

# Plano Intel 11.6" Schematics Document

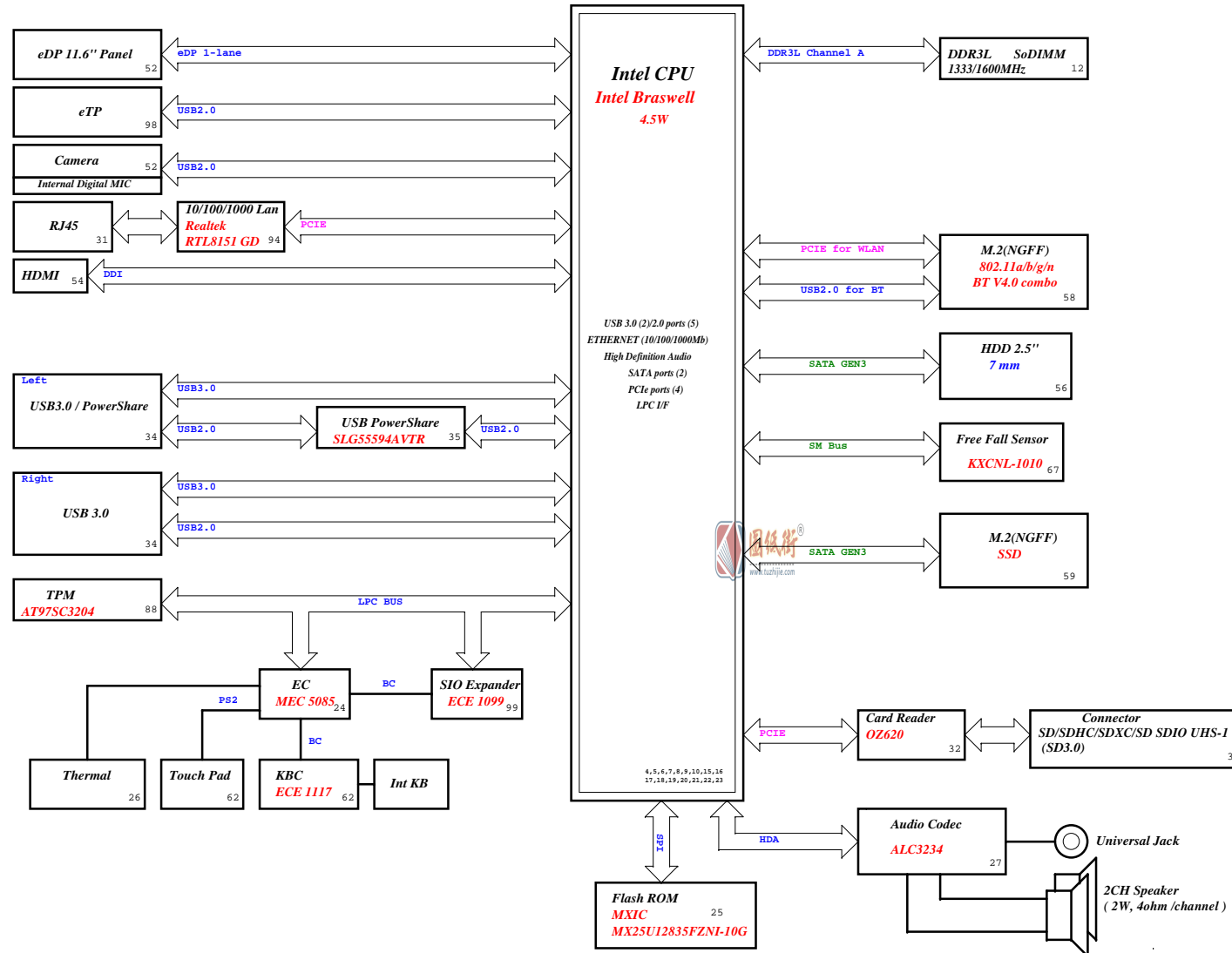
## Braswell

2015-04-24  
REV : A00

*DY : None Installed*  
*XDP: For CPU XDP Debug Port installed*  
*PCH\_XDP: For PCH XDP Debug Port installed*

# Plano 11.6" Block Diagram

Project code : 4PD03Y010001  
PCB P/N : 13329  
Revision : 2



<b>CHARGER</b> BQ24715		44
<b>INPUTS</b>	<b>OUTPUTS</b>	
AD+ BT+	DCRATOUT	
<b>SYSTEM DC/DC</b> TPS51225		45
<b>INPUTS</b>	<b>OUTPUTS</b>	
3D3V_AUX_S5 3D3V_SS7	DCRATOUT 5V_SS	
<b>CPU DC/DC</b> RT8199BGW*2		46-48
<b>INPUTS</b>	<b>OUTPUTS</b>	
DCRATOUT	VCC_CORE0 GFX_CORE	
<b>SYSTEM DC/DC</b> SY8206DQNC & RT8068		50
<b>INPUTS</b>	<b>OUTPUTS</b>	
DCRATOUT 3D3V_S5	ID05V_S5 ID15V_S5	
<b>SYSTEM DC/DC</b> SY8206DQNC & APL5338		49
<b>INPUTS</b>	<b>OUTPUTS</b>	
DCRATOUT ID33V_S3	ID05V_S5 ID24V_S5 DDR_VREF_S3	
<b>SYSTEM DC/DC</b> S-1339D15-M5001 RT9043GB & SYW232		51
<b>INPUTS</b>	<b>OUTPUTS</b>	
3D3V_S5	ID5V_S0 ID24V_S5 ID8V_S5	
<b>Load Switches</b>		36
<b>INPUTS</b>	<b>OUTPUTS</b>	
5V_S5 3D3V_S5	5V_S0 3D3V_S0 3D3V_LAN 3D3V_S5_PRIME ID8V_S0	
<b>PCB LAYER(FR4-6 Layer)</b>		
L1:Top L2:PWR/GND L3:Signal L4:Signal L5:PWR/GND L6:Bottom		



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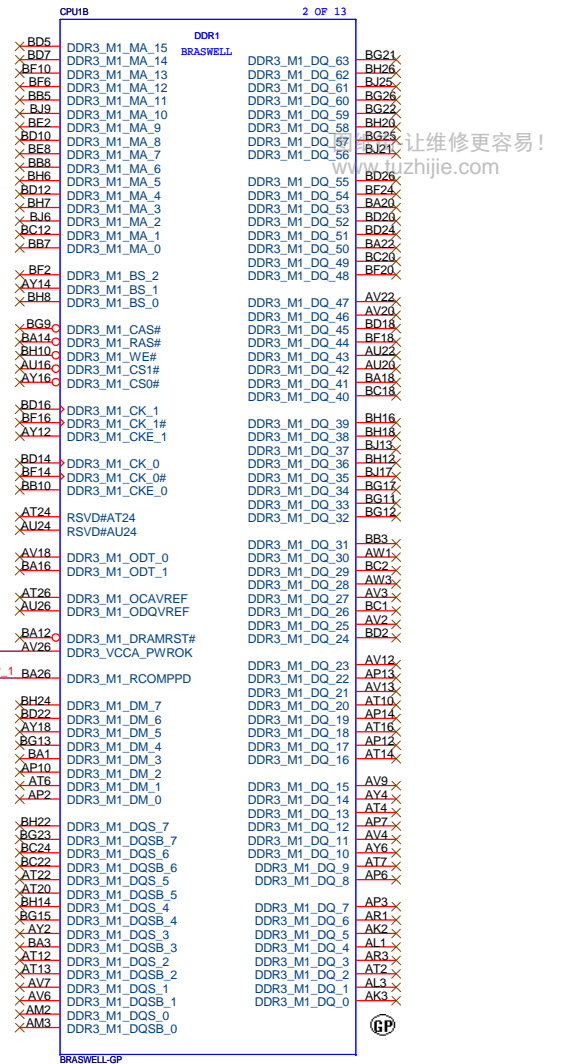
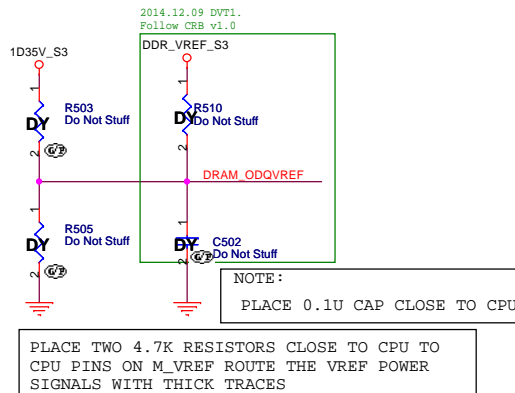
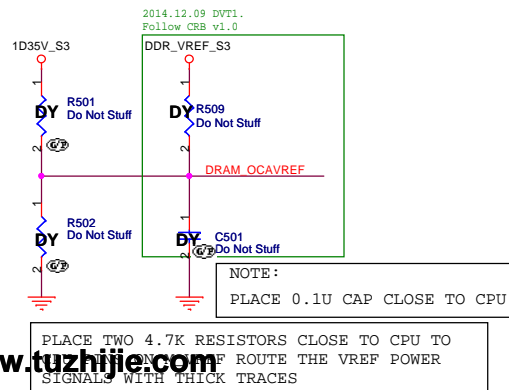
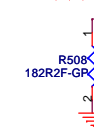
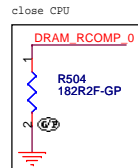
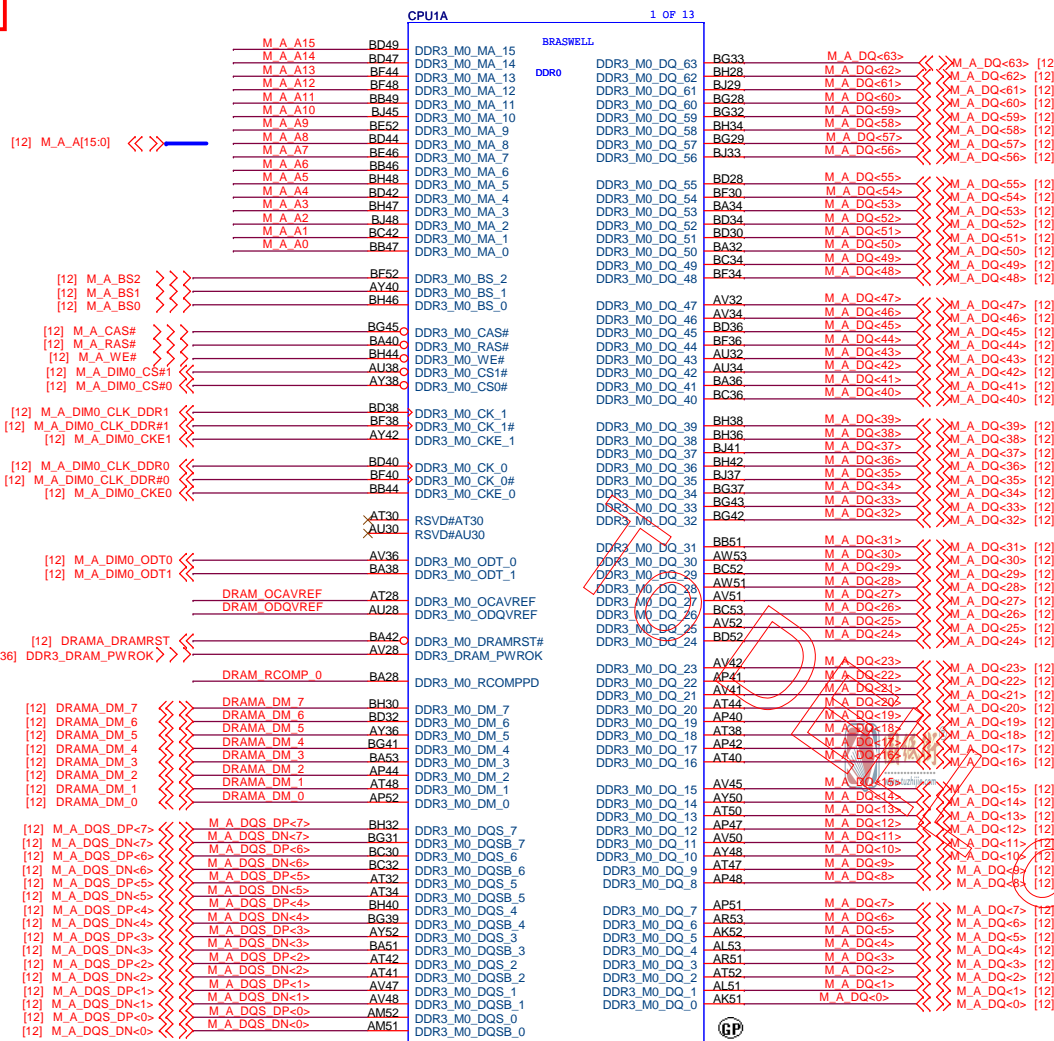
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Size	Document Number		Rev
A	Plano 11.6" UMA		A00
Date:	Friday, March 27, 2015	Sheet	3 of 110

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Size	Document Number		Rev
A	Plano 11.6" UMA		A00
Date: Friday, March 27, 2015		Sheet 4 of 110	www.tuzhijie.com

## SSID = CPU



DRAMA\_DRAMRST 1DY Do Not Stuff  
DDR3\_DRAM\_PWRCK 1DY Do Not Stuff  
DDR3\_VCCA\_PWRGD 1DY Do Not Stuff

2014.12.09 DVT1.  
Follow CRB v1.0

2014.12.09 DVT1.  
Follow CRB v1.0

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Sheet  
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of  
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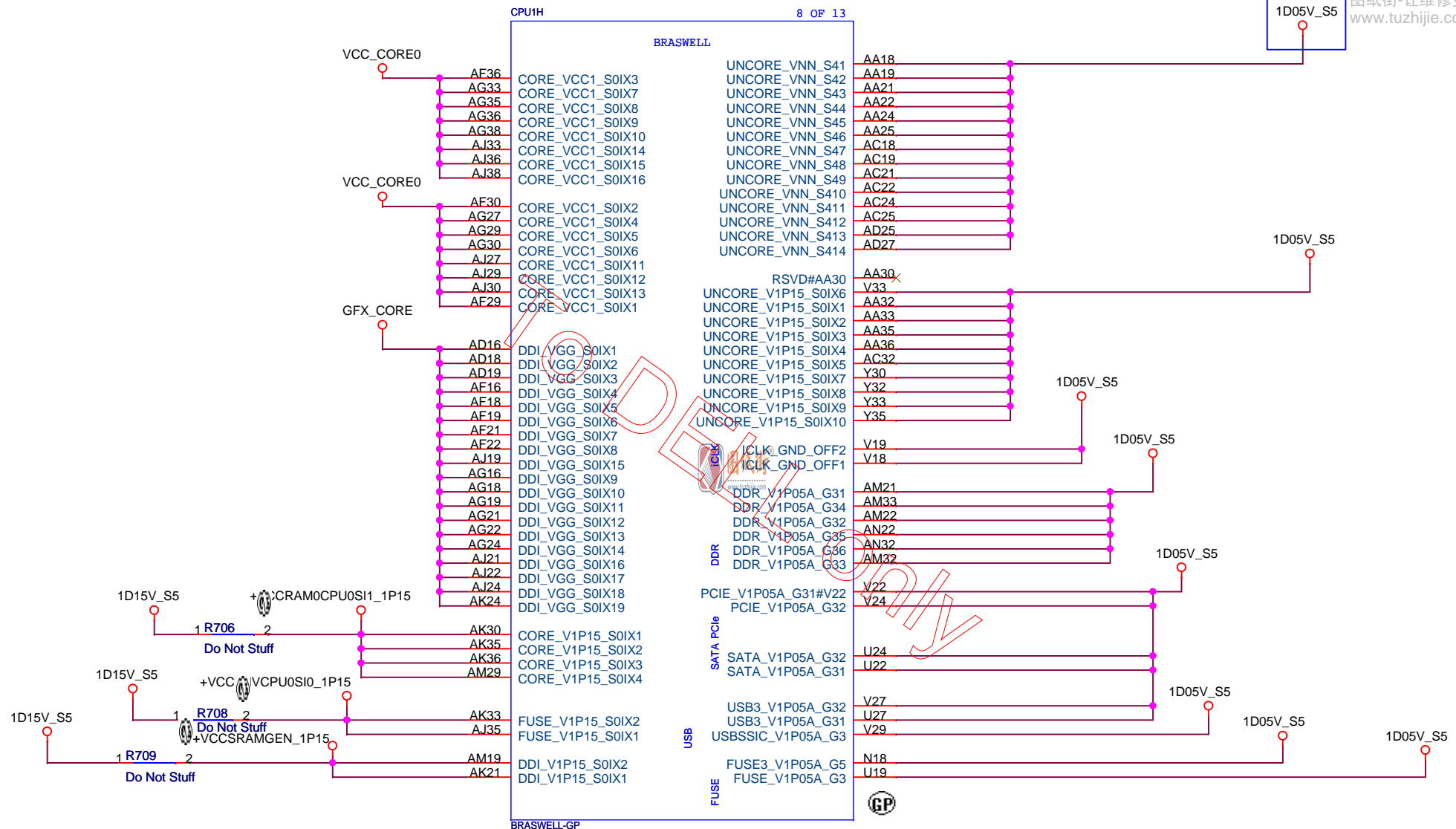
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Date: Friday, March 27, 2015		Sheet 6 of 110	
Plano 11.6" UMA		www.tuzhijie.com A00	

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2014.09.25 EVT.  
VNN change to 1D05V\_S5

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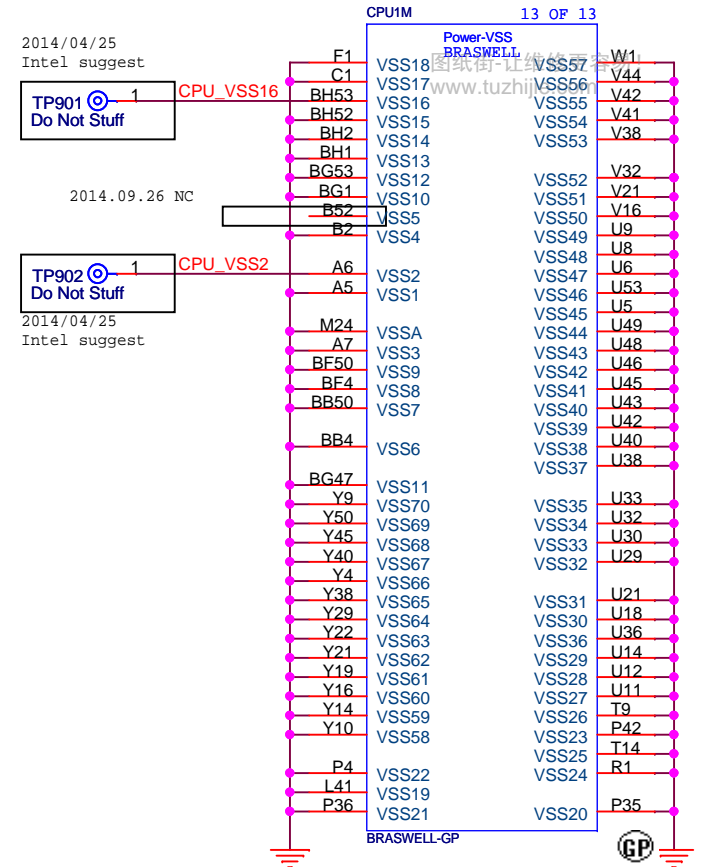
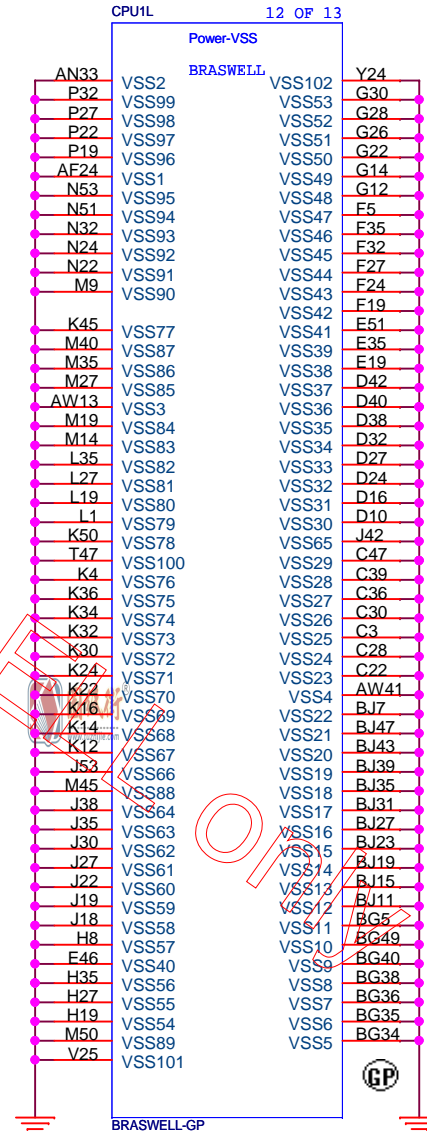
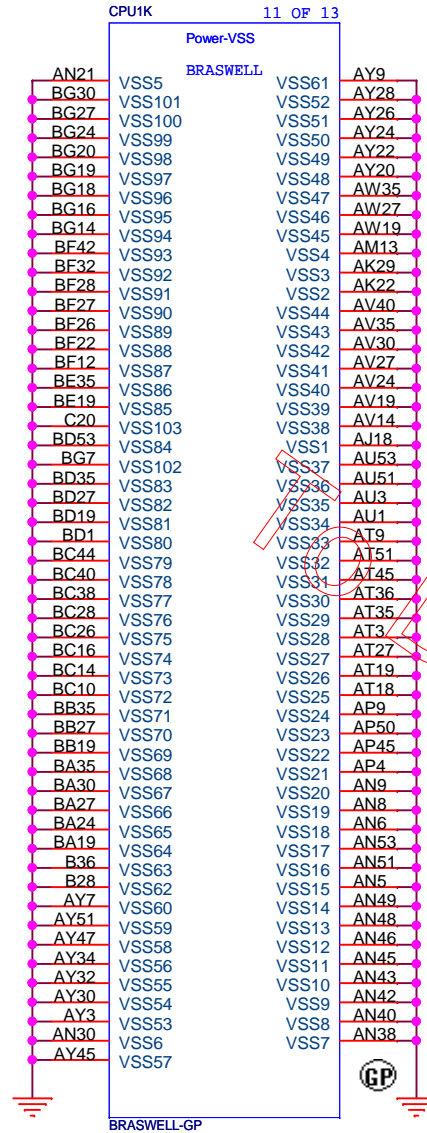
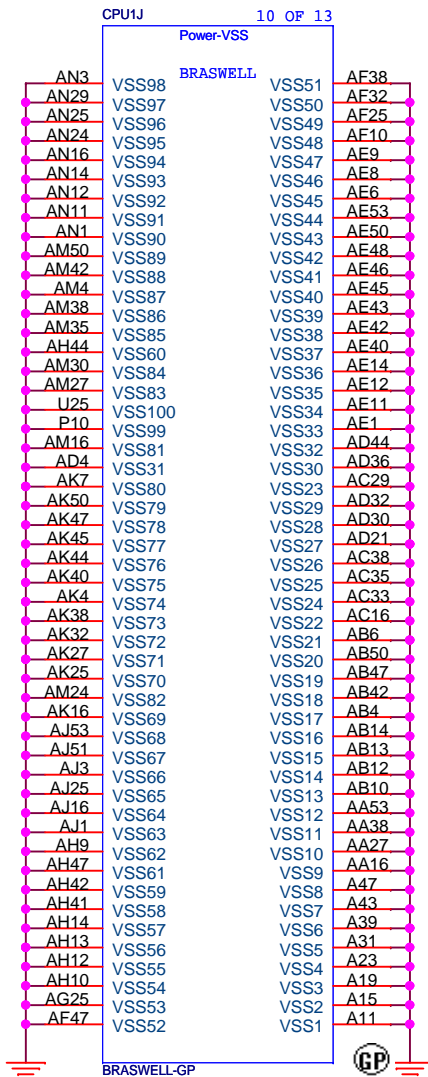
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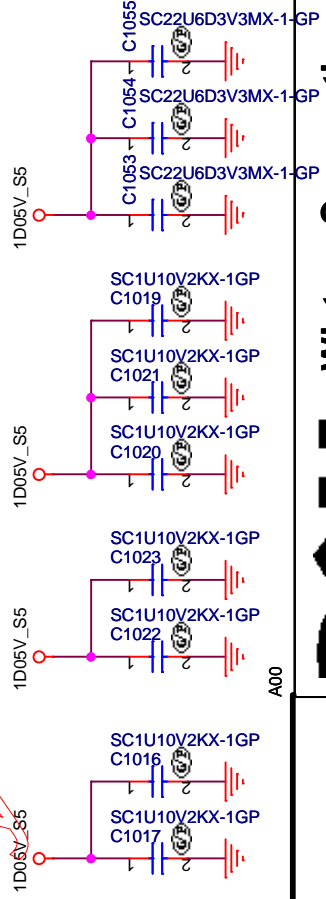
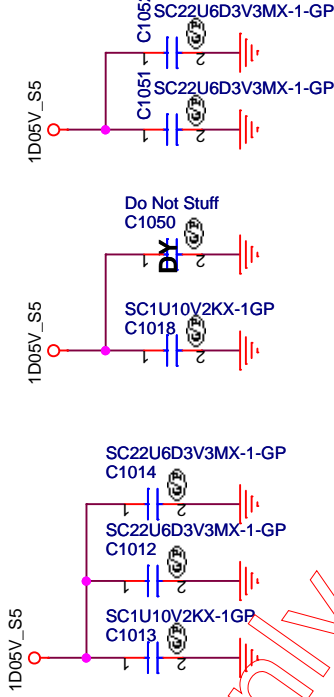
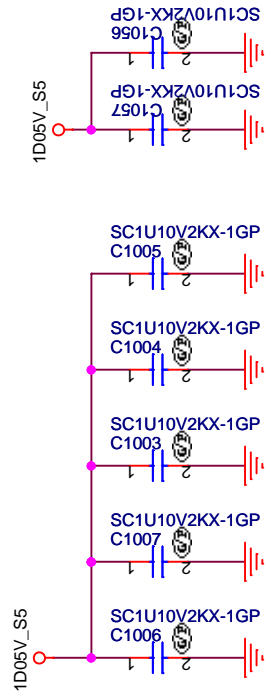
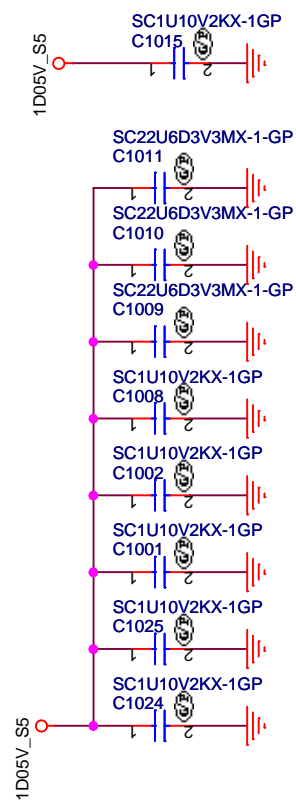
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<b>CPU (VCC CORE)</b>			
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A4			
Date: Friday, March 27, 2015		Sheet	7 of 110





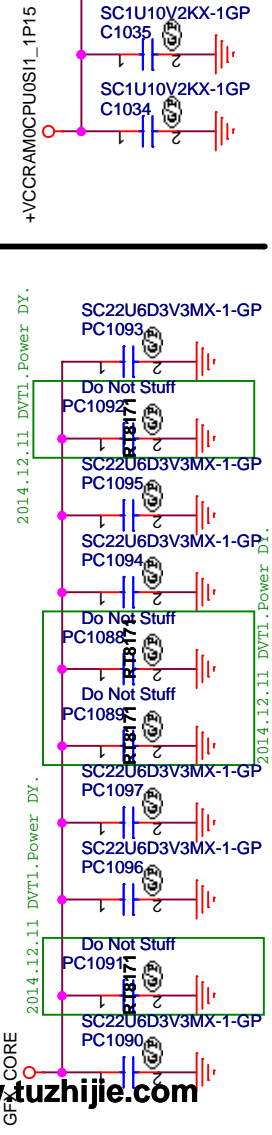
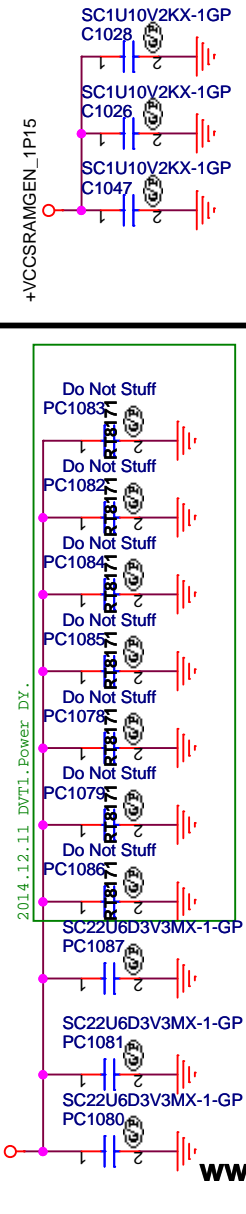
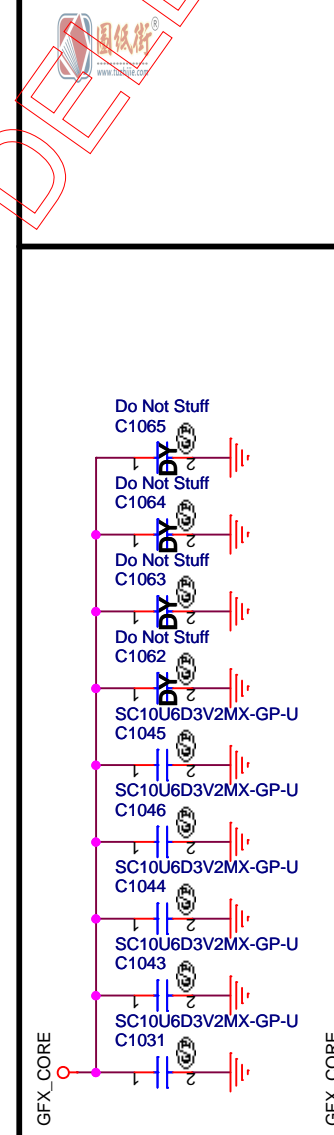
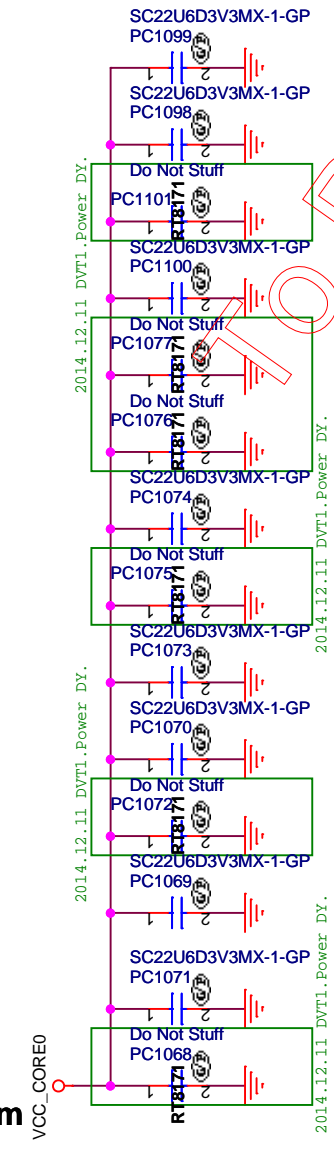
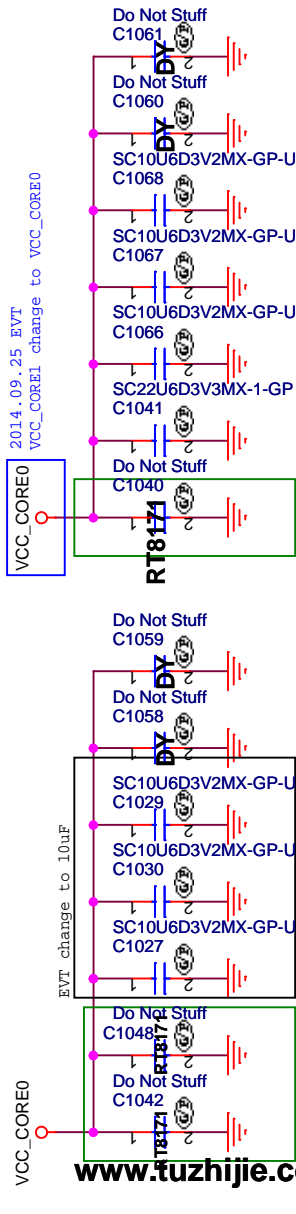
SSID = CPU





