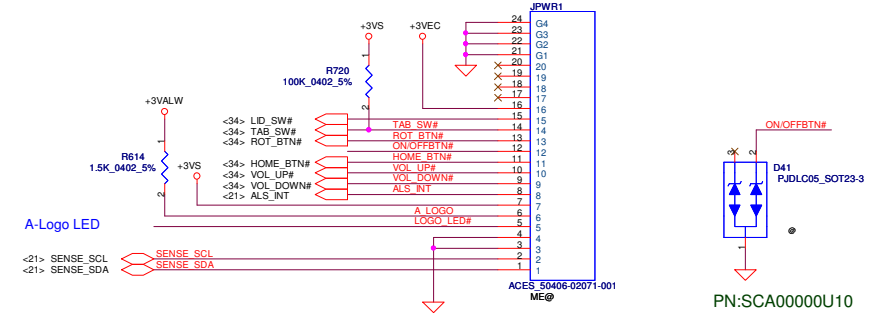


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Issued Date	2010/08/25	Deciphered Date	2012/08/25	HDD BTB Connector/TPM		
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				Date:	Friday, July 27, 2012	Sheet 36 of 50

AC-IN LED (Color : Green)

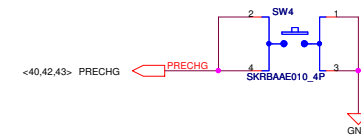


SP010016L00



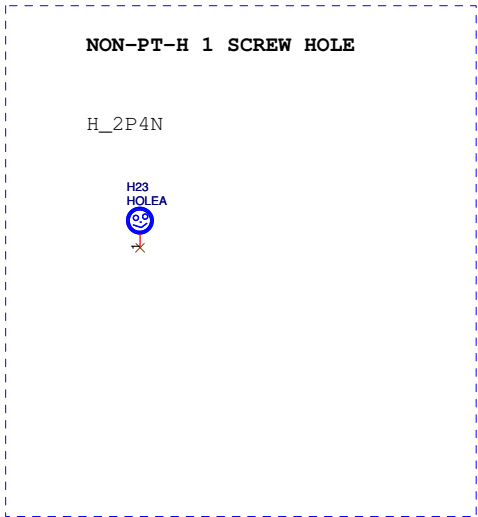
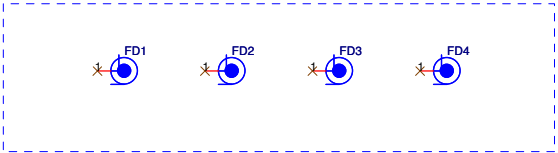
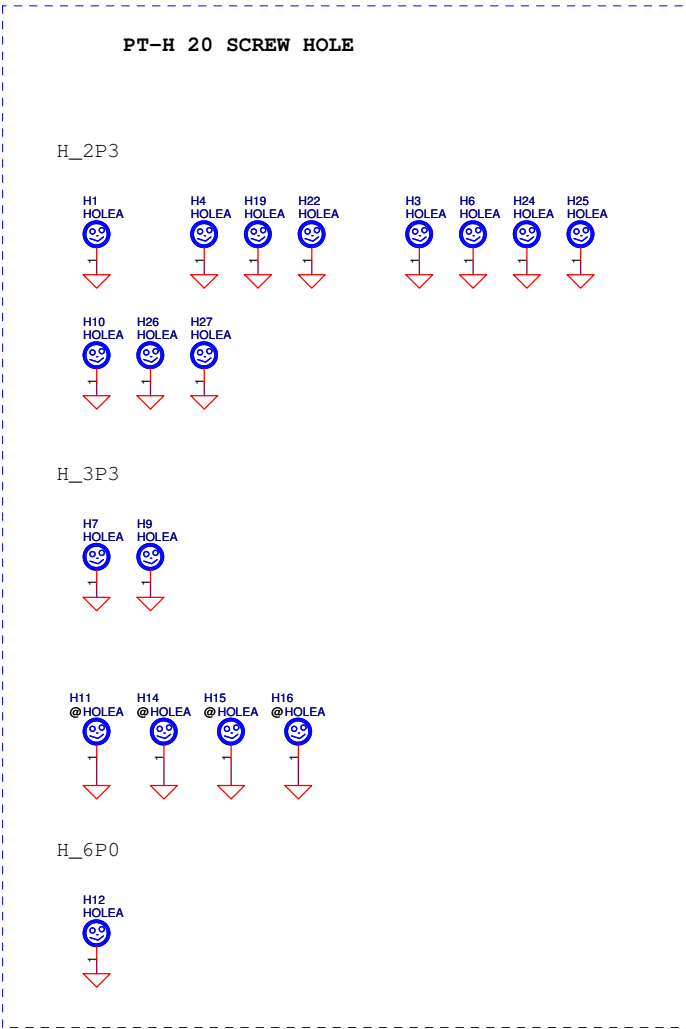
Power Board connector

