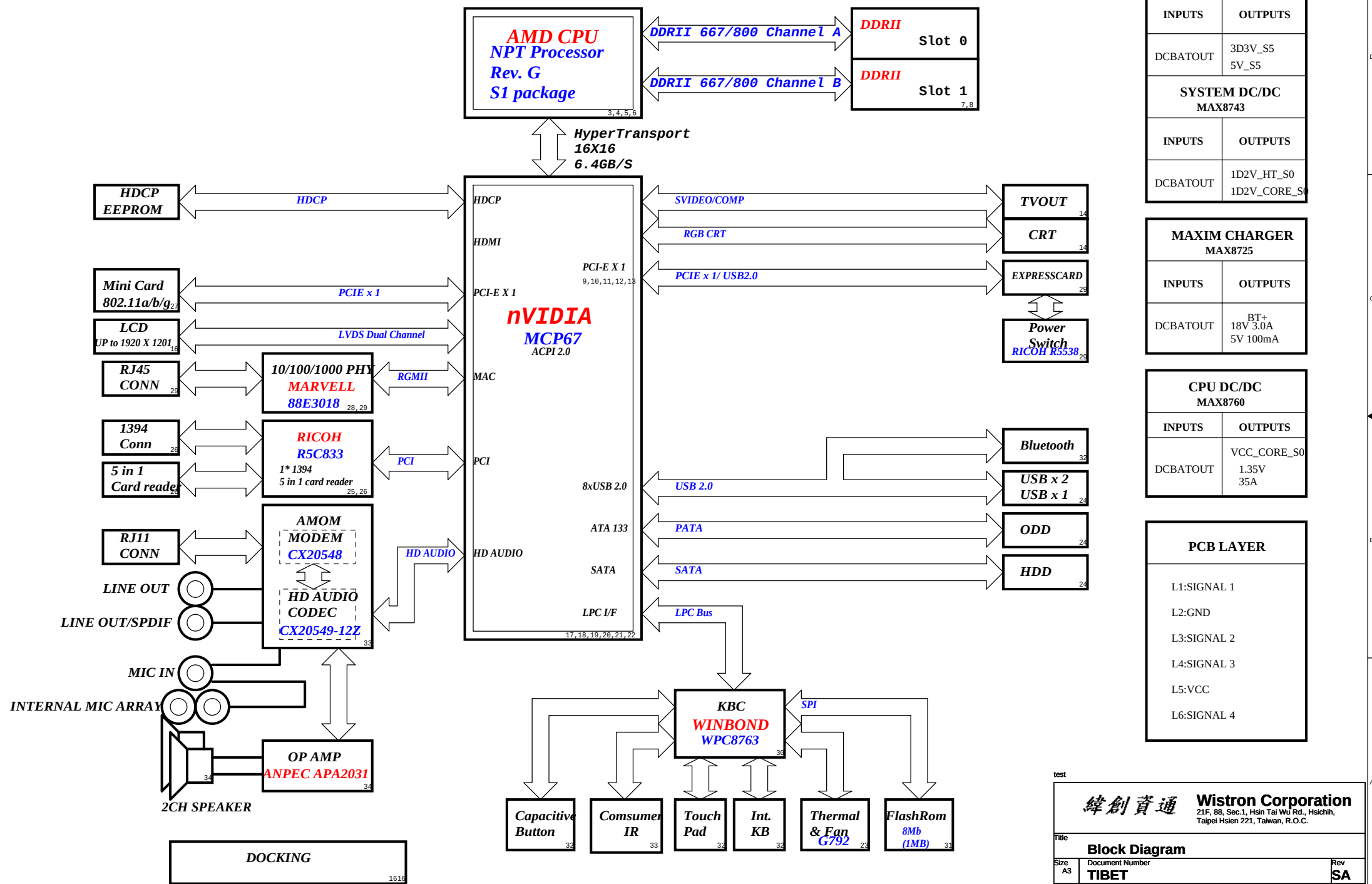
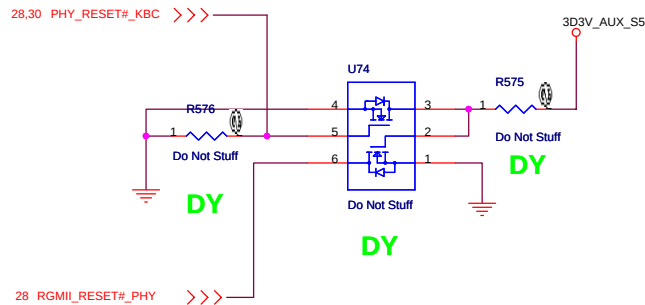
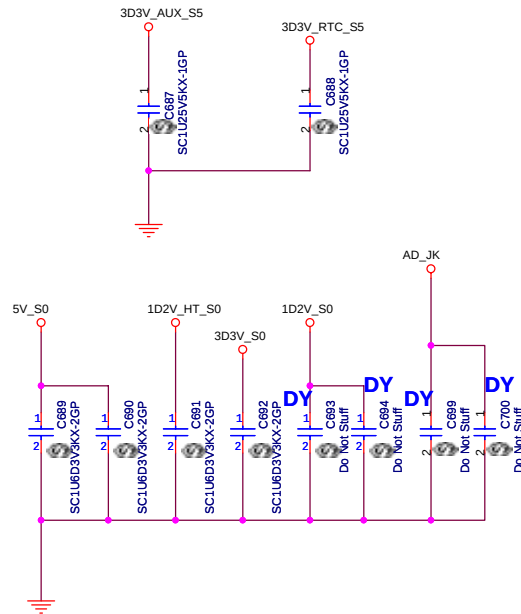
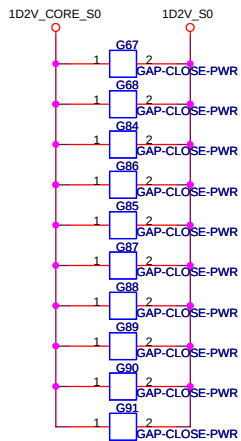