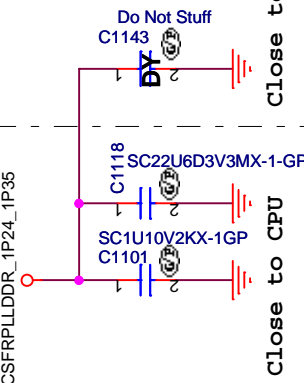
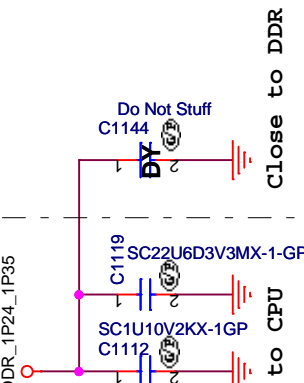
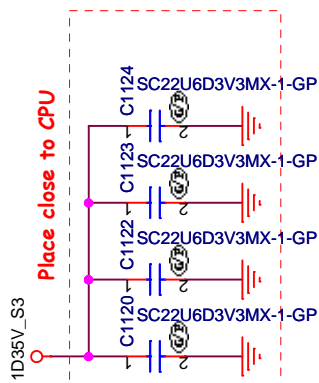
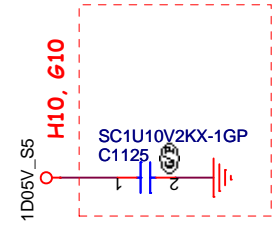
CPU (Power CAP1)

Rev	Rev	Rev
A00	Document Number	Sheet 10 of 110
Size A4	Document Number	Friday, March 21, 2015

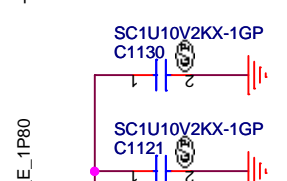
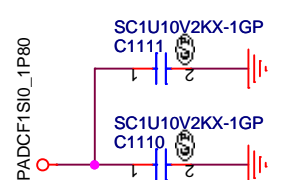
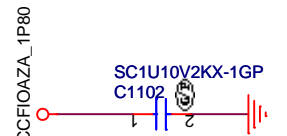
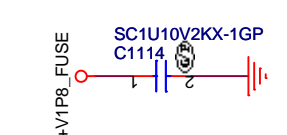
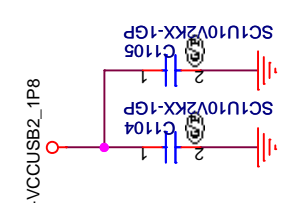
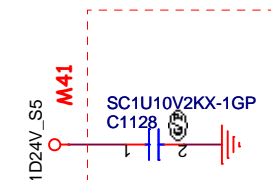
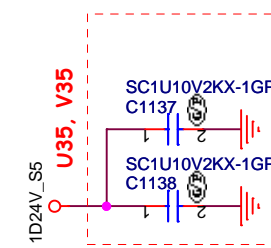
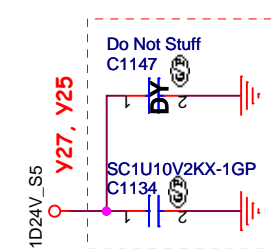
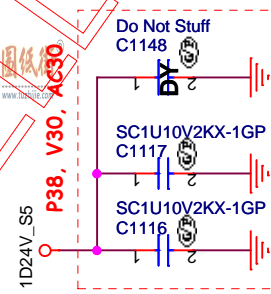
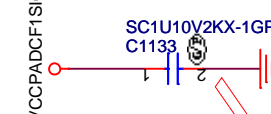
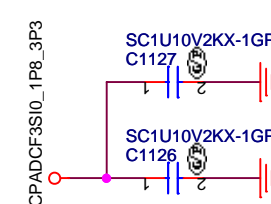
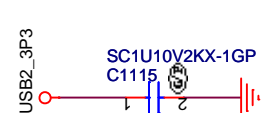
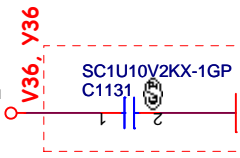
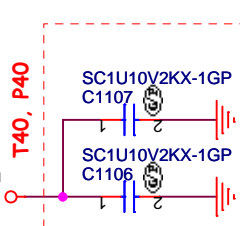
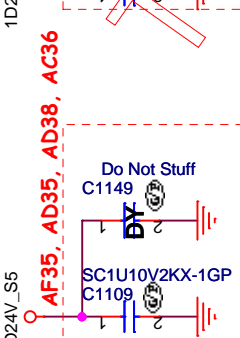
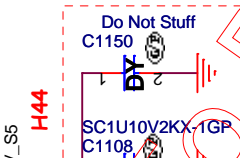
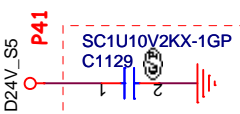
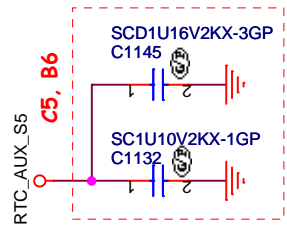
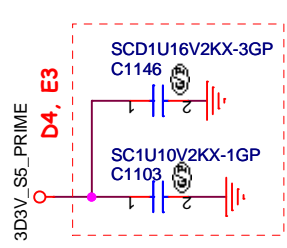


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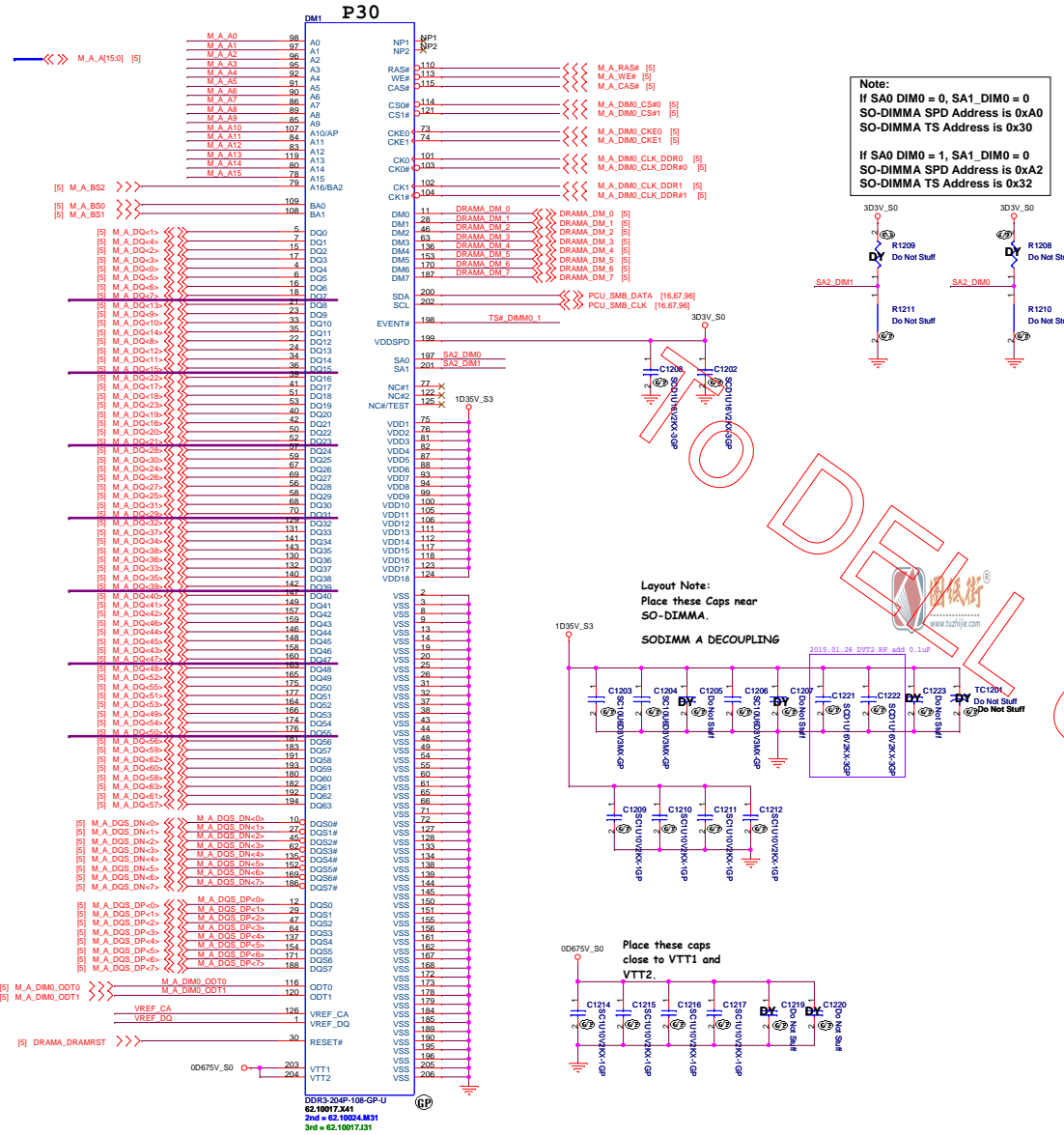
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Date: Friday, March 27, 2015		Sheet 14	of 110



SSID = STRAP

STRAP RESISTORS SHOULD BE PLACED CLOSE TO SOC  
SHOULD BE PLACED OUTSIDE KOZ AREA

All the straps are sampled on the rising edge of the  
PMC\_RSMRST\_N signal (check list)

Description	DDI0_Detected	DDI1_Detected	A16 Swap Override	DSI Display Detected	Boot BIOS Strap BBS	Flash Descriptor Security Override	DFX Boot Halt Strap & VISA Early POSM Debug Enable	DFX Sus Debug Strap	ICLK, USB2, DDI SFR Supply Select	ICLK SFR Bypass	POSM Select	ICLK Xtal OSC Bypass	CCU SUS RO Bypass	RTC OSC bypass
GPIO	GPIO_SUS0	GPIO_SUS1	GPIO_SUS2	GPIO_SUS3	GPIO_SUS4	GPIO_SUS5	GPIO_SUS6	GPIO_SUS7	SEC_GPIO_SUS8	SEC_GPIO_SUS9	SEC_GPIO_SUS10	GP_CAMERASB08	GP_CAMERASB09	GP_CAMERASB11
Schematic														
High	DDI0 Detect	DDI1 Detect	Normal Operation	DSI Detect	Boot from SPI	Weak internal pull-up Normal Operation	Normal	Weak internal pull-up Normal	1.35V	Weak internal pull-up Bypass with 1.05V	PMC	Bypass	Bypass	Bypass
Low	Disable	Disable	Change Boot Loader address (A16 Override)	Disable	Boot from LPC	Override	Halt boot enable	Sus Debug enable	1.25V	No bypass	Fuse controller	No bypass	No bypass	No bypass

Table 29. Straps (Sheet 1 of 2)

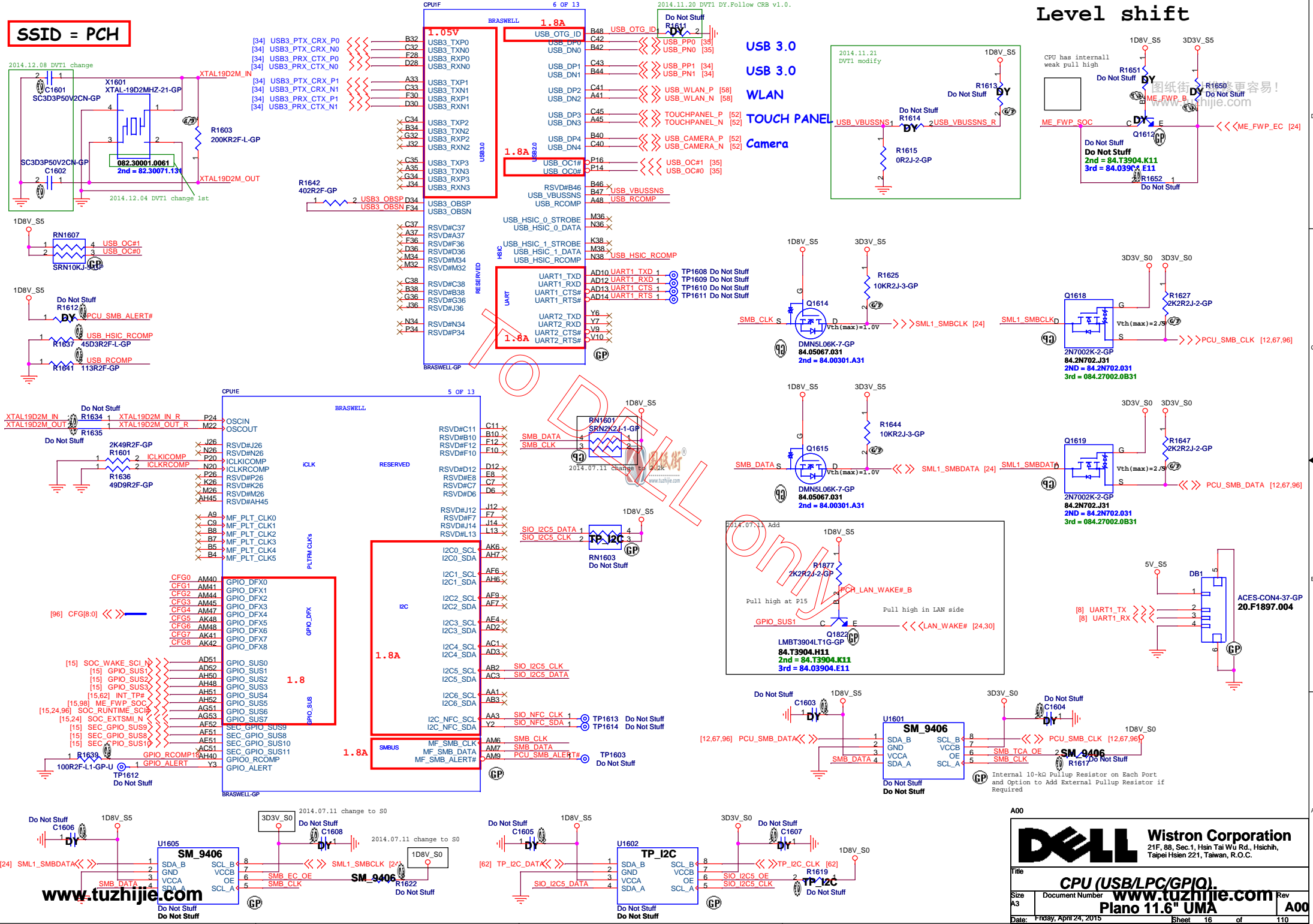
Signal Name	Purpose	Pull-Up/Pull-Down	Strap Description
GPIO_SUS[0]	DDI0 Detect	Weak internal pull-down	DDI0 Detect 0 = DDI0 not detected 1 = DDI0 detected
GPIO_SUS[1]	DDI1 Detect	Weak internal pull-down	DDI1 Detect 0 = DDI1 not detected 1 = DDI1 detected
GPIO_SUS[2]	A16 swap override	Weak internal pull-up	Top Swap (A16 Override) 0 = Change Boot Loader address 1 = Normal Operation
GPIO_SUS[4]	Boot BIOS Strap BBS	Weak internal pull-up	BIOS Boot Selection 0 = - 1 = SPI
GPIO_SUS[5]	Flash Descriptor Security Override	Weak internal pull-up	Security Flash Descriptors 0 = Override 1 = Normal Operation

Table 29. Straps (Sheet 2 of 2)

Signal Name	Purpose	Pull-Up/Pull-Down	Strap Description
GPIO_SUS[8]	ICLK, USB2, DDI SFR Supply Select	Weak internal pull-down	0 = Supply is 1.25V 1 = Supply is 1.35V This strap also contains PLL LDO 0: supply is 1.25V; 1: supply is 1.35V. Selects supply voltage for LDOs used for PLLs, thermal oscillators, USB2, ICLK and DDI
GPIO_SUS[9]	ICLK, USB2, DDI SFR Bypass	Weak internal pull-up	0 = No bypass 1 = Bypass with 1.05V
GPIO_SUS[10]	POSM Select	Weak internal pull-down	Selects which POSM will be observed at time 0 0 = Fuse controller 1 = PMC
GPIO_CAMERASB08	ICLK Xtal OSC Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass
GPIO_CAMERASB09	CCU SUS RO Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass
GPIO_CAMERASB11	RTC OSC Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass

CHV Straps [CRB] -- strap detect @ RSMRST# assertion				
Purpose	CHV Pin Name (refer CHV symbol PIN)	PU/PD (internal - Weak)	Options	Default State on board?
DDI0 Detected	GPIO_SUS0	PD	1- DDI0 Detect, 0- Disable	High
DDI1 Detected	GPIO_SUS1	PD	1- DDI1 Detect, 0- Disable	High
A16 swap override	GPIO_SUS2	PU	1- Default, 0- A16 override	High
DSI Display Detected	GPIO_SUS3	PD	1- DSI detect, 0- Disable	Low
Boot BIOS Strap BBS	GPIO_SUS4	PU	1- Boot from SPI, 0- Boot from LPC	High
Flash Descriptor Security Override	GPIO_SUS5	PU	1- Security enabled, 0- Security disabled	High
DFX Boot Halt Strap & VISA Early POSM Debug Enable	GPIO_SUS6	PU	1- normal, 0- Halt boot enable	High
DFX Sus Debug Strap	GPIO_SUS7	PU	1- Normal, 0- Sus Debug enable	High
ICLK, USB2, DDI SFR Supply Select	SEC_GPIO_SUS8	PU	1- 1.35V, 0- 1.25V	Low
ICLK SFR Bypass	SEC_GPIO_SUS9	PD	1- Bypass with 1.05V, 0- No Bypass	Low
POSM Select	SEC_GPIO_SUS10	PD	1- PMC, 0- Fuse controller	Don't care, if GPIO_SUS6 is pulled high.
ICLK Xtal OSC Bypass	GP_CAMERASB08	PD	1- Bypass, 0- No bypass	Low
CCU SUS RO Bypass	GP_CAMERASB09	PD	1- Bypass, 0- No bypass	Low
RTC OSC Bypass	GP_CAMERASB11	PD	1- Bypass, 0- No bypass	Low

**SSID = PCH**






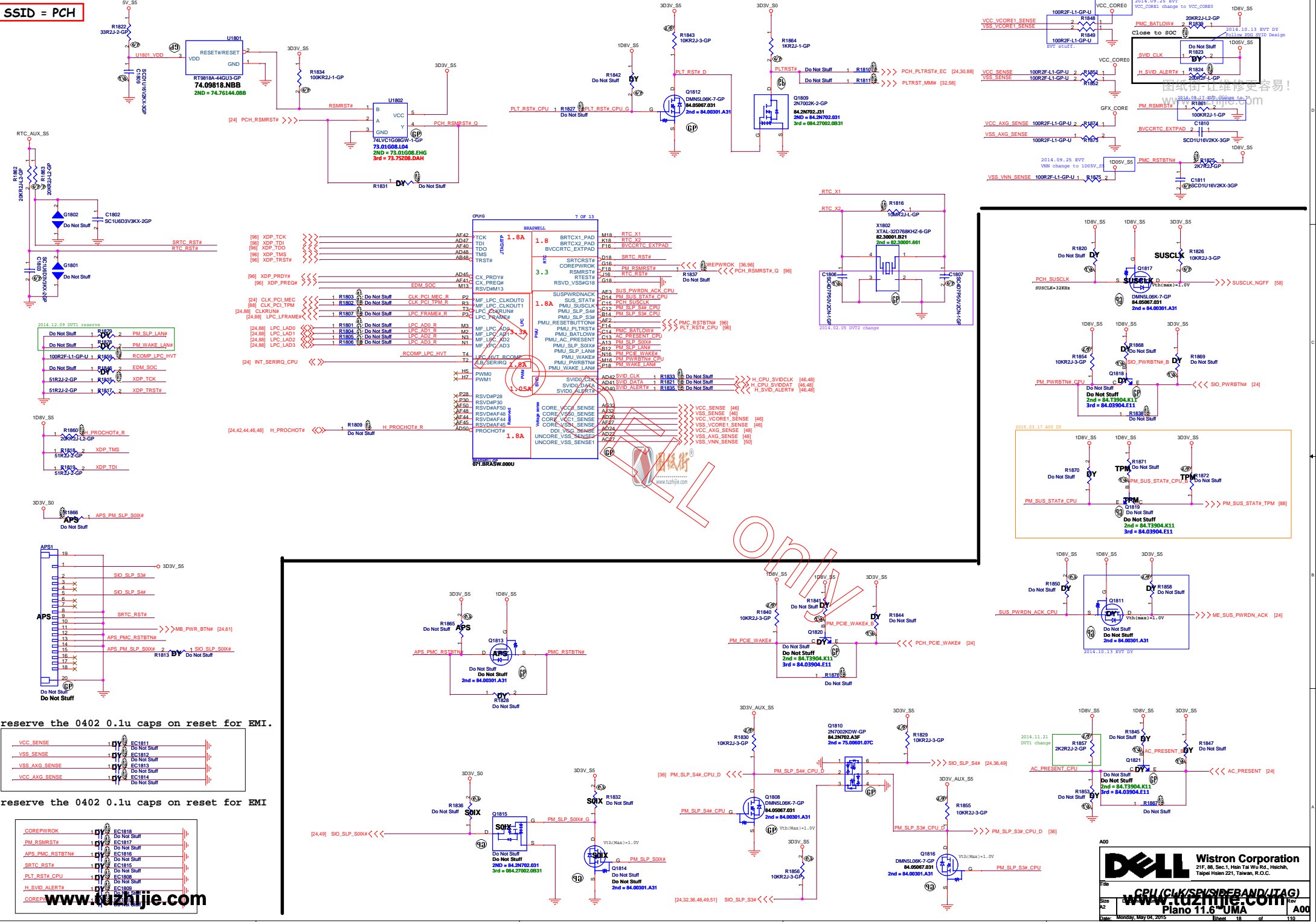
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Date: Friday, March 27, 2015		Sheet 17	of 110

**SSID = PCH**





SSID = PCH

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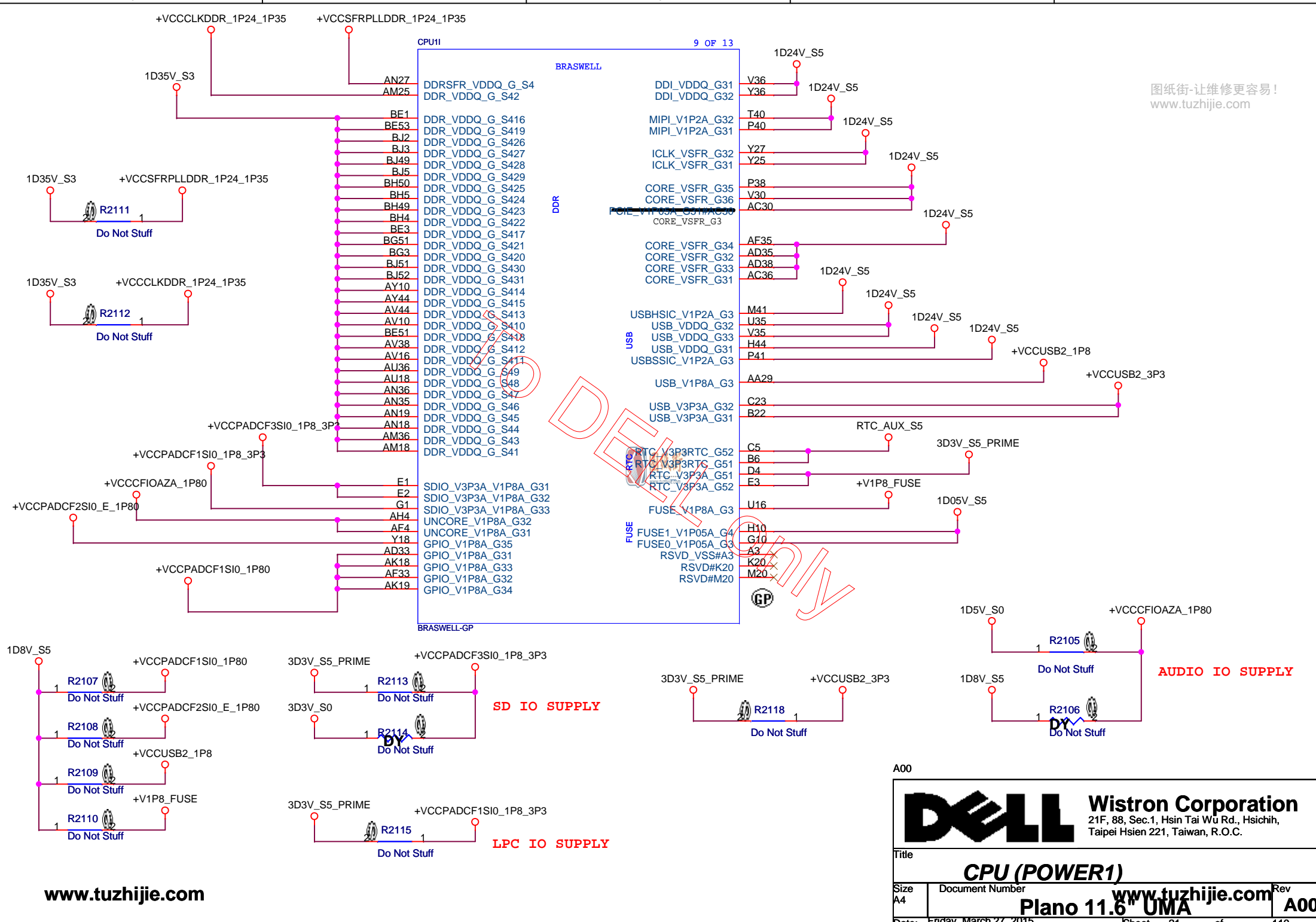
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**A00**


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Sheet 20 of 110



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**CPU (POWER1)**

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Rev  
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Sheet  
21

of  
110

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Size A4	Document Number	www.tuzhijie.com	Rev A00
Date: Thursday, April 09, 2015		Sheet 22	of 110

SSID = PCH

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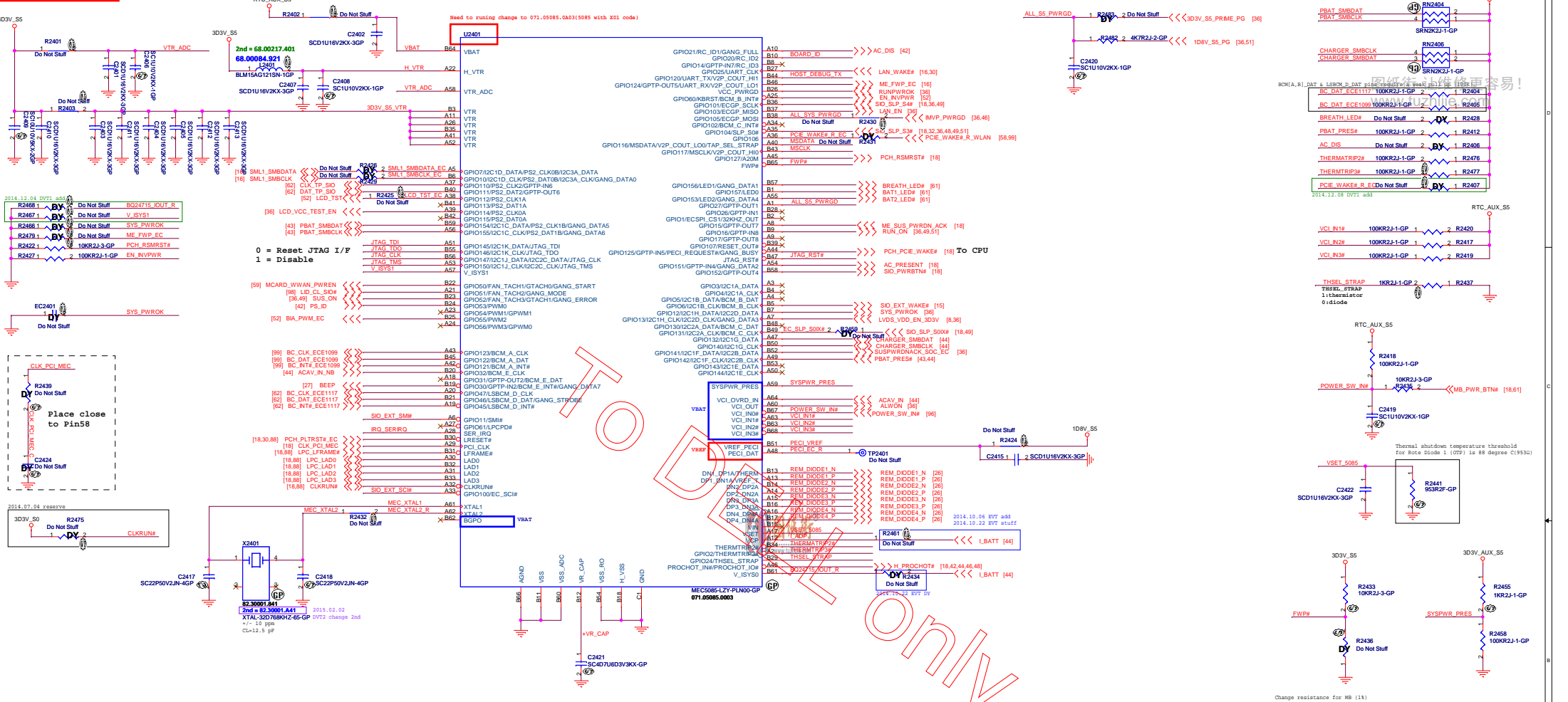
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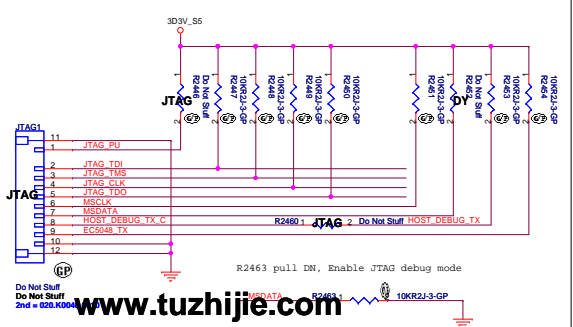
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Date: Friday, March 27, 2015		Sheet 23	of 110