BOTTOM SIDE
SN111005800 by ME drawing

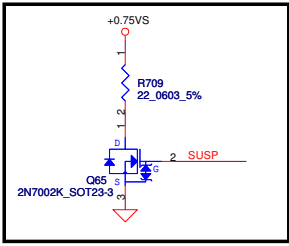
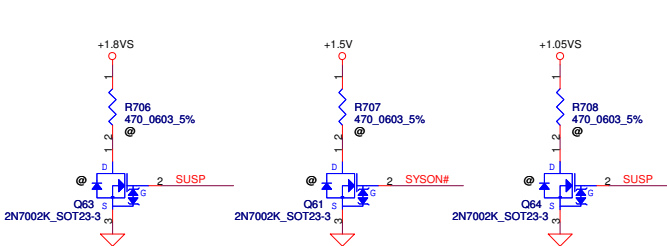
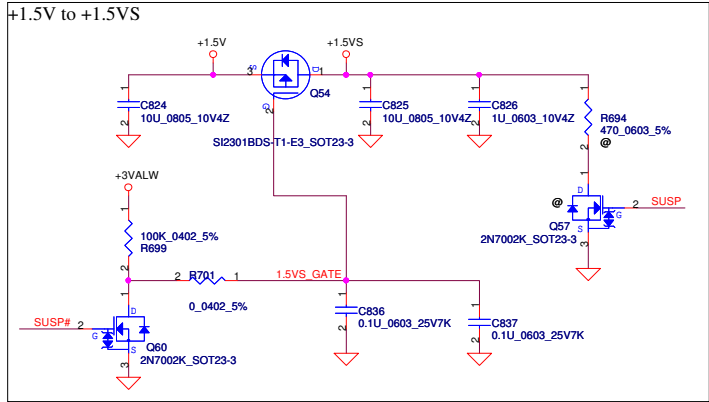
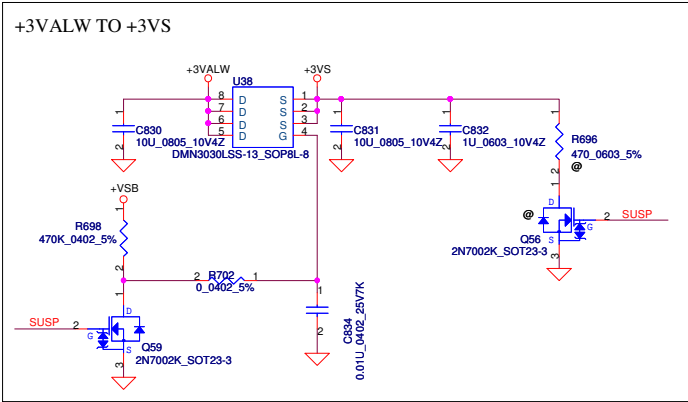
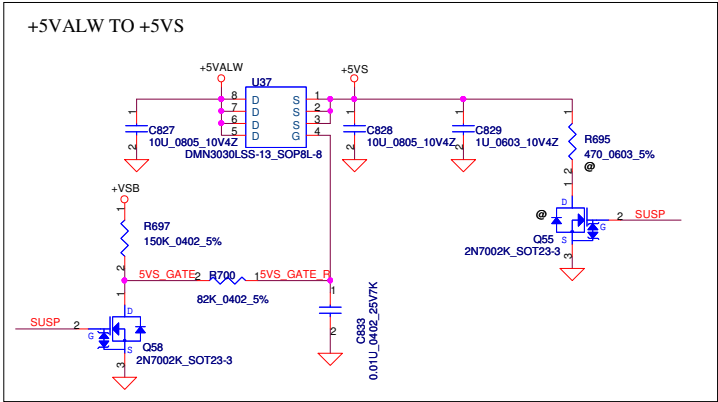


For Power Reset

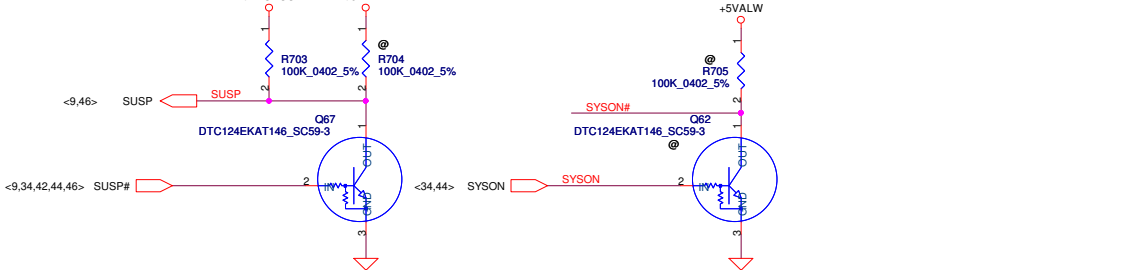
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Issued Date	2010/08/25	Deciphered Date	2012/08/25	other IO connector	
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For Intel S3 Power Reduction.