Tibet Block Diagram



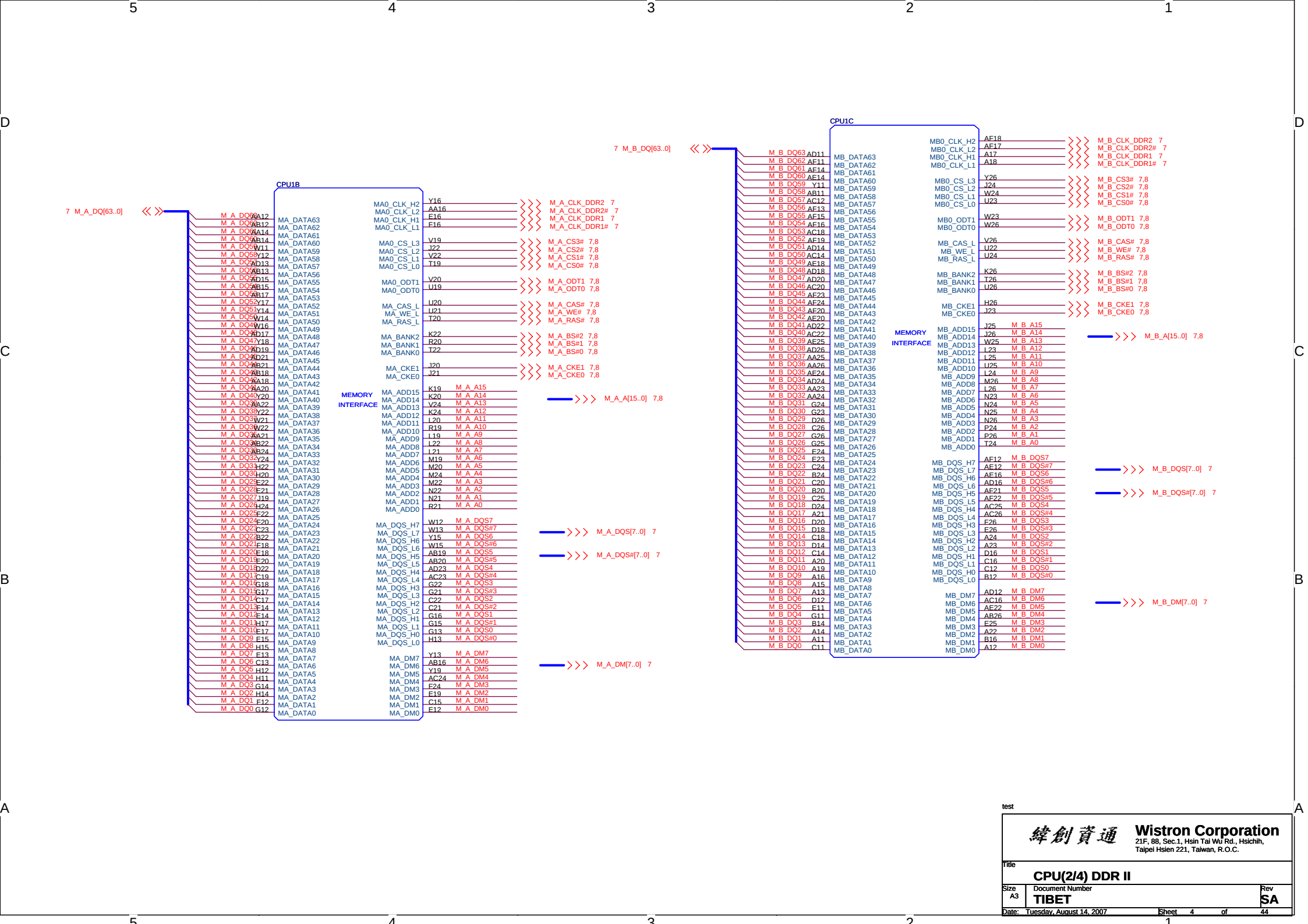


test

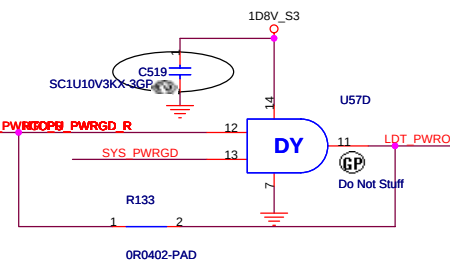
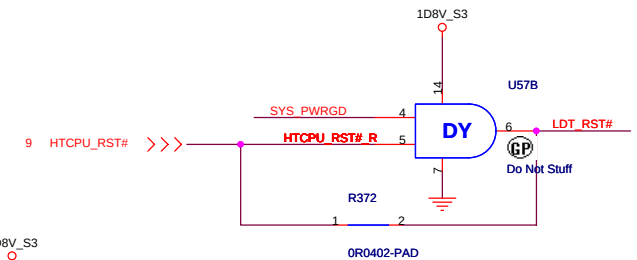
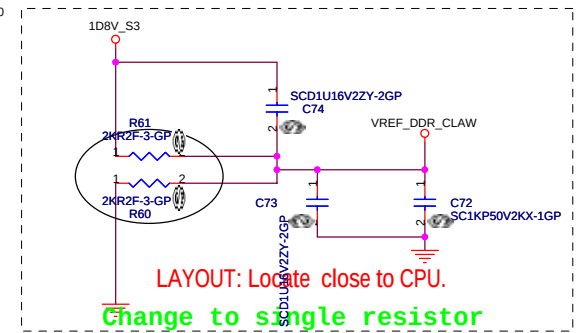
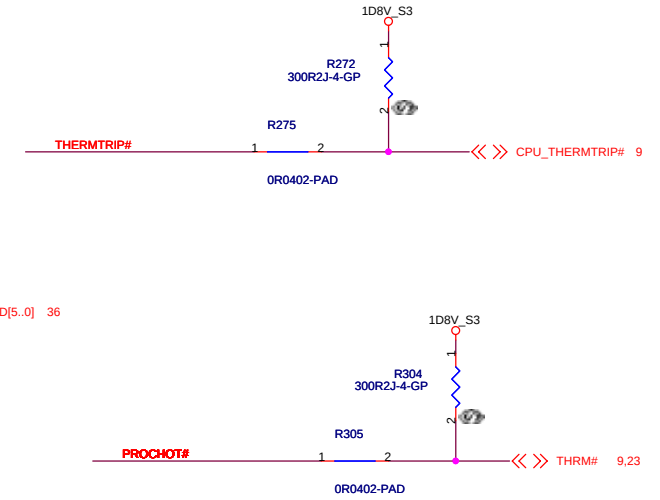
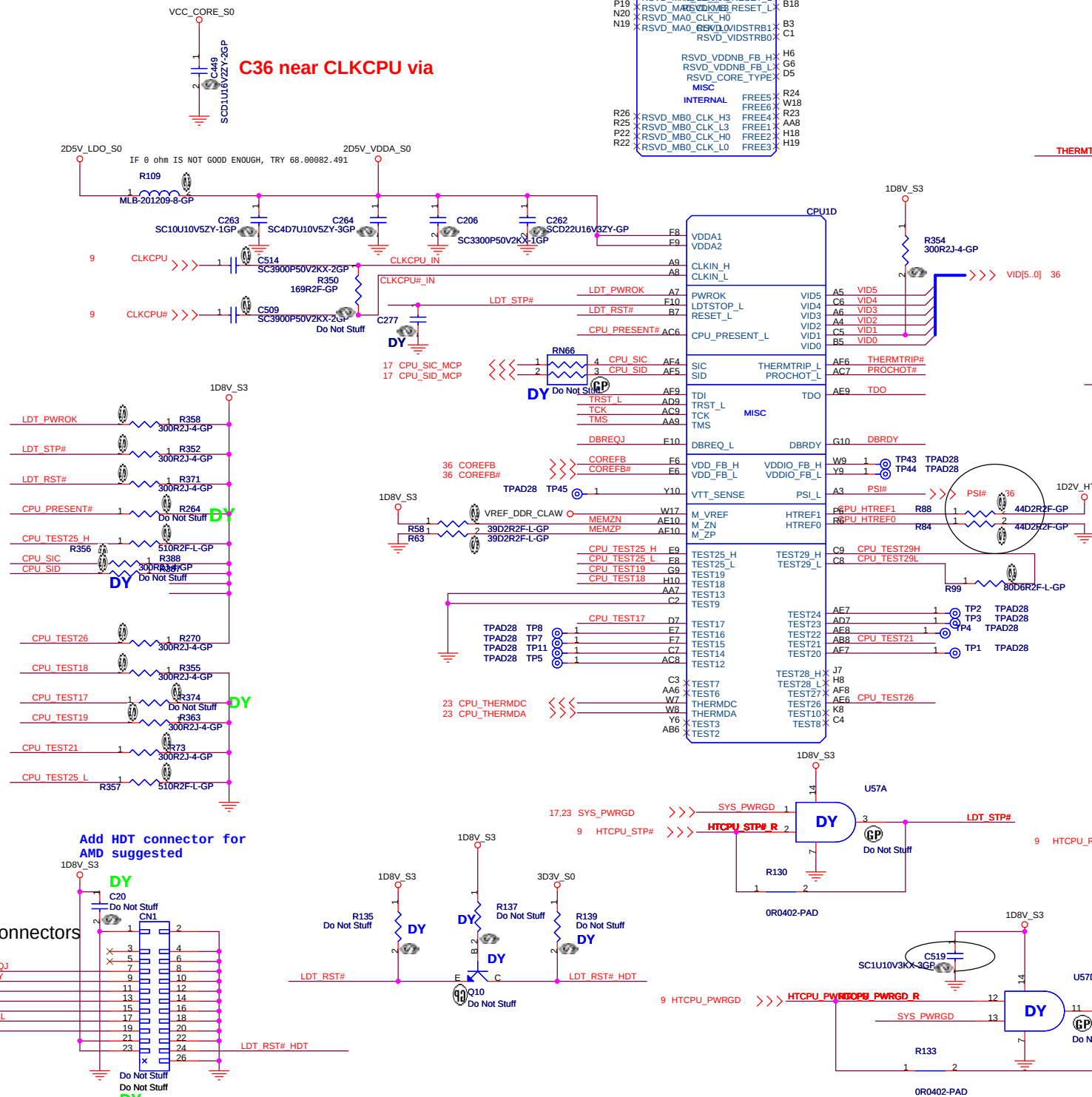