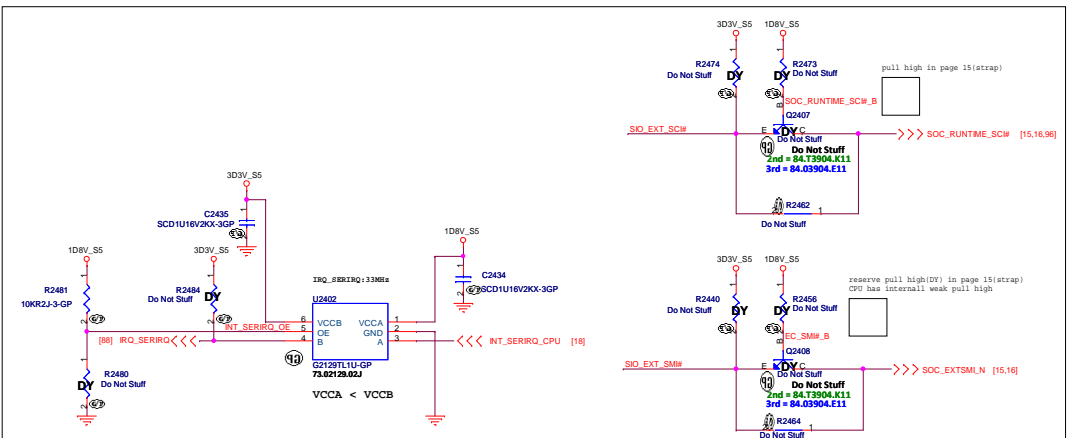
SSID = KBC



JTAG



Level shift



BOARD ID

Res. Value	Cap. Value	REV
1k ohm	EV	BD
2k ohm	EVT	
4.3k ohm	DVT1	
8.2k ohm	DVT2	
33k ohm	A00	

MIN count	MAX count	Range	Band Gap	External Circuit Components
80	112	32	max/min	RC values
160	222	62	48	4700
240	332	92	48	4700
320	442	122	48	4700
400	552	152	48	4700
480	662	182	48	4700
560	772	212	48	4700
640	882	242	48	4700
720	992	272	48	4700
800	1102	302	48	4700
880	1212	332	48	4700
960	1322	362	48	4700
1040	1432	392	48	4700
1120	1542	422	48	4700
1200	1652	452	48	4700
1280	1762	482	48	4700
1360	1872	512	48	4700
1440	1982	542	48	4700
1520	2092	572	48	4700
1600	2202	602	48	4700
1680	2312	632	48	4700
1760	2422	662	48	4700
1840	2532	692	48	4700
1920	2642	722	48	4700
2000	2752	752	48	4700
2080	2862	782	48	4700
2160	2972	812	48	4700
2240	3082	842	48	4700
2320	3192	872	48	4700
2400	3302	902	48	4700
2480	3412	932	48	4700
2560	3522	962	48	4700
2640	3632	992	48	4700
2720	3742	1022	48	4700
2800	3852	1052	48	4700
2880	3962	1082	48	4700
2960	4072	1112	48	4700
3040	4182	1142	48	4700
3120	4292	1172	48	4700
3200	4402	1202	48	4700
3280	4512	1232	48	4700
3360	4622	1262	48	4700
3440	4732	1292	48	4700
3520	4842	1322	48	4700
3600	4952	1352	48	4700
3680	5062	1382	48	4700
3760	5172	1412	48	4700
3840	5282	1442	48	4700
3920	5392	1472	48	4700
4000	5502	1502	48	4700
4080	5612	1532	48	4700
4160	5722	1562	48	4700
4240	5832	1592	48	4700
4320	5942	1622	48	4700
4400	6052	1652	48	4700
4480	6162	1682	48	4700
4560	6272	1712	48	4700
4640	6382	1742	48	4700
4720	6492	1772	48	4700
4800	6602	1802	48	4700
4880	6712	1832	48	4700
4960	6822	1862	48	4700
5040	6932	1892	48	4700
5120	7042	1922	48	4700
5200	7152	1952	48	4700
5280	7262	1982	48	4700
5360	7372	2012	48	4700
5440	7482	2042	48	4700
5520	7592	2072	48	4700
5600	7702	2102	48	4700
5680	7812	2132	48	4700
5760	7922	2162	48	4700
5840	8032	2192	48	4700
5920	8142	2222	48	4700
6000	8252	2252	48	4700
6080	8362	2282	48	4700
6160	8472	2312	48	4700
6240	8582	2342	48	4700
6320	8692	2372	48	4700
6400	8802	2402	48	4700
6480	8912	2432	48	4700
6560	9022	2462	48	4700
6640	9132	2492	48	4700
6720	9242	2522	48	4700
6800	9352	2552	48	4700
6880	9462	2582	48	4700
6960	9572	2612	48	4700
7040	9682	2642	48	4700
7120	9792	2672	48	4700
7200	9902	2702	48	4700
7280	10012	2732	48	4700
7360	10122	2762	48	4700
7440	10232	2792	48	4700
7520	10342	2822	48	4700
7600	10452	2852	48	4700
7680	10562	2882	48	4700
7760	10672	2912	48	4700
7840	10782	2942	48	4700
7920	10892	2972	48	4700
8000	11002	3002	48	4700
8080	11112	3032	48	4700
8160	11222	3062	48	4700
8240	11332	3092	48	4700
8320	11442	3122	48	4700
8400	11552	3152	48	4700
8480	11662	3182	48	4700
8560	11772	3212	48	4700
8640	11882	3242	48	4700
8720	11992	3272	48	4700
8800	12102	3302	48	4700
8880	12212	3332	48	4700
8960	12322	3362	48	4700
9040	12432	3392	48	4700
9120	12542	3422	48	4700
9200	12652	3452	48	4700
9280	12762	3482	48	4700
9360	12872	3512	48	4700
9440	12982	3542	48	4700
9520	13092	3572	48	4700
9600	13202	3602	48	4700
9680	13312	3632	48	4700
9760	13422	3662	48	4700
9840	13532	3692	48	4700
9920	13642	3722	48	4700
10000	13752	3752	48	4700

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File: EC-ME6085

Size: A2

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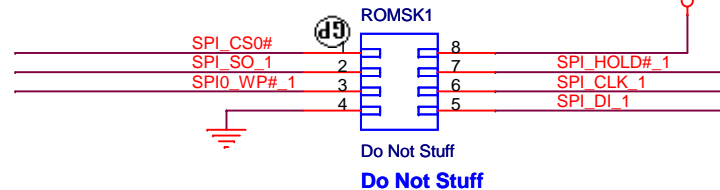
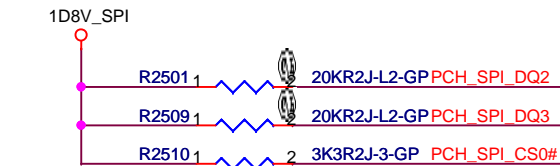
Date: Wednesday, April 22, 2015

Sheet 24 of 110

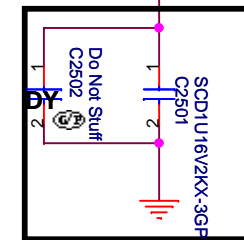
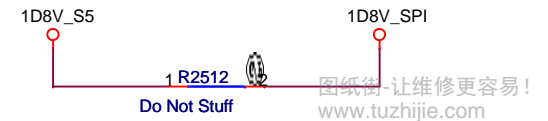


# SSID = Flash.ROM

SPI ROM Equal length need to less than 500mil

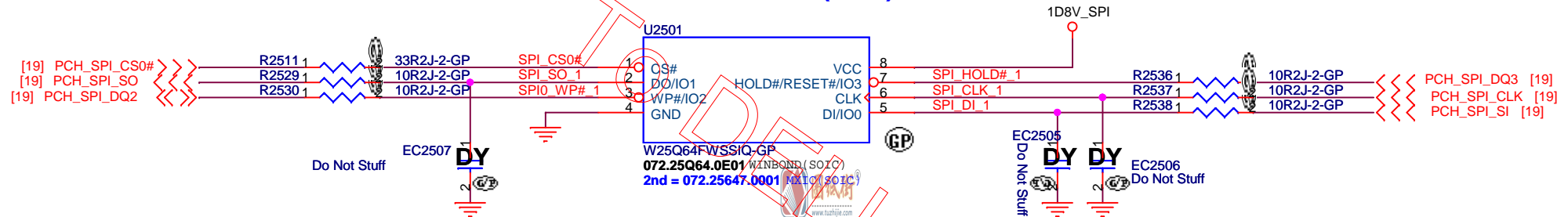


Debug config need to stuff socket and SOIC(072.25128.0E01)

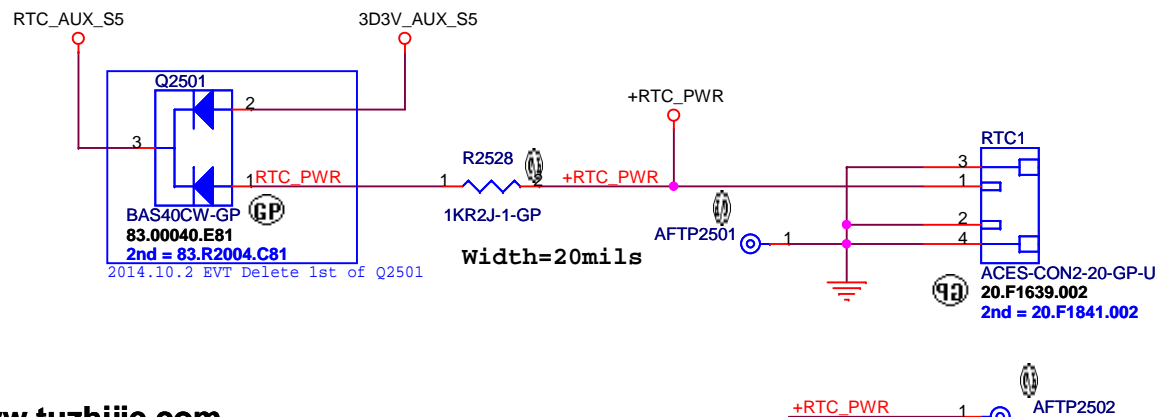


Layout Note: Close to U2501 Pin 8

## SYSTEM SPI ROM SPI Flash ROM(16M) for PCH



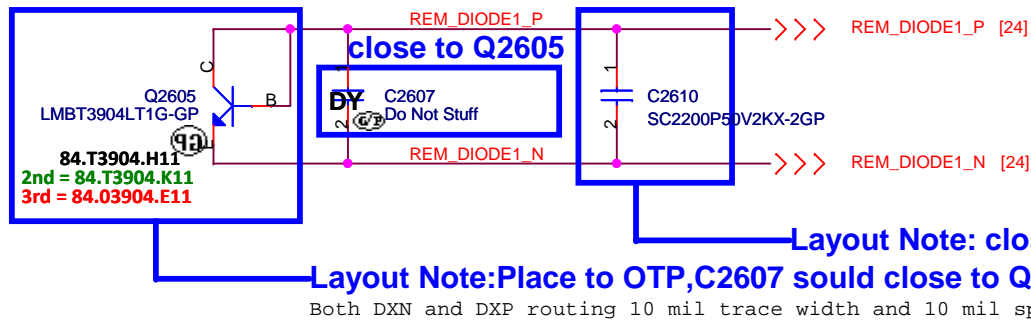
# SSID = RTC



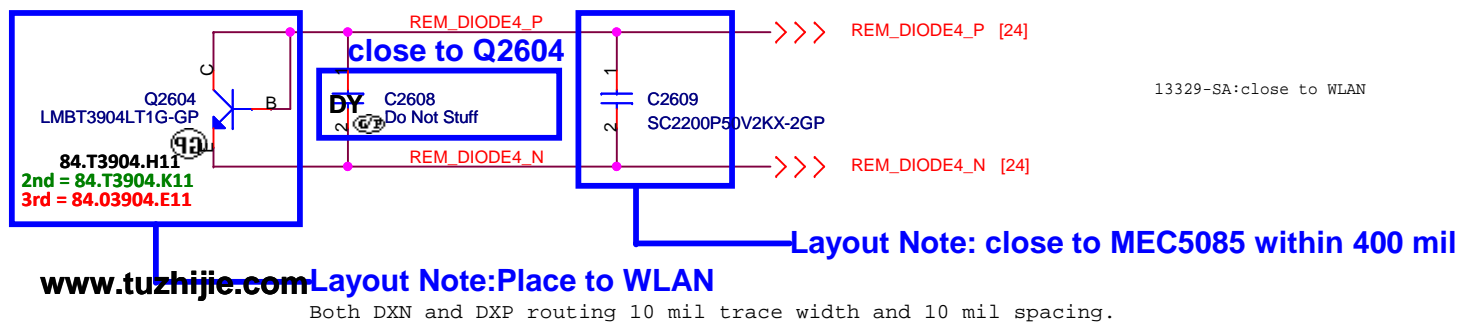
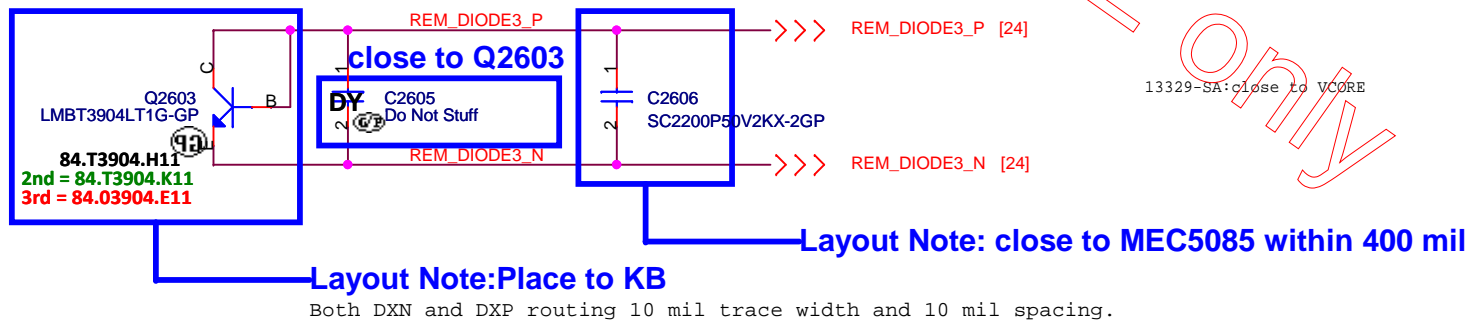
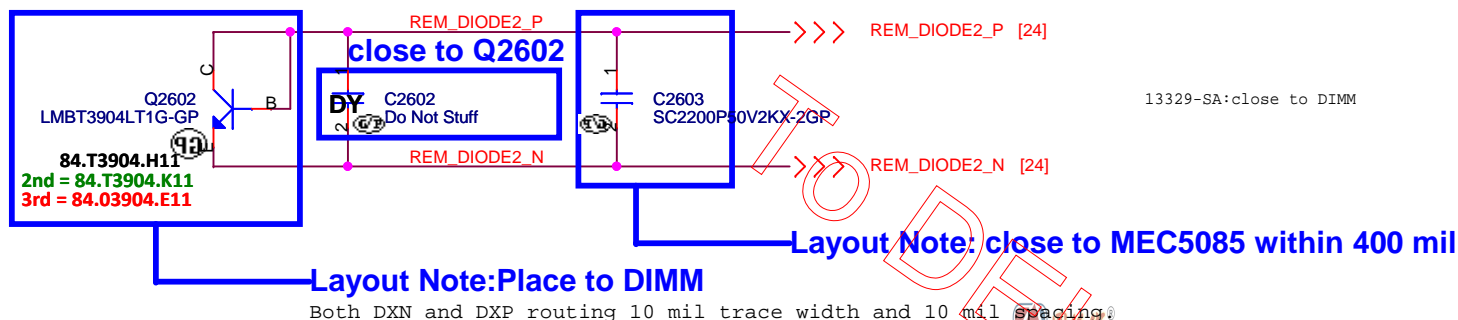
A00

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Title			
Flash/RTC			
Size	Document Number		Rev
A4	www.tuzhijie.com		A00
Date: Wednesday, April 22, 2015		Sheet 25 of 110	

# SSID = Thermal



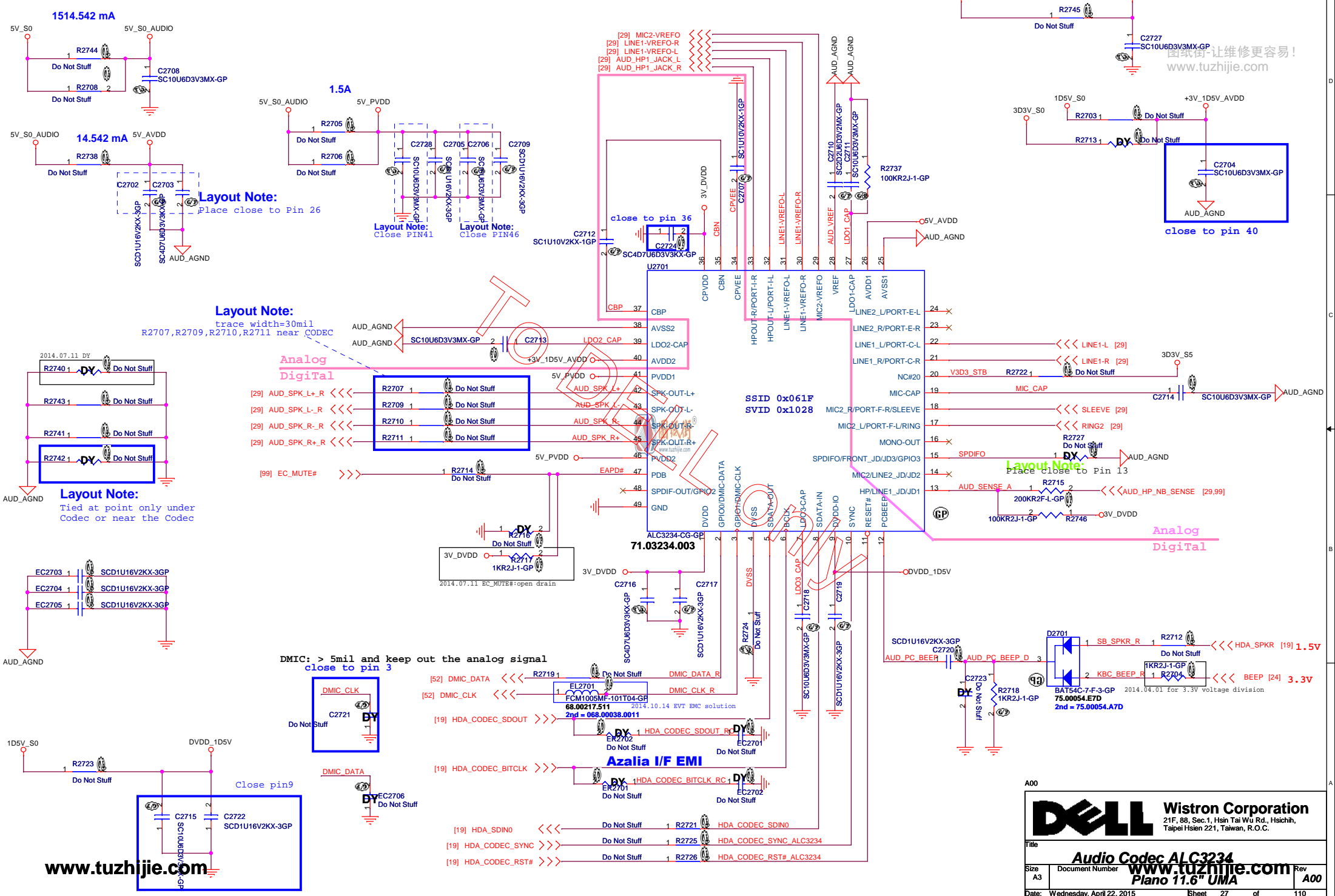
Channel 1 is for CPU  
Channel 2 is for DIMM  
Channel 3 is for KB Skin  
Channel 4 is for WLAN



A00

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Title <b>Thermal</b>			
Size A4	Document Number	Rev A00	
Date: Wednesday, April 22, 2015		Sheet 26 of 110	

SSID = AUDIO



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Title: **Audio Codec AL C3234**  
Size: A3 Document Number: **www.tuzhijie.com** Rev: **A00**  
Date: Wednesday, April 22, 2015 Sheet 27 of 110

(Blanking)

TO BE DELETED only



A00

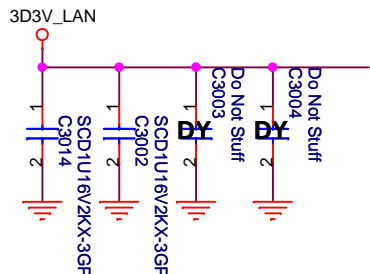
		<b>Wistron Corporation</b> 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title <b>Reserved</b>			
Size A	Document Number <b>Plano 11.6" UMA</b>		Rev 100
Date: Friday, March 27, 2015		Sheet 28 of	110



# For RTL8151GD

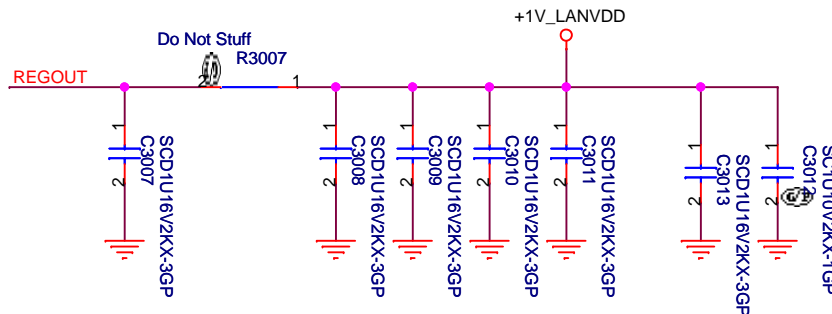
\* Place C3001 and C3002 close to each AVDD33 pin-- 11, 32

\* For surge improvement, place C3003 and C3004 close to each AVDD33 pin-- 11, 32. (optional)



# For RTL8151GD

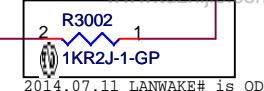
\* Place C3008 ~ C3011 close to each VDD10 pin-- 3, 8, 22, 30



2014.07.11 avoid leakage

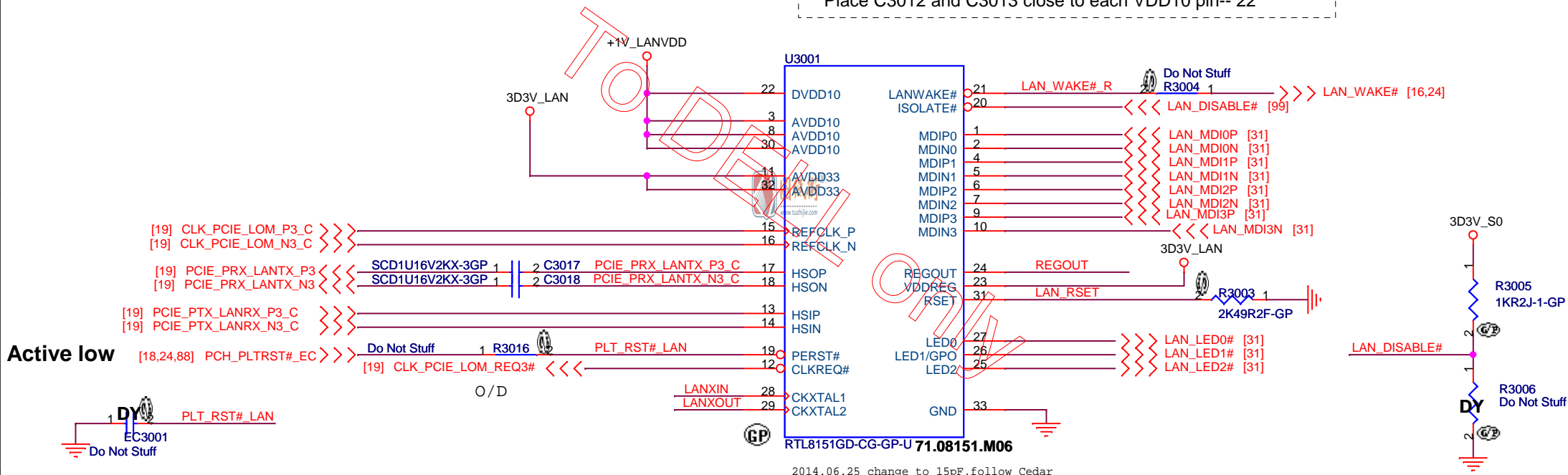
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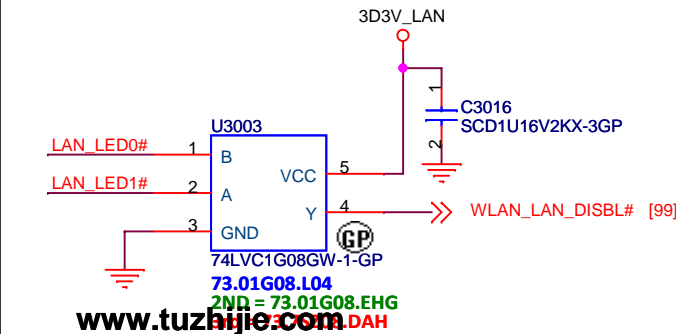
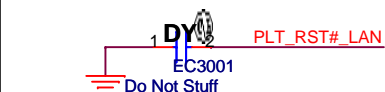


# For RTL8151GD

\* Place C3012 and C3013 close to each VDD10 pin-- 22

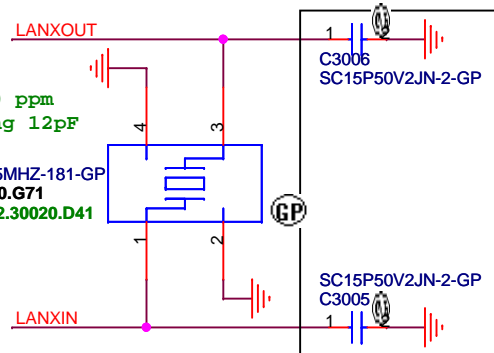


Active low



+/- 20 ppm  
Loading 12pF

X3001  
XTAL-25MHZ-181-GP  
82.30020.G71  
2nd = 82.30020.D41



A00

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Title

**LOM RTK8151G**

Size

Document Number

**Plano 11.6" UMA**

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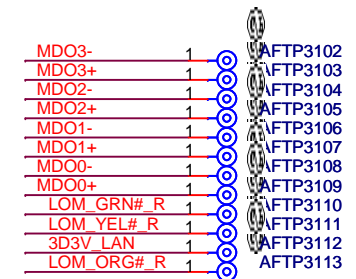
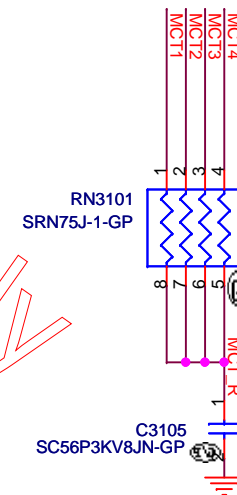
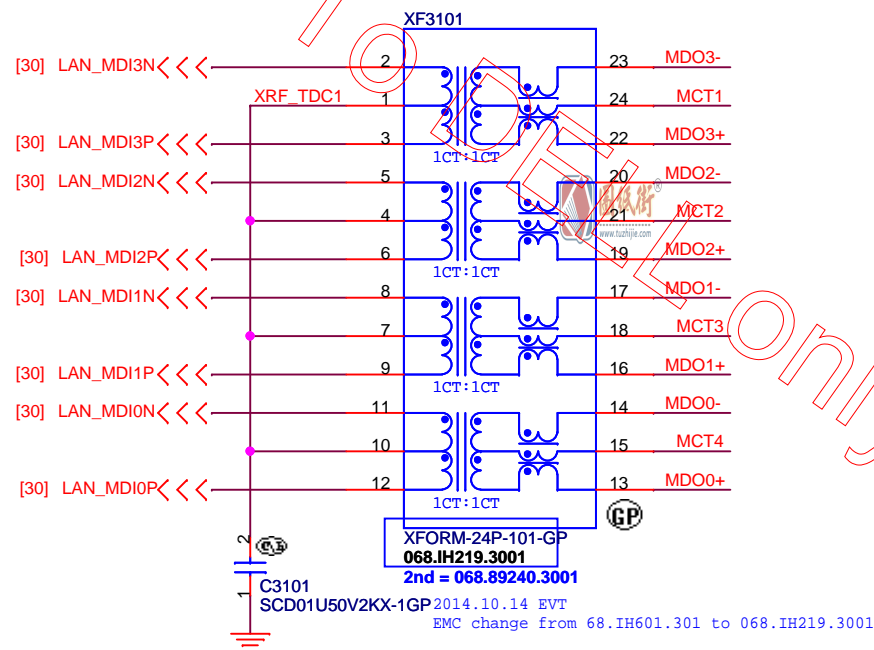
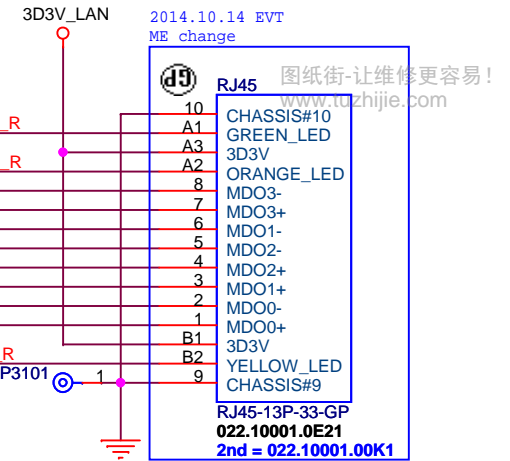
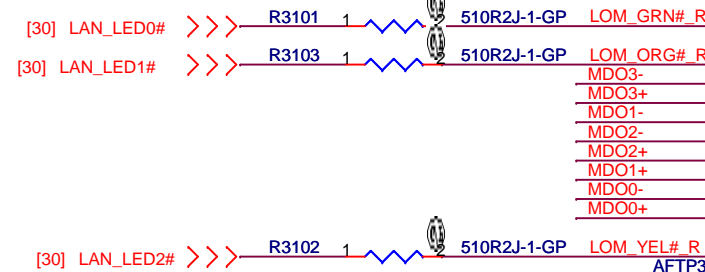
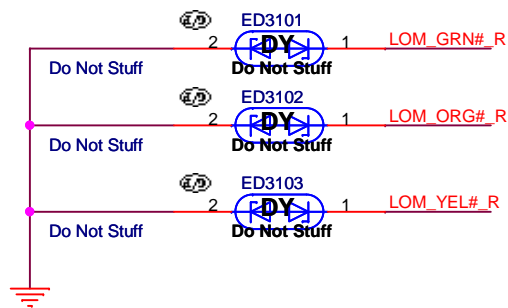
Rev