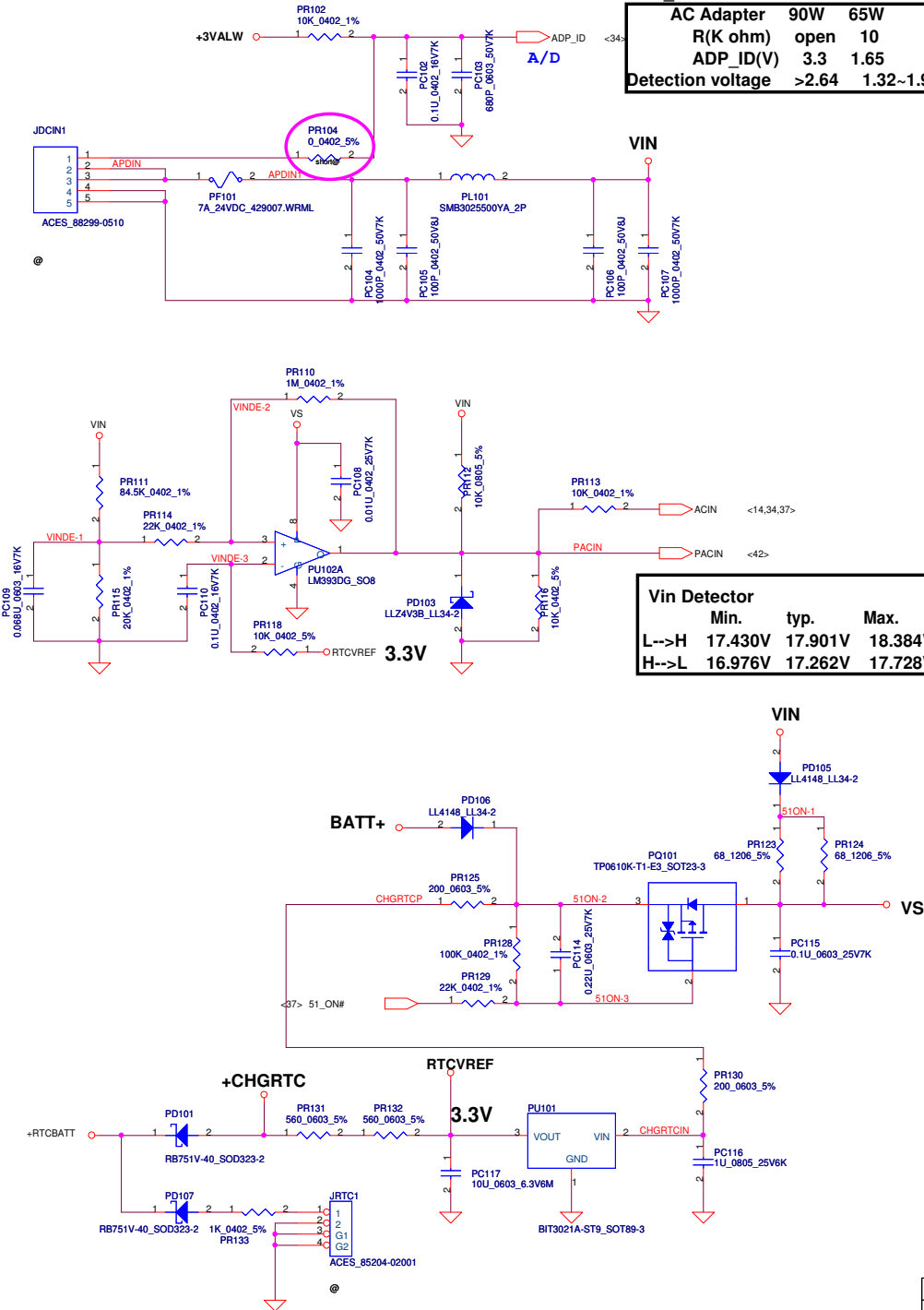


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Size		Document Number		Rev	
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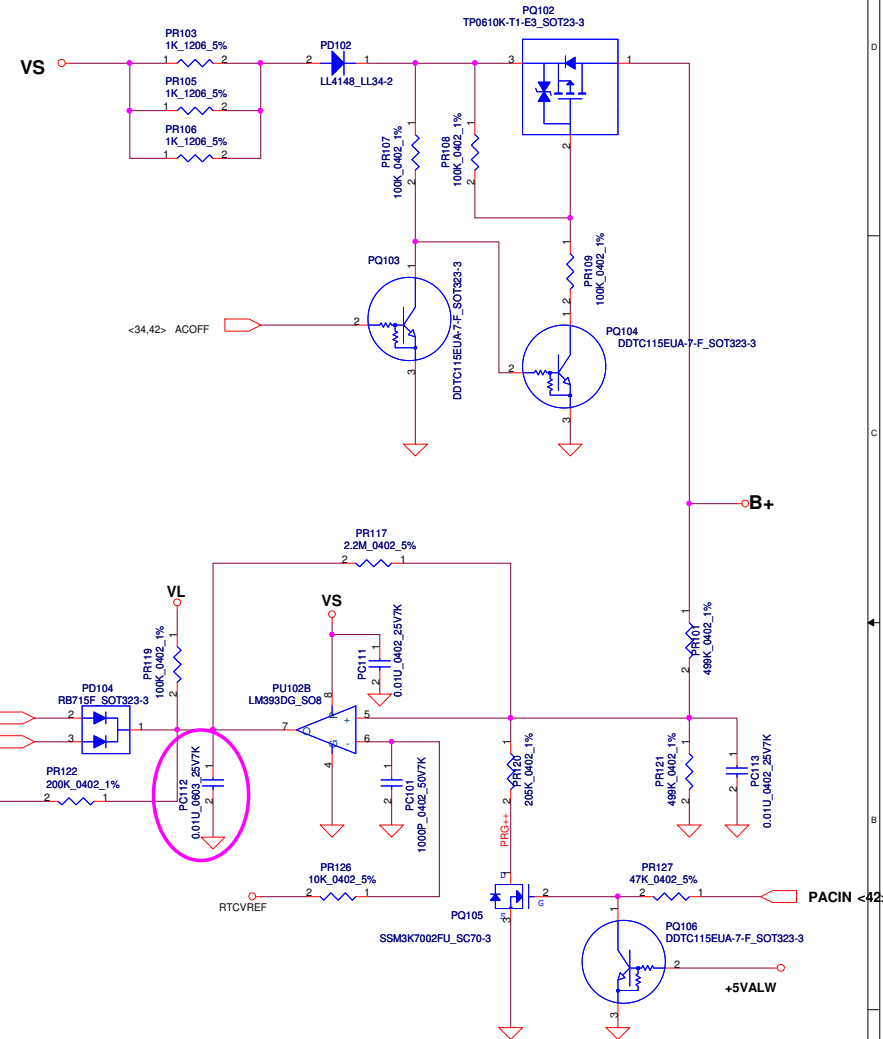
