

AMD

Angel Schematics Document

AMD Temash APU

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緯創資通

Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title

Cover Page

Size
A4

Document Number

Rev

Angel

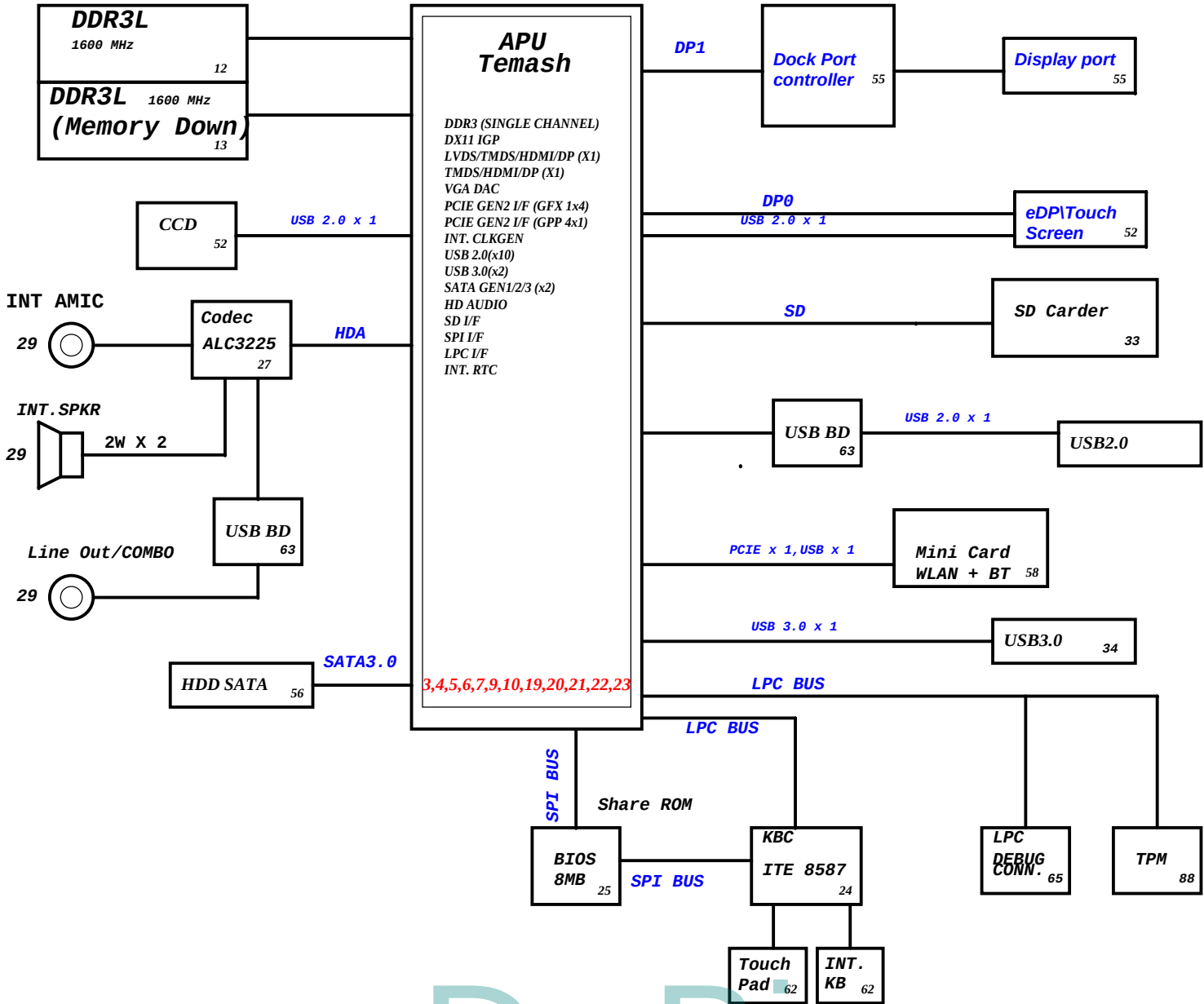
Date: Wednesday, February 20, 2013

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Angel /KABINI

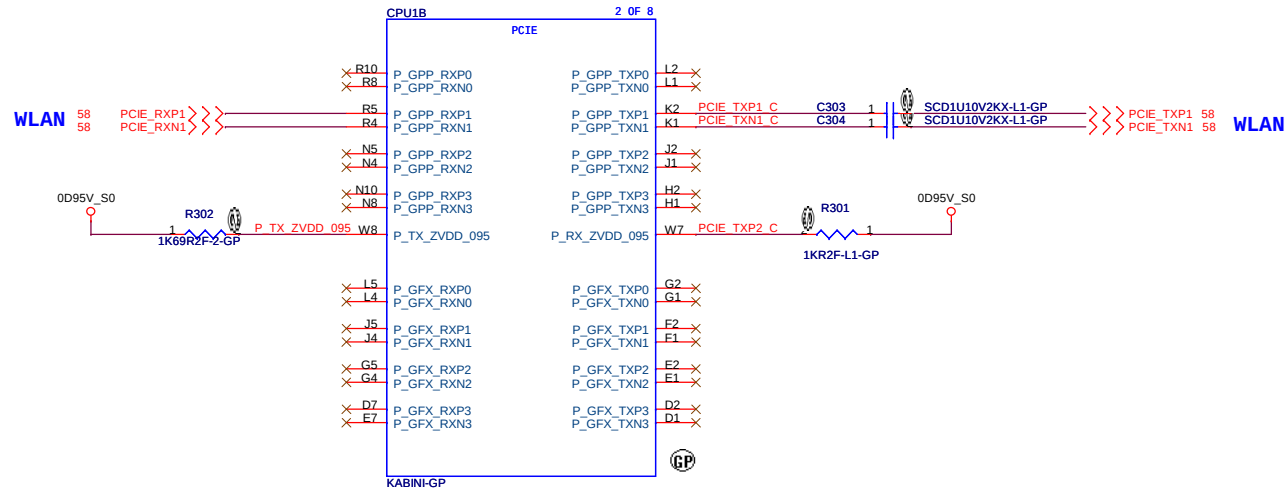
Angel Project code: 91.4LK01.001
PCB No: code: 12281-1



SYSTEM DC/DC	
RT8245BTQW 45	
INPUTS	OUTPUTS
DCBATOUT	5V_S5 3D3V_S5
SYW232D 50	
3D3V_S5	1D8V_S5
RT8207M 49	
DCBATOUT	1D35V_S3
DCBATOUT	0D675V_S0
RT9025 51	
1D8V_S5	1D5V_S5
TPS51363 48	
DCBATOUT	0D95V_S5
CHARGER	
BQ24737 44	
INPUTS	OUTPUTS
DCBATOUT	CHG_PWR
CPU DC/DC	
ISL62771 46,47	
INPUTS	OUTPUTS
DCBATOUT	APU_VDD 0.3-1.4V, 8A VDDNB 0.7-1.325V, 10A

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Title		Block Diagram	
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PCIE Table

0	NC
1	WLAN
2	NC
3	NC

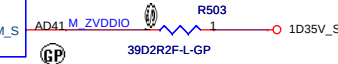
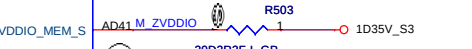
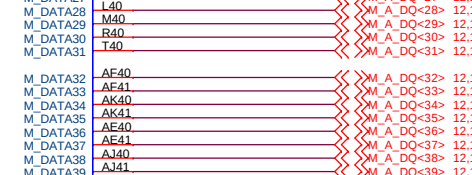
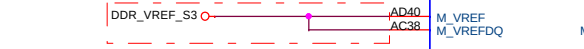
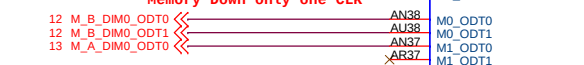
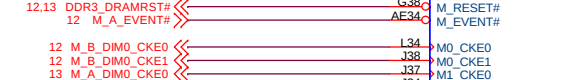
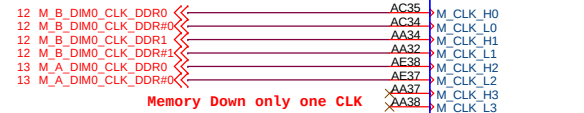
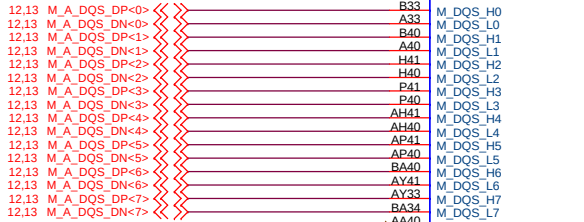
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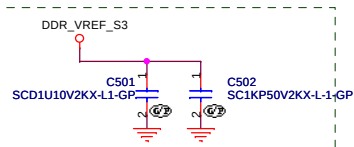
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Title CPU PCIE		
Size A3	Document Number Angel	Rev
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APU_VREF_DQ



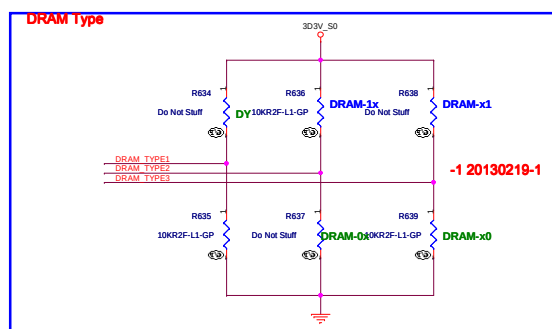
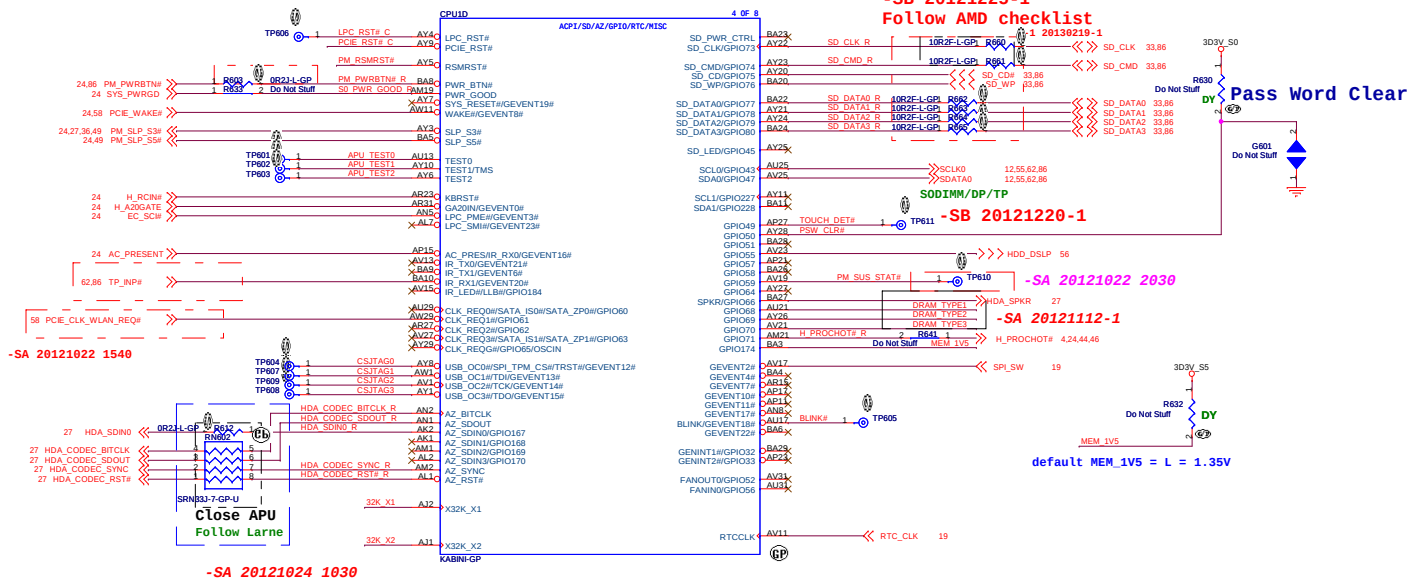
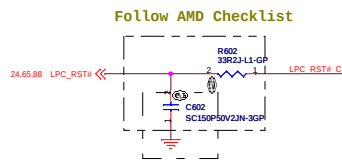
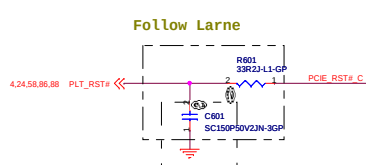
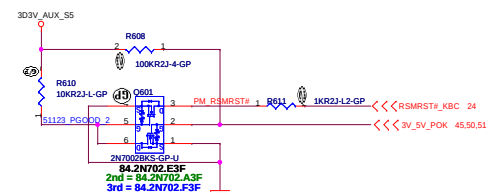
LAYOUT: place them close to APU