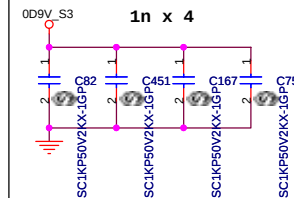
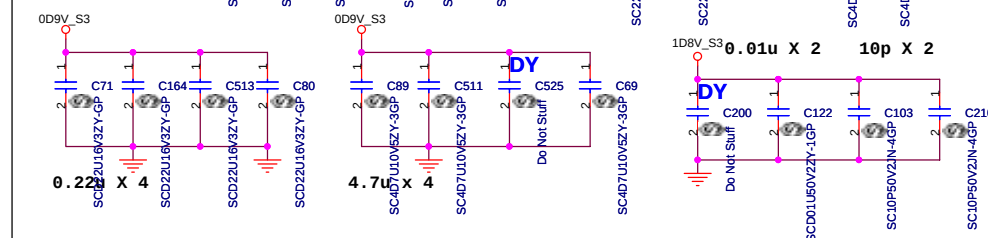
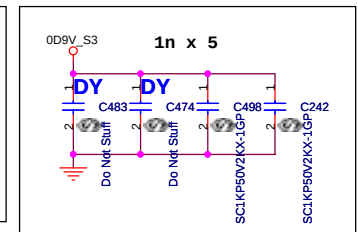
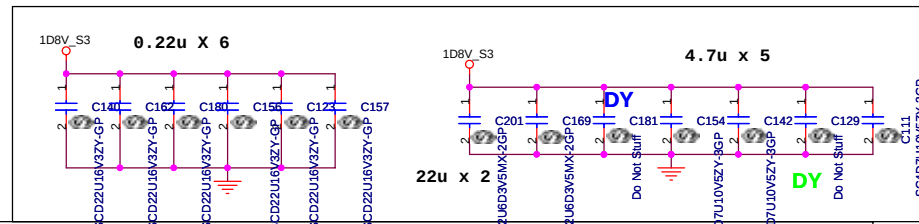
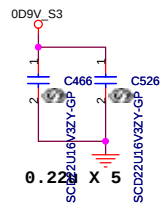
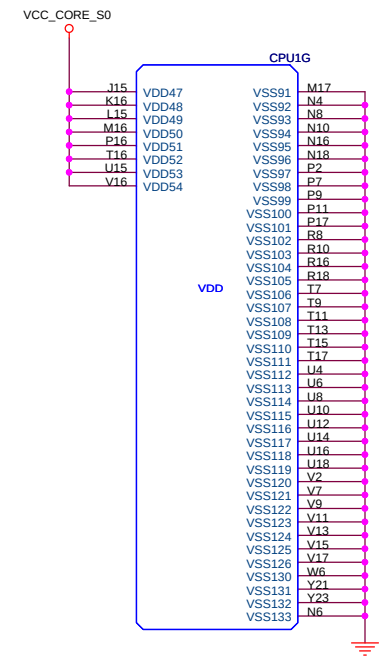
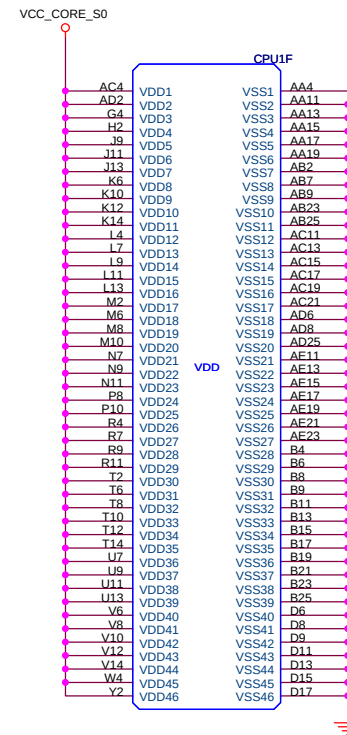
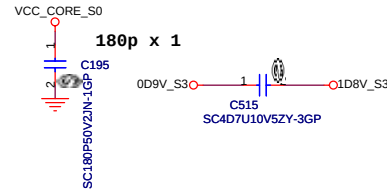
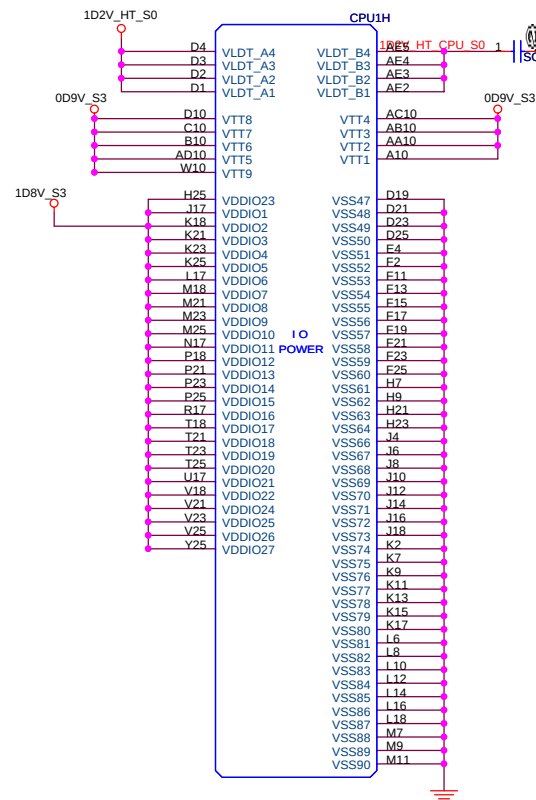
test

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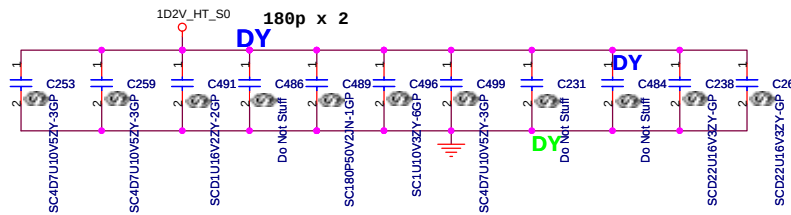
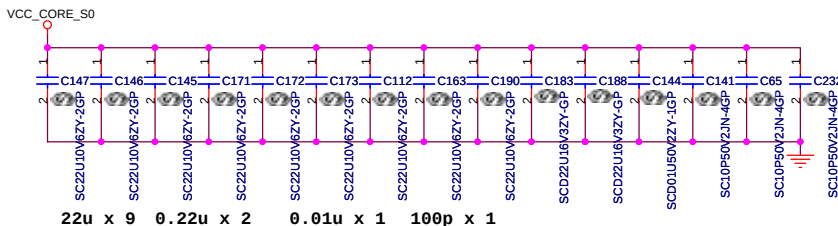