ADP_ID

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

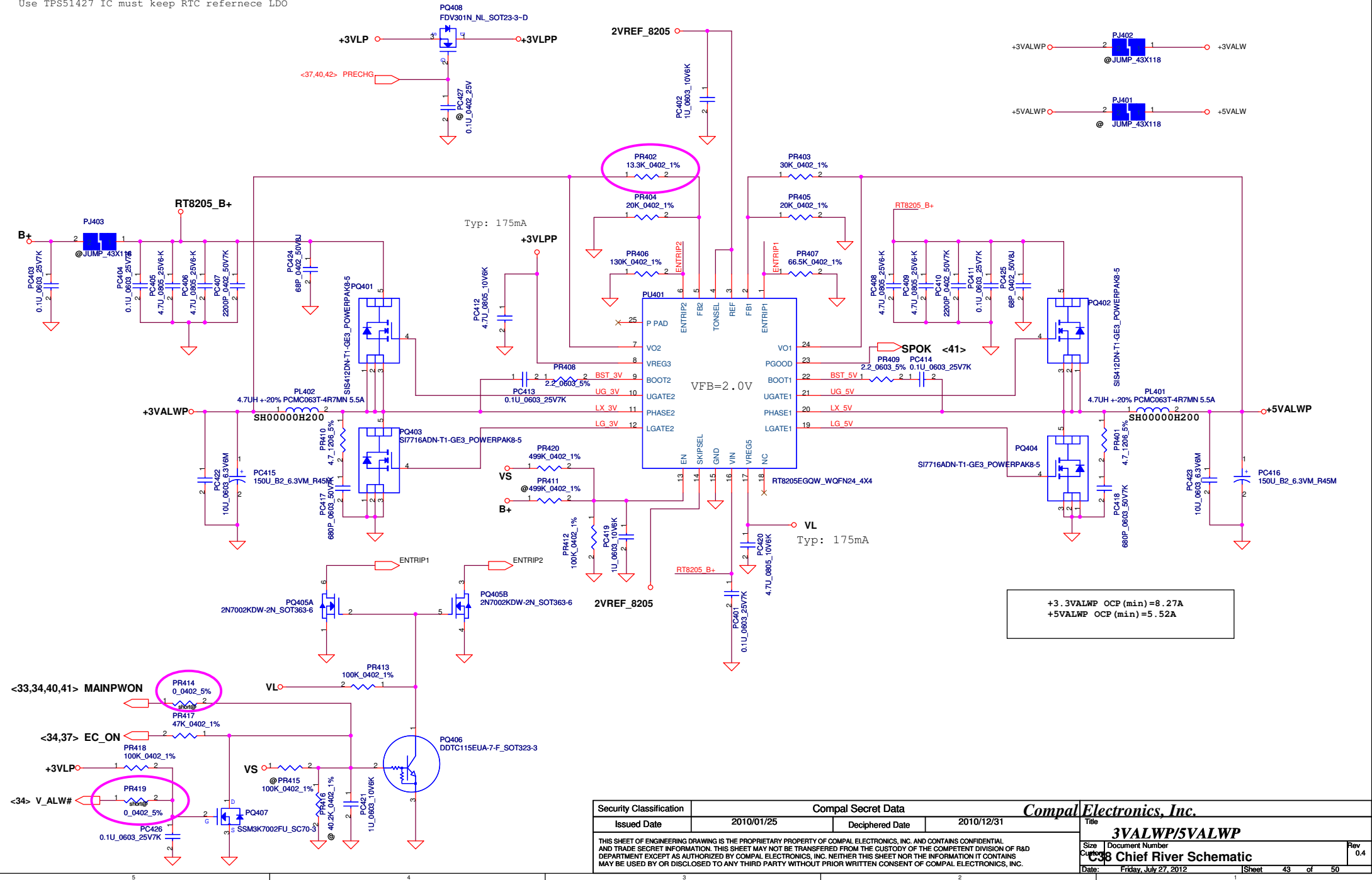
Precharge detector	Min.	typ.	Max.
L-->H	14.991V	15.381V	15.782V
H-->L	13.860V	14.247V	14.621V