**A00**

Date: Wednesday, April 22, 2015

Sheet 30 of 110

**SSID = LOM**



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Title

**RJ45/Transformer**Size  
A4

Document Number

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**Plano 11.6" UMA**

A00

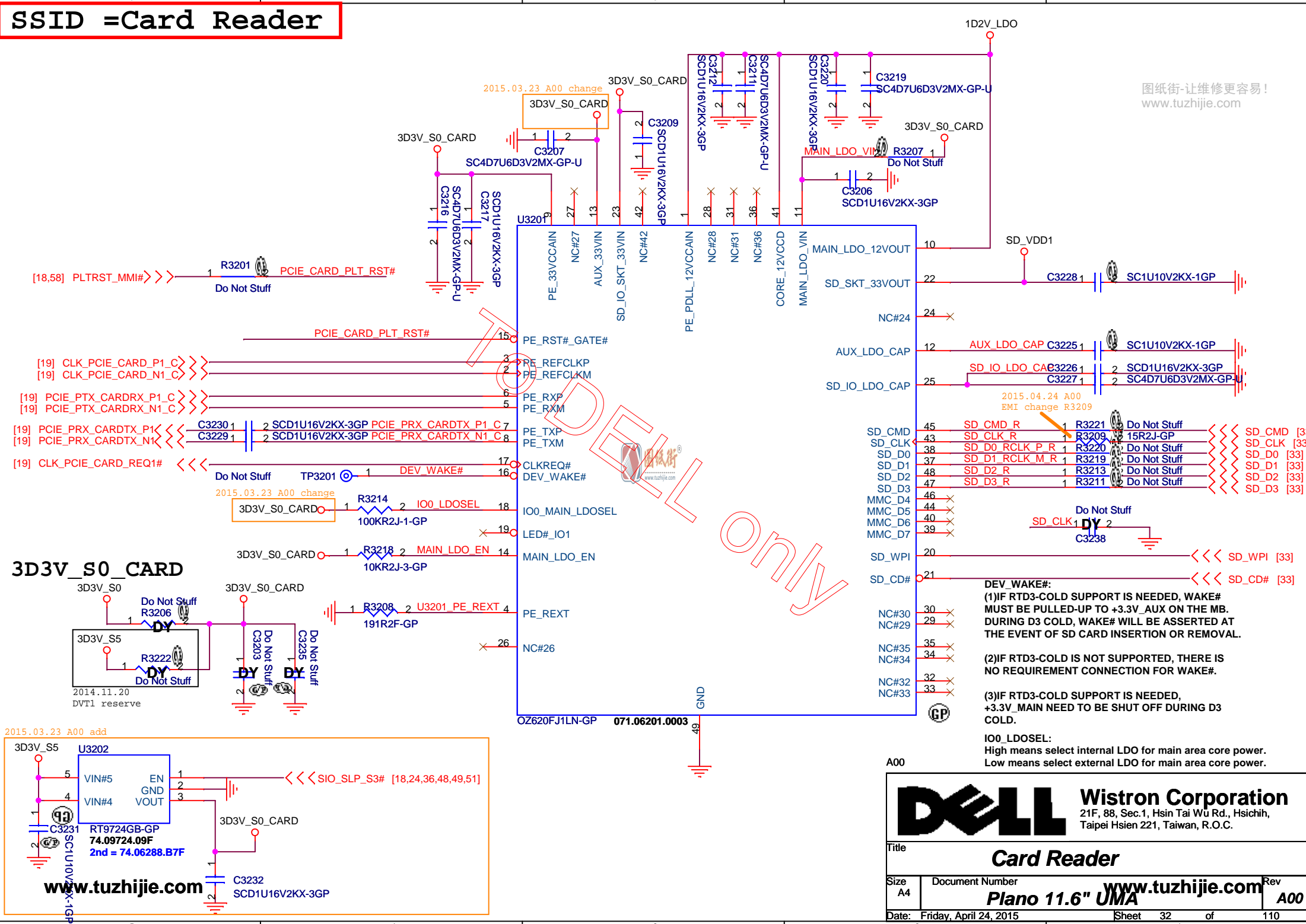
Date: Wednesday, April 22, 2015

Sheet 31 of 110

110



**SSID =Card Reader**



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**DEV\_WAKE#:**

- (1)IF RTD3-COLD SUPPORT IS NEEDED, WAKE# MUST BE PULLED-UP TO +3.3V\_AUX ON THE MB. DURING D3 COLD, WAKE# WILL BE ASSERTED AT THE EVENT OF SD CARD INSERTION OR REMOVAL**
- (2)IF RTD3-COLD IS NOT SUPPORTED, THERE IS NO REQUIREMENT CONNECTION FOR WAKE#.**
- (3)IF RTD3-COLD SUPPORT IS NEEDED, +3.3V\_MAIN NEED TO BE SHUT OFF DURING D3 COLD.**

**IO0\_LDOSSEL:**  
High means select internal LDO for main area core power.  
Low means select external LDO for main area core power.

A00

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Taipei Hsien 221, Taiwan, R.O.C.

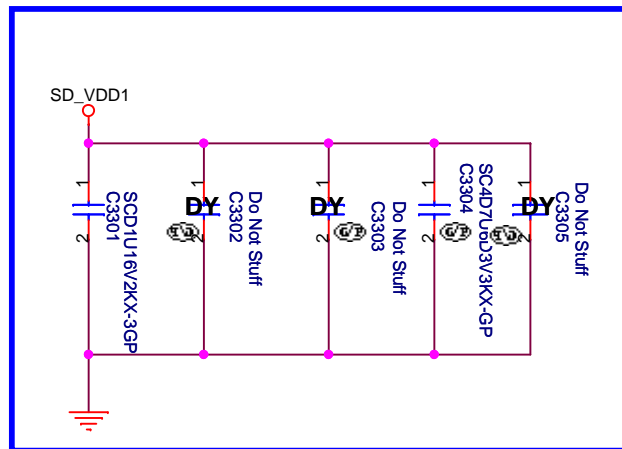
Title	<b>Card Reader</b>
-------	--------------------

Size A4	Document Number <b>Plano 11.6" UMA</b>	<a href="http://www.tuzhijie.com">www.tuzhijie.com</a>	Rev A00
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Date: Friday, April 24, 2015 Sheet 32 of 110



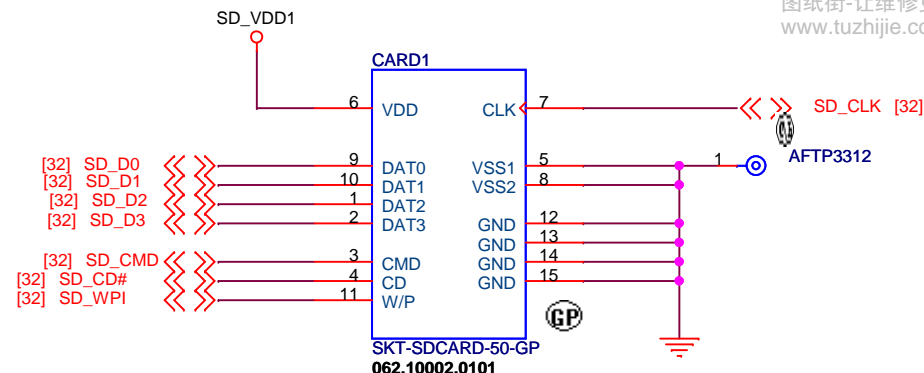
# SSID =Card Reader



Layout Note:Close to Card Reader CONN

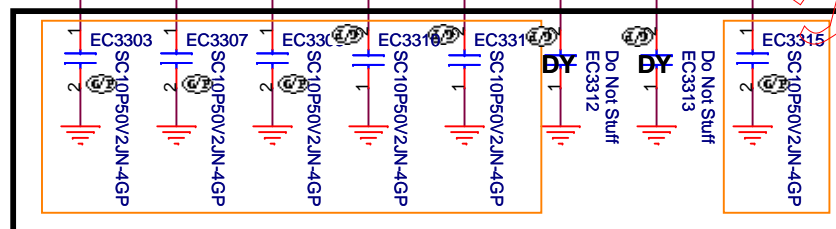
## SD 3.0 Card Connector

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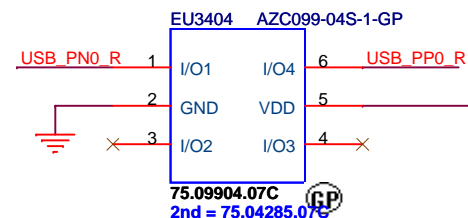
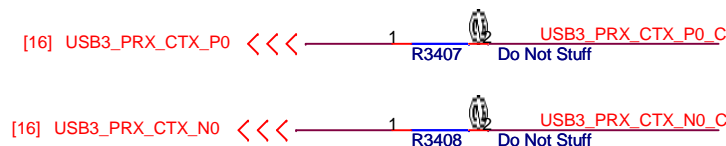
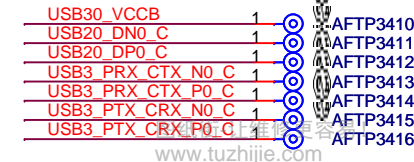
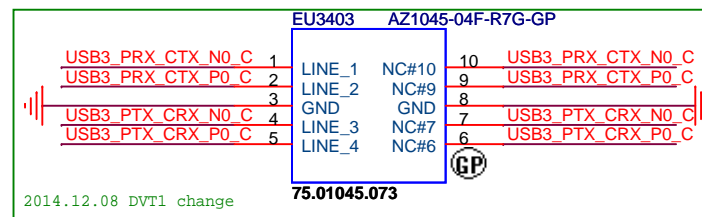
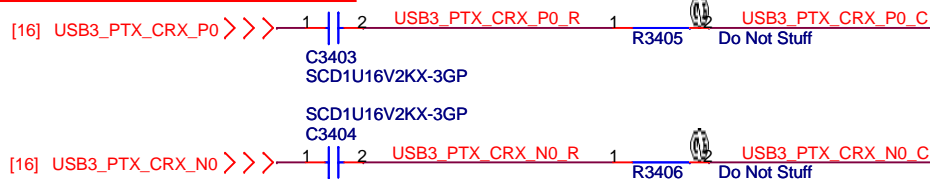
SD\_CLK  
SD\_WPI  
SD\_CD#  
SD\_D1  
SD\_D0  
SD\_D3  
SD\_CMD  
SD\_D2

2015.04.24 A00  
EMI change

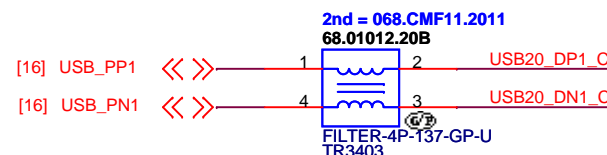
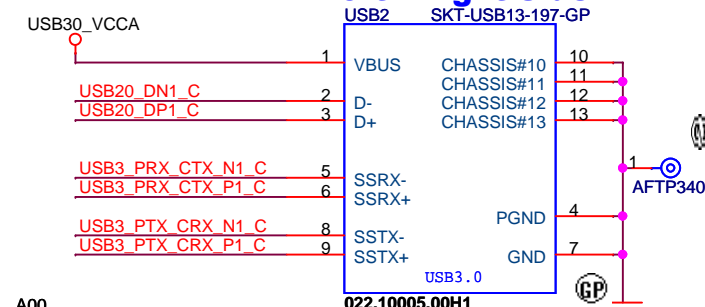
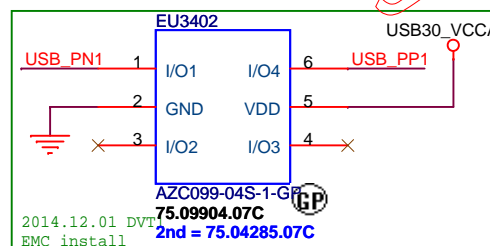
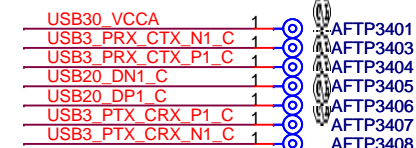
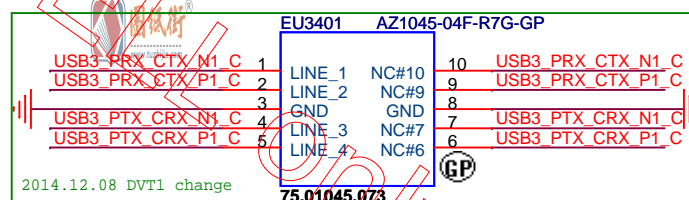
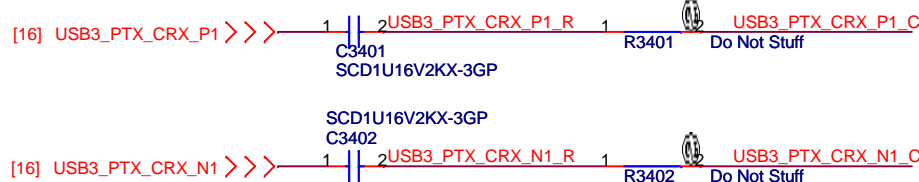
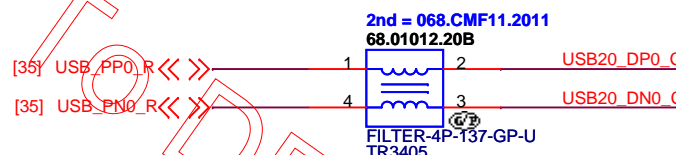
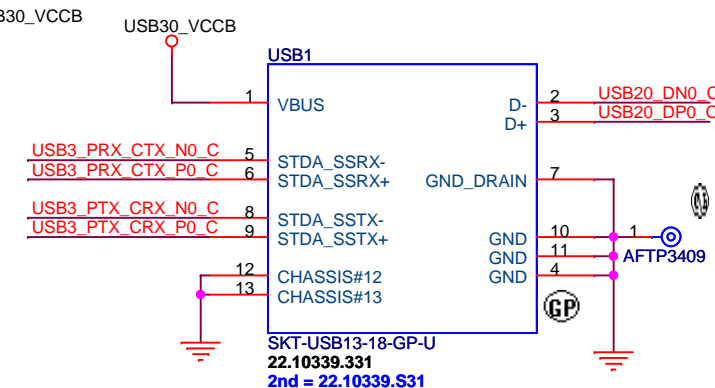


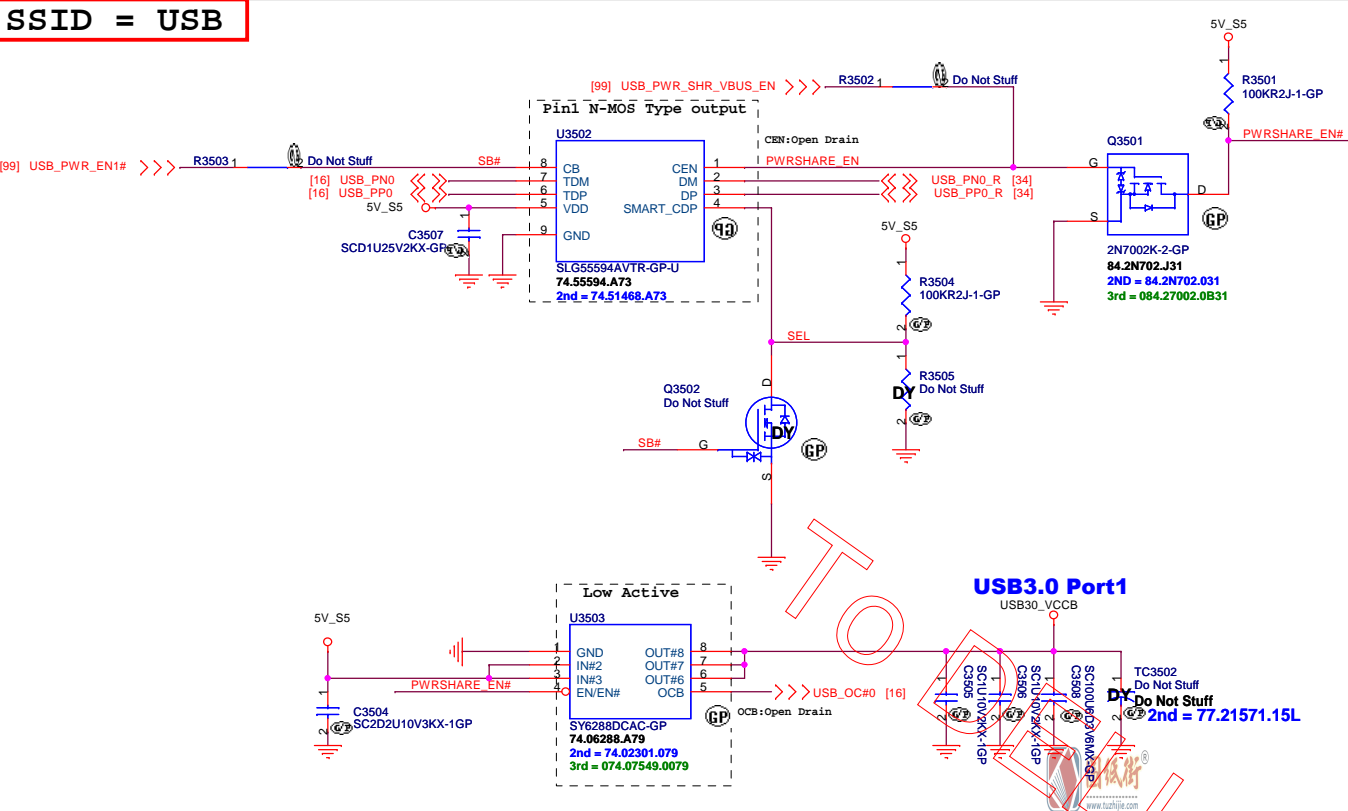
SD\_D0 1 AFTP3311  
SD\_D1 1 AFTP3310  
SD\_D2 1 AFTP3307  
SD\_D3 1 AFTP3302  
  
SD\_CMD 1 AFTP3304  
SD\_CD# 1 AFTP3301  
SD\_WPI 1 AFTP3308  
SD\_CLK 1 AFTP3303  
  
SD\_VDD1 1 AFTP3309

# SSID = USB



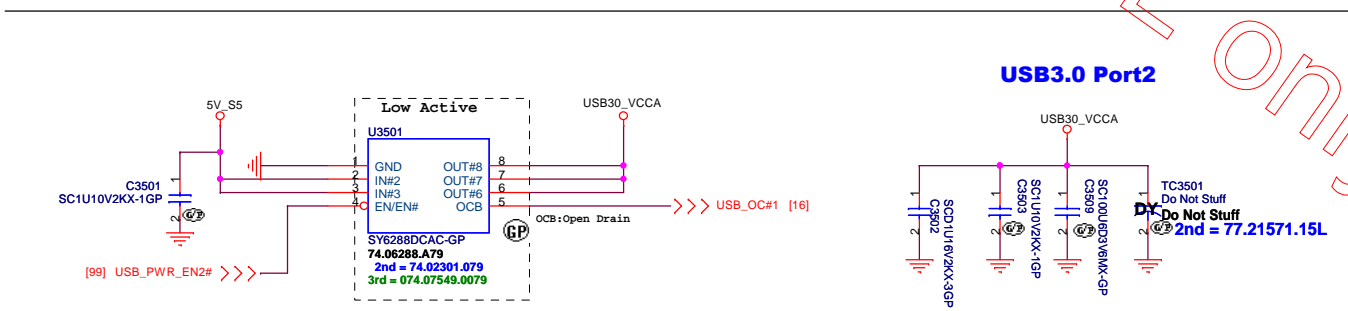
## EXT Port1 Left Side, Support Power Share





AC mode						Battery mode					
feature enabled/Wake on USB enabled						feature enabled/Wake on USB enabled					
USBPowerShare_EN# PP	S0	S3	S4	S5		USBPowerShare_EN# PP	S0	S3	S4	S5	
USBPowerShare_Vbus_EN OD	1	1	1	1	1	USBPowerShare_Vbus_EN OD	1	1	1	x	x
USBPowerShare_Vbus_EN OD	1	1	1	1	1	USBPowerShare_Vbus_EN OD	1	1	1	x	x
feature enabled/Wake on USB disabled						feature enabled/Wake on USB disabled					
USBPowerShare_EN# PP	S0	S3	S4	S5		USBPowerShare_EN# PP	S0	S3	S4	S5	
USBPowerShare_Vbus_EN OD	1	0	0	0	0	USBPowerShare_Vbus_EN OD	1	0	x	x	
USBPowerShare_Vbus_EN OD	1	1	1	1	1	USBPowerShare_Vbus_EN OD	1	1	x	x	
feature disabled/Wake on USB enabled						feature disabled/Wake on USB enabled					
USBPowerShare_EN# PP	S0	S3	S4	S5		USBPowerShare_EN# PP	S0	S3	S4	S5	
USBPowerShare_Vbus_EN OD	1	1	1	1	1	USBPowerShare_Vbus_EN OD	1	1	x	x	
USBPowerShare_Vbus_EN OD	1	1	1	1	1	USBPowerShare_Vbus_EN OD	1	1	x	x	
feature disabled/Wake on USB disabled						feature disabled/Wake on USB disabled					
USBPowerShare_EN# PP	S0	S3	S4	S5		USBPowerShare_EN# PP	S0	S3	S4	S5	
USBPowerShare_Vbus_EN OD	1	0	0	0	0	USBPowerShare_Vbus_EN OD	1	0	x	x	
USBPowerShare_Vbus_EN OD	1	0	0	0	0	USBPowerShare_Vbus_EN OD	1	0	x	x	

CB	SMART-CDP	Function
0	X	DCP autodetect with mouse/keyboard wakeup
1	0	S0 charging with SDP only
1	1	S0 charging with CDP or SDP only (depending on external device) And, when Non-CDP phone is plugged in, the CDP mode will be changed automatically to SDP mode during handshaking protocol for supporting data communication.



USB Power SW (U3501 & U3503)			
Vendor	Vendor P/N	Wistron P/N	Priority
Silergy	SY6288DCAC	74.06288.A79	1st
DII (Diodes)	AP2301MPG-13	74.02301.079	2ND




SSID = Reset.Suspend

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Title <b>RUN POWER</b>			
Size A4	Document Number <b>Plano 11.6" UMA</b>	Rev <b>A00</b>	www.tuzhijie.com
Date: Friday, March 27, 2015		Sheet 37 of	110

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Title			
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SSID = OBFF


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Document Number  
**Plano 11.6" UMA**

Rev  
**A00**

Date: Friday, March 27, 2015

Sheet 40 of 110




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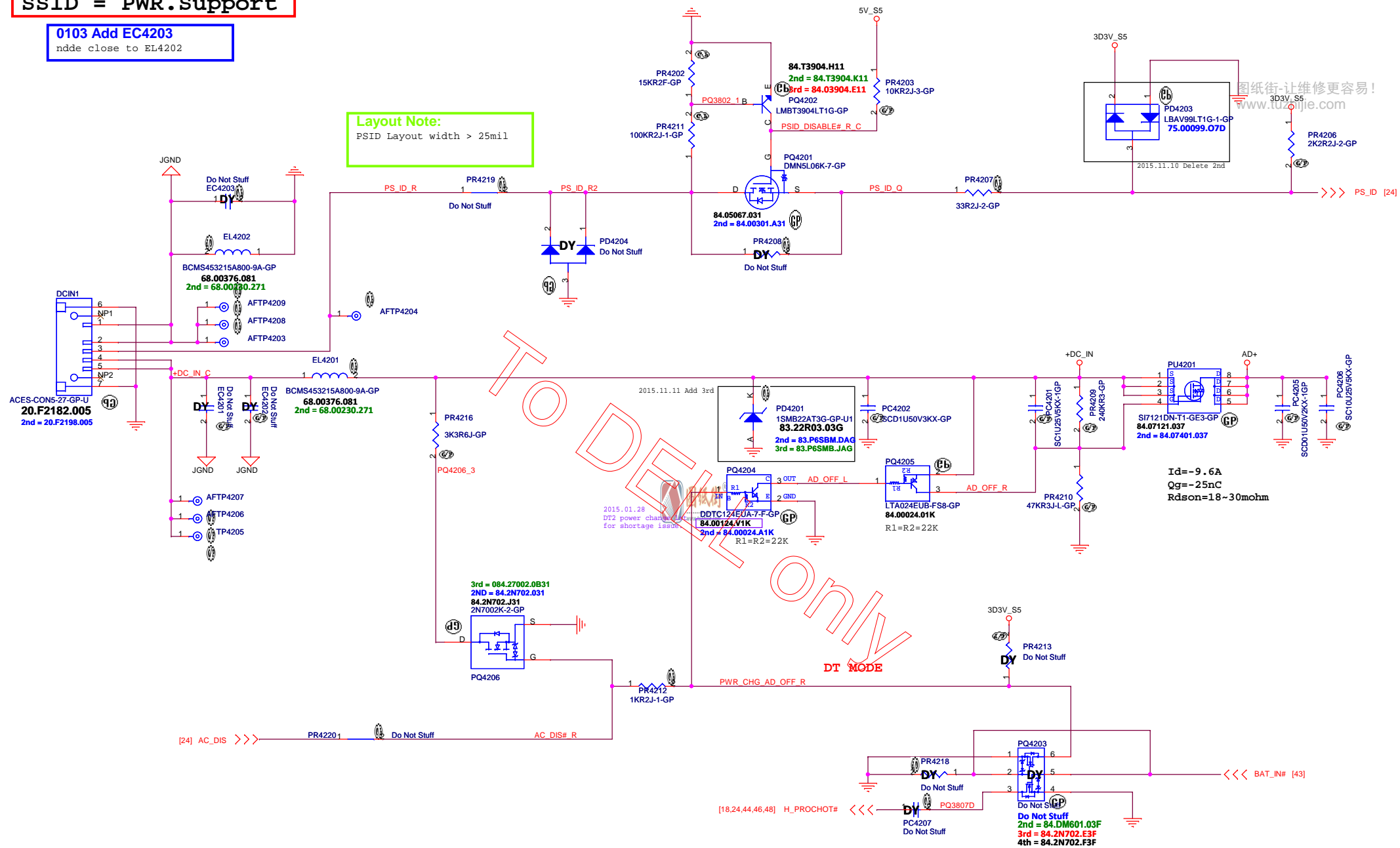


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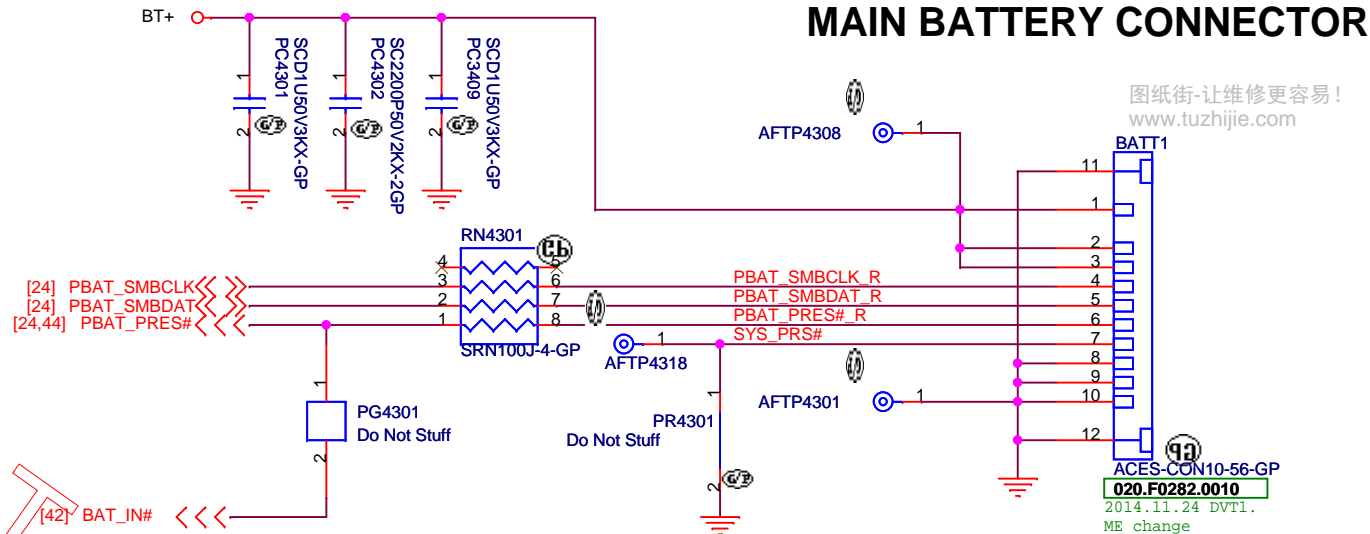
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Date: Friday, March 27, 2015		Sheet 41 of	110

0103 Add EC4203  
ndde close to EL4202

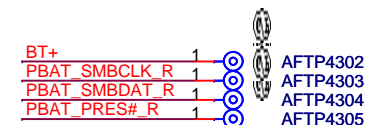
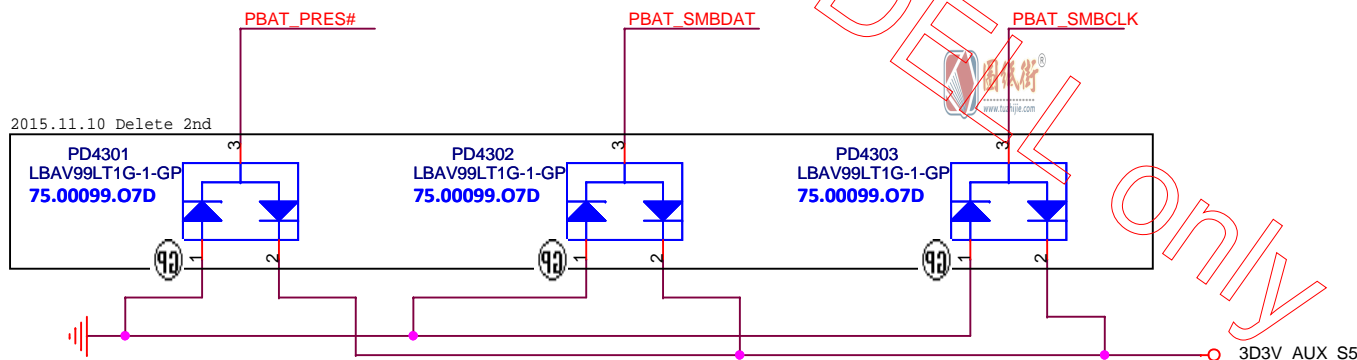
**Layout Note:**  
PSID Layout width > 25mil