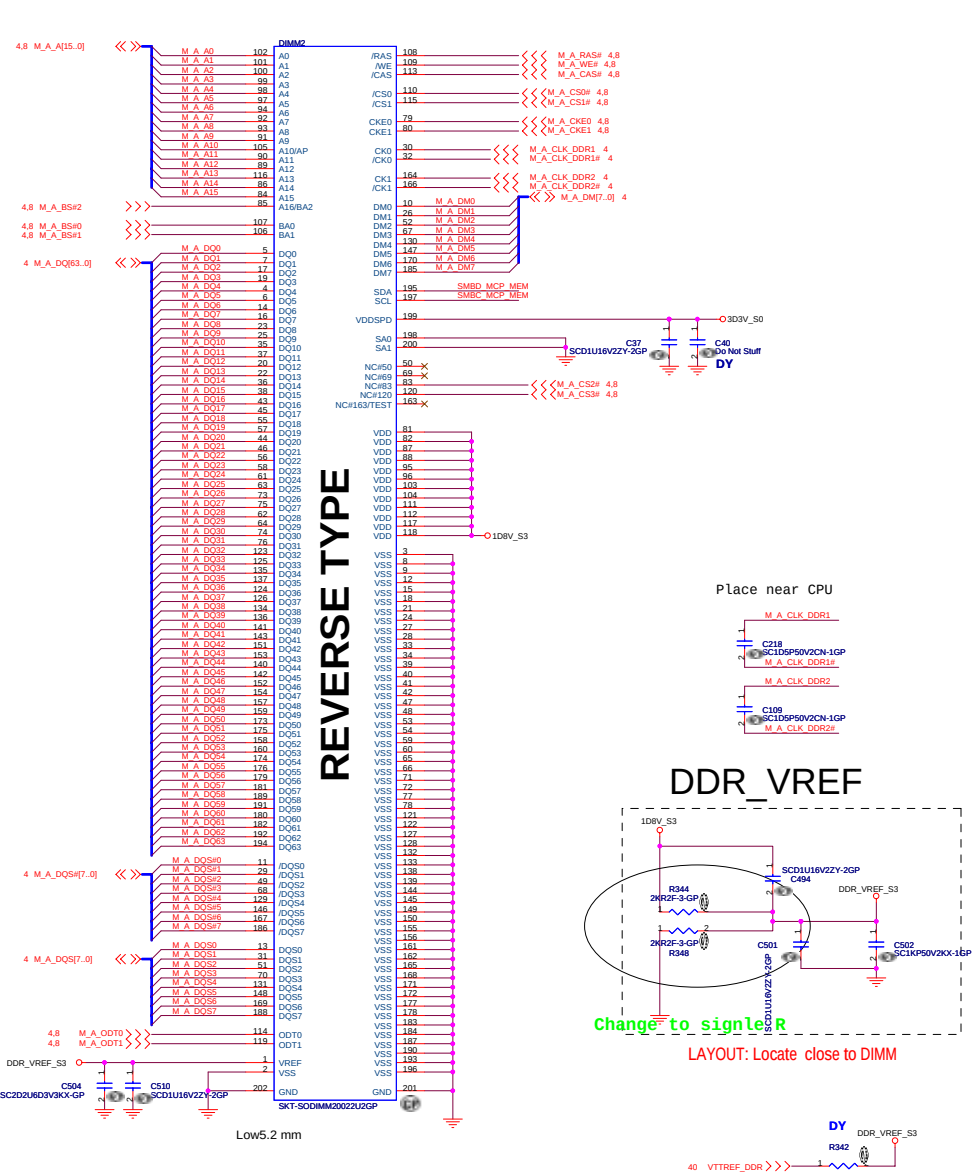
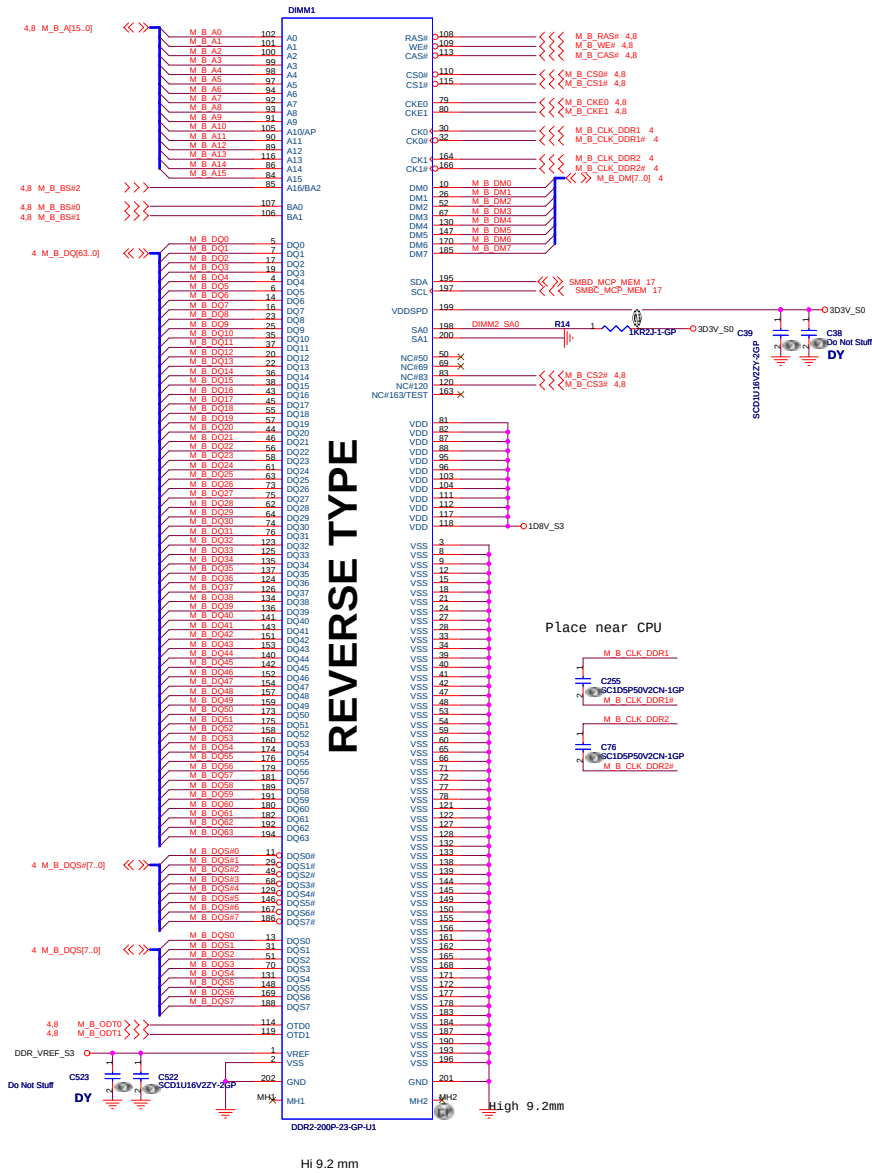
test