BATT ONLY

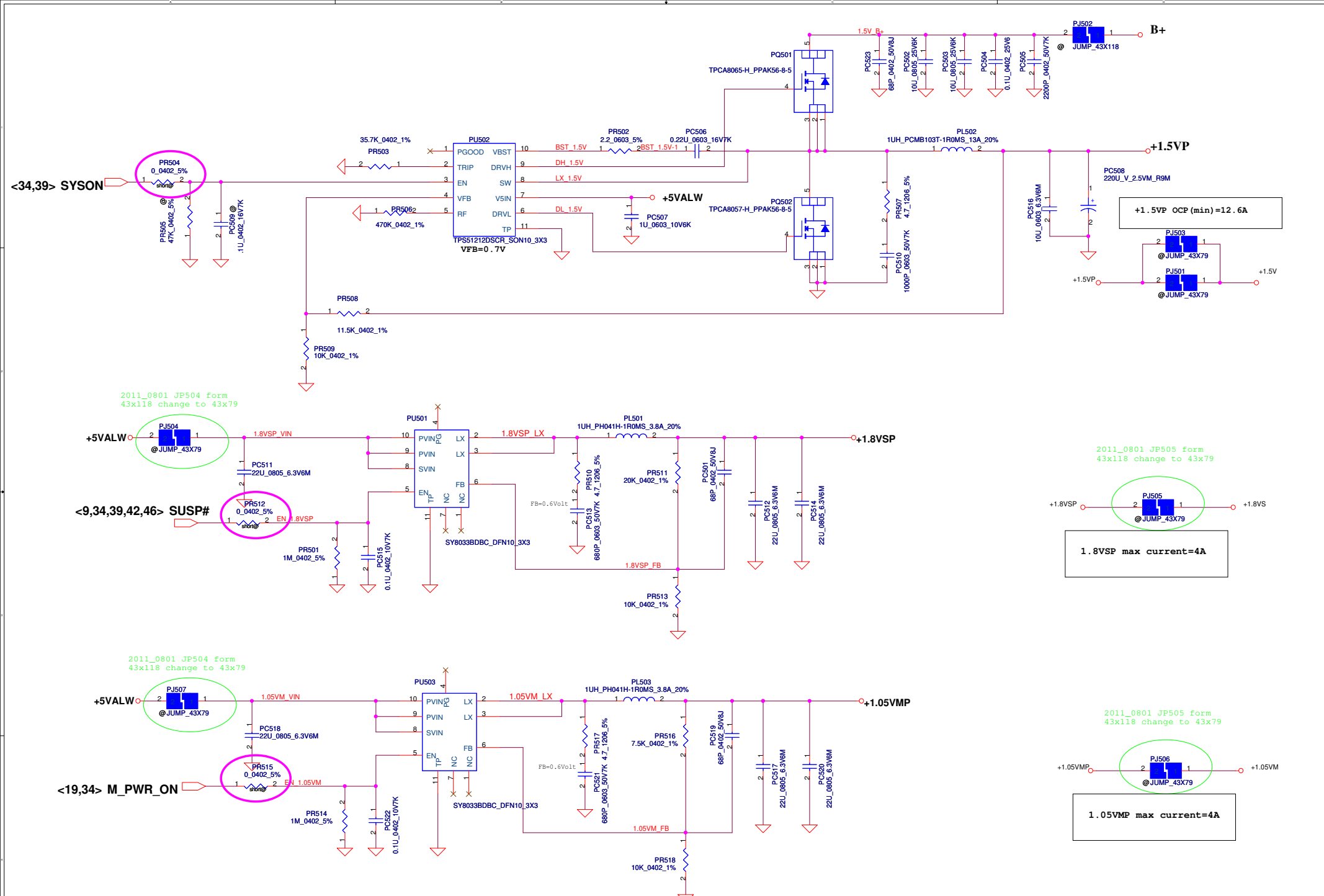
Precharge detector	Min.	typ.	Max.
L-->H	7.196V	7.349V	7.505V
H-->L	6.138V	6.214V	6.056V