SSID = PWR.Support

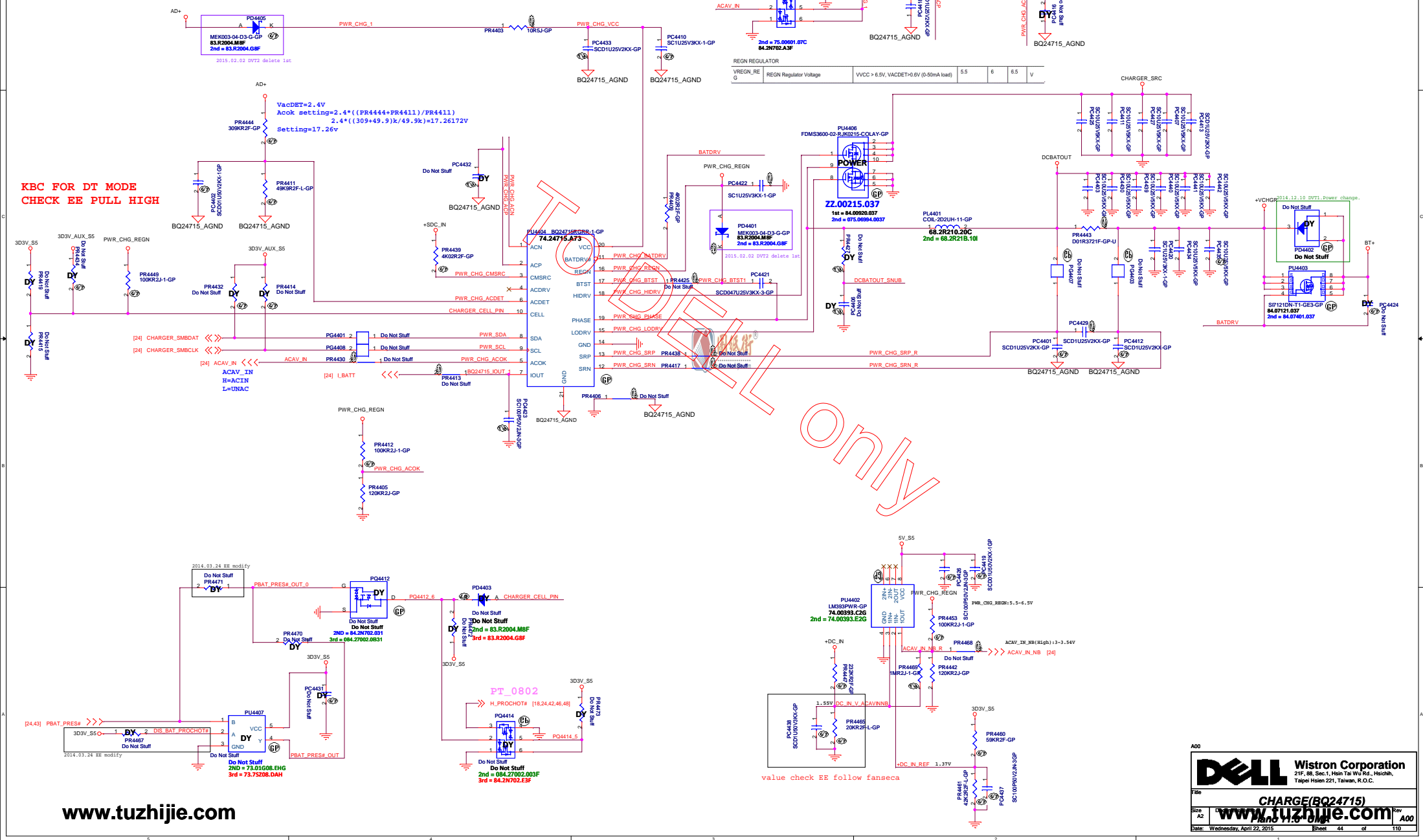


Layout Note: Place near Battery CONN



SSID = Charger

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SSID = PWR.Plane.Regulator\_5v3p3v

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Design Current=6A  
9.12A<OCP<10.77A

Design Current=5.25A  
8.25A<OCP<9.75A

Close to VFB Pin (pin5)

Close to VFB Pin (pin2)

I/P cap: CHIP CAP C 10U 25V K0805 X5R/ 78.10622.51L  
Inductor: CHIP CHOKER 4.7UH PCMC063T-4R7MS Cynotec 28mohm/33mohm Isat =6.5Arms 68.4R71A.20H  
O/P cap:CHIP CAP T 220U 6.3V M3528 PSL /NEC/ 25mOhm / 77.C2271.45L  
H/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037  
L/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037

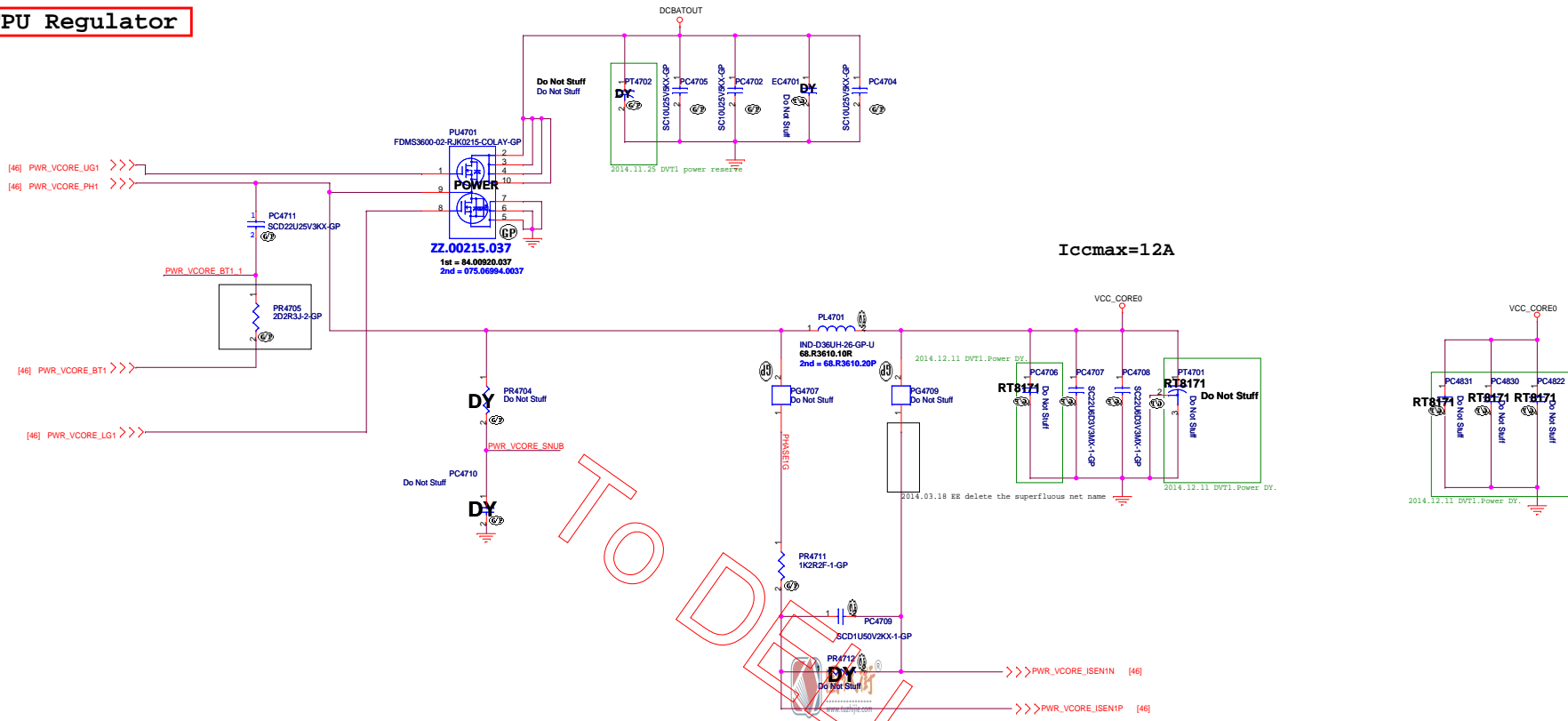
TPS51225 & TPS51285 Co-Lay

	TPS51225	TPS51285
R1	100K	20K
R2	107K	21.5K
R3	DY	200

I/P cap: CHIP CAP C 10U 25V K0805 X5R/ 78.10622.51L  
Inductor: CHIP CHOKER 2.2UH PCMC063T-2R2MH 18mohm/20mohm Isat =14Arms 68.2R210.20B  
O/P cap:CHIP CAP T 220U 6.3V M3528 PSL /NEC/ 25mOhm / 77.C2271.45L  
H/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037  
L/S:SIS780 / 14.5mOhm/17.5mOhm@4.5Vgs / 84.00780.037

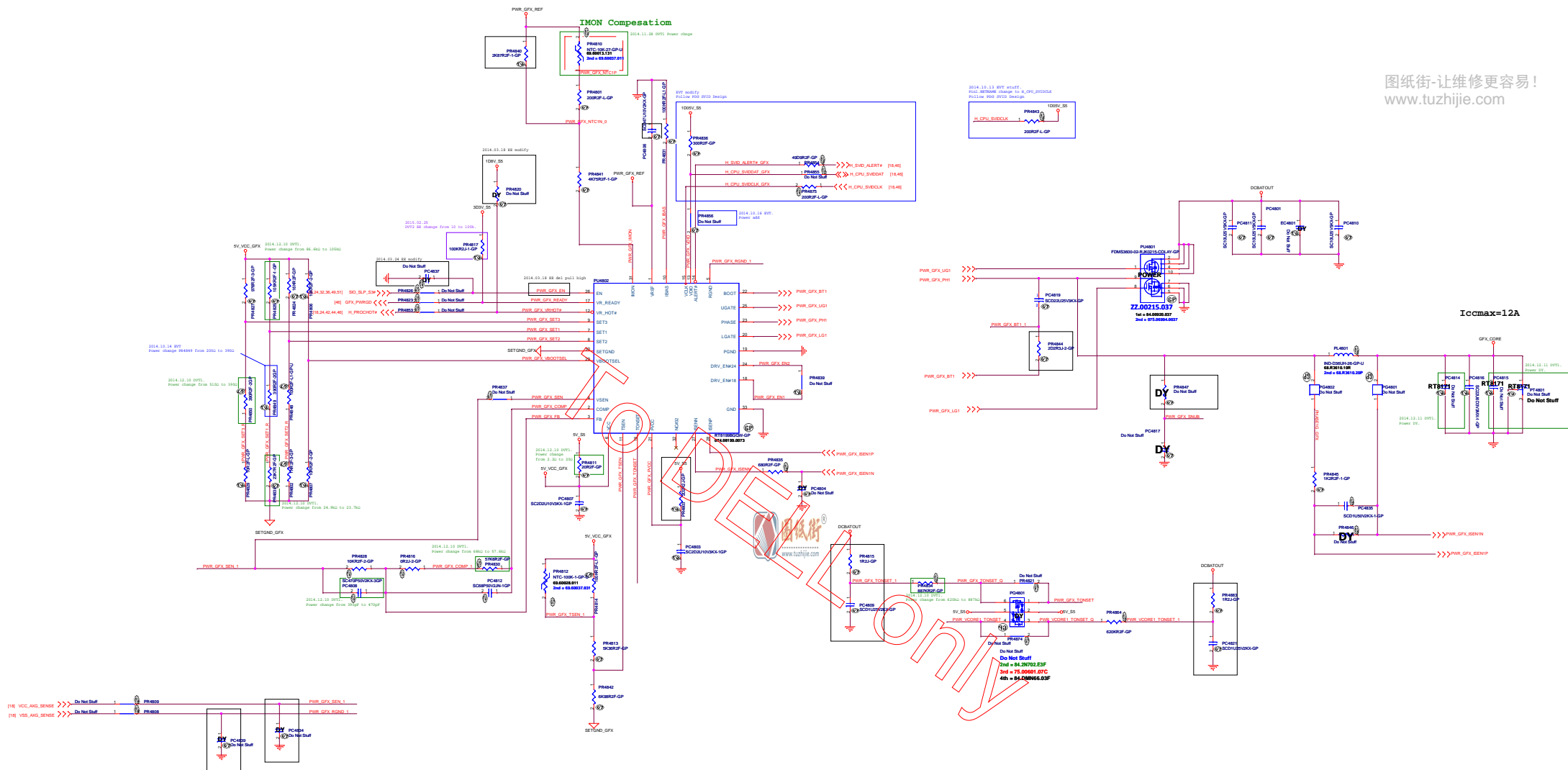


SSID = CPU Regulator



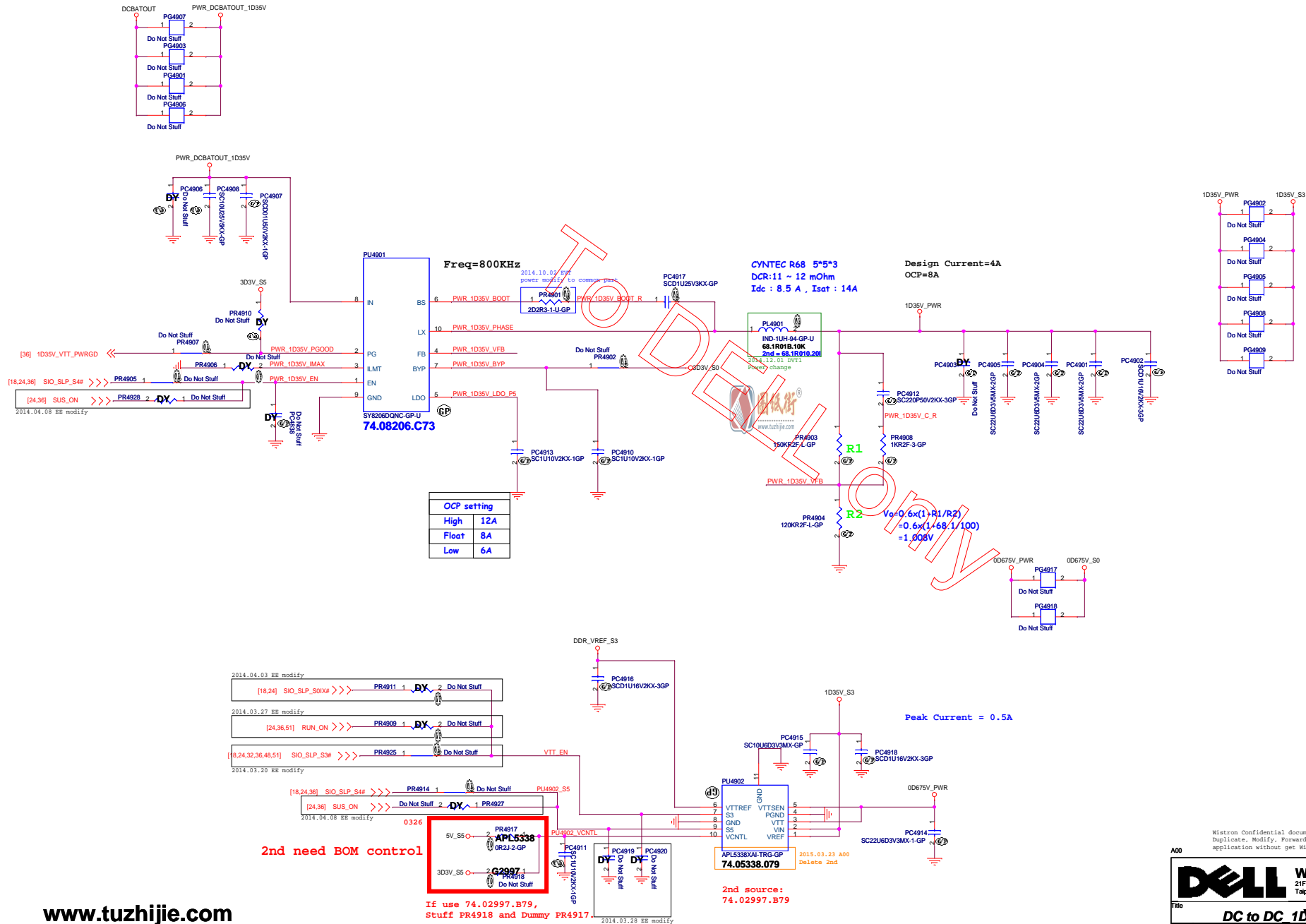
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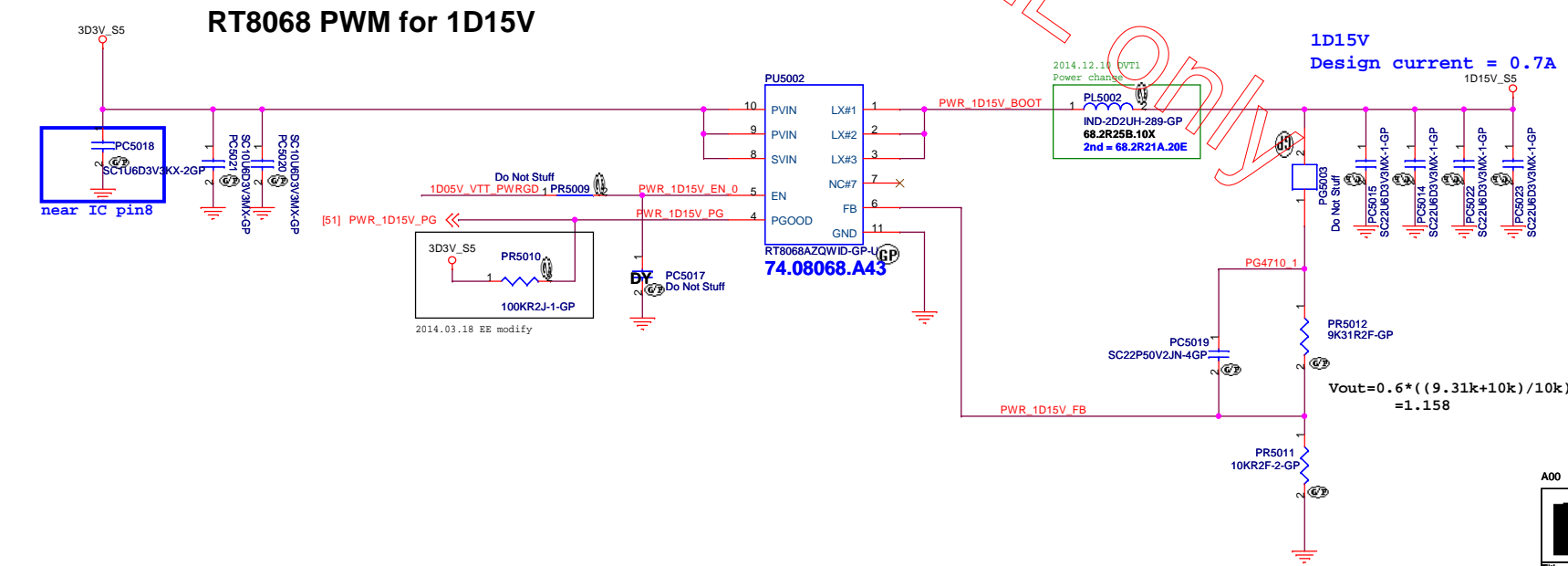
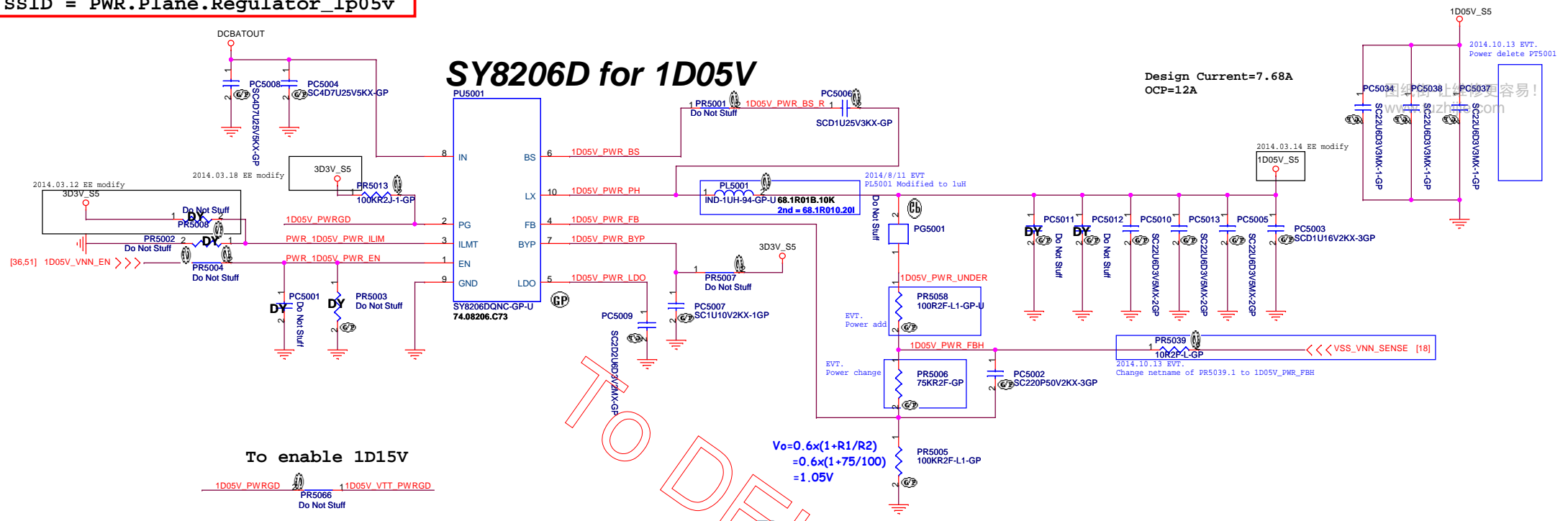


# SY8206D for 1D35V

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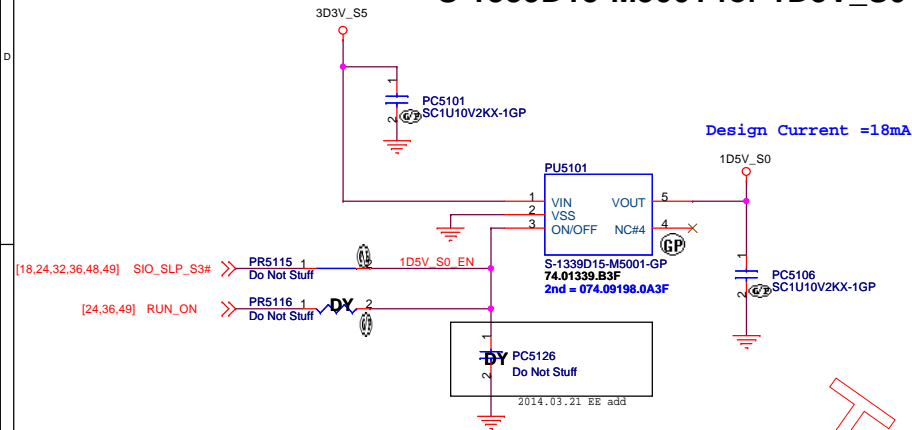


SSID = PWR.Plane.Regulator\_1p05v

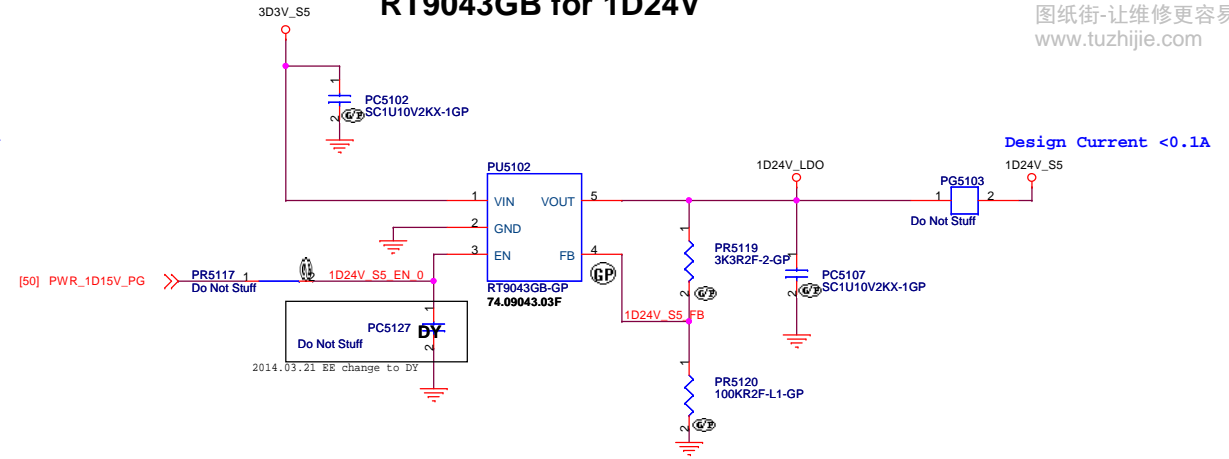


SSID = PWR.Plane.Regulator\_1p5v

### S-1339D15-M5001 for 1D5V\_S0



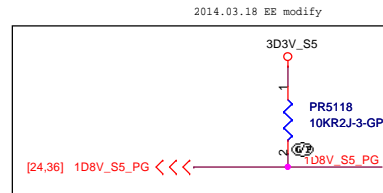
### RT9043GB for 1D24V



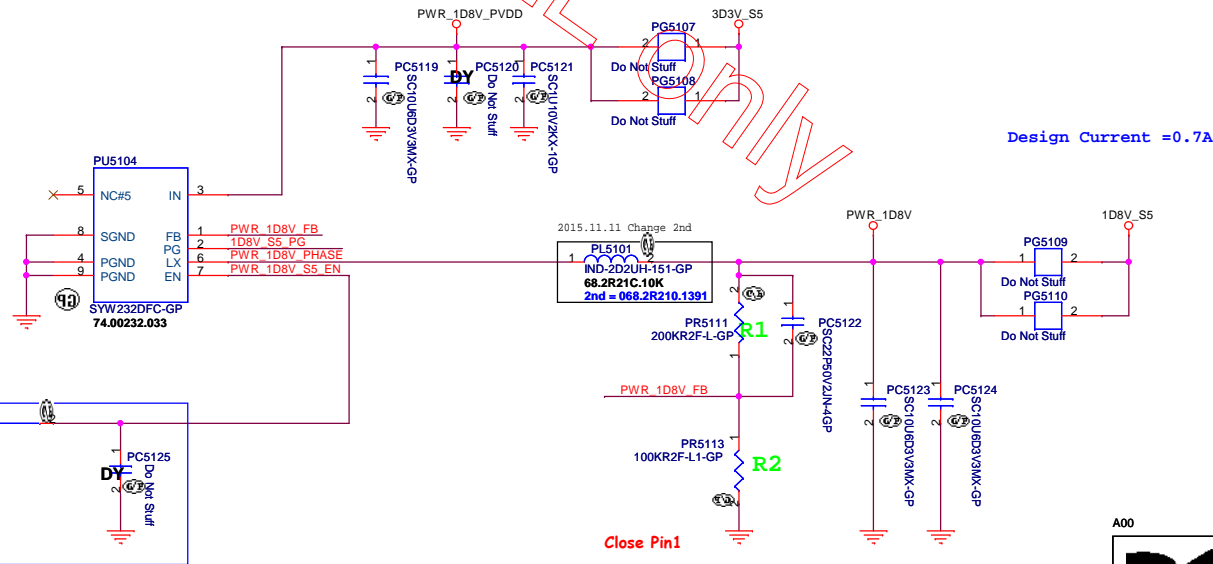
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SSID = PWR.Plane.Regulator\_1p8v

### SYW232 for 1D8V\_S5

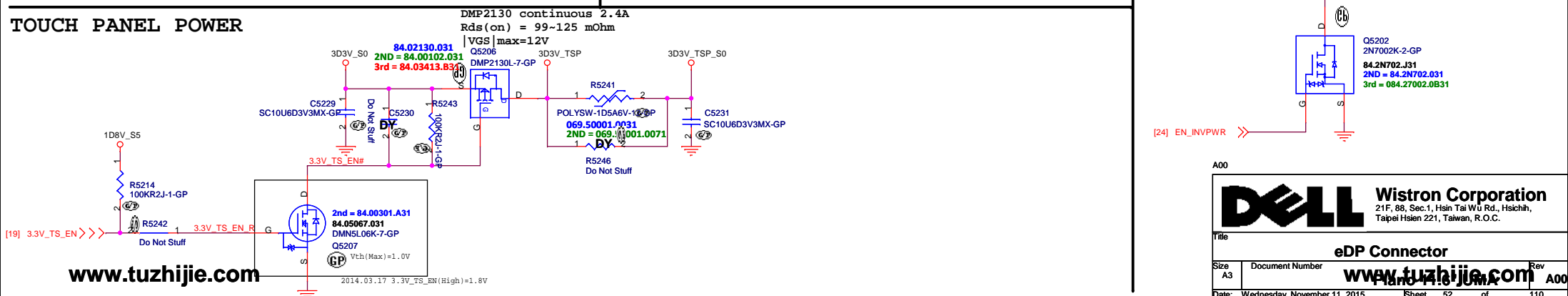
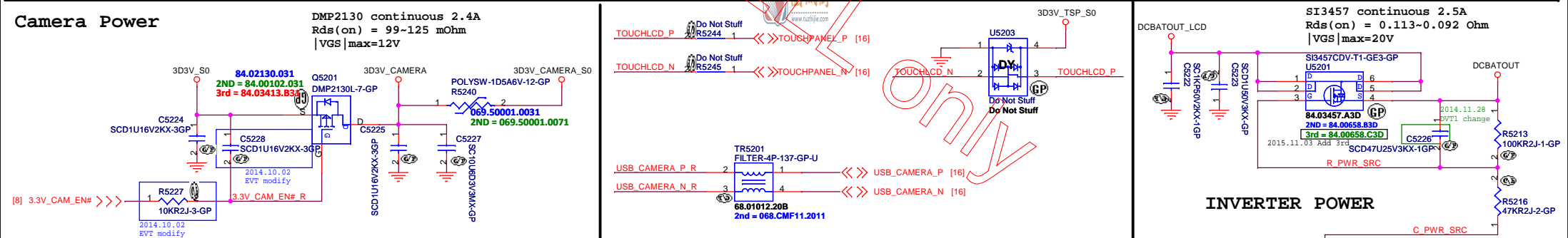


2014.03.18 EE modify



Close Pin1

$$V_o = 0.6 \times (1 + R1/R2) \\ = 0.6 \times (1 + 200/100) \\ = 1.8$$



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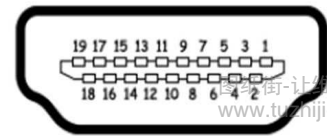
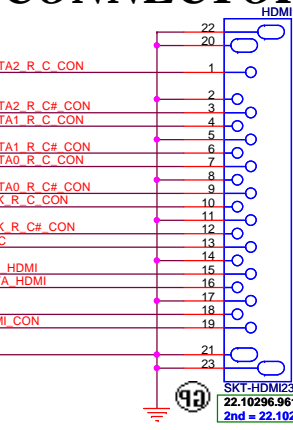
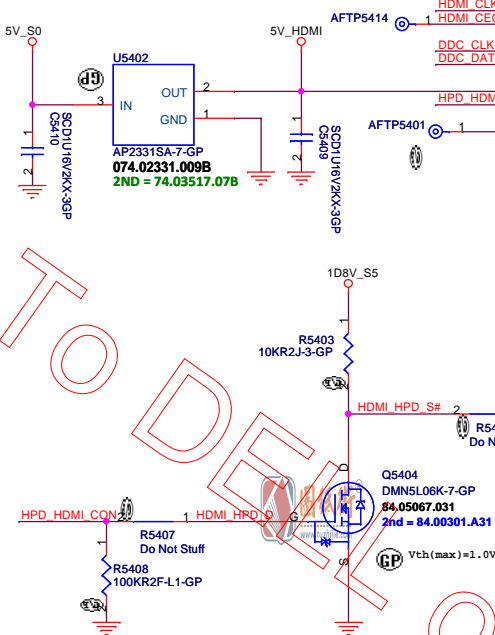
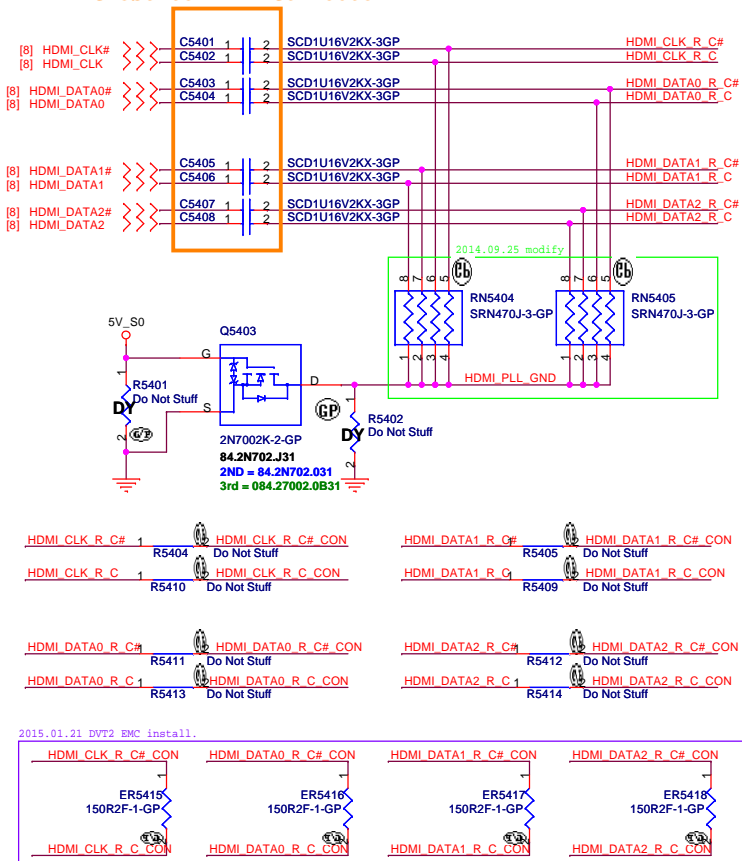
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SSID = VIDEO

HDMI CONNECTOR

Close to HDMI Connector



Pin#	Signal	Pin#	Signal
1	TMDS data 2+	11	TMDS clock shield
2	TMDS data 2 shield	12	TMDS clock-
3	TMDS data 2-	13	CEC
4	TMDS data 1+	14	No connected
5	TMDS data 1 shield	15	DDC clock
6	TMDS data 1-	16	DDC data
7	TMDS data 0+	17	Ground
8	TMDS data 0 shield	18	+5V power
9	TMDS data 0-	19	Hot plug detect
10	TMDS clock+		

4.2.9 Hot Plug Detect Signal (HPD)

The ground reference for the Hot Plug Detect signal is the DDC/CEC Ground pin.