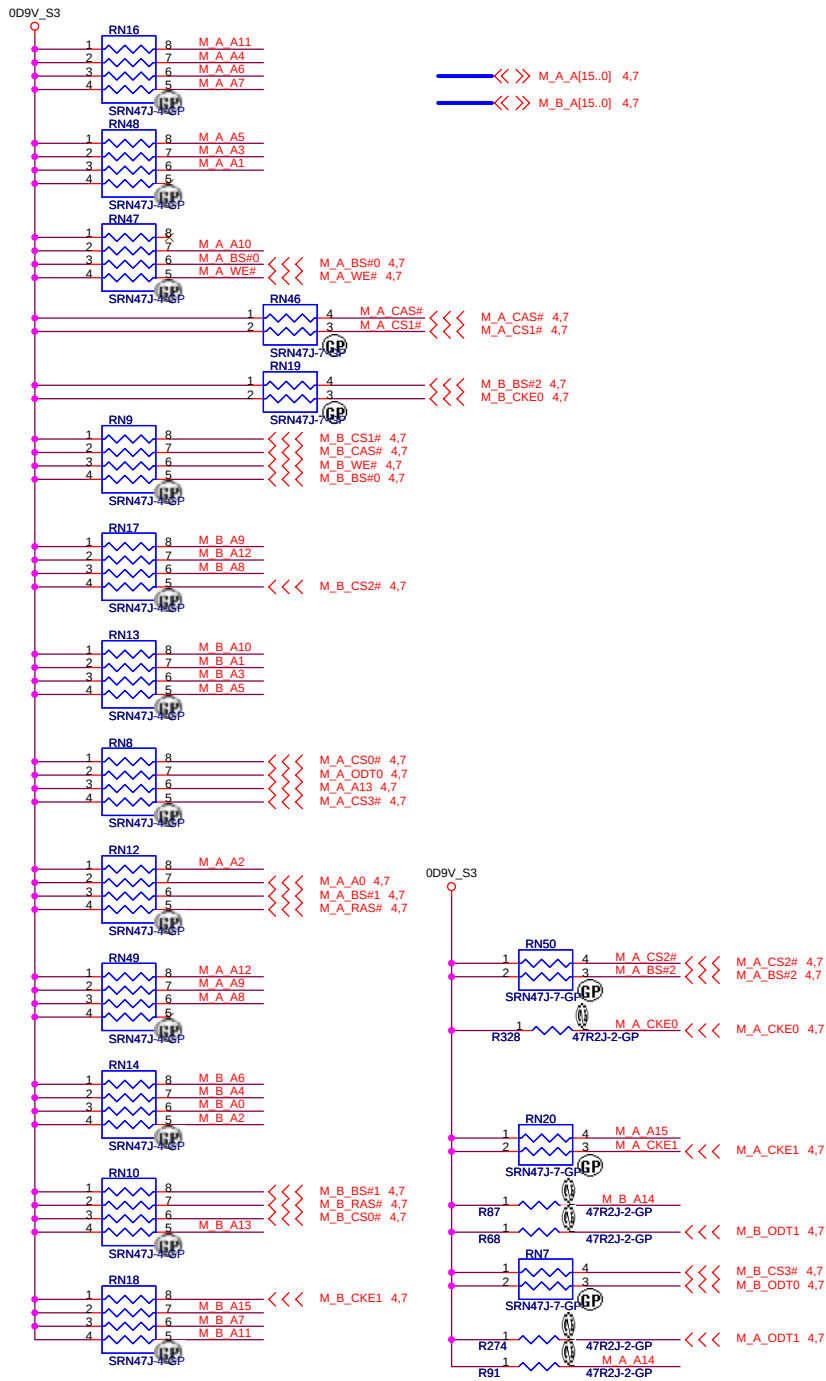
LAYOUT: Place on backside of processor.





PARALLEL TERMINATION

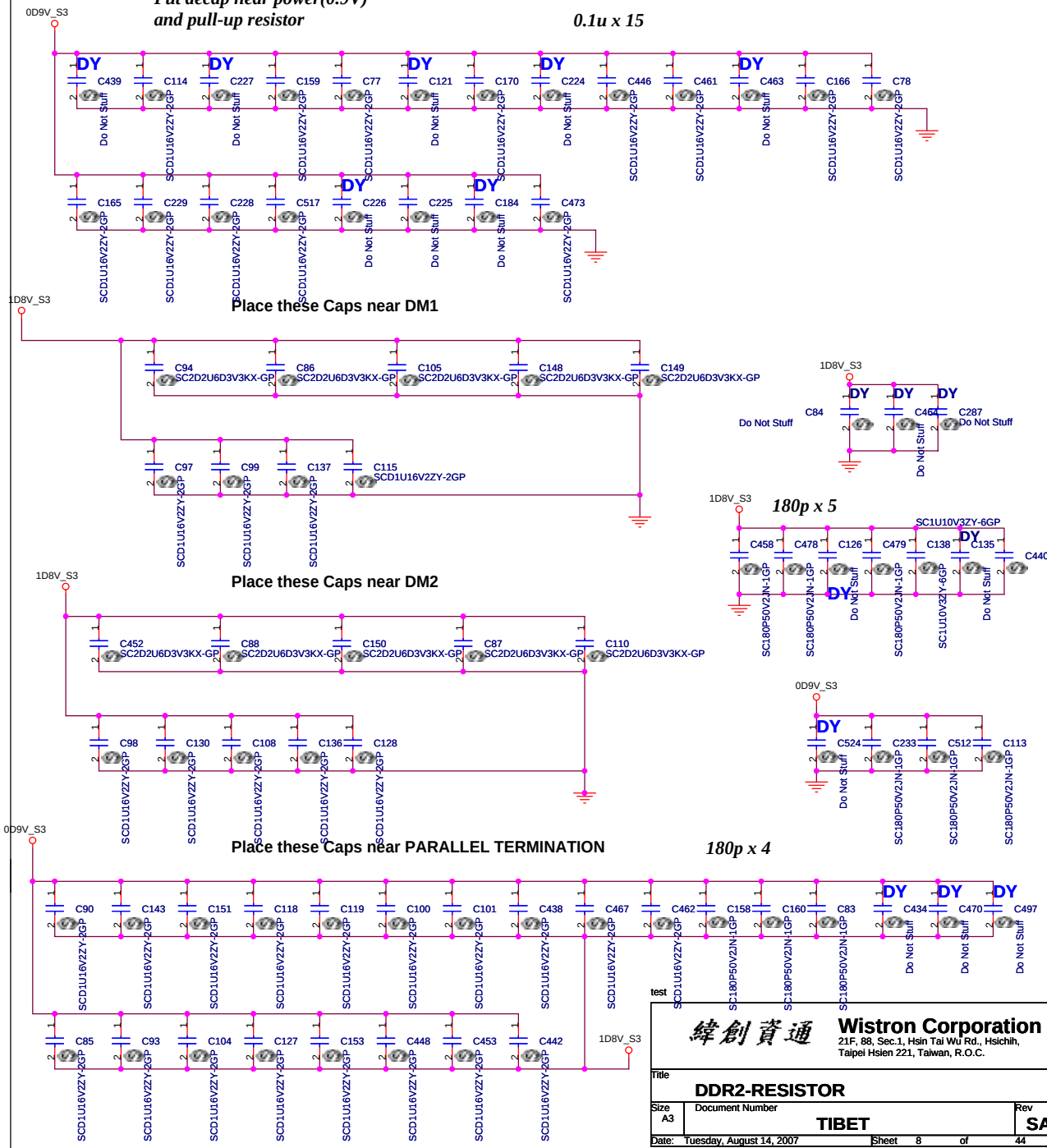
Put decap near power(0.9V) and pull-up resistor