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Title		
CPU DDR		
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GPI068	GPI069	GPI070	Status{vendor+size}
DRAM_Type1	DRAM_Type2	DRAM_Type3	
0	0	0	ELPIDA 2GB(4Gb*4) KM.40809.003
0	0	1	ELPIDA 2GB(4Gb*4) KN.00409.002
0	1	0	Hynix 2GB(4Gb*4) KN.00406.007

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Title			
CPU (ACPI/SD/AZ/GPIO/RTC)			
Size	Document Number	Rev	
Custom	Angel		
Date	Thursday, February 21, 2013	Sheet 6 of	102

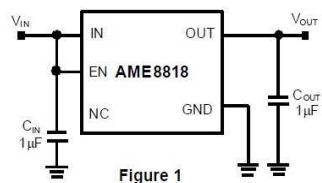
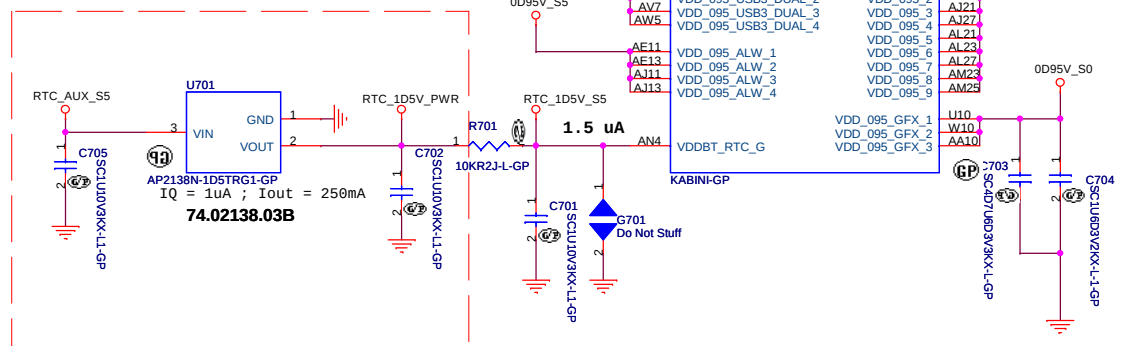


Figure 1



follow EA40-KB 20121025 2310

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Title: CPU VCC CORE		
Size A3	Document Number	Rev
Date: Monday, February 18, 2013	Angel	Sheet 7 of 102

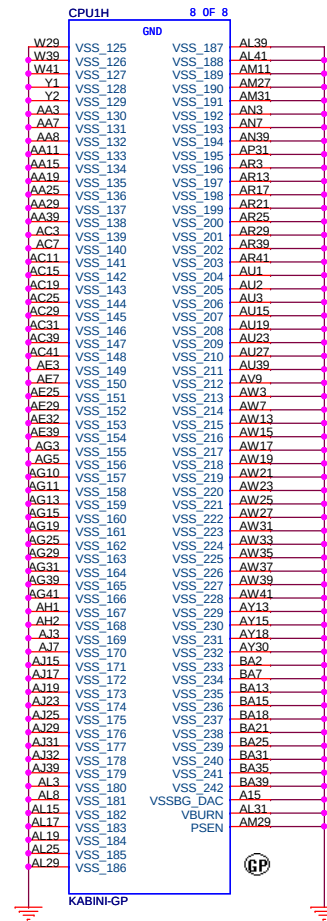
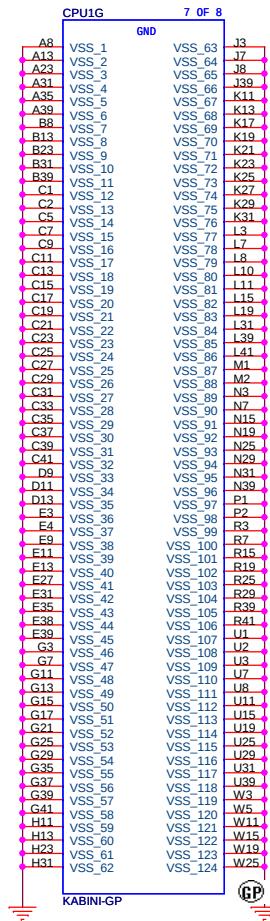
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Title			
CPU VCC GFXCORE			
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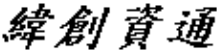
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Title CPU VSS		
Size A3	Document Number Angel	Rev
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5	4	3	2	1
D				D
C				C
B				B
A				A
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緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.				
Title CPU POWER CAP2				
Size Document Number Rev				
Angel				
Date: Monday, February 18, 2013 Sheet 11 of 102				
5	4	3	2	1

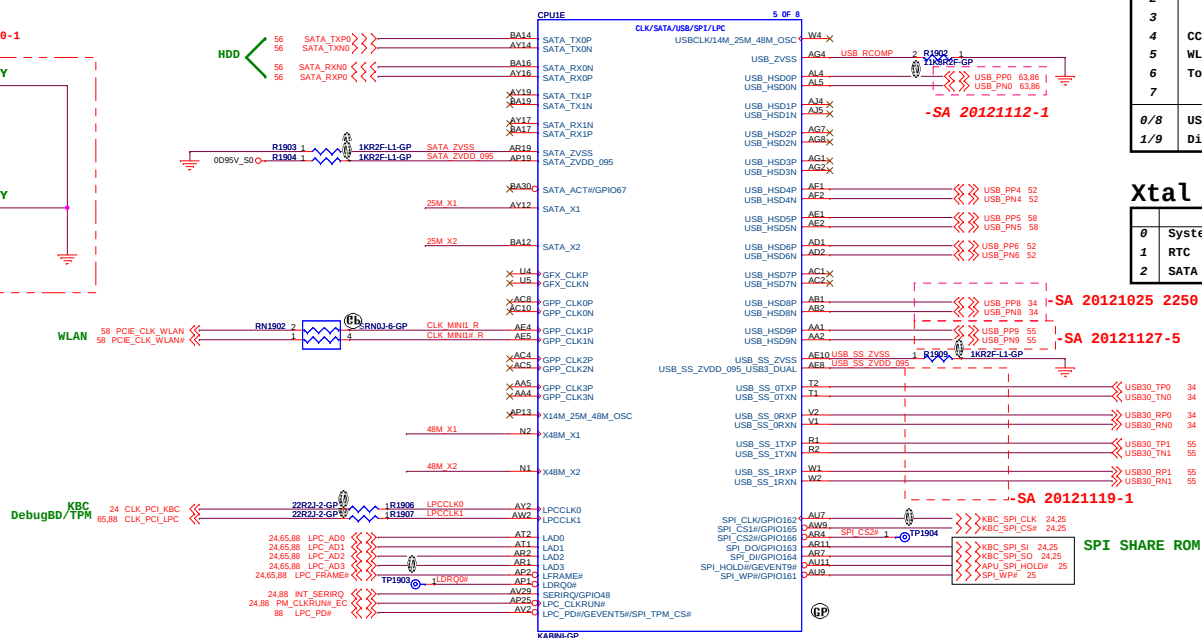
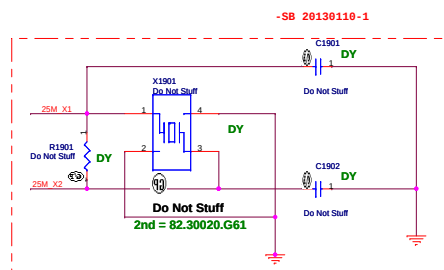
5	4	3	2	1
D				
C				
B				
A				

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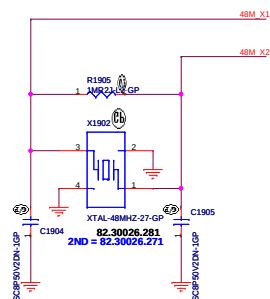
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Title DDR3 SODIMM 3		
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θ	HDD
1	



Pair	Device
0	USB2.0 (USB Conn)
1	
2	
3	
4	CCD (CCD Conn)
5	WLAN + BT (Mini PCI-E)
6	Touch (MB)
7	
0/8	USB3.0 (MB)/2.0
1/9	Display Port

		CLK
0	System & USB	48M
1	RTC	32.768K
2	SATA	25M



	LPC_CLK0	LPC_CLK1	LFRAME 1	EXPAND_PCIE_PWREN#	BTC CLK
PULL HIGH	BOOT FAIL TIMER ENABLED	CLOCKEN DISABLED (DEFAULT)	SPI ROM (DEFAULT)	1.0V SPI ROM (DEFAULT)	NORMAL POWER UP/RESET TIMING (DEFAULT)
PULL LOW	BOOT FAIL TIMER DISABLED (DEFAULT?)	CLOCKEN DISABLED	LPC ROM	0.9V SPI ROM	FAST POWER UP/RESET TIMING FOR SIMULATION

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Title			
CPU SATA/USB/LPC/SPI/CLK			
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Title CPU GPIO/MISC			
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Title			
CPU POWER1			
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Title			
CPU RSVD			
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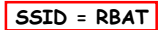
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Title			
CPU VSS			
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SPI FLASH ROM (8M byte) for KBC

WINBOND : 72.25Q32.E01 2nd



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SSID = Thermal

Thermal sensor NCT 7718W

Layout notice :
Both DXN and DXP routing 10 mil
trace width and 10 mil spacing.

2. System Sensor, Put on palm rest

1.H/W T8 Shutdown

2.APU H/W Shutdow

ALERT# /T CRIT#
Pull-up R̄esistor

	R7				
R5	2Kohm	7.5Kohm	10.5Kohm	14Kohm	18.7Kohm
2Kohm	77°C	87°C	97°C	107°C	117°C
7.5Kohm	79°C	89°C	99°C	109°C	119°C
10.5Kohm	81°C	91°C	101°C	111°C	121°C
14Kohm	83°C	93°C	103°C	113°C	123°C
18.7Kohm	85°C	95°C	105°C	115°C	125°C

T CRIT temperature strapping point

T8=85 degree
SYS=85 degree
APU=125 degree

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Title			
Thermal 7718/Fan Controller P2793			
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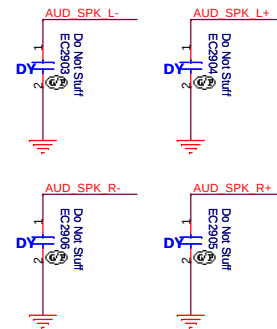
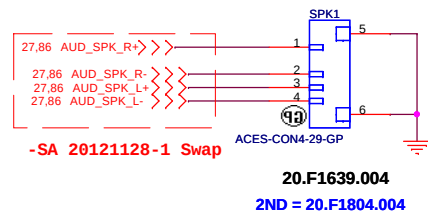
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Title			
AMP ALC1001			
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SSID = AUDIO

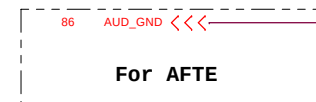
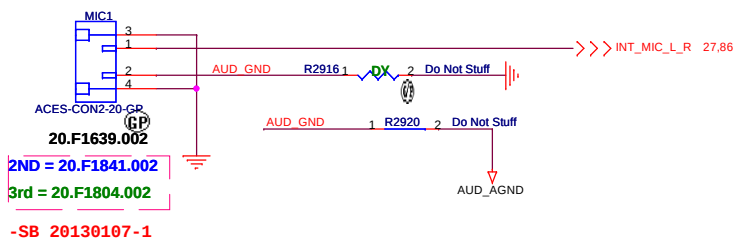
Speaker

2W 4ohm X 2 speaker



Layout Note:

Trace width=40mil



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Title		Audio Jack	
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Title		
RTL8411		
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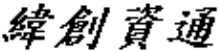
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Title			
LAN CONNECTOR			
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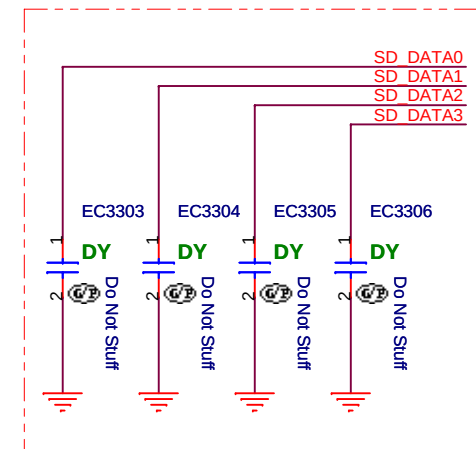
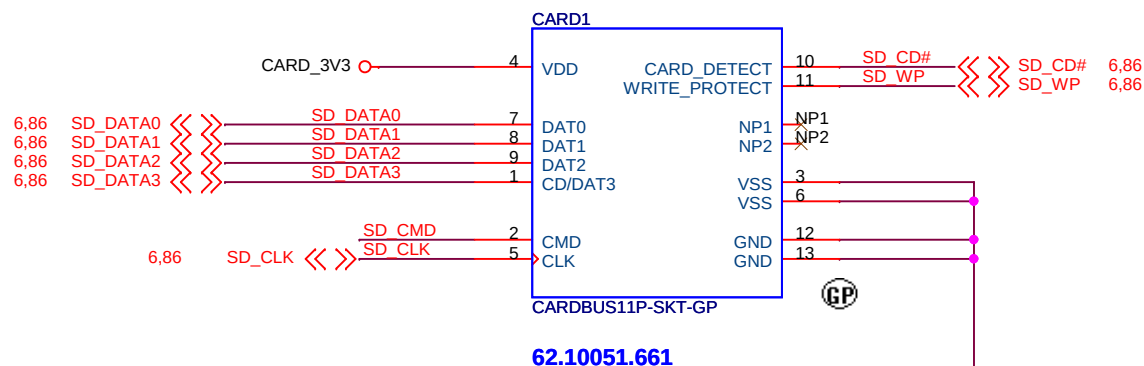
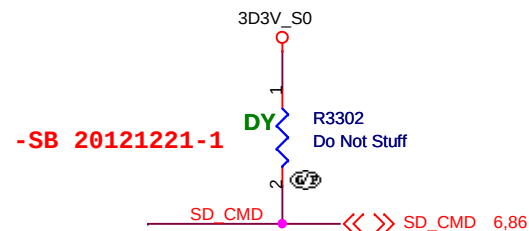
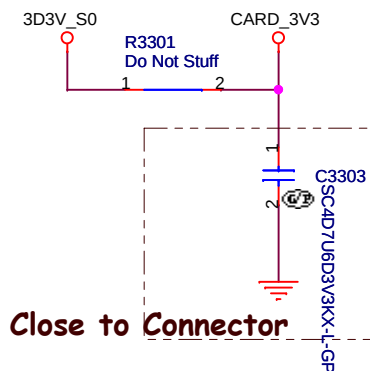
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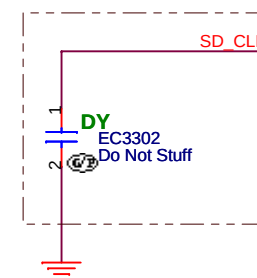
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Title Card Reader IC			
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SSID = SDIO

SD//MS Card Reader



-SA 20121128-4



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Title

CARD Reader CONN

Size

Project Name

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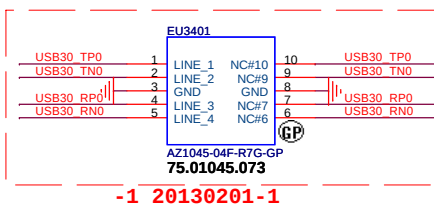
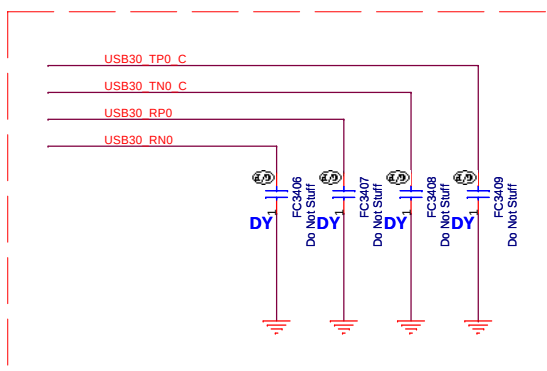
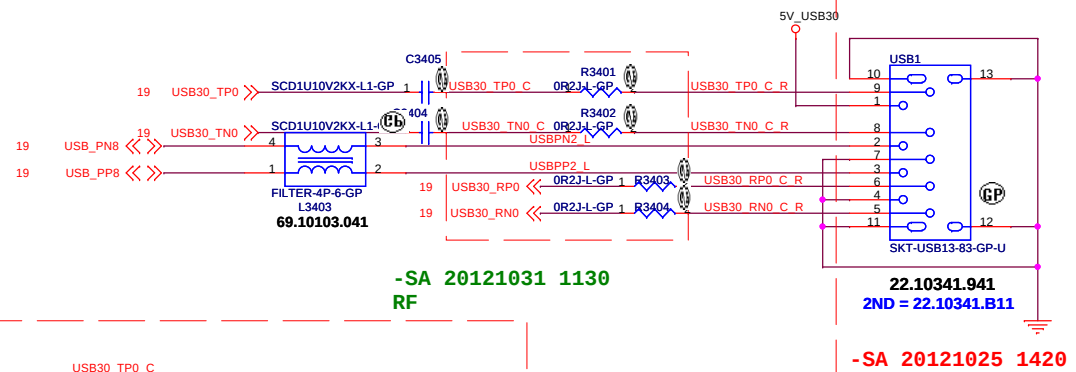
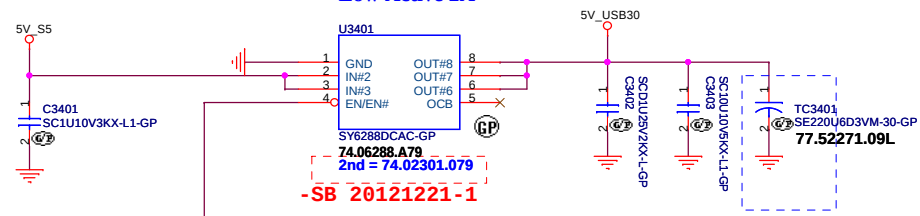
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Title									

USB 3.0 Port

Size	Project Name
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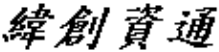
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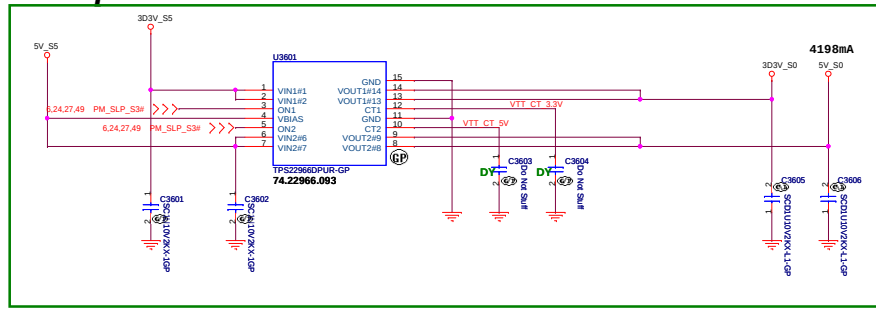


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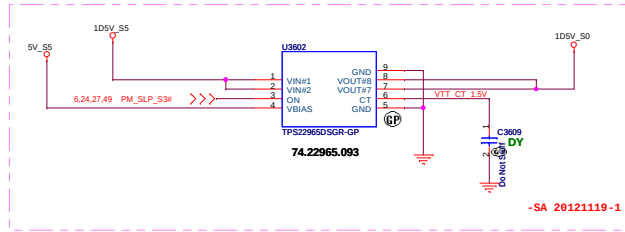
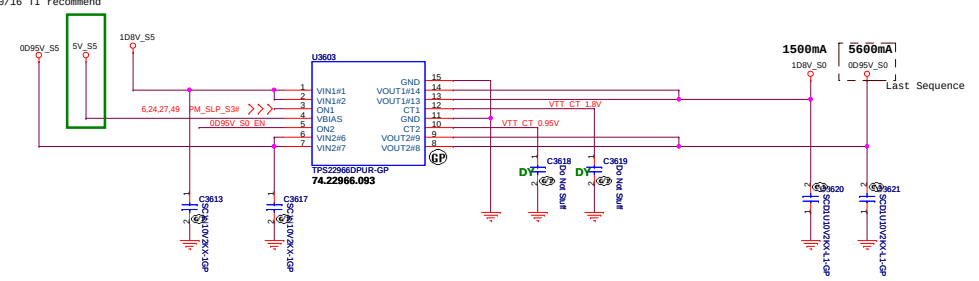
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Title USB_Charger			
Size	Project Name Angel		Rev SB
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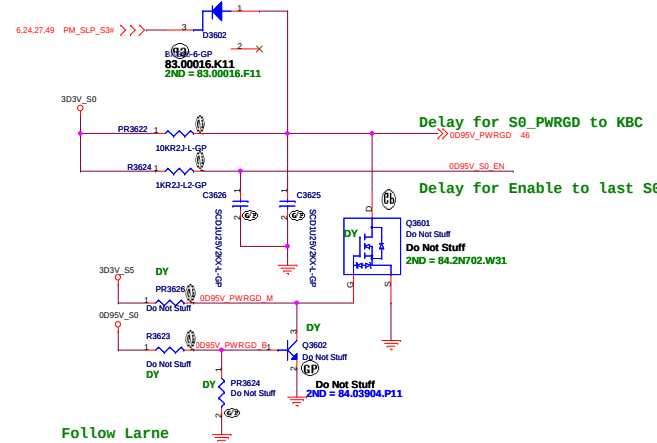
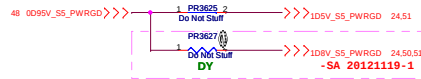
Power Sequence



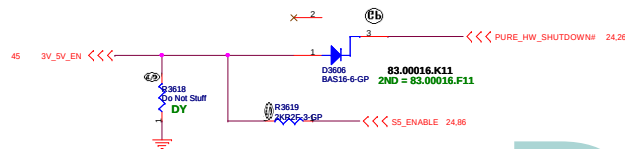
10/16 TI recommend



S5_PWRGD to KBC



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緯創資通		Wistron Corporation 21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsueh, Taipei Hsien 221, Taiwan, R.O.C.	
Title Power Plane Enable			
Size	Project Name Angel		Rev S8
Date	Monday, February 18, 2013		Sheet 36 of 102

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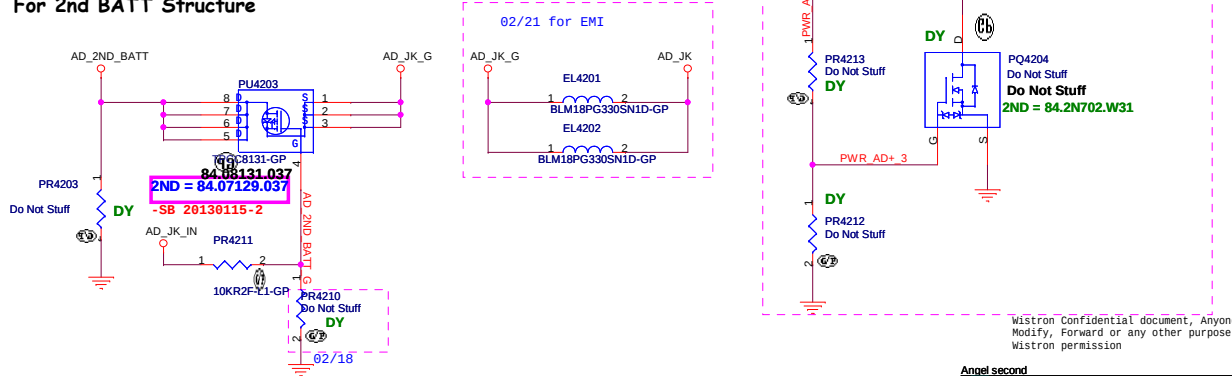
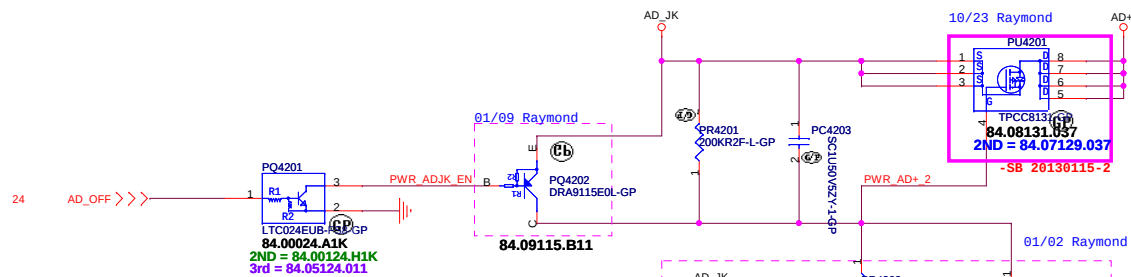
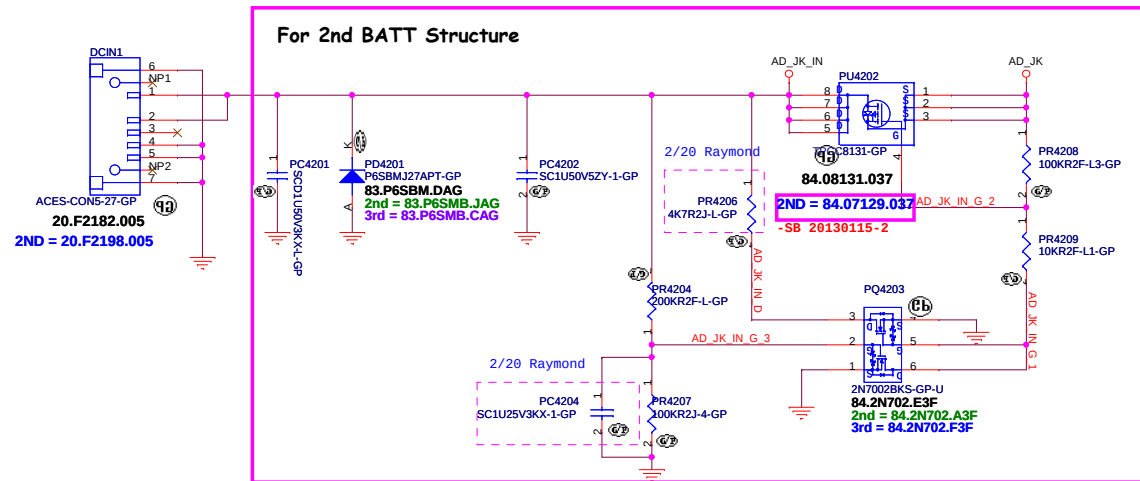