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Note:
Use TPS51125 IC can remove RTC refernece LDO
Use TPS51427 IC must keep RTC refernece LDO

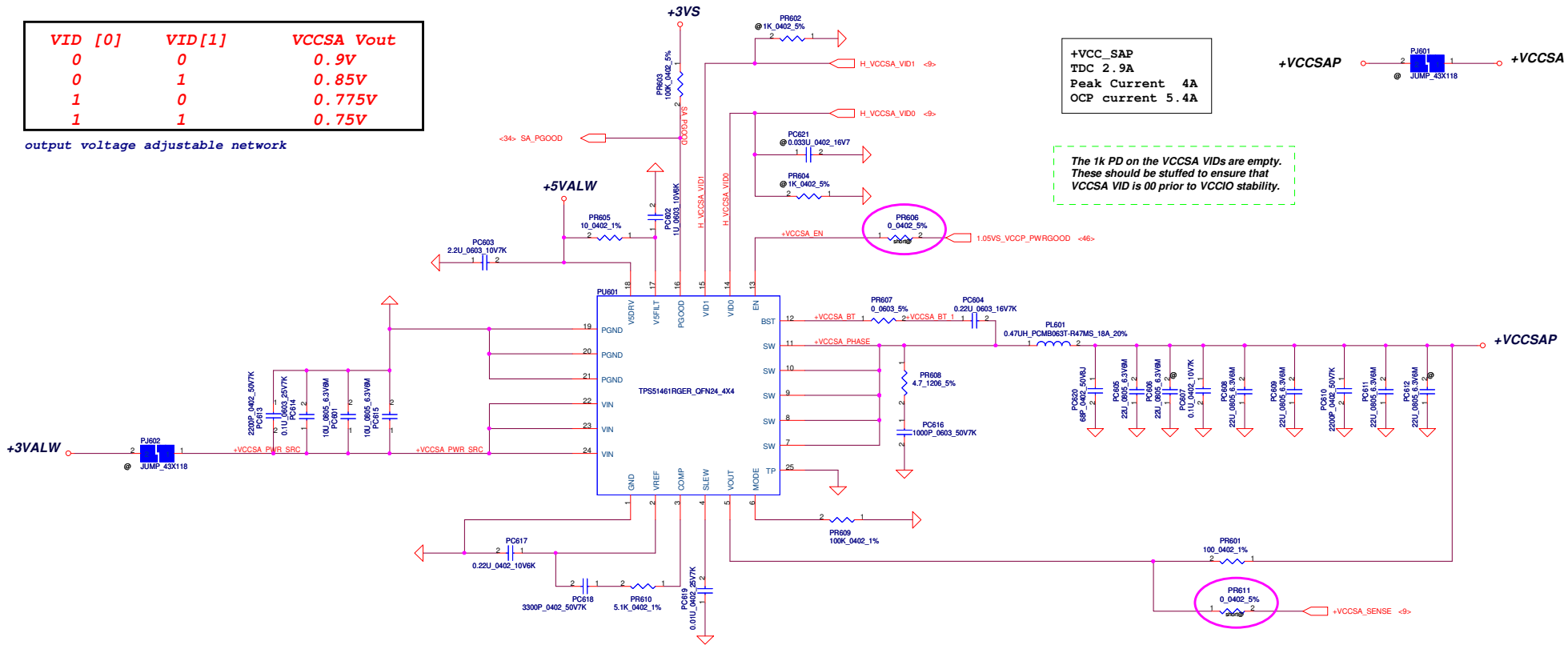


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						Size	Document Number	Rev	0.4
						Customer	C38 Chief River Schematic		
						Date	Friday, July 27, 2012	Sheet	43 of 50
						1	2	3	4
						5	6	7	8
						9	10	11	12
						13	14	15	16