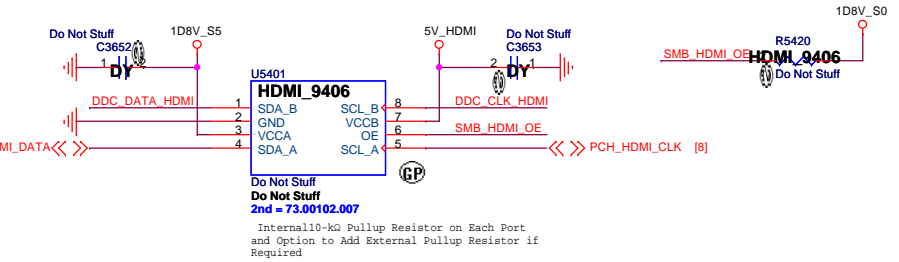
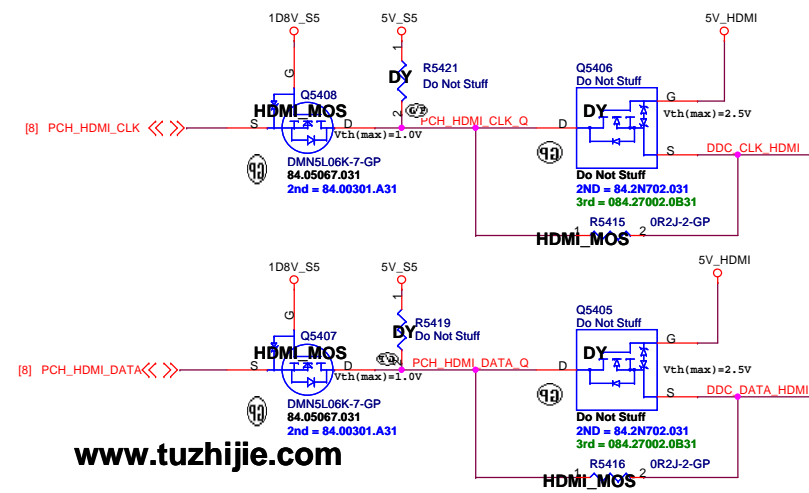
Table 4-38 Required Output Characteristics of Hot Plug Detect Signal

Item	Value
High voltage level (Sink)	Minimum 2.4 Volts, Maximum 5.3 Volts
Low voltage level (Sink)	Minimum 0 Volts, Maximum 0.4 Volts
Output resistance	1000 ohms ±20%

Table 4-39 Required Detection Levels for Hot Plug Detect Signal

Item	Value
High voltage level (Source)	Minimum 2.0 Volts, Maximum 5.3 Volts
Low voltage level (Source)	Minimum 0 Volts, Maximum 0.8 Volts

Level shift  $V_{th}(GS) = 1V$ ,  $C_{iss} < 50pF$



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File **HDMI Level Shifter/Connector**  
Size A3 Document Number **www.tuzhijie.com** Rev  
Date: Wednesday, April 22, 2015 Sheet 54 of 110

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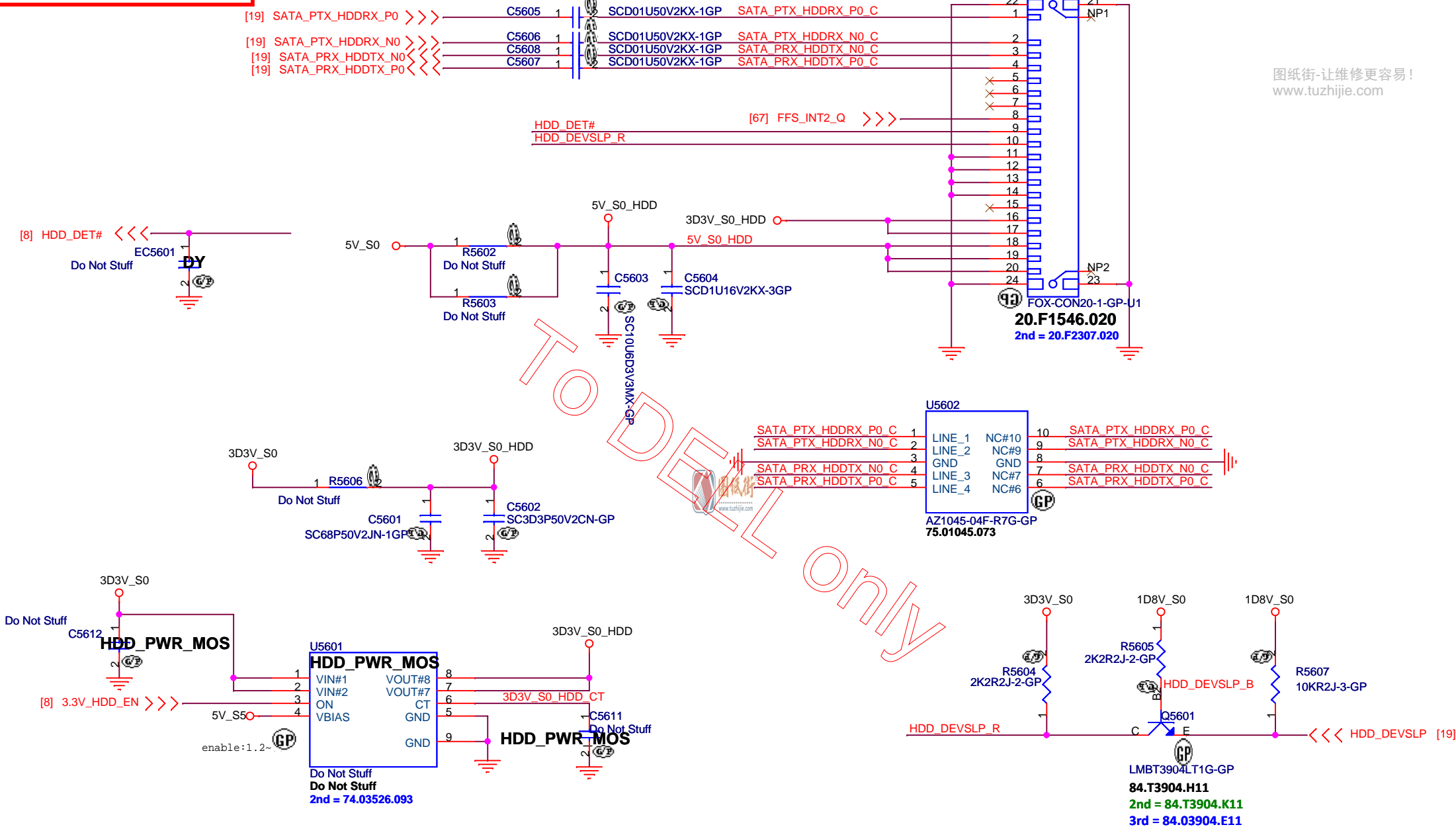
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Date:	Friday, March 27, 2015	Sheet 55 of	110



SSID = SATA



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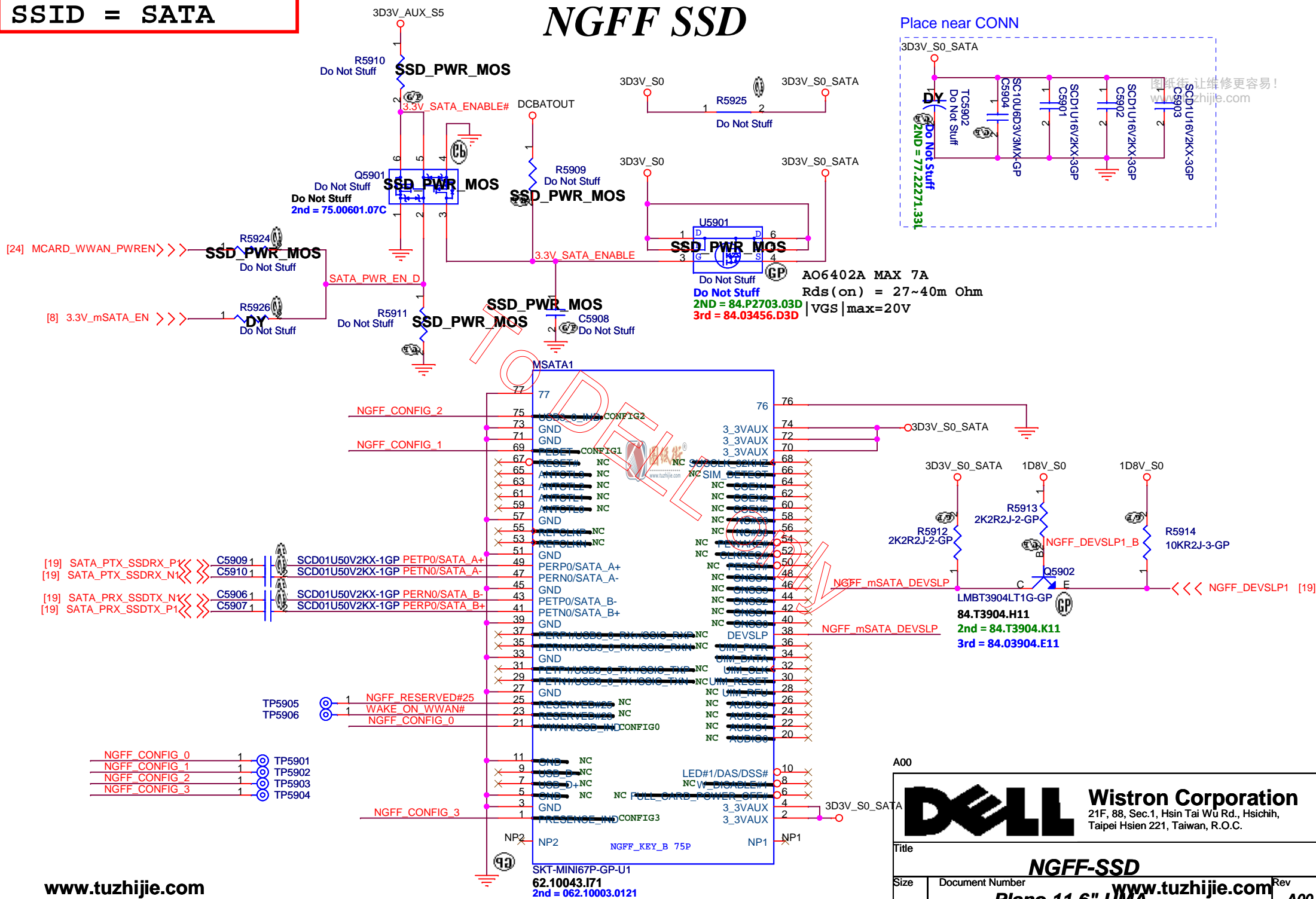
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Date: Friday, March 27, 2015		Sheet 57 of	110



SSID = SATA

# NGFF SSD

Place near CONN



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SSID =WIRELESS


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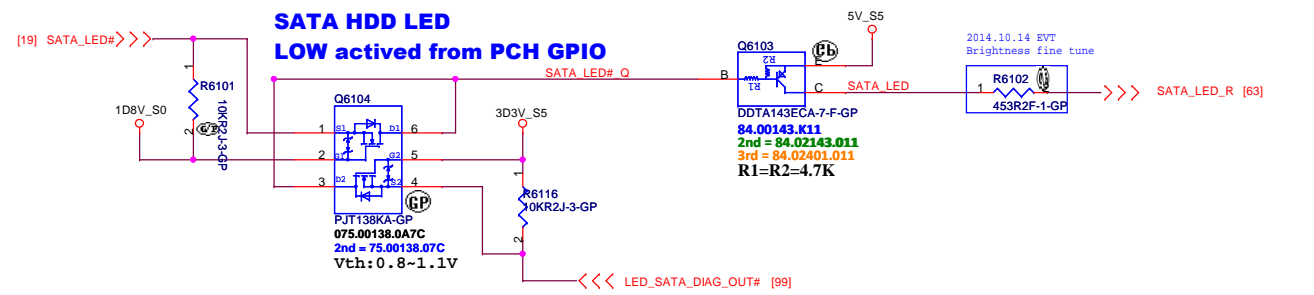
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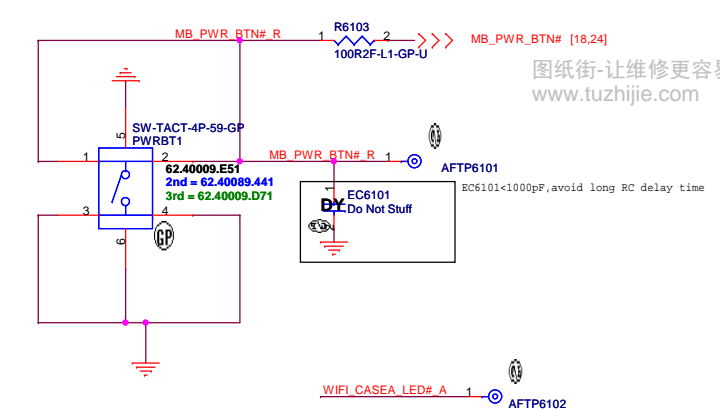
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uSIM			
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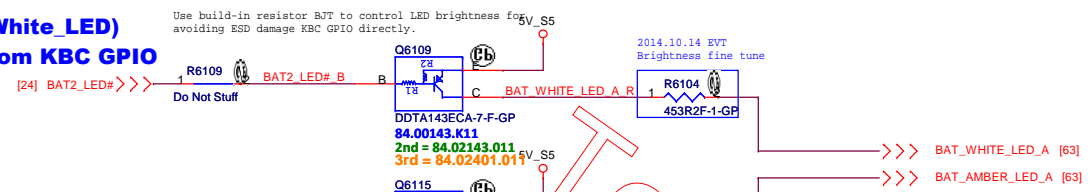
SSID = User.Interface



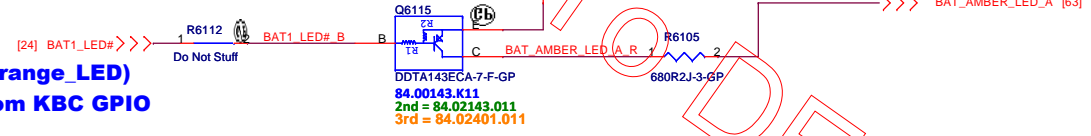
POWER BUTTON



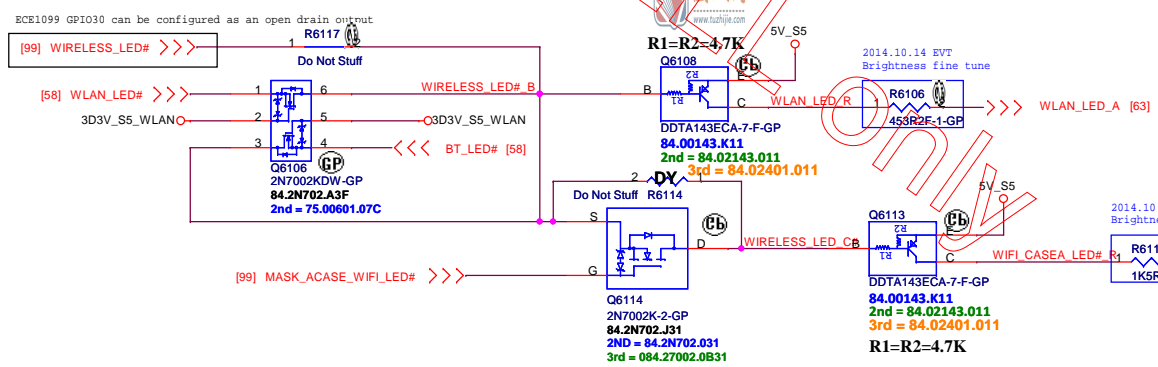
**Battery LED2(White\_LED)**  
LOW active from KBC GPIO



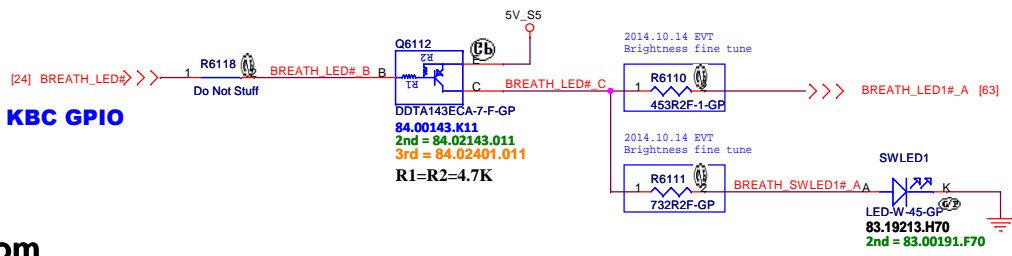
**Battery LED1(Orange\_LED)**  
LOW active from KBC GPIO



**WLAN LED**  
LOW active from KBC GPIO



**Power LED**  
LOW active from KBC GPIO



POWER BUTTON LED

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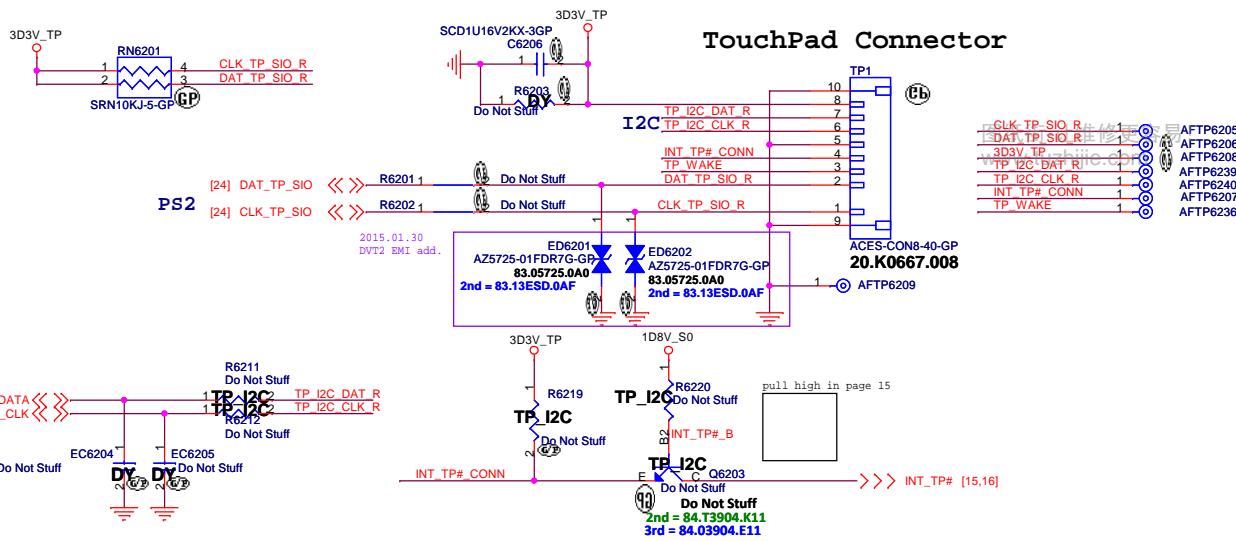
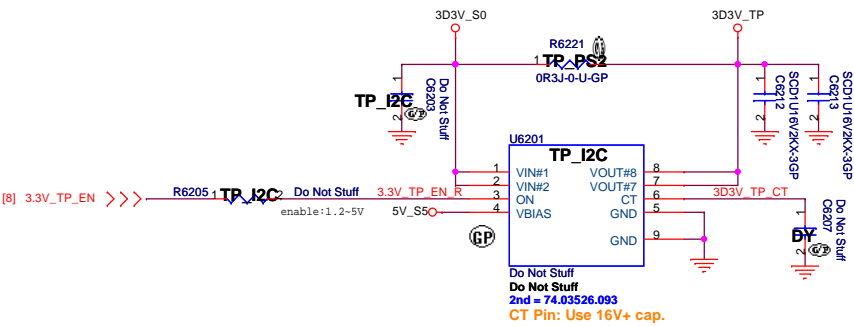
Title

Size Document Number **LED** **www.tuzhijie.com** Rev

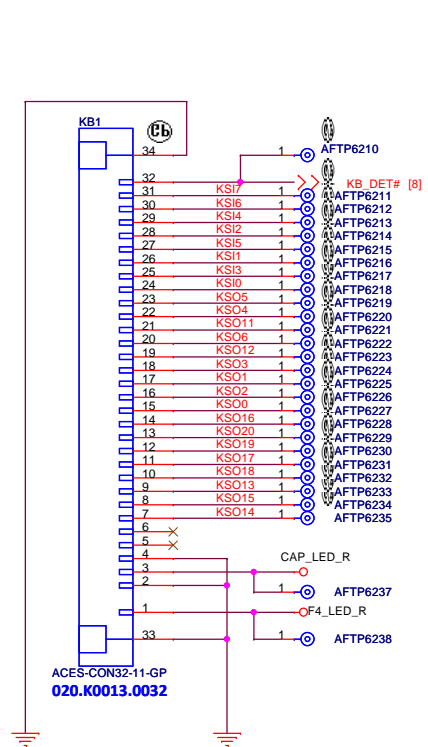
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Date: Wednesday, November 11, 2015 Sheet 61 of 110

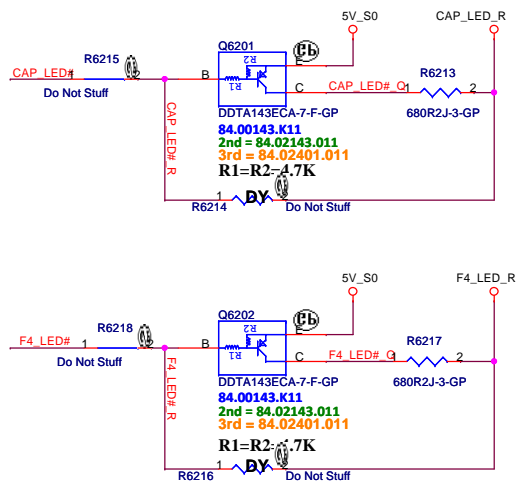
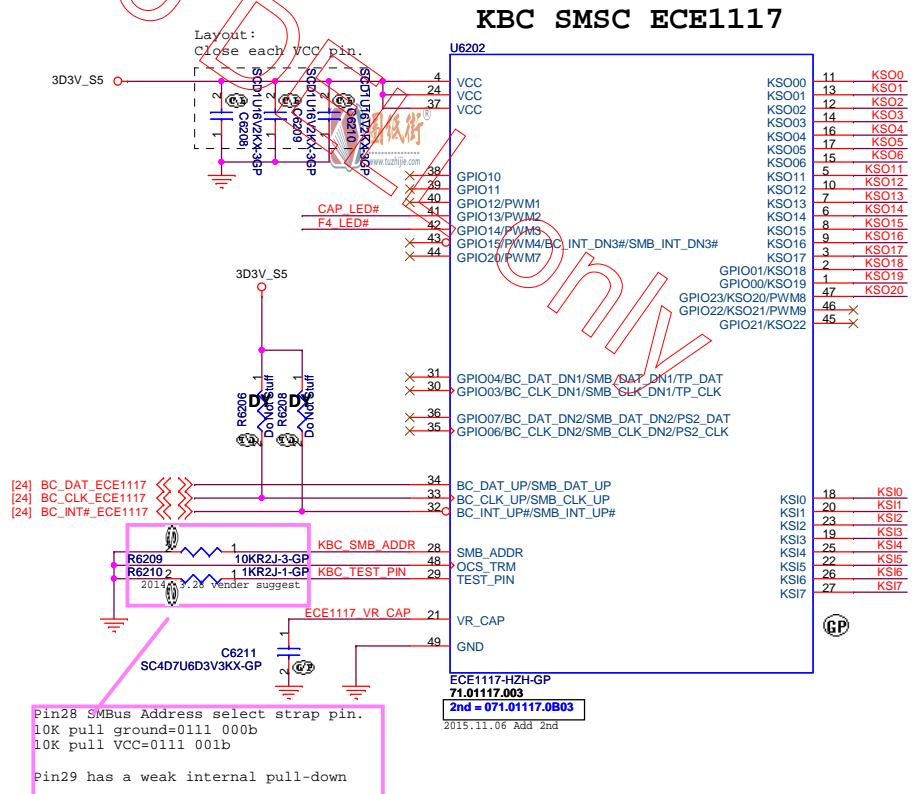
SSID = KBC    SSID = Touch.Pad



Internal KeyBoard Connector



PIN#	SIGNAL
1	Diagnostic(LOOP to Pin 31)
2	KS1[7] = KBD S8
3	KS1[6] = KBD S7
4	KS1[4] = KBD S5
5	KS1[2] = KBD S3
6	KS1[5] = KBD S6
7	KS1[1] = KBD S2
8	KS1[3] = KBD S4
9	KS1[0] = KBD S1
10	KSO[5] = KBD D6
11	KSO[4] = KBD D5
12	KSO[11] = KBD D8
13	KSO[6] = KBD D7
14	KSO[12] = KBD D9
15	KSO[3] = KBD D4
16	KSO[1] = KBD D2
17	KSO[2] = KBD D3
18	KSO[0] = KBD D1
19	KSO[16] = KBD D13
20	KSO[20] = KBD D17
21	KSO[19] = KBD D16
22	KSO[17] = KBD D14
23	KSO[18] = KBD D15
24	KSO[13] = KBD D10
25	KSO[15] = KBD D12
26	KSO[14] = KBD D11
27	NC
28	NC
29	GND
30	CapsLK_LED
31	GND
32	F4_LED



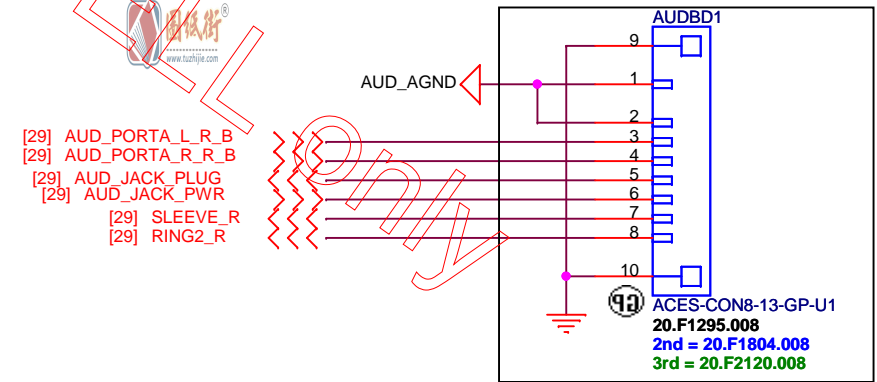
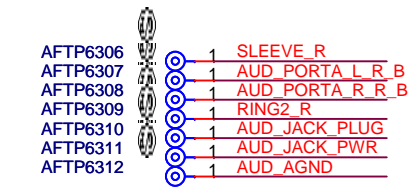
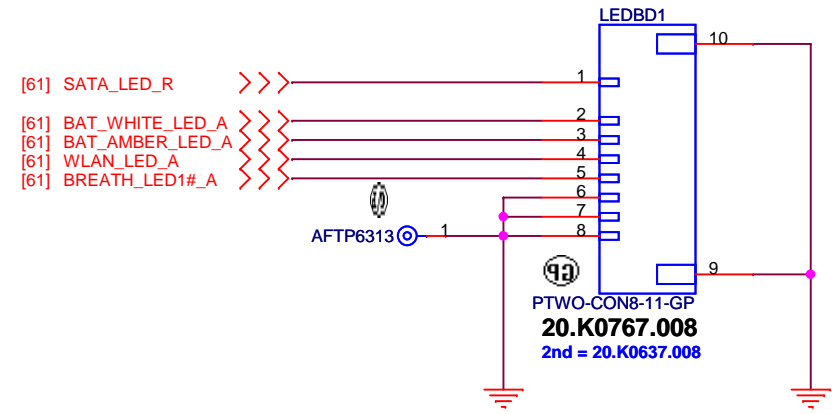
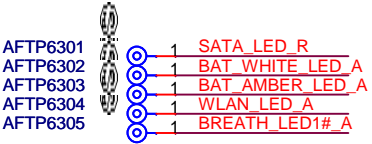
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Date: Wednesday, November 11, 2015 Sheet 62 of 110



2014.06.03 Modify pin assign for connector change

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Rev **A00**

Date: Wednesday, April 22, 2015

Sheet 63 of 110




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Date: Friday, March 27, 2015

Sheet 64 of 110

SSID = DEBUG PORT


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Date:	Friday, March 27, 2015		Sheet 65 of 110

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Sheet 71 of 110




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<b>GPU (1/5) PEG</b>			
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Sheet 74 of 110