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		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title ADAPTER OCP / S3 reduction			
Size	Project Name Angel		Rev SB
Date: Monday, February 18, 2013	Sheet	37 of	102

12/21 Raymond



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Angel second

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21F, 88, Sec 1, Hsin Tai Wu Rd, Hsichih

[illegible]

Size

Project Name	Project Manager	Project Status	Project Budget	Project Start Date	Project End Date
Project A	John Doe	Completed	\$100,000	2023-01-01	2023-03-31
Project B	Jane Smith	In Progress	\$200,000	2023-04-01	2023-06-30
Project C	Mike Johnson	On Hold	\$50,000	2023-07-01	2023-09-30
Project D	Sarah Brown	Planned	\$75,000	2023-10-01	2023-12-31

Date: Thursday, February 21, 2013

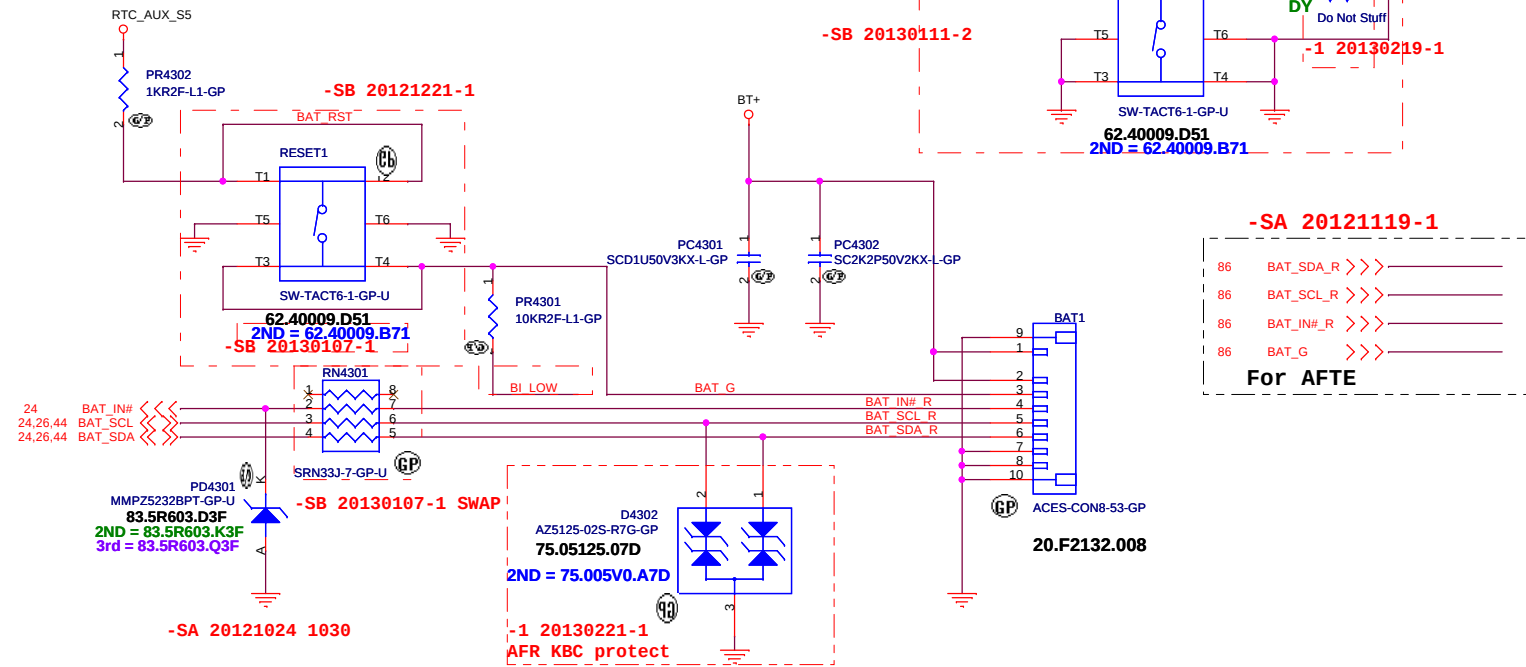
Sheet 42 of 102

DCIN JACK

Angel

Rev
CP

BATTERY CONNECTOR



-SA 20121119-1

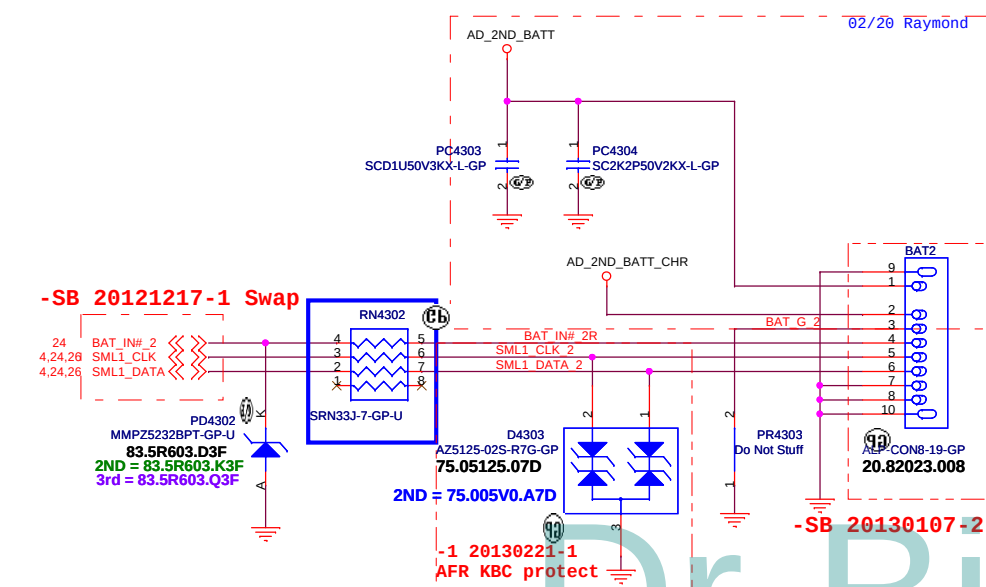
86 BAT_SDA_R >>> _____

86 BAT_SCL_R >>> _____

86 BAT_IN#_R >>> _____

86 BAT_G >>> _____

For AFTE



-SA 20121123-2

86 SML1_DATA_2 >>> _____

86 SML1_CLK_2 >>> _____

86 BAT_G_2 >>> _____

86 BAT_IN#_2R >>> _____

For AFTE

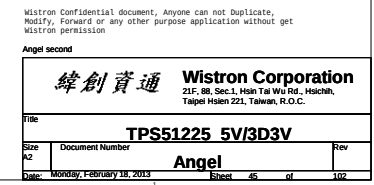
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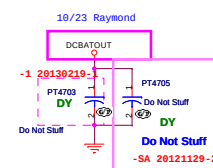
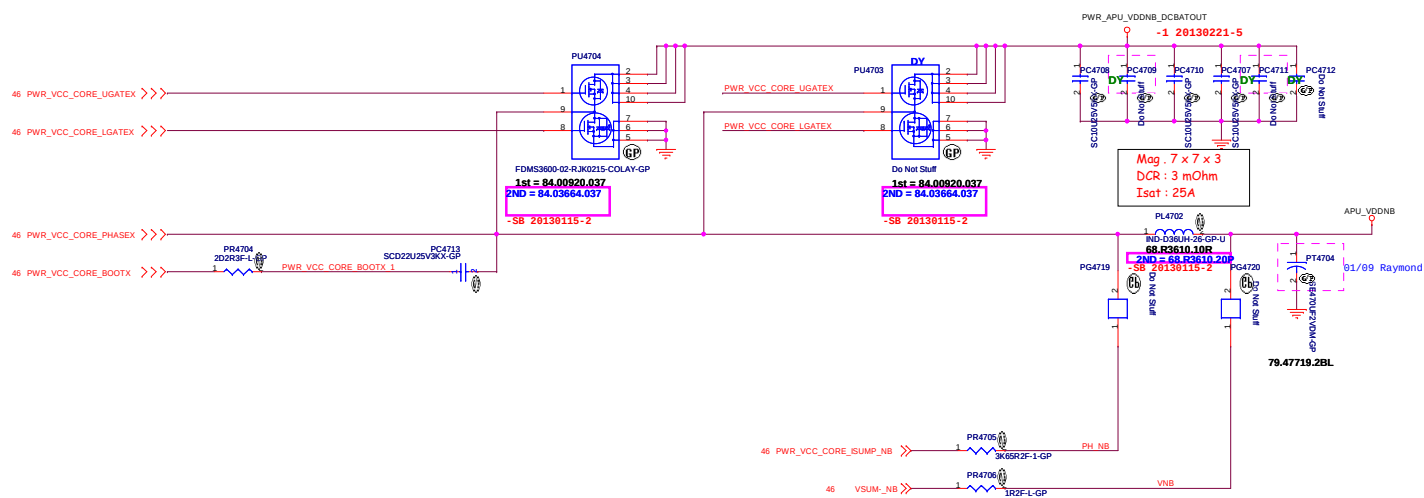
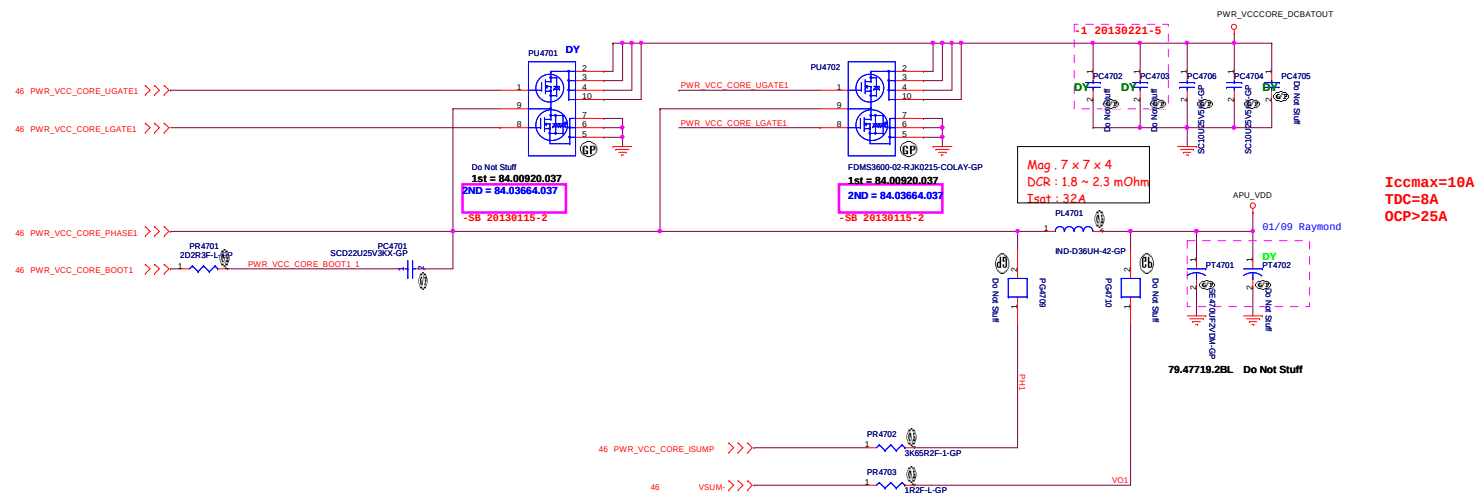
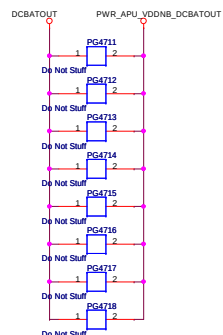
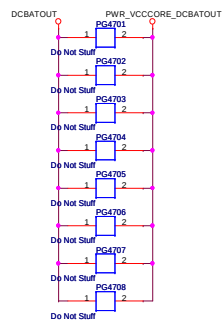
Angel second