Decoupling Capacitor

**Put decap near power(0.9V)
and pull-up resistor**

0.1u x 15



緯創資通

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

Title	DDR2-RESISTOR
-------	----------------------

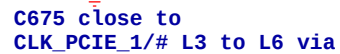
Size	Document Number
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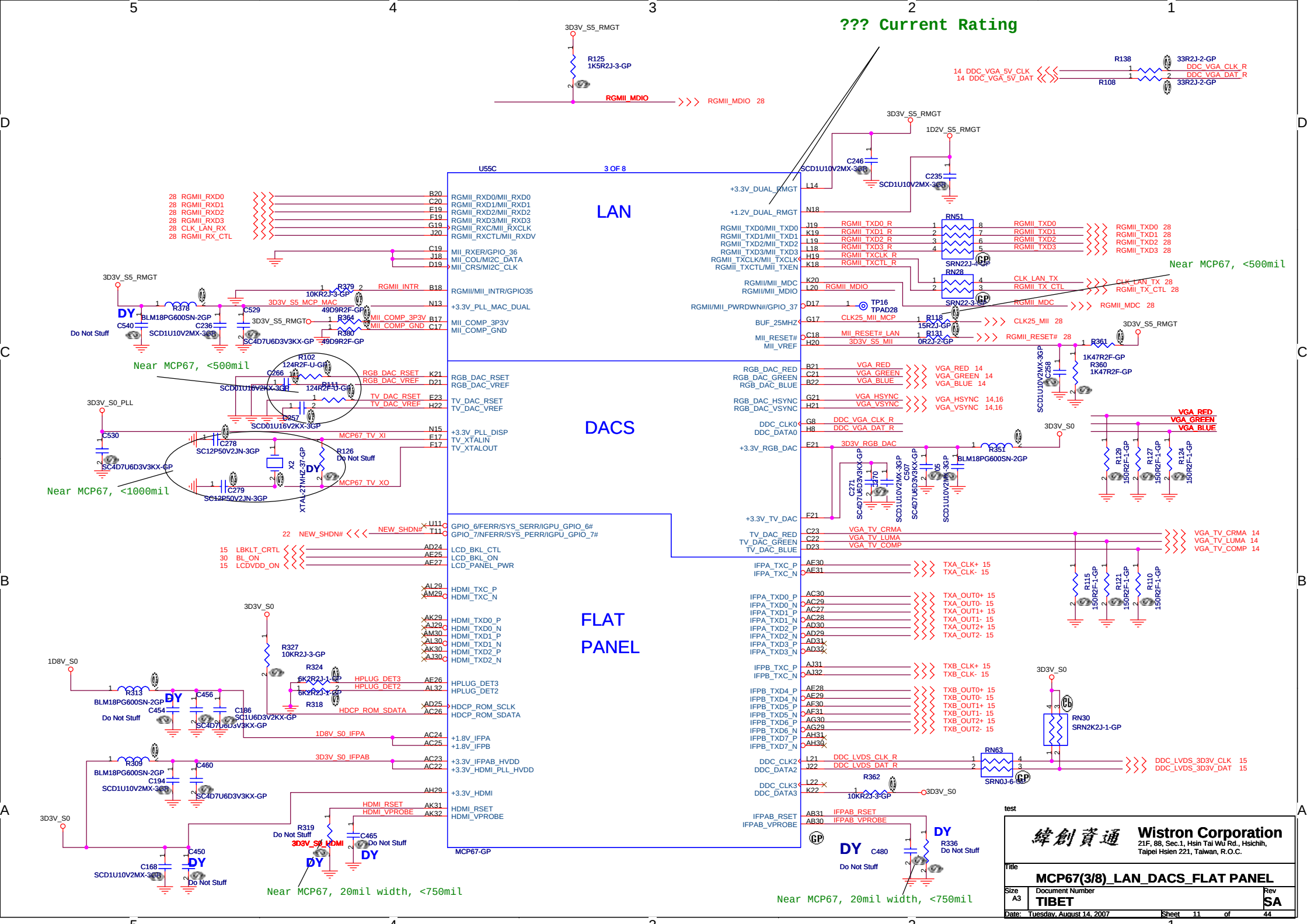
TIBET

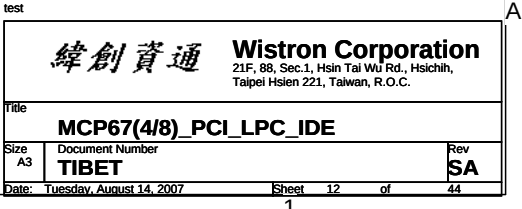
Date: Tuesday, August 14, 2007

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S

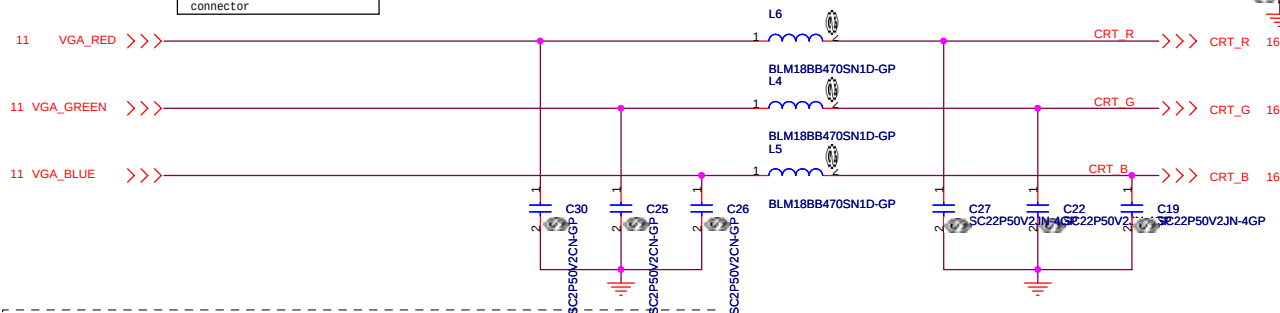






CRT I/F & CONNECTOR

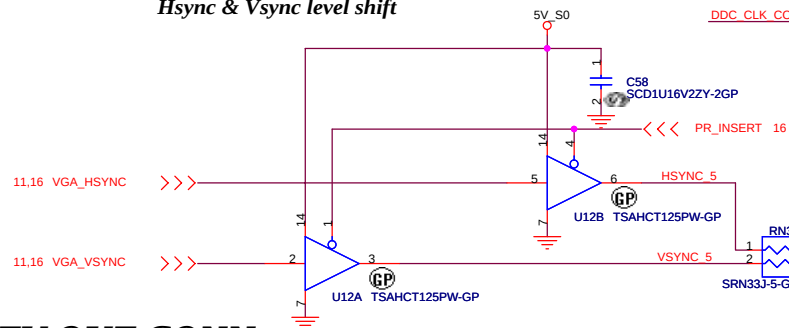
Layout Note:
Place these resistors
close to the CRT-out
connector



Layout Note:

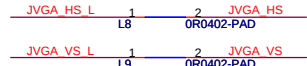
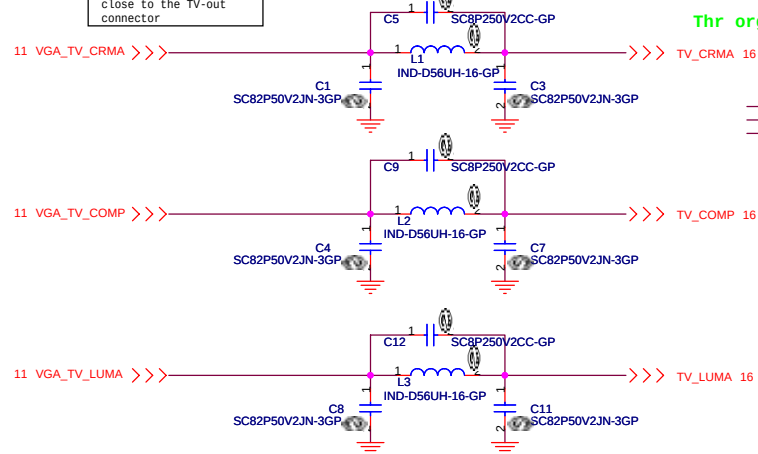
* Must be a ground return path between this ground and the ground on the VGA connector.
Pi-filter & 150 Ohm pull-down resistors should be as close as to CRT CONN. RGB will hit 75 Ohm first, pi-filter, then CRT CONN.