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Date: Friday, March 27, 2015	Sheet	79 of	110




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**VRAM7,8 (4/4)**

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Sheet 81 of 110

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**VGA CORE**


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Date: Friday, March 27, 2015	Sheet 82 of 110
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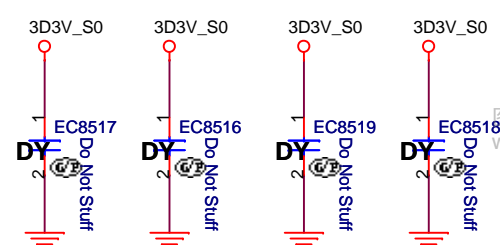
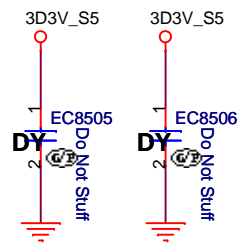
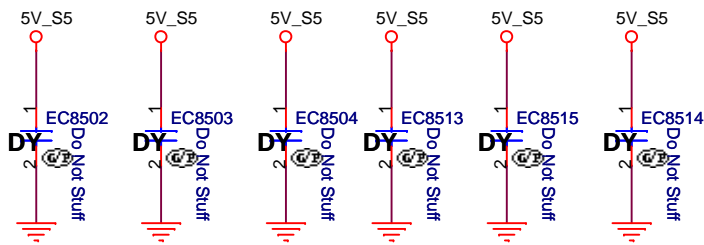
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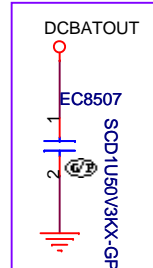
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Date: Friday, March 27, 2015	Sheet	84 of	110

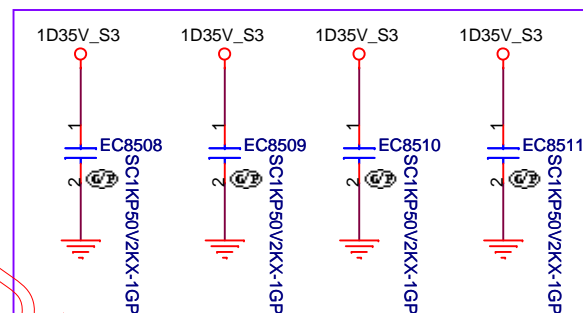
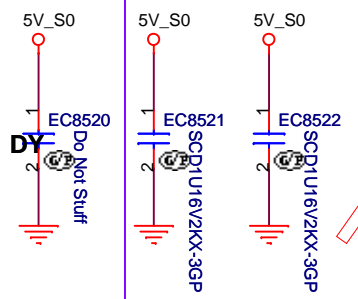


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2015.01.26 DVT2 RF install

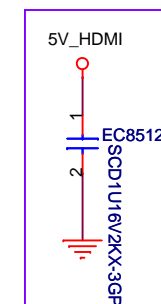


2015.01.26 DVT2 RF add



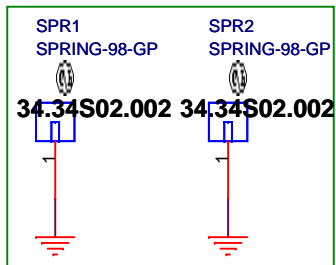
2014/12/01 DVT1 EMI add

2015.01.21 DVT2 EMI change from 100pF to 1000pF

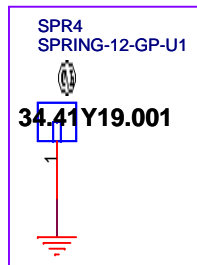


2015.01.21 DVT2 EMI add.

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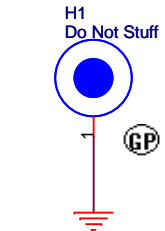


2014.12.01 DVT1  
EMC install

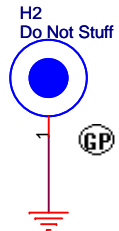


2015.01.30 DVT2 EMI add

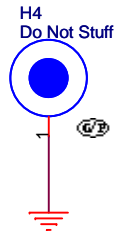
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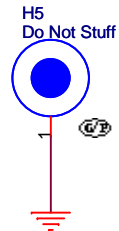
Do Not Stuff



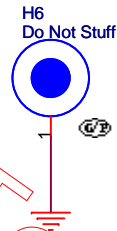
Do Not Stuff



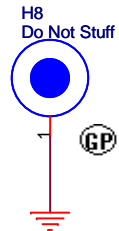
Do Not Stuff



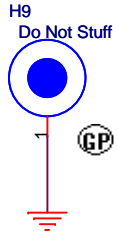
Do Not Stuff



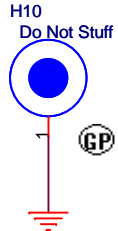
Do Not Stuff



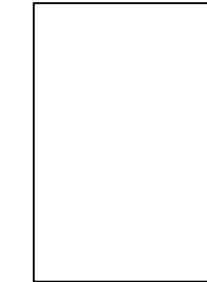
Do Not Stuff



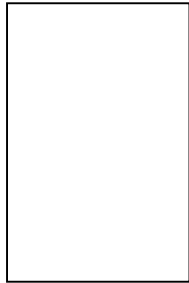
Do Not Stuff



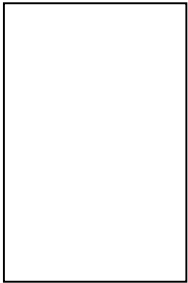
Do Not Stuff



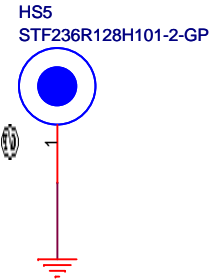
2014.09.26 Delete H11



2014.06.13 Delete HS1



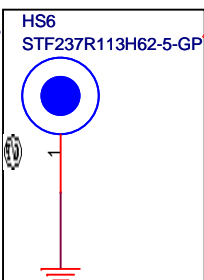
2014.07.01 Delete HS2



34.4YG18.101  
2nd = 34.4YG18.201

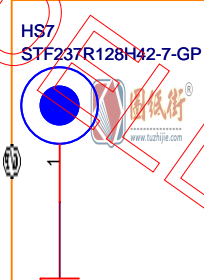
2014.08.05 change HS5:

34.4Z003.201->34.4YG18.101



34.4SE26.101  
2nd = 34.4SE26.001  
3rd = 34.4SE26.201

2014.07.11 ME chnage



34.4WZ01.001  
2nd = 34.4WZ01.101  
3rd = 34.4WZ01.201

2015.03.16 A00.

ME add 2nd 34.4WZ01.101

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	<b>Plano 11.6" UMA</b>	<b>A00</b>	
Date:	Friday, March 27, 2015	Sheet	86 of 110


SSID = USH

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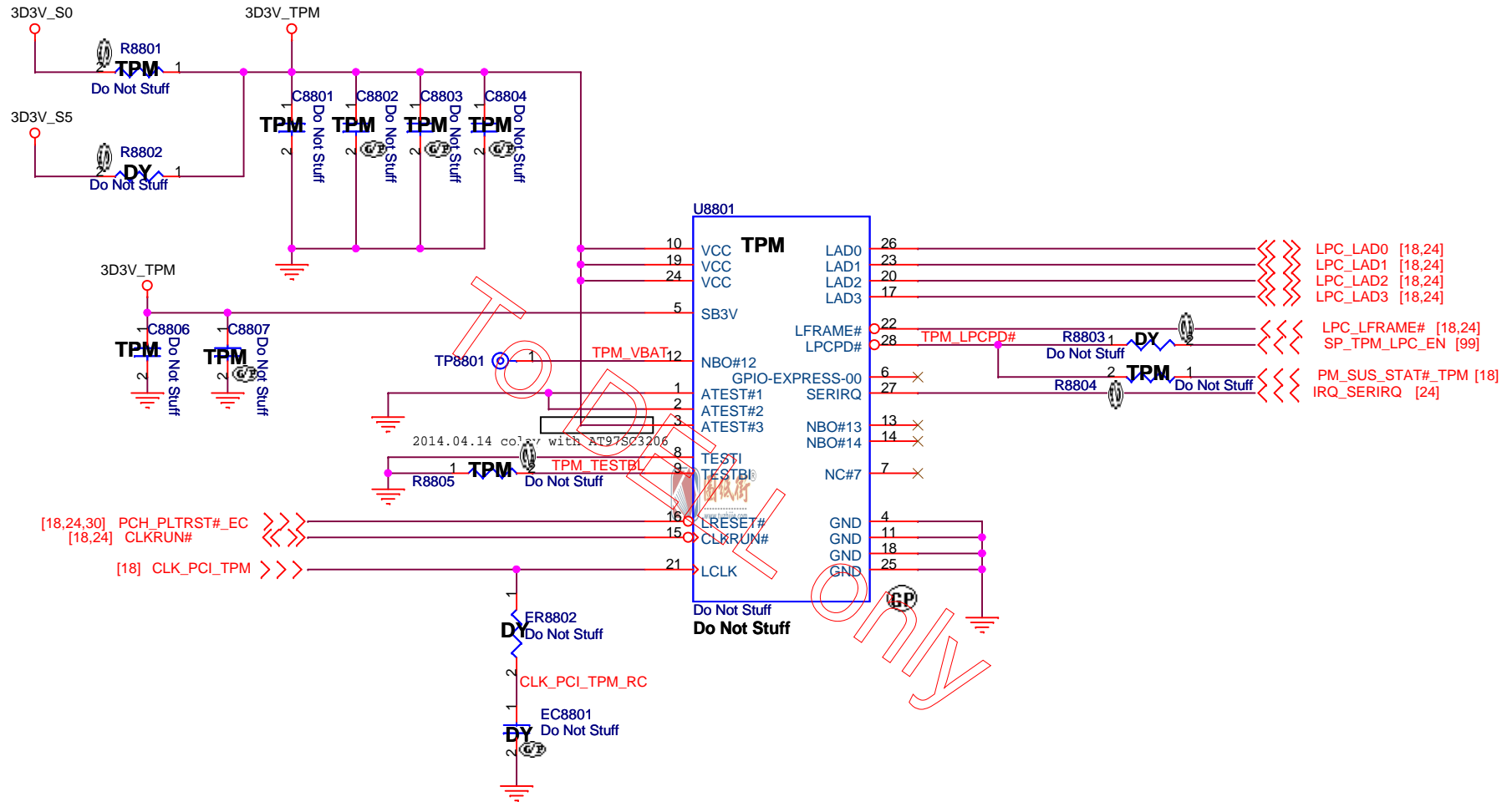
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Title <b>USH Board Connector</b>			
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Date: Friday, March 27, 2015		Sheet 87	of 110



**SSID = TPM**

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***TPM***

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<b>Plano 11.6" UMA</b>				<b>A00</b>
Date:	Wednesday, April 22, 2015	Sheet	88	of 110

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Date: Friday, March 27, 2015	Sheet 89 of 110
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Date: Friday, March 27, 2015		Sheet 90 of	110

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Title <b>Reserved</b>			
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SSID = Docking

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**DOCKING**

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Sheet 93 of 110

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Title			
<b>LAN SW</b>			
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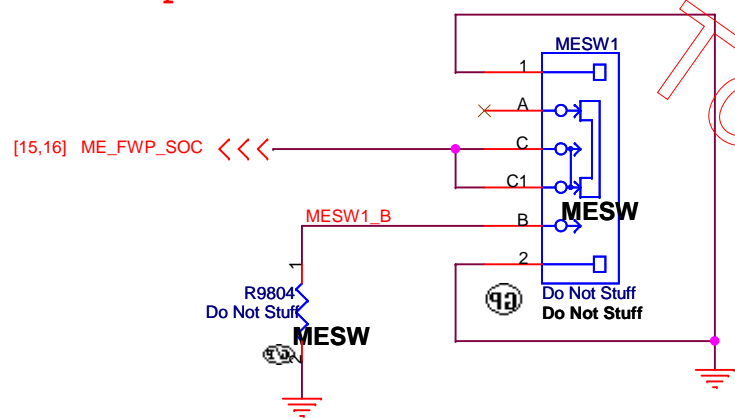
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Title			
<b>USB2.0 HUB</b>			
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Date: Friday, March 27, 2015		Sheet 97 of	110

SSID = User.Interface

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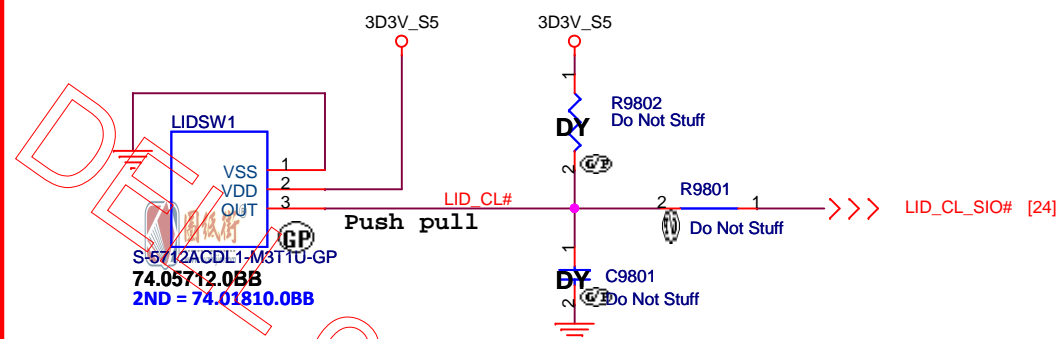
## Firmware SW

Default setting:pull high  
DY for production



	A	B
ME_FWP_SOC	High	Low
	Normal Operation (Default)	Override

## Lid Close:Active Low



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SSID = SIO

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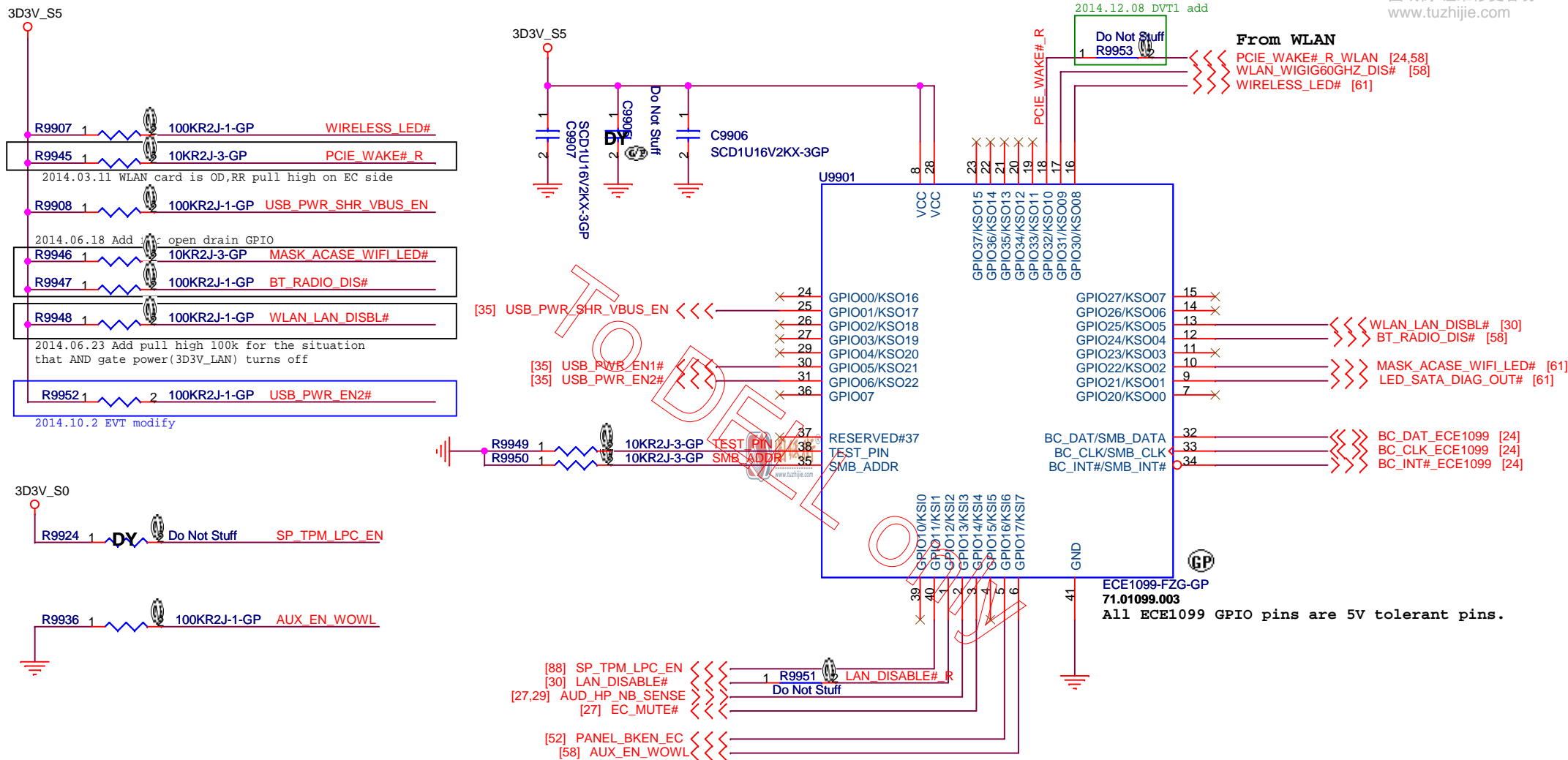


Table 29. Straps (Sheet 1 of 2)

Signal Name	Purpose	Pull-Up/Pull-Down	Strap Description
GPIO_SUS[0]	DDI0 Detect	Weak internal pull-down	DDI0 Detect 0 = DDI0 not detected 1 = DDI0 detected
GPIO_SUS[1]	DDI1 Detect	Weak internal pull-down	DDI1 Detect 0 = DDI1 not detected 1 = DDI1 detected
GPIO_SUS[2]	A16 swap overdrive	Weak internal pull-up	Top Swap (A16 Override) 0 = Change Boot Loader address 1 = Normal Operation
GPIO_SUS[4]	Boot BIOS Strap BBS	Weak internal pull-up	BIOS Boot Selection 0 = - 1 = SPI
GPIO_SUS[5]	Flash Descriptor Security Override	Weak internal pull-up	Security Flash Descriptors 0 = Override 1 = Normal Operation

Signal Name	Purpose	Pull-Up/Pull-Down	Strap Description
GPIO_SUS[8]	ICLK, USB2, DDI SFR Supply Select	Weak internal pull-down	0 = Supply is 1.25V 1 = Supply is 1.35V  This strap also contains PLL LDO 0: supply is 1.25V; 1: supply is 1.35V.  Selects supply voltage for LDOs used for PLLs, thermal oscillators, USB2, ICLK and DDI
GPIO_SUS[9]	ICLK, USB2, DDI SFR Bypass	Weak internal pull-up	0 = No bypass 1 = Bypass with 1.05V
GPIO_SUS[10]	POSM Select	Weak internal pull-down	Selects which POSM will be observed at time 0 0 = Fuse controller 1 = PMC
GPIO_CAMERASB08	ICLK Xtal OSC Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass
GPIO_CAMERASB09	CCU SUS RO Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass
GPIO_CAMERASB11	RTC OSC Bypass	Weak internal pull-down	0 = No Bypass 1 = Bypass

CHV Straps [CRB] -- strap detect @ RSMRST# assertion				
Purpose	CHV Pin Name (refer CHV symbol PIN)	PU/PD (internal - Weak)	Options	Default State on board?
DSI Display Detected	GPIO_SUS3	PD	1 - DSI detect, 0 - Disable	Low
DFX Boot Halt Strap & VISA Early POSM	GPIO_SUS6	PU	1 - normal, 0 - Halt boot enable	High
DFX Sus Debug Strap	GPIO_SUS7	PU	1 - Normal, 0 - Sus Debug enable	High

USB2.0 MCP Side

Pair	Device
0	USB port 1 (usb charger)
1	USB port 2
2	WLAN (BT)
3	Touch Panel
4	CAMERA

USH Side

Pair	Device
0	NA
1	NA

USB HUB Side

Pair	Device
1	NA
2	NA
3	NA
4	NA

USB3.0 MCP Side

Pair	Device
1	USB port 1
2	USB port 2
3	N/A
4	N/A

PCIE Table

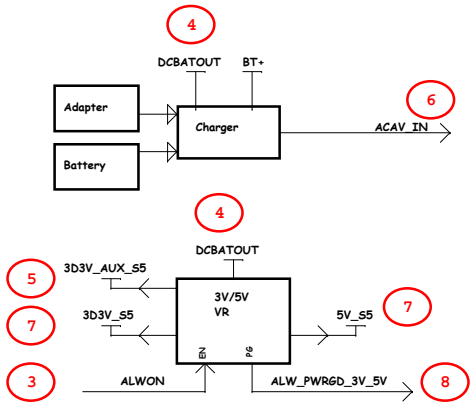
PCIE	
Lane	Device
1	NA
2	Card Reader
3	WLAN
4	LOM

SATA Table

SATA	
Pair	Device
0	HDD
1	NGFF SSD

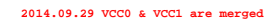
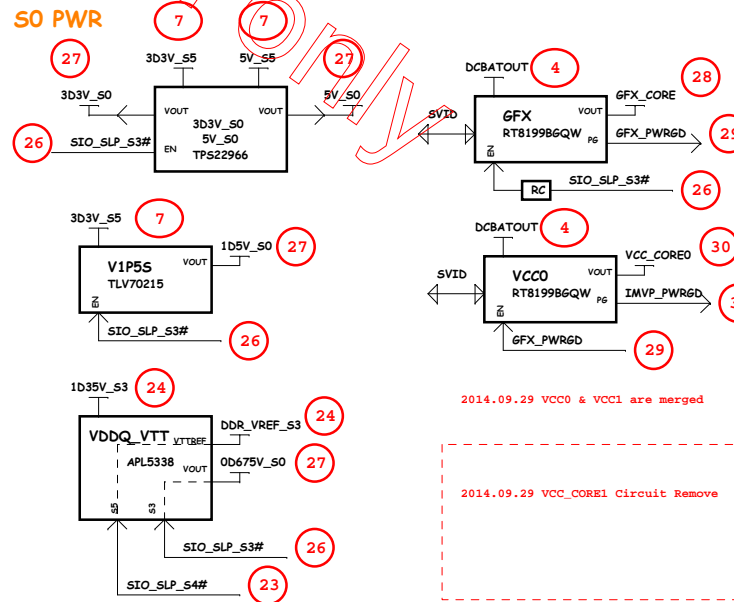
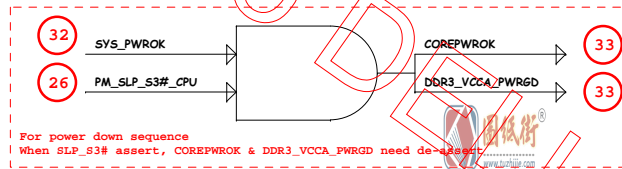
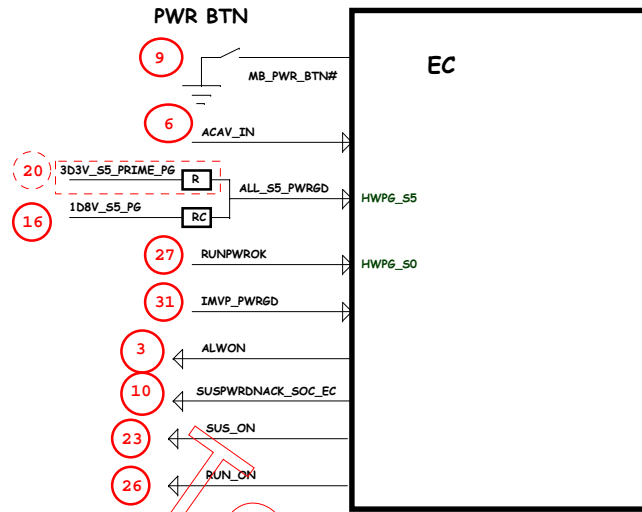
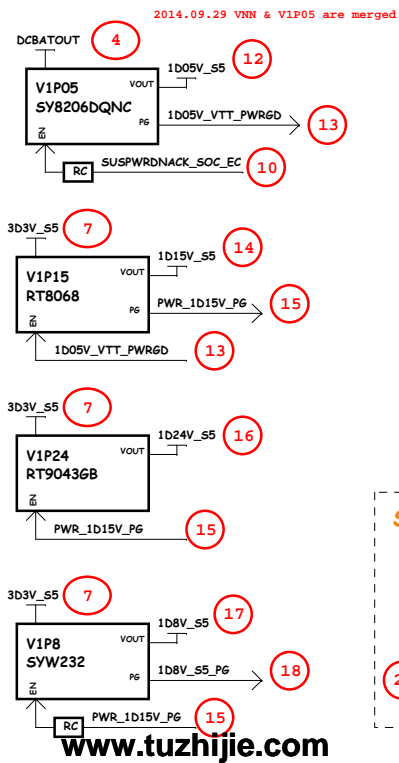
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## Braswell POWER UP SEQUENCE DIAGRAM

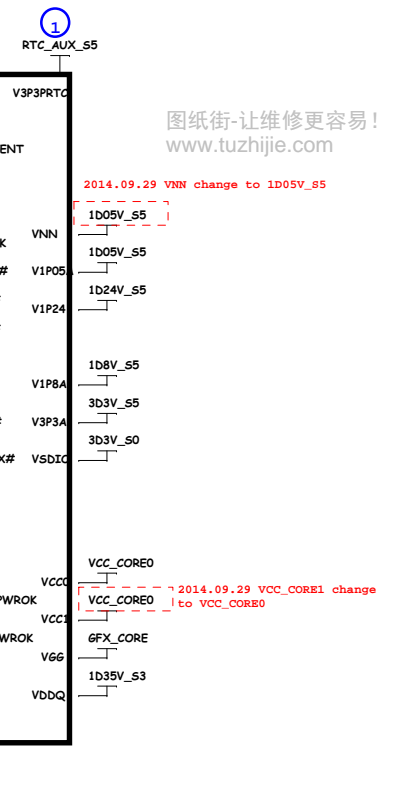


**S5 PWR**

2014.09.29 VNN Circuit Remove



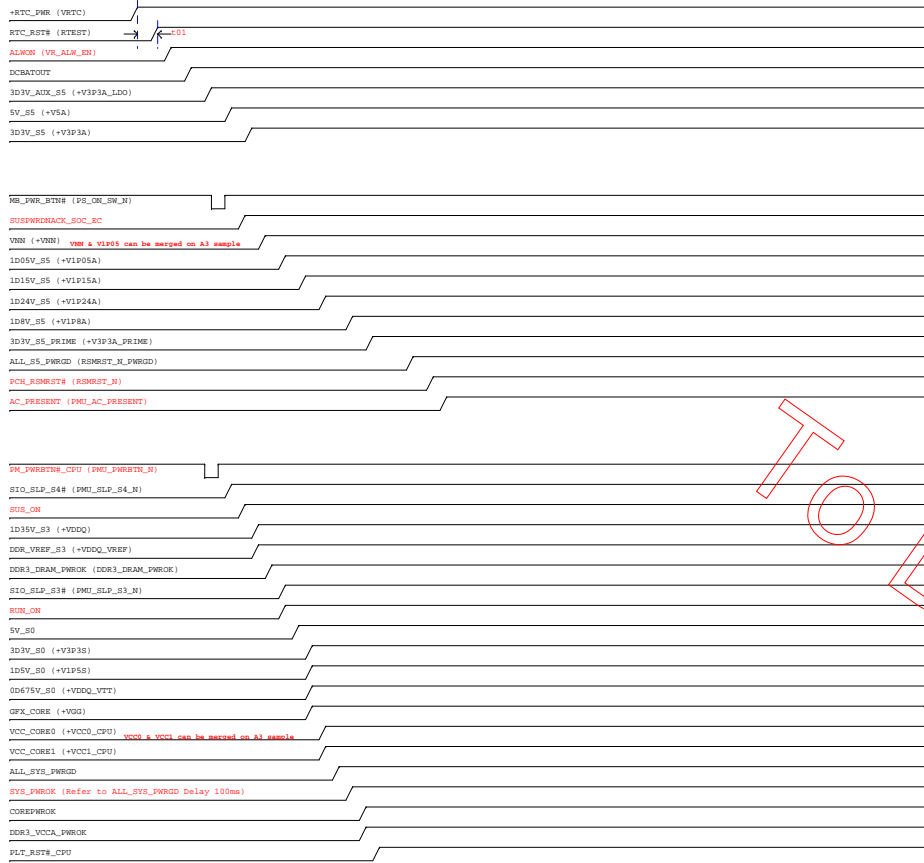
2014.09.29 VCC\_CORE1 Circuit Remove



## Intel-Power Up Sequence

(AC mode)

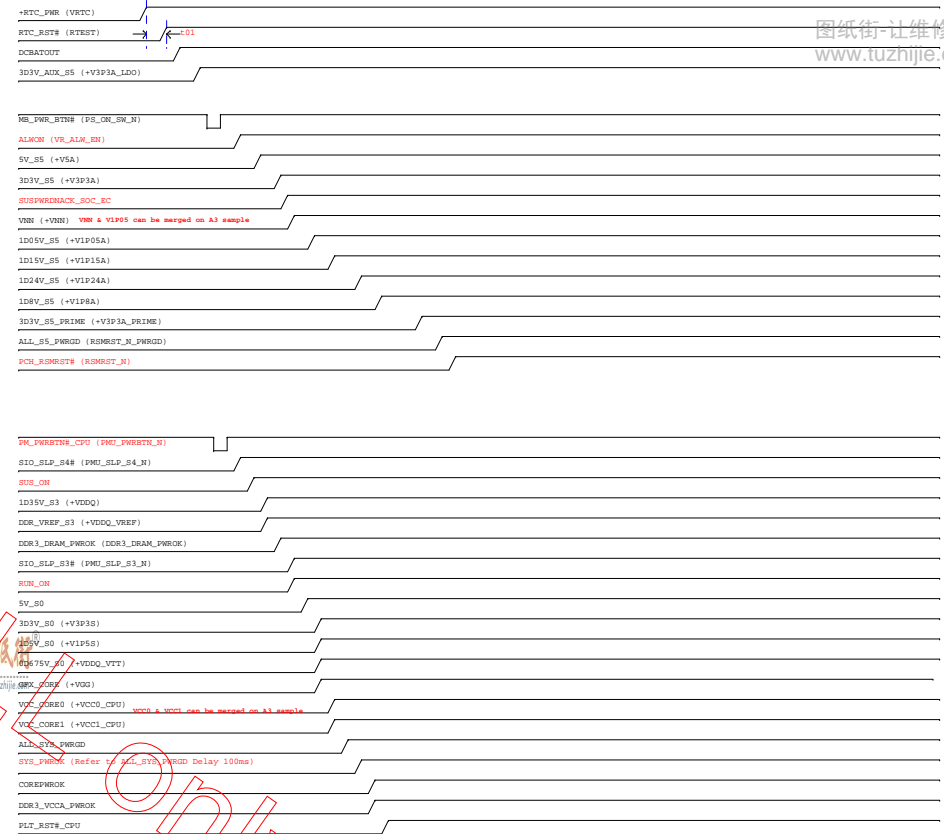
Red word : RMC GP20



## Intel-Power Up Sequence

(DC mode)