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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	BATT CONN		
Size	Project Name	Rev	SB
Date: Thursday, February 21, 2013	Sheet 43	of 102	

Cut off itself



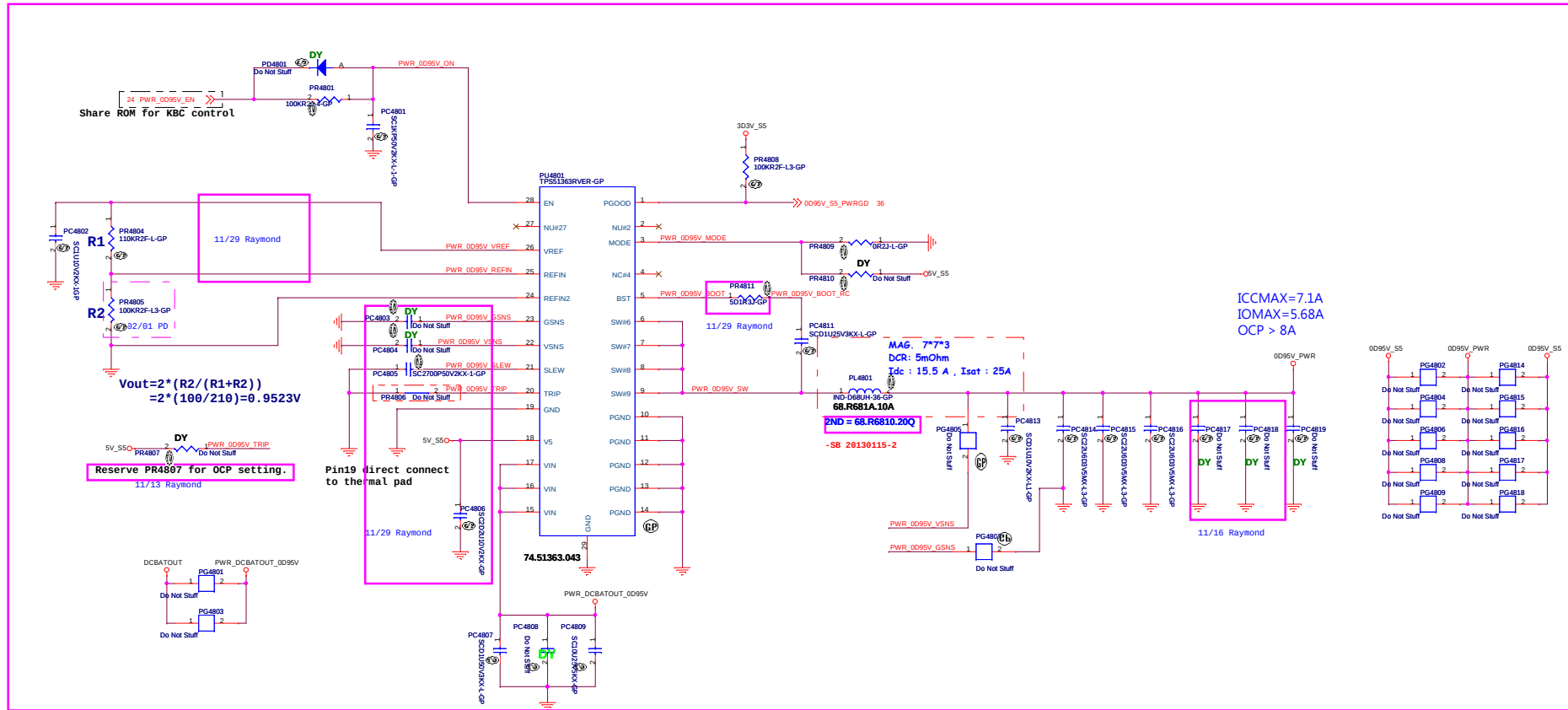


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Angel second

緯創資通 Wistron Corporation	
21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsichuan, Taipei Hsien 221, Taiwan, R.O.C.	
File ISL62771 CPUCORE(2/2)	
Size A2	Document Number
Angel	
Date: Thursday, February 21, 2013	Sheet 47 of 102

TPS51363 for 0D95V



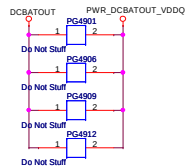
11/12 Raymond

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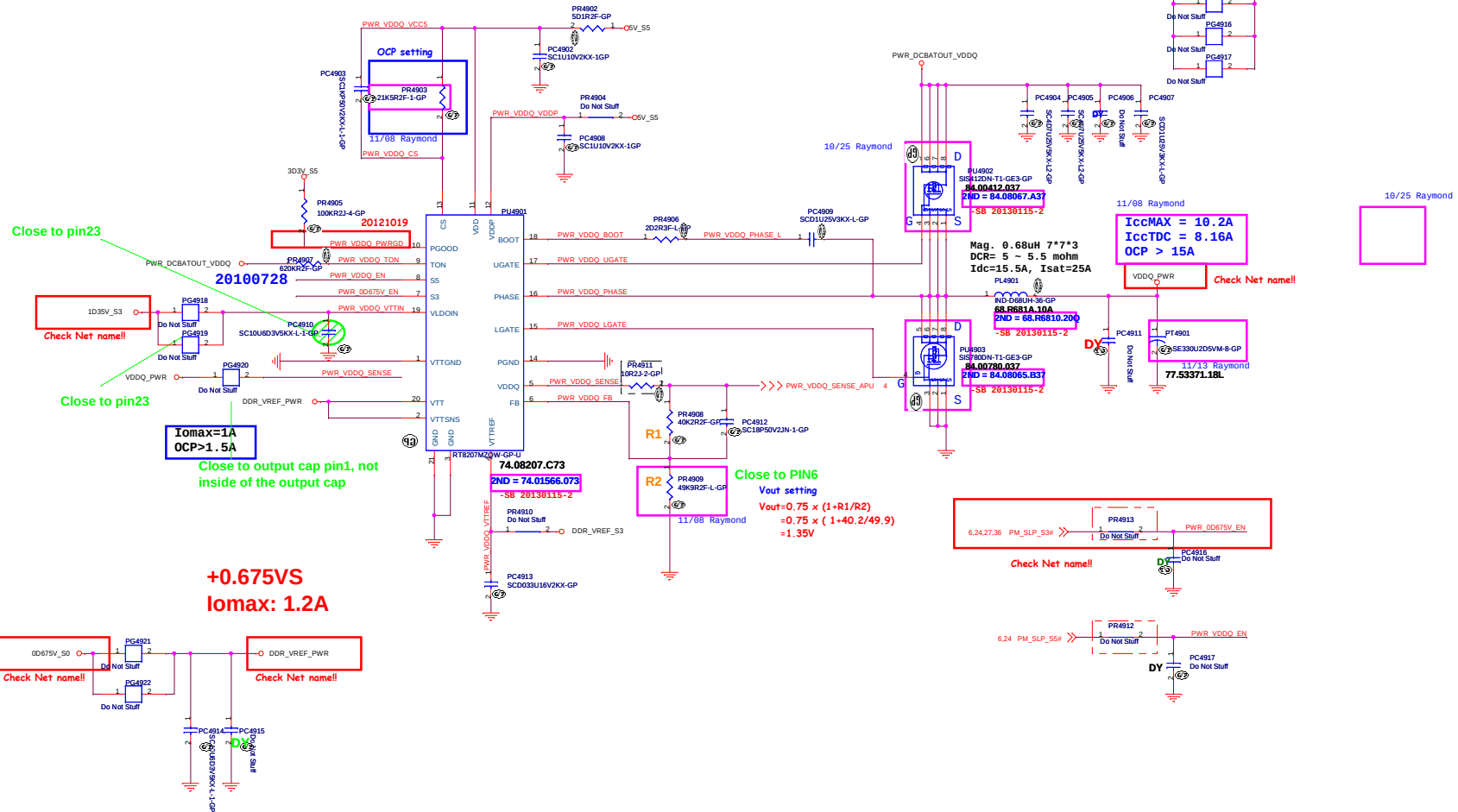
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緯創資通 Wistron Corporation 21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsichuan, Taipei Hsien 221, Taiwan, R.O.C.	
Title	DC to DC 0D95V(TPS51363)
Size	Document Number
A2	Angel
Date	Tuesday, February 19, 2013
Sheet	48 of 102


```
SSID = PWR.Plane.Regulator_1p2v0p6v
```



RT8207M for VDDQ



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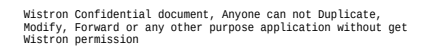
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	RT8207
-------	---------------

Size A2	Document Number Angel	Rev
Date: Tuesday, February 19, 2013	Sheet 49 of 102	

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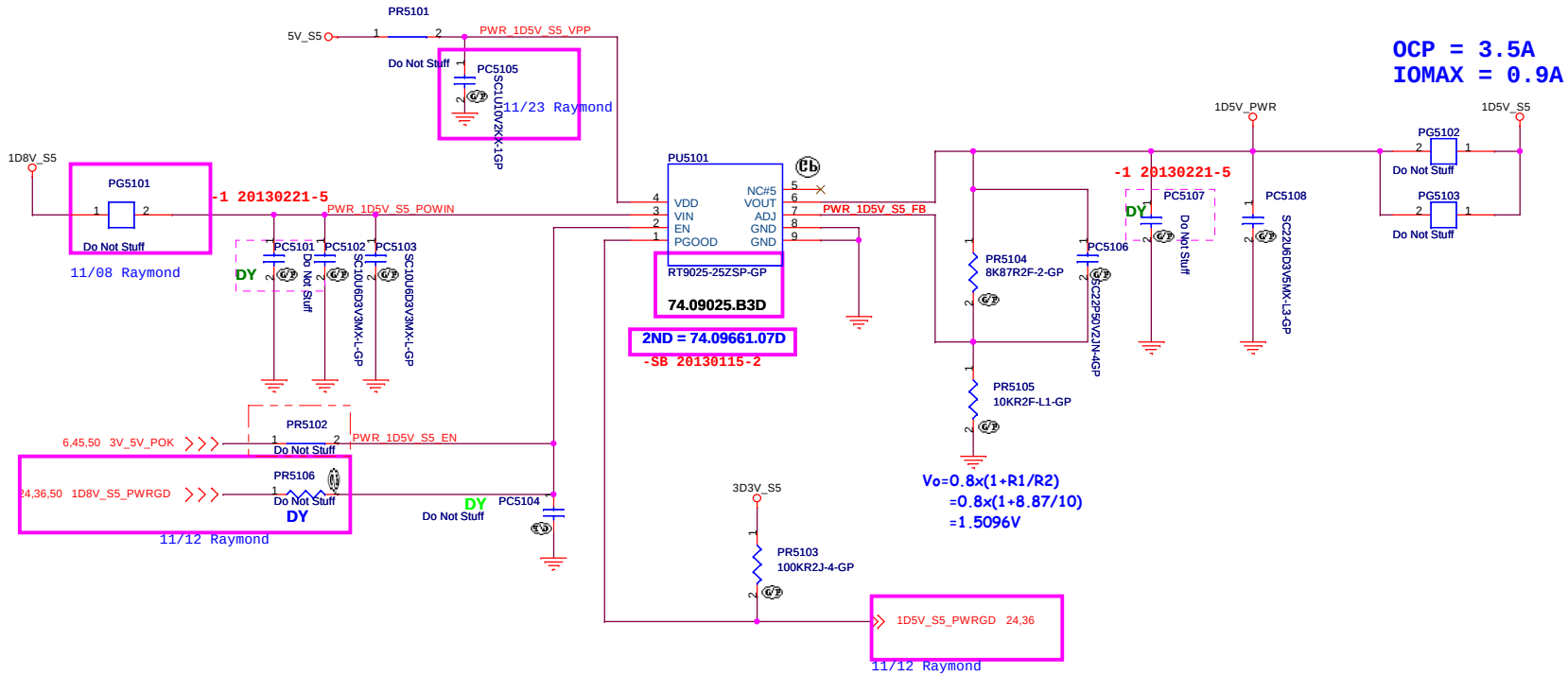
TDC=2.3A



緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Date: Tuesday, February 19, 2013 Sheet 50 of 102

RT9025 for 1D5V_S5

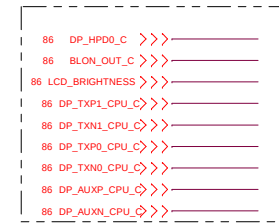


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Title				1D5V__S5 RT9025			
Size A3	Document Number					Rev	
	Angel						
Date: Thursday, February 21, 2013				Sheet 51		of 102	





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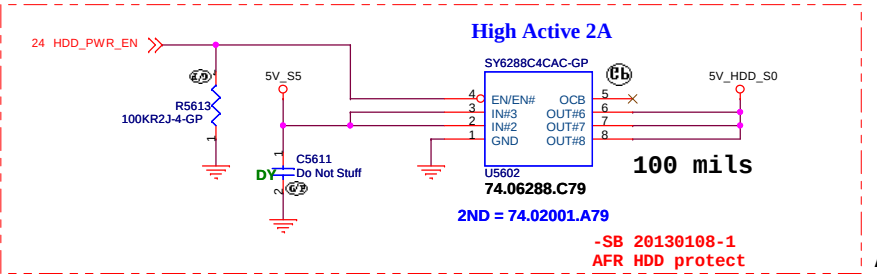
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
CRT Board Connector			
Size	Project Name		Rev
	Angel		SB
Date:	Monday, February 18, 2013	Sheet	53 of 102

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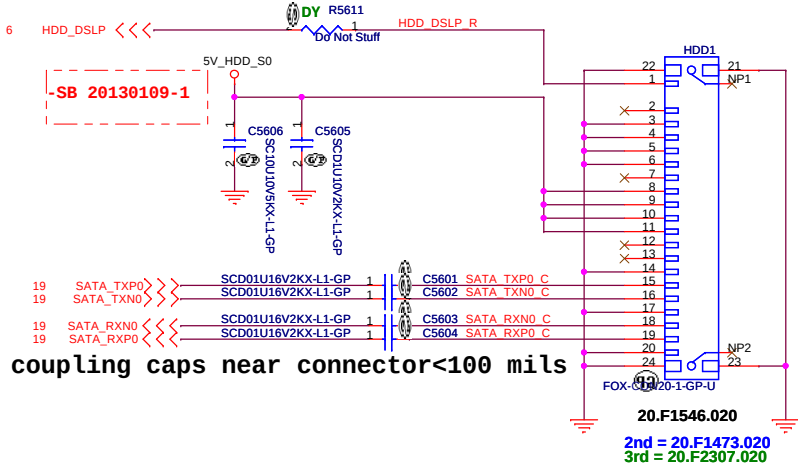
SSID = SATA

SATA HDD Connector

Delay HDD power off timing for 800ms~900ms after SATA controller shut down



AC coupling caps near connector<100 mils



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Title			
HDD/ODD			
Size	Project Name	Rev	SB
Date: Monday, February 18, 2013			
Sheet 56 of 102			

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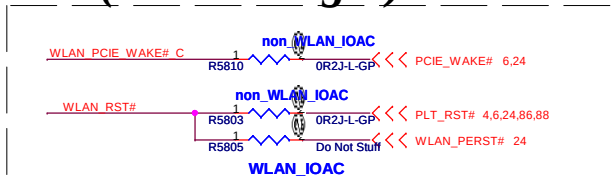
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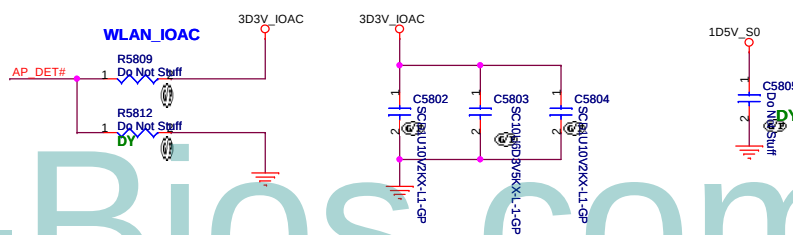
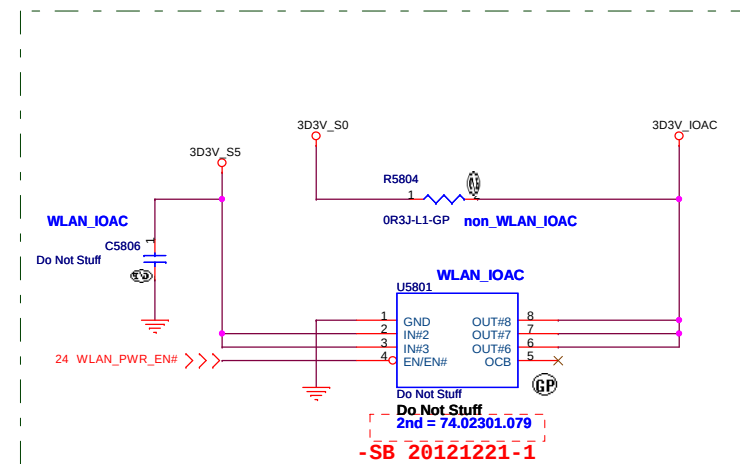
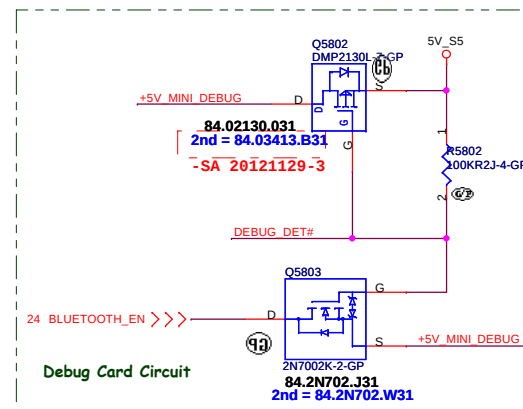
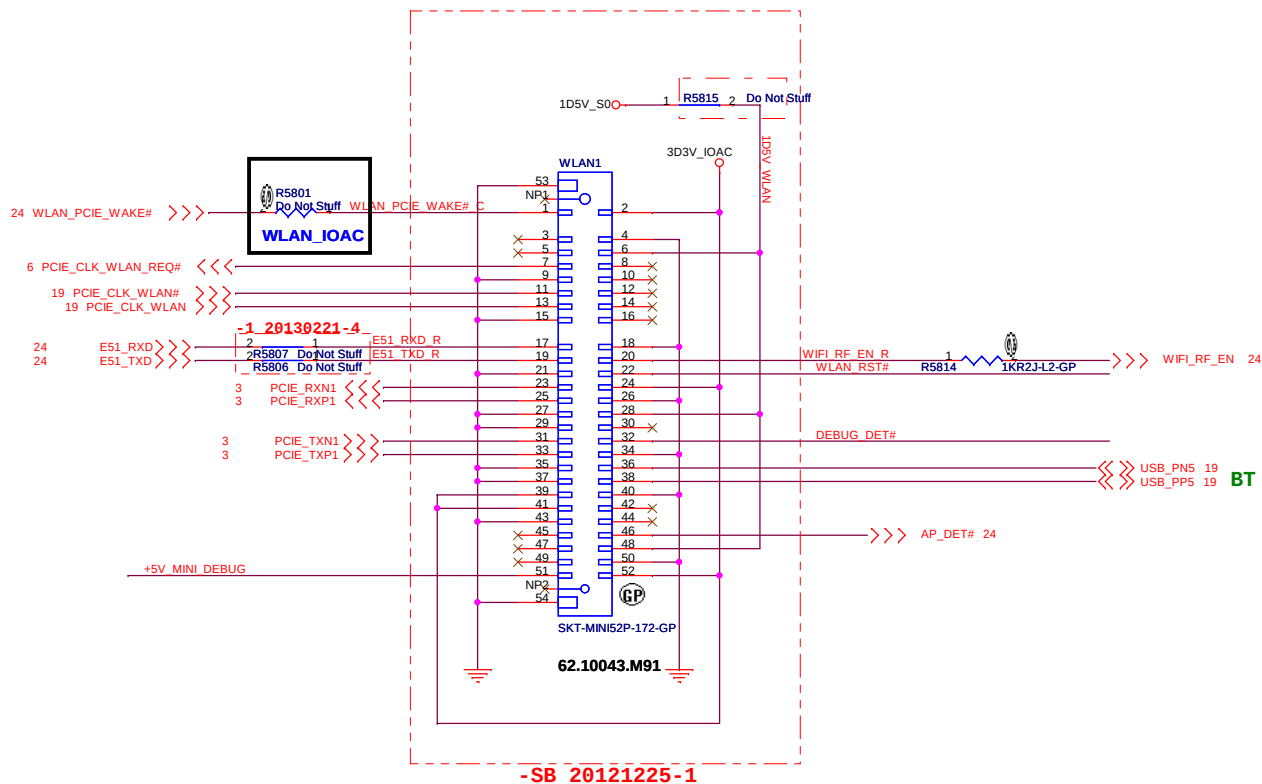
		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Reserved			
Size	Project Name		Rev
	Angel		SB
Date:	Monday, February 18, 2013	Sheet	57 of 102

SSID = Wireless

Mini Card Connector(802.11a/b/g/n)



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Angel second

Title		MINICARD(WLAN)	
Size	Project Name	Angel	Rev
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SSID = Wireless

Mini Card Connector(WWAN)

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

Title

WWAN CONN

Size

Project Name

Angel

Rev
SB

Date: Monday, February 18, 2013

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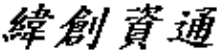
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SSID = mSATA

Mini Card Connector(mSATA)

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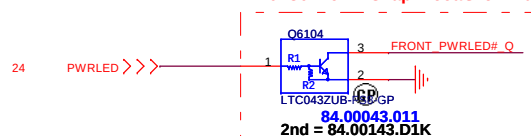
Angel second

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title mSATA Connector			
Size	Project Name Angel		Rev SB
Date: Monday, February 18, 2013		Sheet 60	of 102

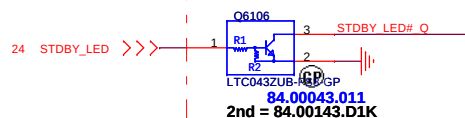
SSID = User.Interface

Power button LED

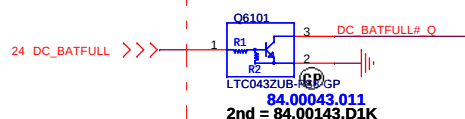
-1 20130219-1 Swap location name



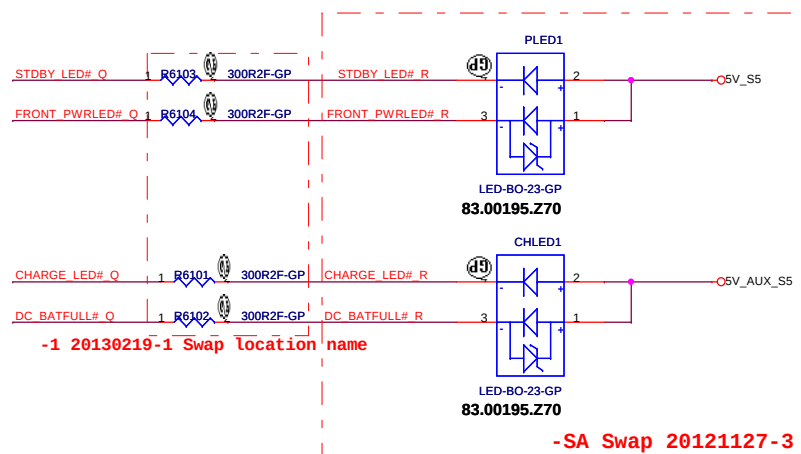
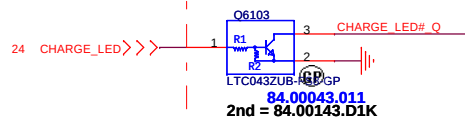
Power STDBY_LED



Battery LED2(DC_BATFULL)



Battery LED1(CHARGE)



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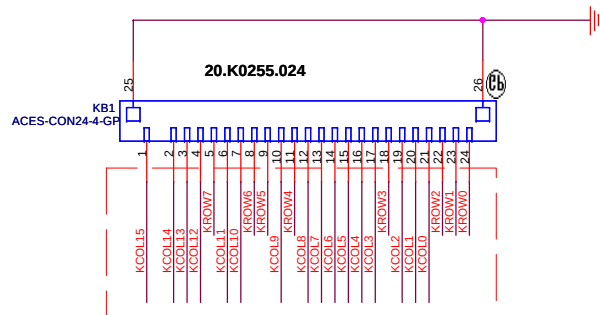
Angel second