Hsync & Vsync level shift

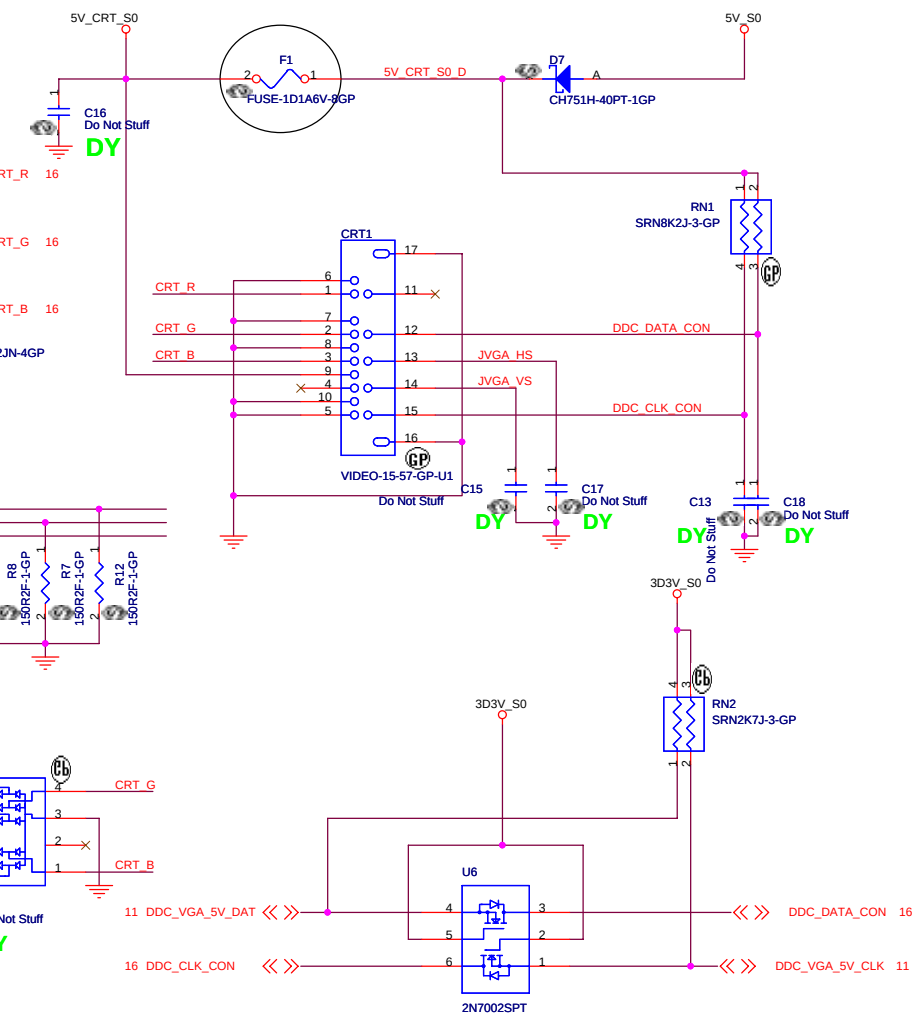
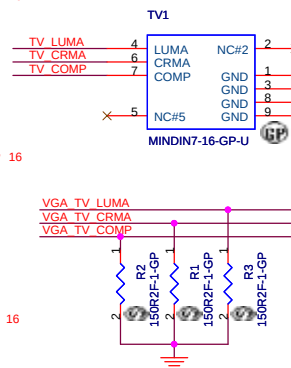


TV OUT CONN

Layout Note:
Place this 2 resistors
close to the TV-out
connector



Thr org part is 68.2703N.10B

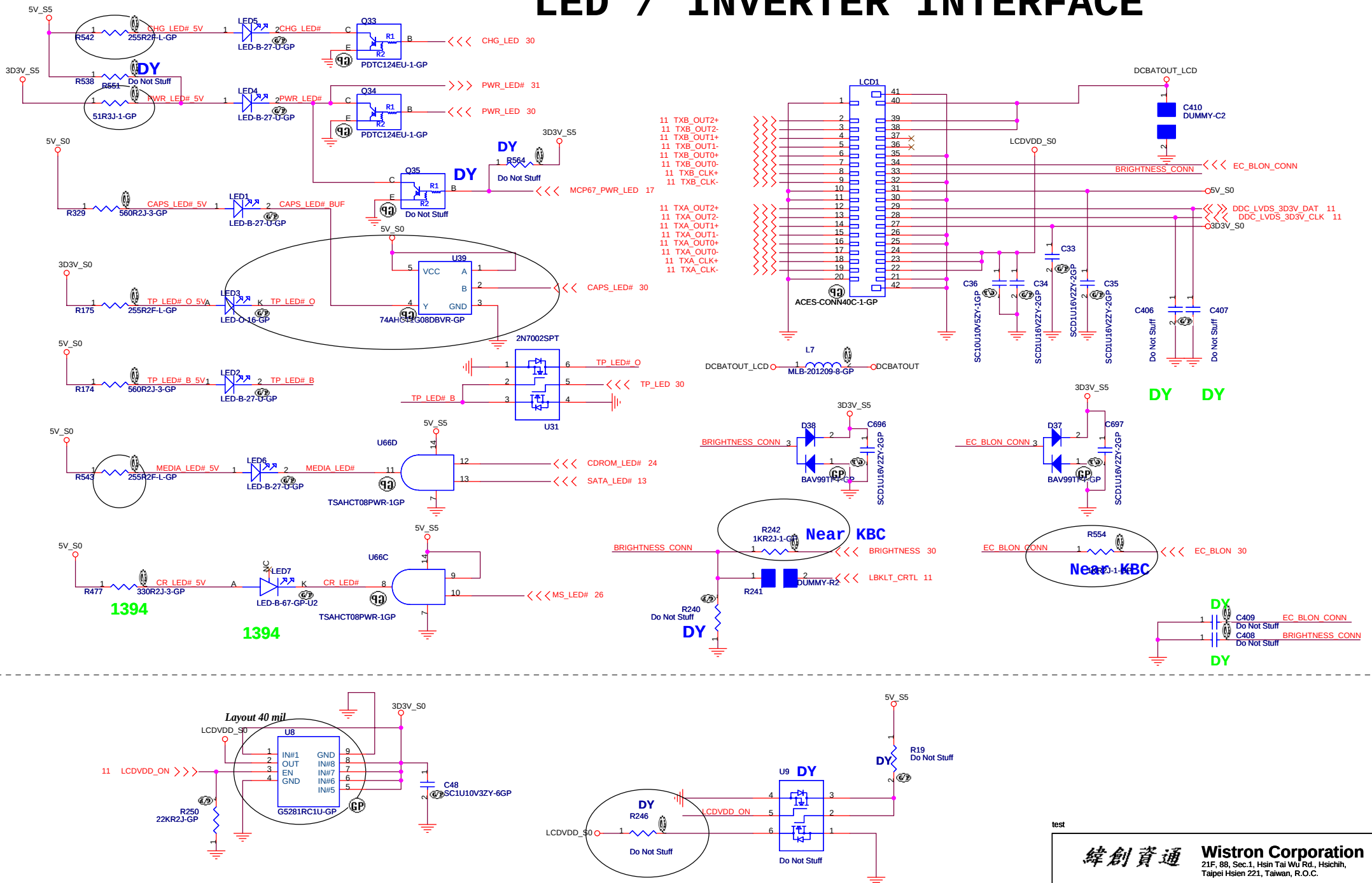


5V @ ext. CRT side

test

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Title			
CRT/TV CONNECTOR			
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LED / INVERTER INTERFACE