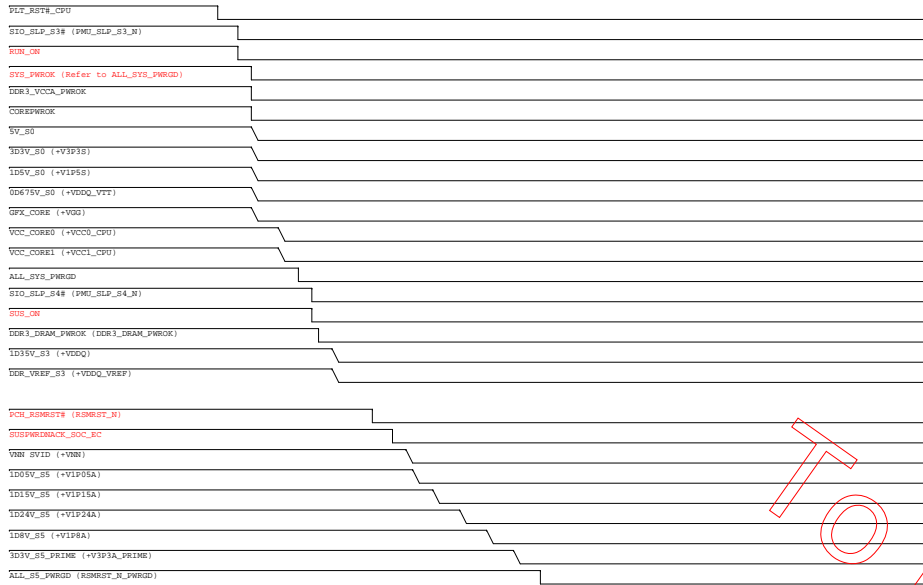
Red word : RMC GP20



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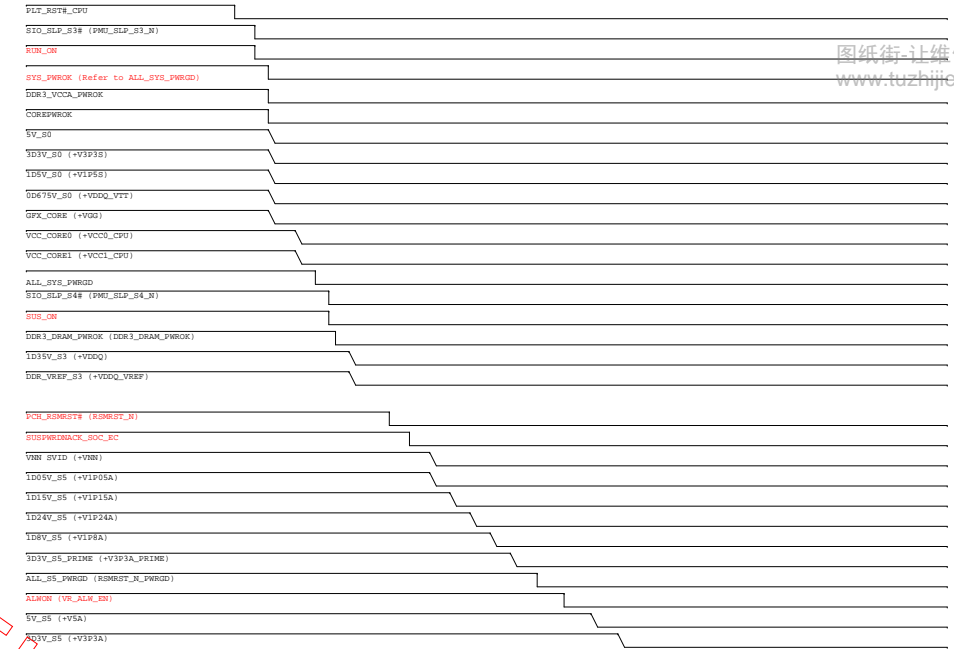
# Intel-Power Down Sequence

(AC mode) Red word : X8C GPIO



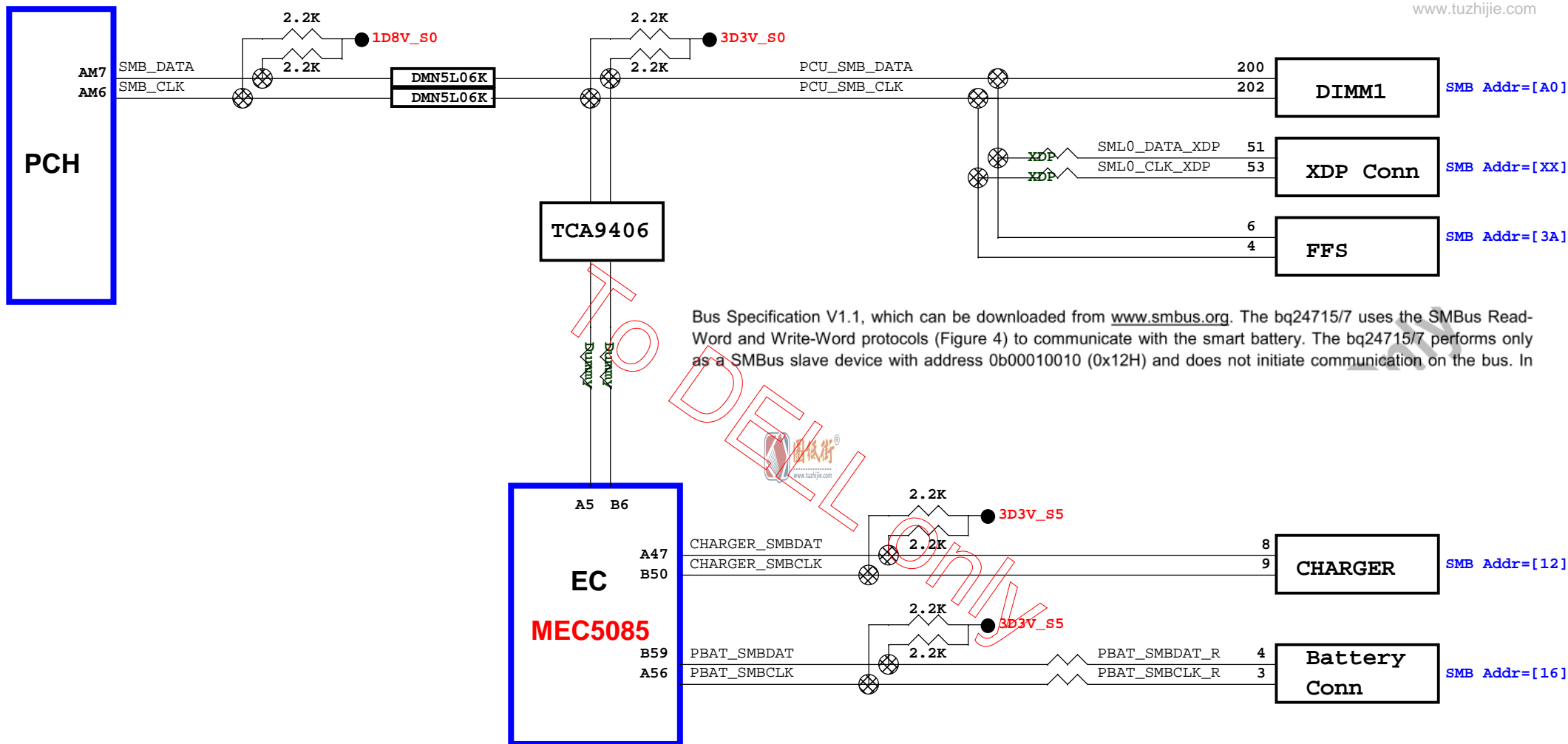
# Intel-Power Down Sequence

(DC mode) Red word : X8C GPIO



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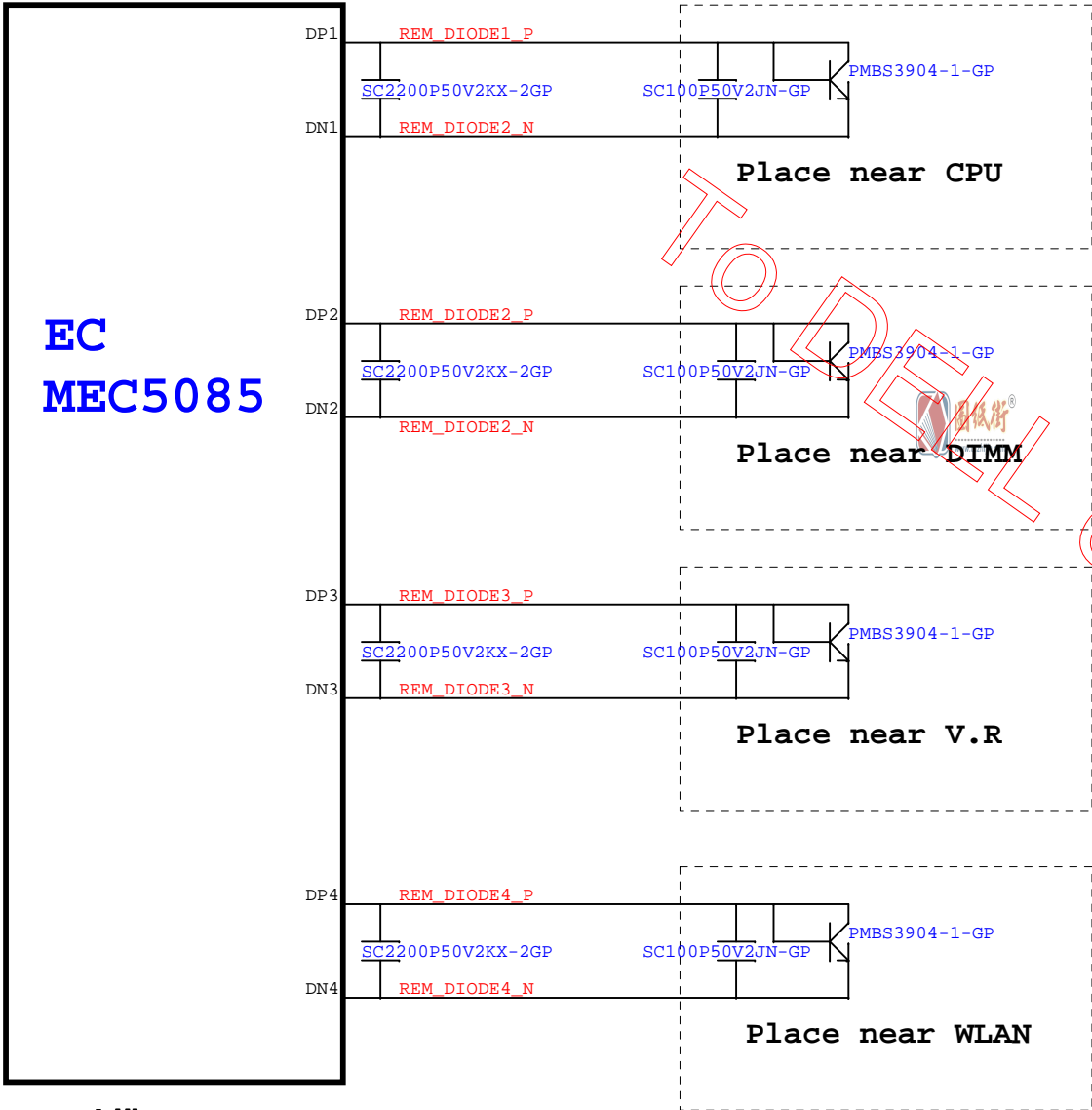


Bus Specification V1.1, which can be downloaded from [www.smbus.org](http://www.smbus.org). The bq24715/7 uses the SMBus Read-Word and Write-Word protocols (Figure 4) to communicate with the smart battery. The bq24715/7 performs only as a SMBus slave device with address 0b00010010 (0x12H) and does not initiate communication on the bus. In

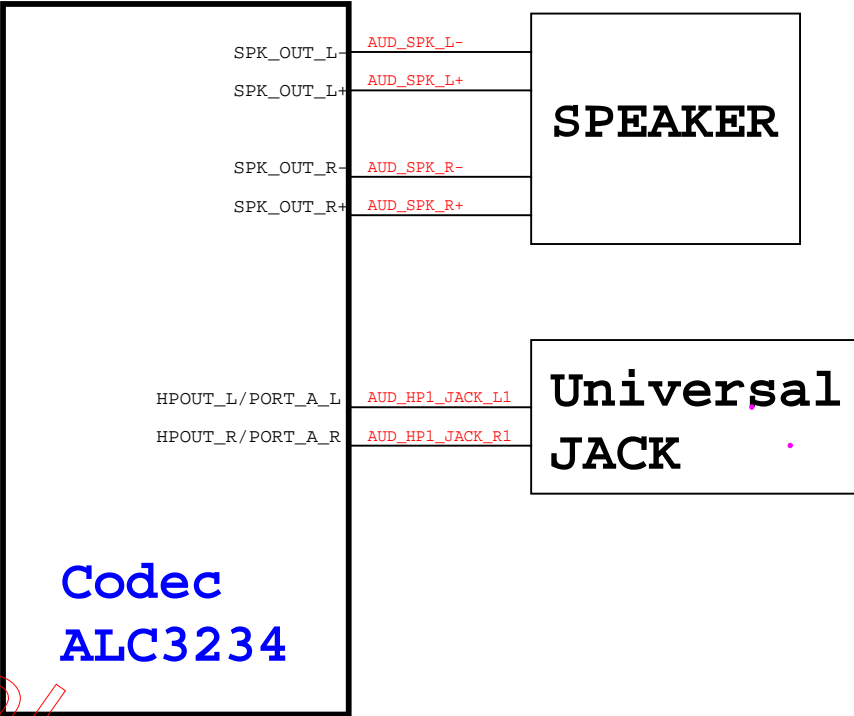
# Thermal Block Diagram

# Audio Block Diagram

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Title <b>Thermal/Audio Block Diagram</b>			
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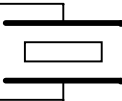
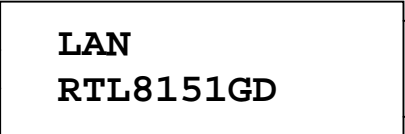
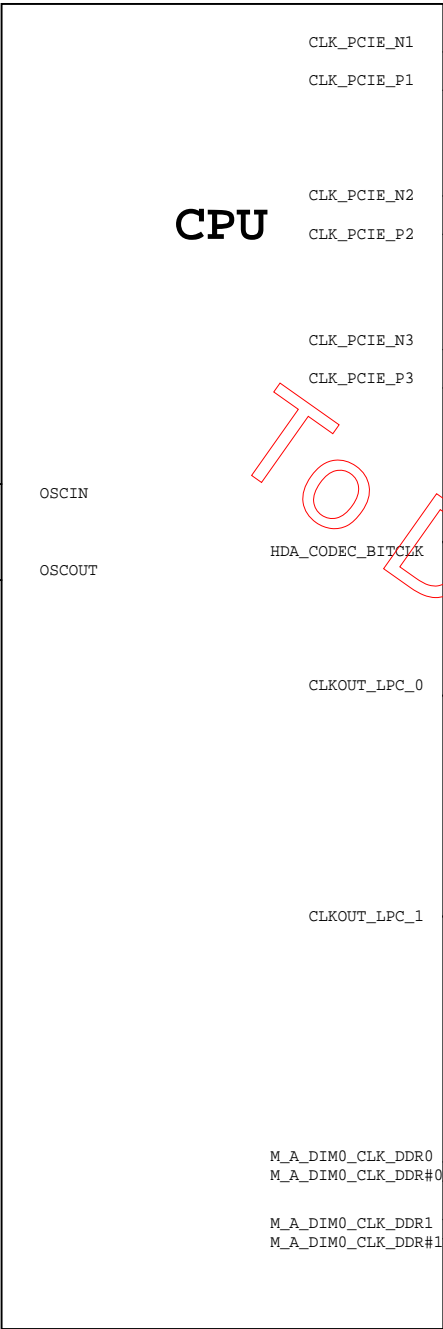
C

B

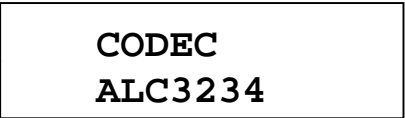
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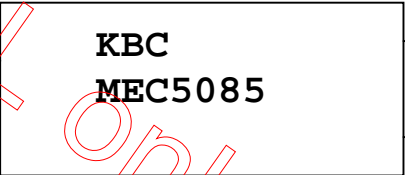
X1601  
19.2MHZ



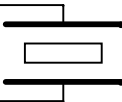
X3001  
25MHZ



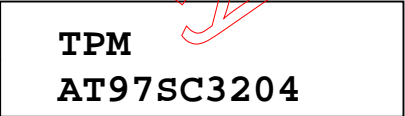
0 Ohm



0 Ohm



X2401  
32.768 kHz



0 Ohm



A00

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Title			
Size A4			
Document Number			
Date: Friday, March 27, 2015			
Sheet 106 of 110			
Rev A00			

Item	Page#	Date	Request By	Issue description	Solution Description	Rev.
1	101	2014.08.12		Modify power sequence	ALWON->(3), DCBATOUT->(4), 3D3V_AUX_S5->(5),ACAV_IN->(6)	
2	102	2014.08.12		Modify AC mode power sequence	ALWON->(3), DCBATOUT->(4), 3D3V_AUX_S5->(5) 图纸街-让维修更容易! www.tuzhijie.com	
3	102,103	2014.08.12		Modify Signal name	IMVP_PWRGD modifies to ALL_SYS_PWRGD	
4	102	2014.08.12		Modify Signal name and change to red color	SYS_PWROK(EC_DELAY_ALL_SYS_PWRGD) modifies to SYS_PWROK(Refer to ALL_SYS_PWRGD Delay 100ms)	
5	103	2014.08.12		Modify Signal name and change to red color	SYS_PWROK(EC_DELAY_ALL_SYS_PWRGD) modifies to SYS_PWROK(Refer to ALL_SYS_PWRGD)	
6	103	2014.08.12		Remove Signal	Remove SUS_PWRDN_ACK_CPU	
7	18,46,48	2014.08.13		PDG Rev0.9: Change the value of Resistance	Modify R1823,PR4645,PR4662,PR4669,PR4836,PR4855,PR4875,R819	
8	54	2014.09.25		PDG Rev0.92: Rpd required 470ohm	Modify RN5404, RN5405 from 620ohm to 470ohm	
9	7,10,18, 46,47,48, 50,51	2014.09.25		1D05V_S5 merges with VNN, VCC_CORE0 merges with VCC_CORE1	Delete VNN and VCC_CORE1 circuit	
10						
11	9	2014.09.25		CPU1M_B52 connects to GND	CPU1M_B52 connects to GND	
12	9	2014.09.29		CPU1M_B52 can't connect to GND	Modify CPU1M_B52 to NC	
13	54	2014.09.29		RN5404 and RN5405's footprint is too big	Modify RN5404 and RN5405's part number	
14	9	2014.10.02		Save the layout space	Modify R704's footprint from 1206 to 0805	
15	52	2014.10.02	EE	3D3V_CAMERA soft-star fine tune	Change C5228 to 0.1uF and R5227 to 10k	
16	61	2014.10.02	EE & ME	LED brightness fine tune	Change R6113 to 1.5kΩ Change R6102,R6104,R6106,R6110 to 453Ω Change R6113 to 732Ω	
17	99	2014.10.02	EE	USB20_VCCA USB power sequence fine tune	Add pull high R9952	
18	29	2014.10.02	EE	EMC speaker fail	Add EMC solution 680pF for speaker signal, DY first	
19	8	2014.10.03	SW	Avoid camera detect floating	Install R823 for SW request	
20	15	2014.10.03	EE	Internal pull up is too weak	Install R1514 for SMI signal	
21	51	2014.10.03	EE	Modify 1D8V_S5 Power Sequence	Change PR5102 to 0 ohm, Dummy PC5125, Change PR5102.1 netname to 1D05V_VNN_EN	
22	51	2014.10.06	Power,EC	For IPCC fail reserve	Assign A12 to be I_AD.P. Connect I_BATT to I_AD.P by R2461.R2461:DY	
23	50	2014.10.07	Power	Remove VNN.Modify VSS_VNN_SENSE.	Change netname of PR5039.1 to 1D05V_PWR_FBH	
24	50	2014.10.07	EE	EC code removw ME_SUS_PWRDN_ACK function	DY Q1811,R1858	
25	50	2014.10.07	Power	Follow PDG SVID Design	R1823 DY.	



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Title

Change History-01

Size

Document Number

Rev

Plano 11.6" UMA

A00

Date: Friday, March 27, 2015

Sheet 107 of 110

Item	Page#	Date	Request By	Issue description	Solution Description	Rev.
26	46	2014.10.13	Power	Follow PDG SVID Design	PR4665 stuff. Pin1.NETNAME change to H_CPU_SVIDCLK	EVT
27	48	2014.10.13	Power	Follow PDG SVID Design	PR4843 stuff. Pin1.NETNAME change to H_CPU_SVIDCLK	EVT
28	50	2014.10.13	Power	No VNN power	Delete PT5001	EVT
29	86	2014.10.14	ME	ME change HS7	1st--->34.4WZ01.001 2nd--->34.4WZ01.201	EVT
30	31	2014.10.14	EMC	EMC solution	XF3101 change from 68.IH601.301 to 068.IH219.3001	EVT
31	58	2014.10.14	ME	ME change	Delete 1st (62.10043.K51) of WLAN1	EVT
32	27	2014.10.14	EMC	EMC solution for DMIC	Add EL2701 68.00217.511	EVT
33	31	2014.10.14	ME	ME change	Change RJ45 to 022.10001.0E21	EVT
34	46	2014.10.14	Power	Use VCC0_SENSE and VSS0_SENSE to VR	Change PR4658 and PR4652 from 100Ω to 0Ω	EVT
35	46	2014.10.14	Power	Fine tune for VCC_CORE	Change PR4668 from 200Ω to 390Ω Change PC4616 from 39pF to 220pF Change PC4609 from 68pF to 47pF Change PR4664 from 620kΩ to 768kΩ	EVT
36	48	2014.10.14	Power	Fine tune for GFX_CORE	Change PR4849 from 200Ω to 390Ω Change PC4808 from 39pF to 390pF	EVT
37	48	2014.10.16	Power	For VCORE SVIDDAT fine tune For VGFX SVIDDAT fine tune	Reserve PR4679 & PR4856	EVT
38	52	2014.10.21	ME	ME change LCD1	1st--->20.F2379.040 2nd--->20.F2091.040	EVT
39	24	2014.10.22	Power,EC	IPCC fail	R2461--->stuff, R2434--->>DY	EVT
40	32	2014.11.20	EE	leakage	Reserve R3222 to 3D3V_S5 for Card Reader	DVT1
41	16	2014.11.21	EE	Follow CRB v1.0.	DY R1611,R1614 and R1613 and add R1615	DVT1
42	18	2014.11.21	EE	Fine tune signal level	Change R1857 from 10k to 2.2k	DVT1
43	24	2014.11.21	EE	Change for board ID	Change R2457	DVT1
44	43	2014.11.21	MW	ME change	Change BATT1 from 20.F2504.010 to 020.F0282.0010	DVT1
45	47	2014.11.25	Power	Reserve for acoustic noise	Reserve PT4702	DVT1
46	52	2014.11.28	EE	Change for panel sequence	Change C5226	DVT1
47	46	2014.11.28	Power,EE	Change to PC4609 for common part	Change to PC4609	DVT1
48	34	2014.12.01	EMI	For EMI solution	Install EU3402	DVT1
49	29	2014.12.01	EMI	For EMI solution	Install SPR1 and SPR2	DVT1
50	51	2014.12.01	Power	Power change	Change PL5101	DVT1
51	51	2014.12.01	Power	Power change	Change PL5002	DVT1
52	49	2014.12.01	Power	Power change	Change PL4901	DVT1
53	8	2014.11.28	EE	Pull high	Install R826, R831, R818 and R824 for pull high	DVT1
54	24	2014.12.04	EC	Reserve for EC	Reserve R2468 and R2467	DVT1
55	16	2014.12.04	EE	Vender suggest	Change X1601	DVT1
56	19	2014.12.05	EE	Reserve R1932	Reserve R1932	DVT1
57	24	2014.12.08	EE	Reserve R1932 for power consumption measure	Add R2403	DVT1
58	24,99	2014.12.08	EE,EC	Reserve for PCIE wake	Add R9953(install), R2431(DY) and R2407	DVT1
59	34	2014.12.08	EE,EMC	Change for SI fail	Change EU3401 and EU3403	DVT1

Figure 11.6" UMA


Change History-02

Size Document Number Rev

Plano 11.6" UMA

Date: Friday, March 27, 2015 Sheet 108 of 110

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Item	Page#	Date	Request By	Issue description	Solution Description	Rev.
60	16	2014.12.08	EE	Crystal vender suggest	Change C1601 and C1602 from 8p to 3.3p	DVT1
61	18	2014.12.08	EE	Crystal vender suggest	Change C1806 and C1807 from 5p to 3.9p	DVT1
62	18	2014.12.09	EE	Reserve	Reserve R1879(DY) and R1878(DY)	DVT1
63	8	2014.12.10	EE	Follow CRB v1.0	Change R814 from 80Ω to 100Ω	DVT1
64	46,48	2014.12.10	Power	Power change solution for Vcore and Vgfx	Change PU4601 and PU4802 from RT8171BGQW to RT8199BGQW Change PR4647 from 86.6kΩ to 105kΩ Change PR4673 from 24.9kΩ to 23.7kΩ Change PR4670 from 2.2Ω to 20Ω Change PR4657 from 68kΩ to 57.6kΩ Change PR4676 and PR4678 from 100Ω to 2.2Ω Change PR4658 and PR4652 from 0Ω to 2.2Ω Change PC4616 from 220pF to 470pF Change PR4664 from 768kΩ to 887kΩ Change PR4825 from 86.6kΩ to 105kΩ Change PR4850 from 510Ω to 390Ω Change PR4838 from 24.9kΩ to 23.7kΩ Change PR4811 from 2.2Ω to 20Ω Change PR4834 from 620kΩ to 887kΩ Change PR4830 from 68kΩ to 57.6kΩ Change PC4808 from 390pF to 470pF DY part: PT4701, PC1077, C1048, PC4706, C1042, PC4830, PC1101, PC1075, PC1068, PC4822, PC4831, C1040, PC1076, PC1072, PT4801, PC1084, PC1088, PC1085, PC1091, PC4815, PC1086, PC4814, PC1083, PC1082, PC1079, PC1089, PC1092, PC1078	DVT1
65	44	2014.12.10	Power	Power change	PD4402 DY	DVT1
66	45	2014.12.10	Power	Power change	Change PU5001 from SY8208DQNC to SY8206DQNC	DVT1
67	24	2015.01.19	vender	EE change	X2401 change 2nd from 82.30001.B11 to 082.30003.0441	DVT2
68	54	2015.01.21	EMI	EMI issue	change R5415, R5416, R5417, R5418 to 150Ω and install	DVT2
69	85	2015.01.21	EMI	EMI issue	Add EC8512	DVT2
70	85	2015.01.21	EMI	EMI issue	Change EC8508, EC8509, EC8510, EC8511 from 100pF to 10000pF	DVT2
71	25	2015.01.21	EE & SW	EE and SW change	Change SPI ROM from 16M WSON to 8M SOIC	DVT2
72	85	2015.01.26	RF	RF install	Install EC8507	DVT2
73	12	2015.01.26	RF	EMI issue	Add C1221 and C1222	DVT2
74	42	2015.01.28	Power	shortage issue.	Change PQ4204 1st	DVT2
75	86	2015.01.30	EMI	EMI issue	Add SPR4	DVT2
76	96	2015.01.30	EE	MB_PWR_BTN# level modify when use XDP	Modify POWER_SW_IN# and change R9605 from 1k to 1M	DVT2
77	62	2015.01.30	EMI	TouchPad ESD issue	Add ED6201 and ED6202	DVT2
78	15	2015.01.30	EE	Follow CRB v1.2 and check list v1.2	Change R1506 from 10k to 4.7k	DVT2
79	44	2015.02.02	Power	Power delete	Delete 1st 69.60040.001 of PD4401 and PD4405	DVT2
80	52	2015.02.02	EE	OBS issue	Change 1st from 69.60040.001 to 69.50007.G71	DVT2
81	18	2015.02.05	EE	Vender suggest	Change C1806 and C1807 from 3.3pF to 4.7pF	DVT2
82	54	2015.02.05	EE	EE add	Add 2nd 73.00102.007 for U5401	DVT2
83	36	2015.02.24	EE	For S5 power saving	R3617:DY, R3616:install	DVT2
84	8, 46, 48	2015.02.24	EE	For S3 power saving	Change R827, PR4633, PR4817 <sup>A00</sup> from 10k to 100k	DVT2
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Item	Page#	Date	Request By	Issue description	Solution Description	Rev.
85	19	2015.03.18	EE	Reserve for PCIE_CLK leakage issue	Reserve 0Ω for PCIE CLK	A00
86	32	2015.03.23	EE	Add for leakage issue	Add U3202	A00
87	24	2015.03.23	EE	Change for board ID	Change R2457 to from 8.2k to 33k	A00
88	54	2015.03.23	EE	Change for HDMI compatibility	Install Q5408 and Q5407 Add R5415 and R5416 for HDMI compatibility	A00
89	86	2015.03.16	ME	Add 2nd	Add 2nd 34.4WZ01.101 for HS7	A00
90	18	2015.03.27	EE	TPM schematic DY	DY Q1819,R1870,R1871,R1872	A00
91	27	2015.03.27	EE	Change 0Ω to short pad	Add R2743	A00
92	27	2015.03.23	EE	Add for leakage issue	Change power rail for pin 18 and pin 13 from 3D3V_S0 to 3D3V_S0_CARD	A00
92	36	2015.03.27	EE	Reserve for power discharge	Reserve discharge schematic for 3D3V_LAN and 3D3V_S5_WLAN	A00
93	19	2015.03.17	EE	Reserve	Reserve CLK_PCIE_WLAN_REQ2# S0 power rail	A00
94	all	2015.03.27	EE	Change 0Ω to short pad	Change 0Ω to short pad	A00
95	18	2015.04.22	EE	RTC rail power consumption	CPU pin G18 short to ground	A00
96	32,33	2015.04.24	EE	Card reader SI and EMI	Change EC3303 EC3307 EC3308 EC3310 EC3311 EC3315 to 10pF Change R3209 to 15Ω	A00
97	42	2015.05.20	Power	Add 2nd	Add 2nd 83.P6SBM.DAG for PD4201	PD
98	42,43	2015.04.20	Power	Delete unqualified part 75.00099.K7D(YEASHIN)	Delete 2nd 75.00099.K7D for 75.00099.O7D	PD
99	51	2015.09.21	Power	1st and 2nd(068.2R210.1381) have the different packaging	Change PL5101 068.2R210.1381(2nd) to 068.2R210.1391	
100	62	2015.11.06	EE	cost down version	Add 2nd source 071.01117.0B03 for U6202(71.01117.003)	
101	52	2015.11.03	EE	Sourcer request	Add 3rd source 84.00658.C3D for U5201	
102	42	2015.11.03	EE	Sourcer request	Add 3rd 83.P6SMB.JAG for PD4201	
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Rev

A00

Date: Wednesday, November 11, 2015

Sheet 110 of 110