Title		LED Bard/Power Button	
Size		Project Name	Rev
Date		Angel	SB
Date: Tuesday, February 19, 2013		Sheet 61 of 102	

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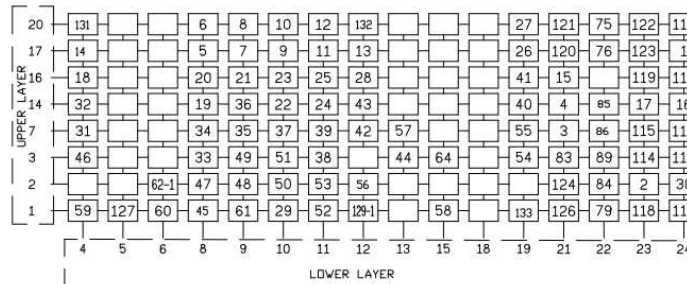
SSID = KBC

Internal KeyBoard Connector



-SB 20121217-1 Swap

24 [K/B] 1

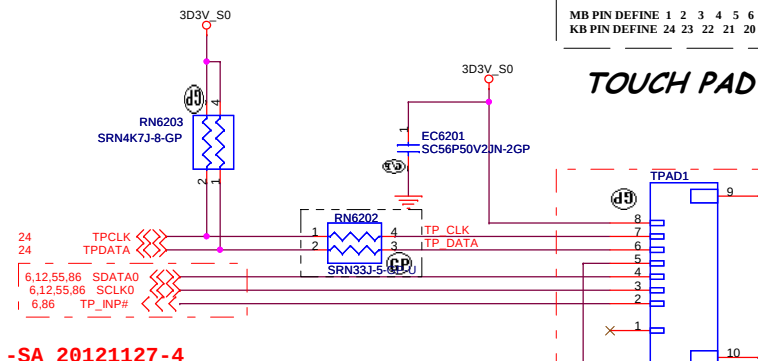


←←← KROW[0..7] 24,86

→→→ KCOL[0..15] 24,86

MB PIN DEFINE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
KB PIN DEFINE 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

TOUCH PAD

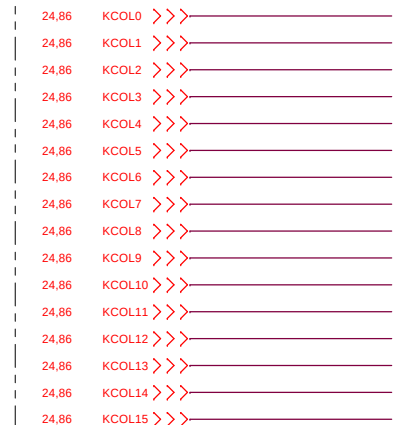


-SA 20121127-4

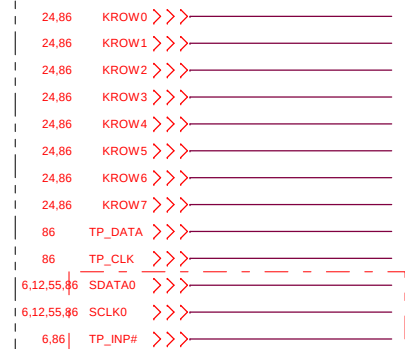
-SB 20121227-1
Swap

20.K0637.008
2ND = 20.K0767.008

-SB 20130103-2

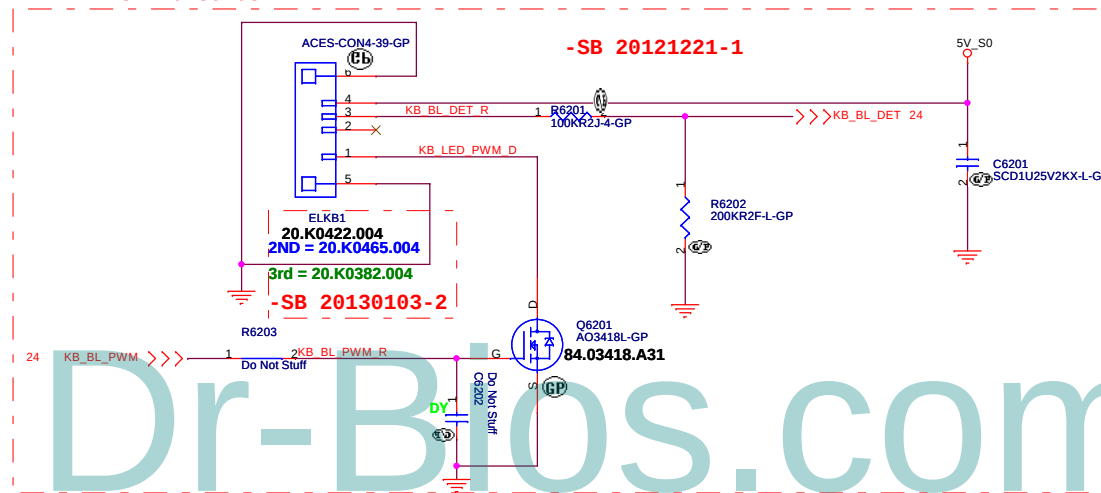


-SA 20121123-1



-SA 20121123-2

For AFTE



-SB 20121221-1

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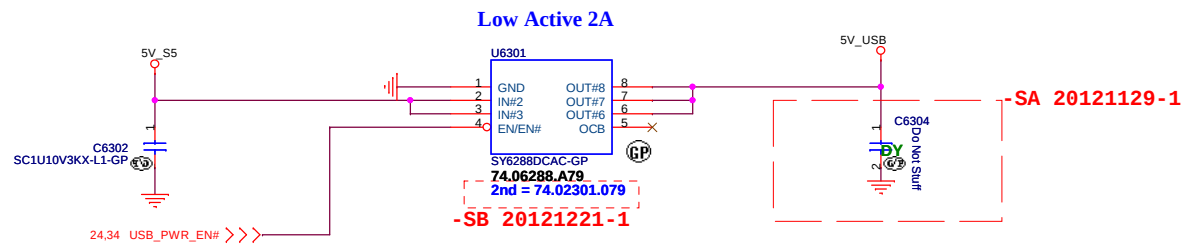
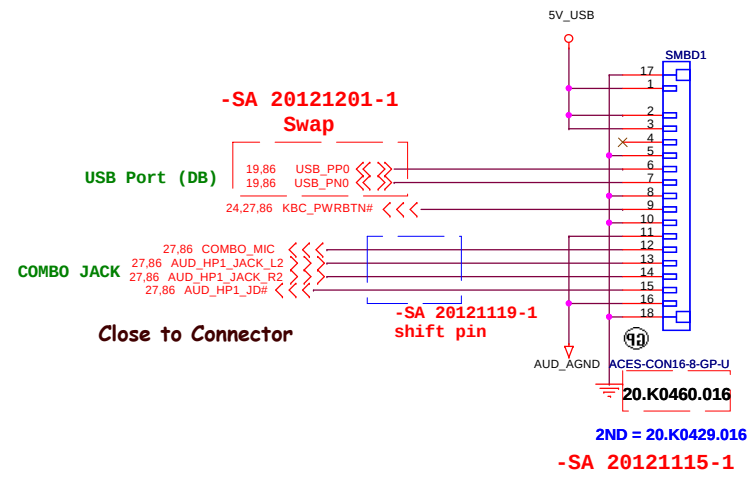
3rd = 20.K0382.004

-SB 20130103-2

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Angel second

Title		Key Board/Touch Pad	
Size	Project Name	Angel	Rev SB
Date	Monday, February 18, 2013	Sheet 62	of 102

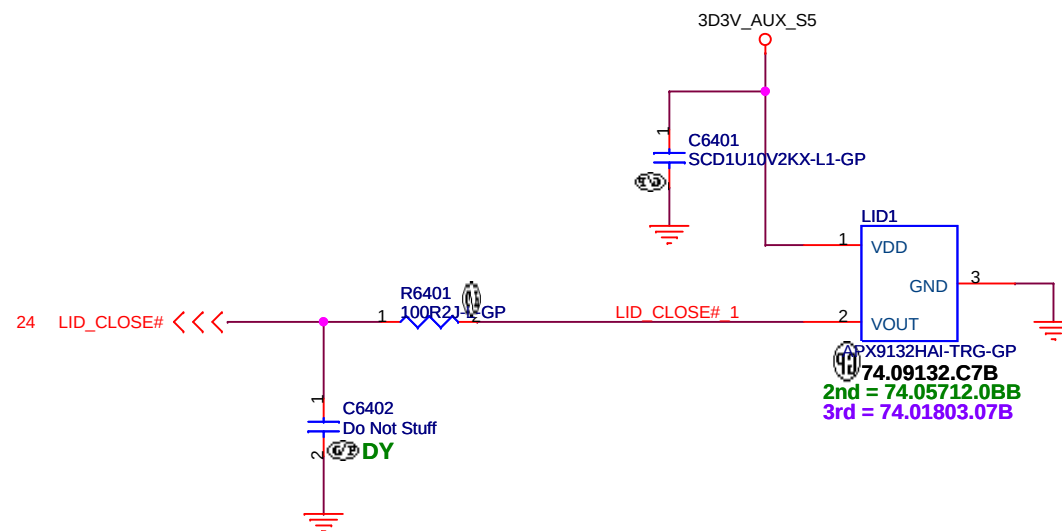


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Angel second

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Title			
IO Board Connector			
Size	Project Name		Rev
	Angel		SB
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Title			
Hall Sensor			
Size	Project Name		Rev
	Angel		SB
Date:	Monday, February 18, 2013	Sheet	64 of 102



-SB 20121221-1

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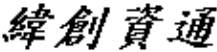
Angel second

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Dubug connector			
Size	Project Name Angel		Rev SB
Date: Monday, February 18, 2013		Sheet 65	of 102

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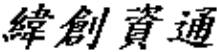
Angel second

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Reserved			
Size	Project Name Angel		Rev SB
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SSID = User.Interface

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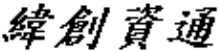
Angel second

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title G Sensor			
Size	Project Name Angel		Rev SB
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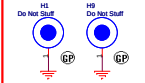


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Angel second

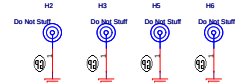
		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title DP SWITCH (1/3)			
Size	Project Name Angel		Rev SB
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ZZ.00PAD.921