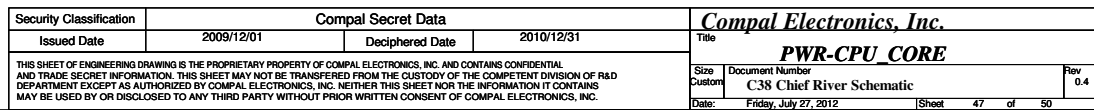


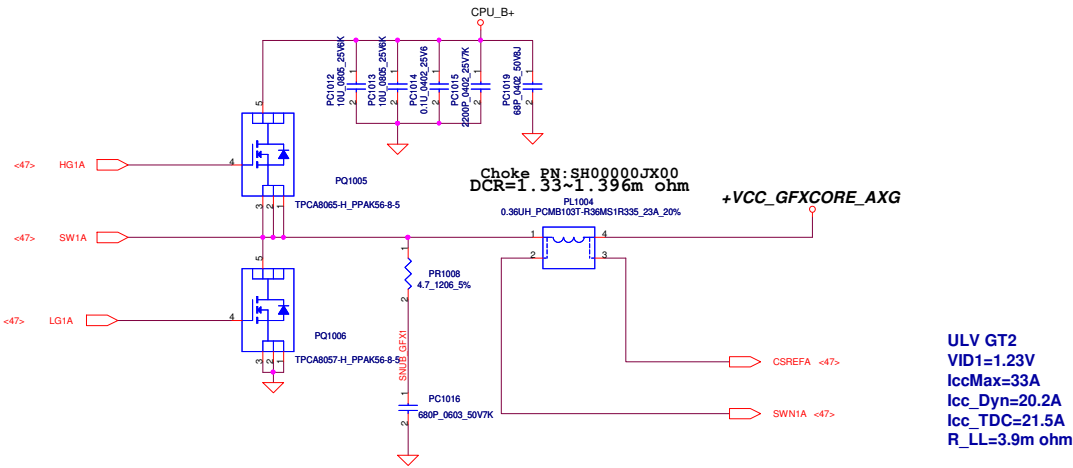
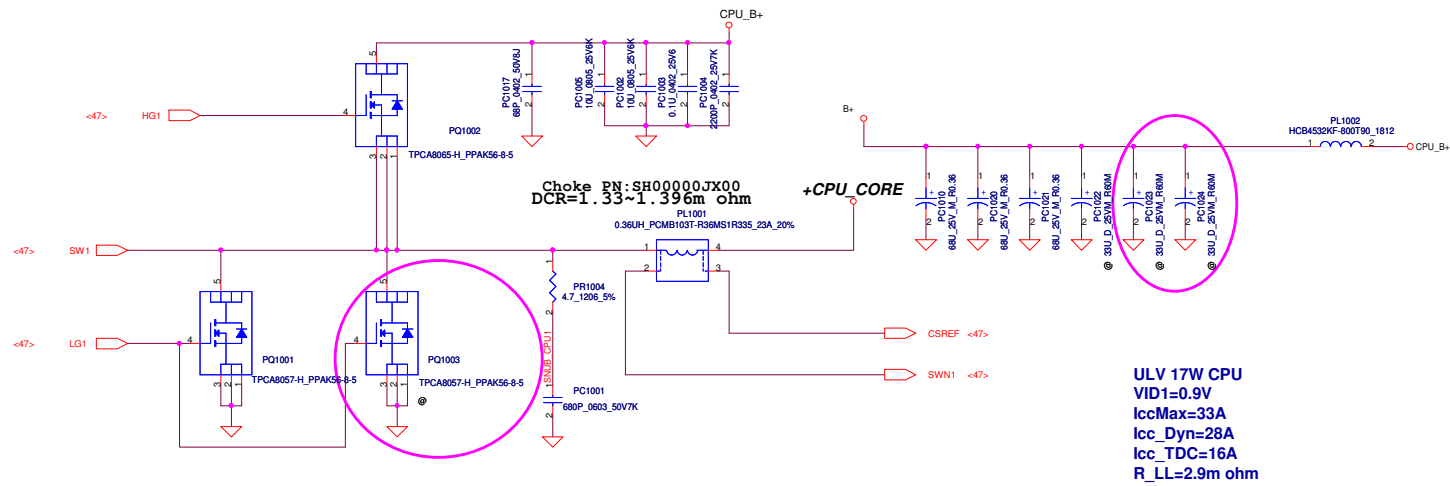
VID [0]	VID[1]	VCCSA Vout
0	0	0.9V
0	1	0.85V
1	0	0.775V
1	1	0.75V