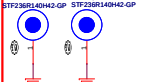


ZZ.00PAD.931

-SB 20130103-1



34.4LK01.001



-SA 20121129-1

34.4GZ08.201

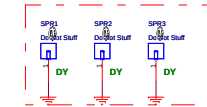


-1 20130201-1

Do Not Stuff

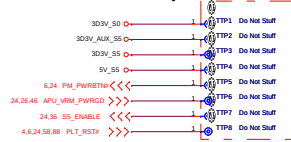


-SB 20121228-1



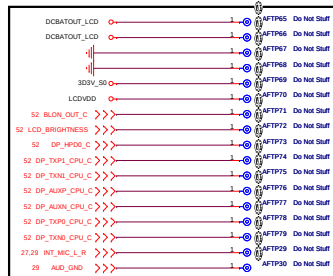
-SB 20130110-1

Check test point



-SB 20130110-2

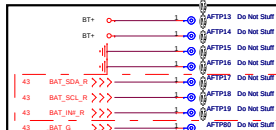
Test Point放在Dimm Door打開可量測處



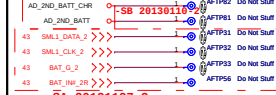
EDP + MIC connector



DC IN connector



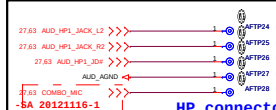
Main Battery connector



Second Battery connector



Speaker connector



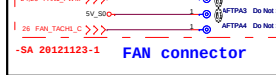
HP connector



Touch Pad connector



Fan connector



Card reader connector



USBBD connector



PWR connector



Normal KB connector



UNUSED PARTS/EMI Connectors

5	4	3	2	1																									
D				D																									
C				C																									
B				B																									
A				A																									
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Date:	Monday, February 18, 2013		Sheet	87 of 102																									
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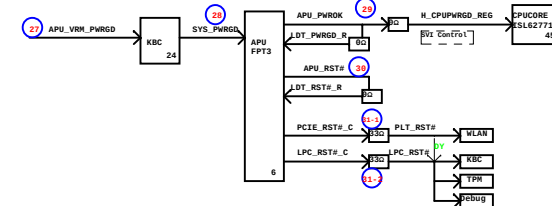
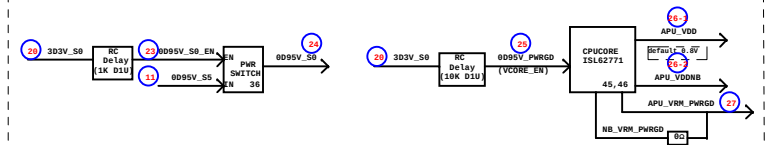
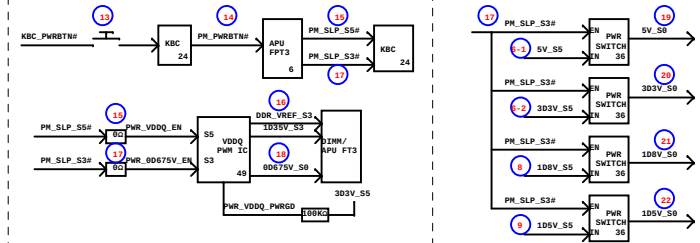
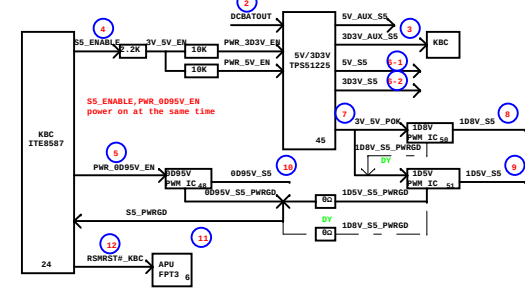
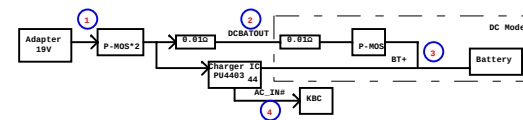
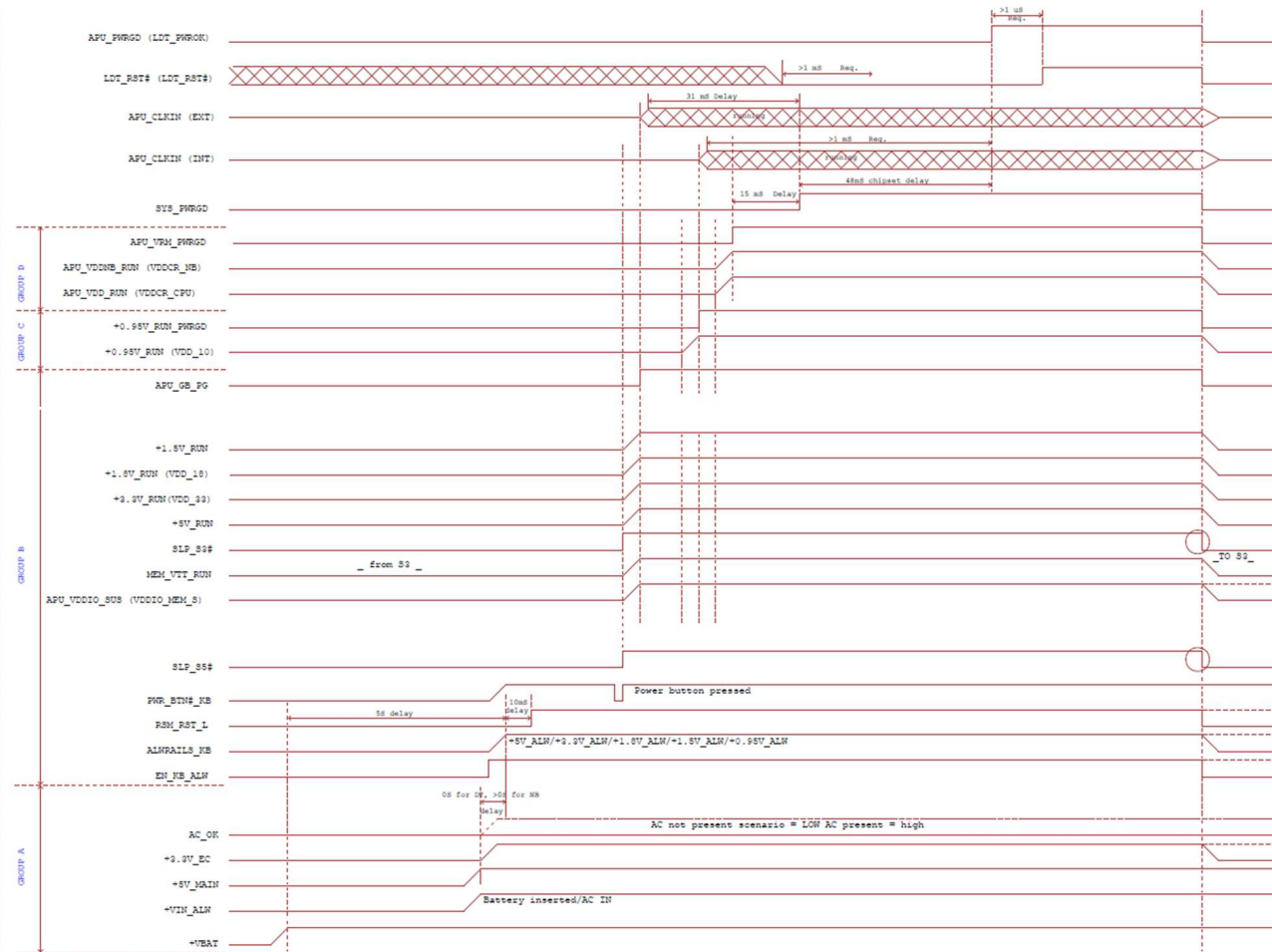


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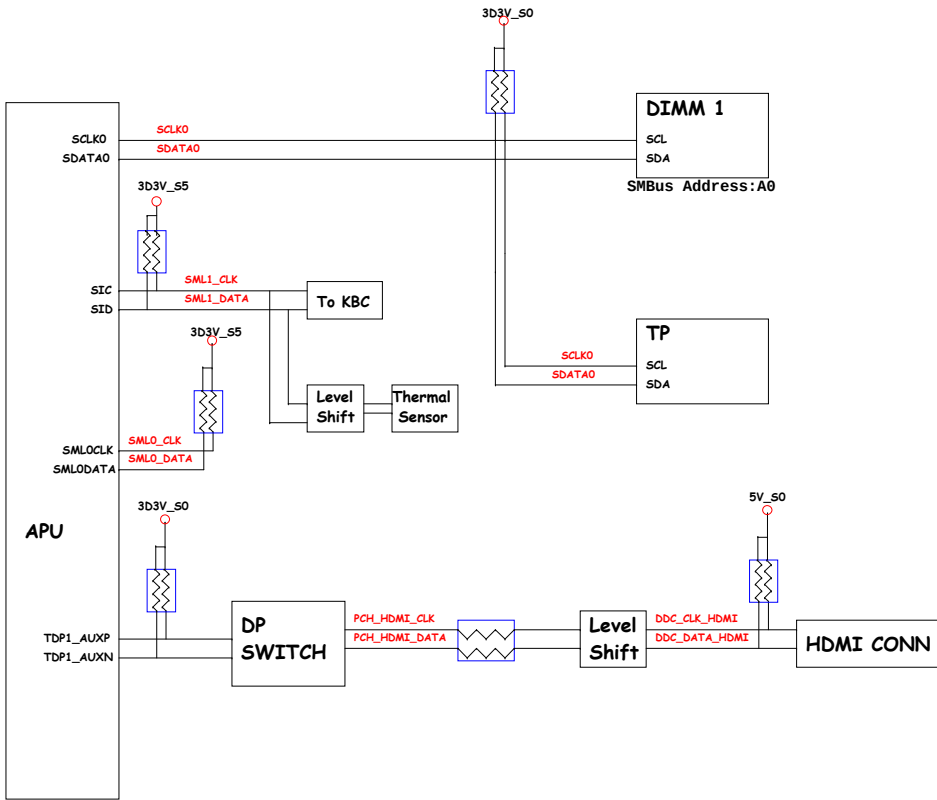
Angel second

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Title Finger Print			
Size	Project Name Angel		Rev SB
Date: Monday, February 18, 2013	Sheet 89	of 102	

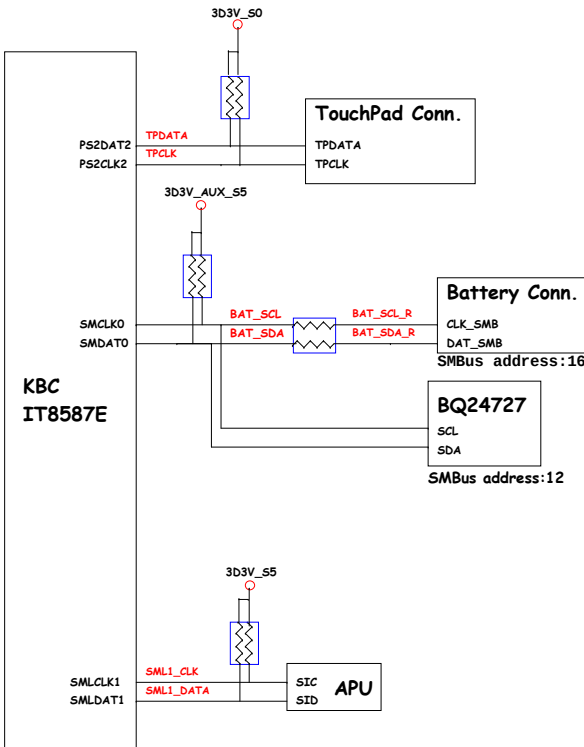
Power-up Sequencing for the KABINI Platform from Mechanical Off



APU SMBus Block Diagram

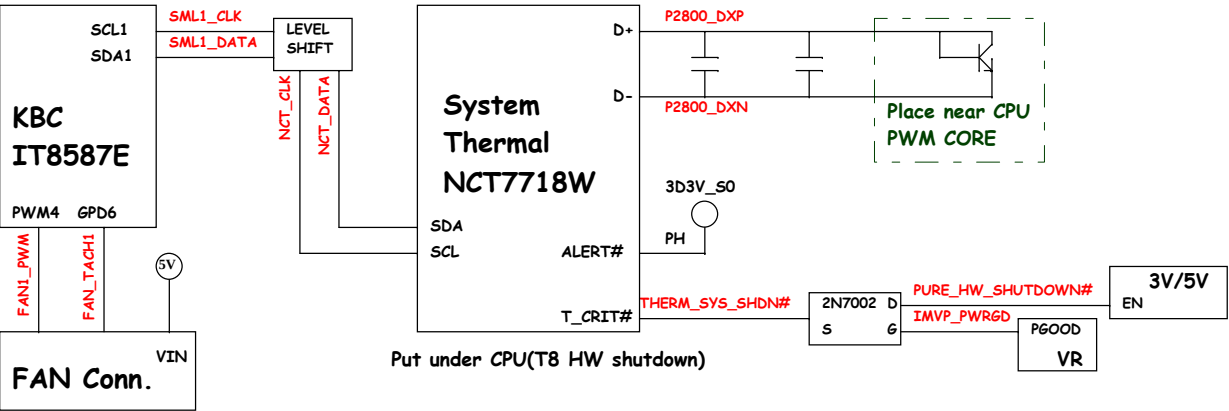


KBC SMBus Block Diagram

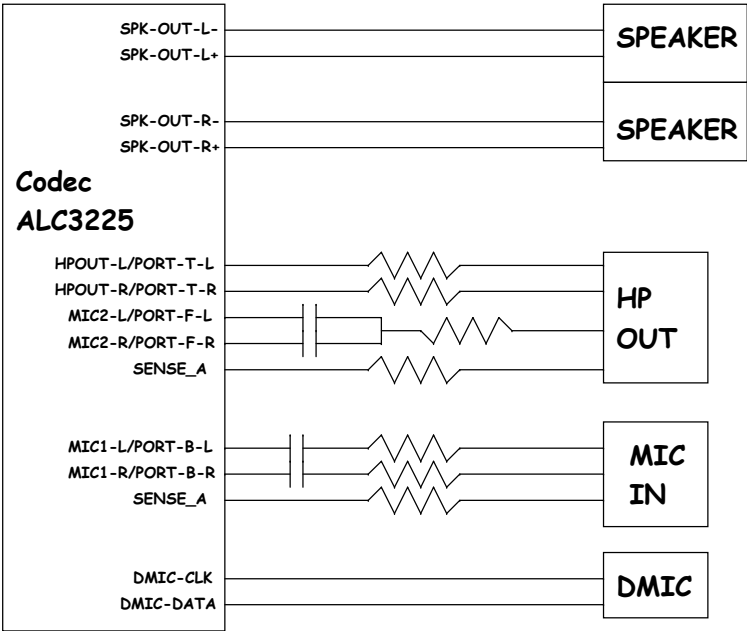


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Thermal Block Diagram



Audio Block Diagram



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