output voltage adjustable network

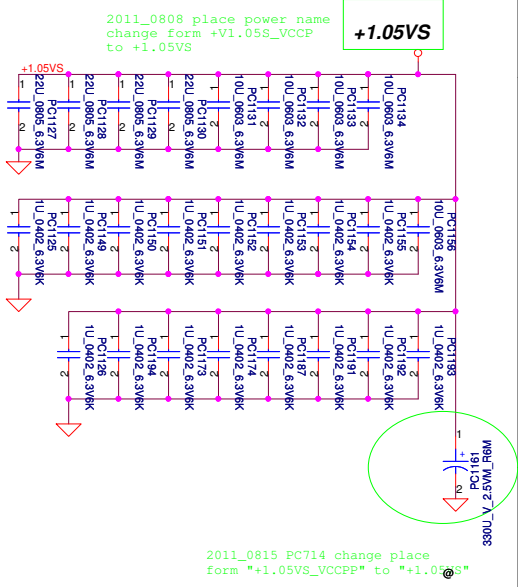
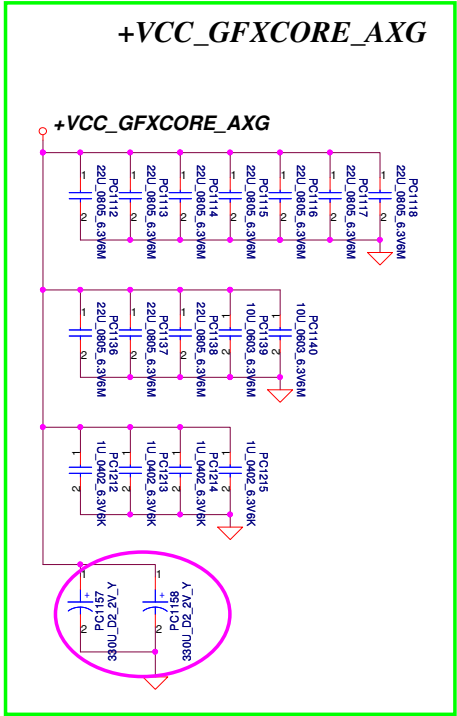
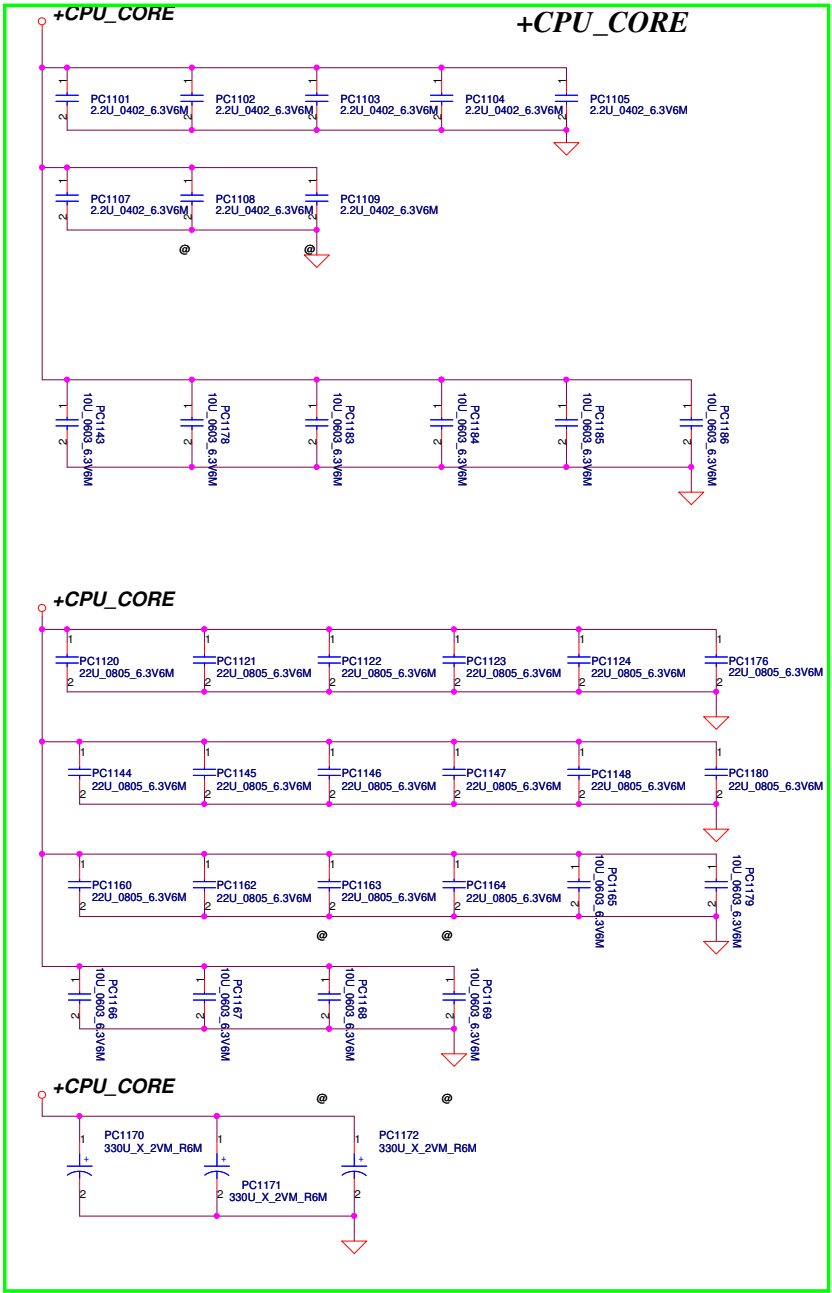


2011_0801 del +V1.05S_VCCPP circuit





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Size	Custom	Document Number	C38 Chief River Schematic	Rev 0.4
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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 verfy 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					
6					
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				Size	Document Number	Rev
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