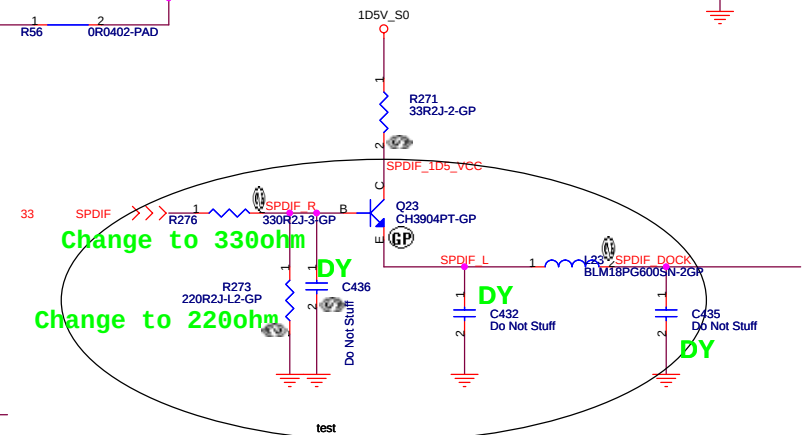
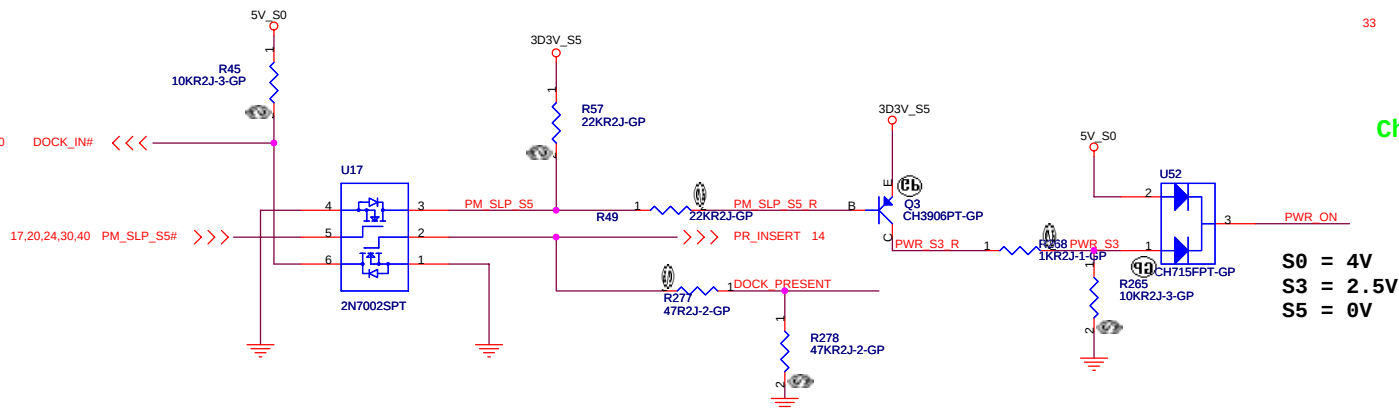
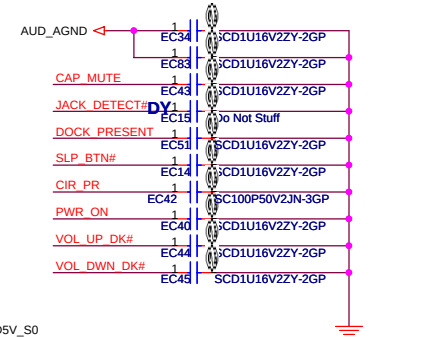
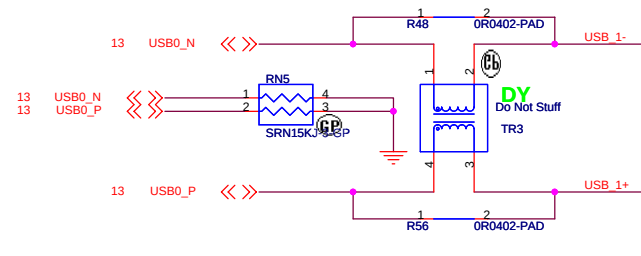
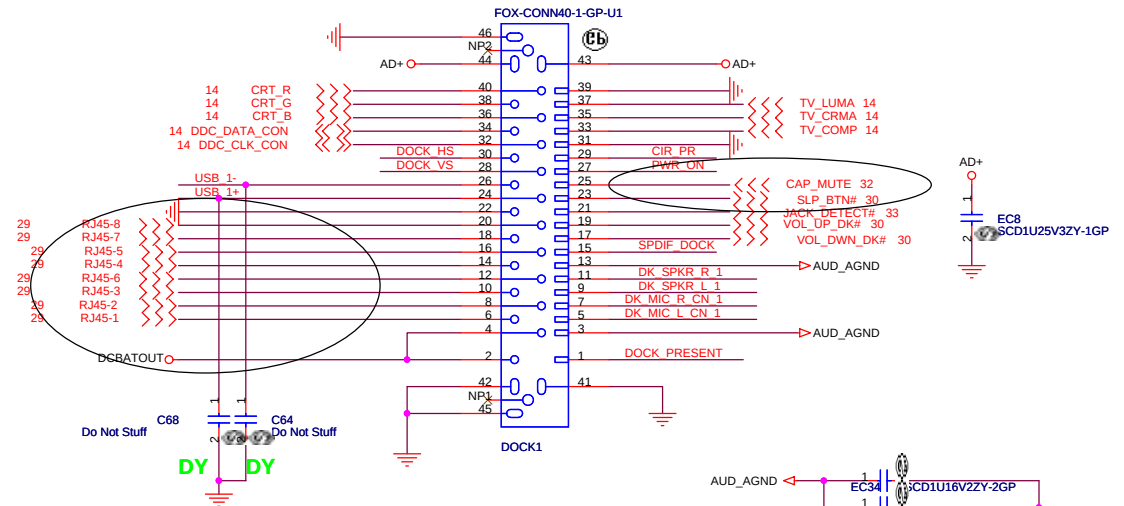
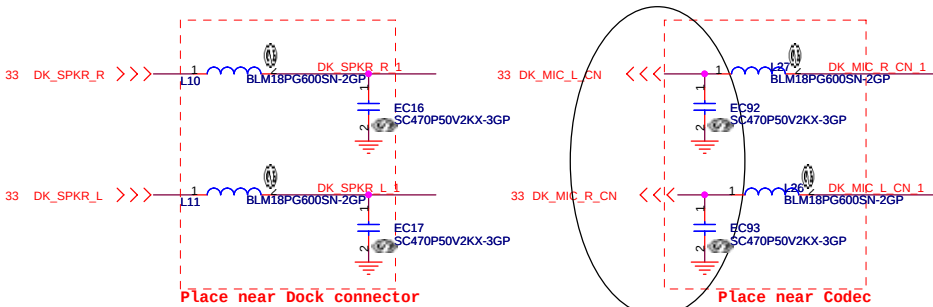
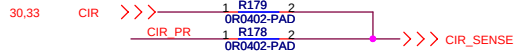
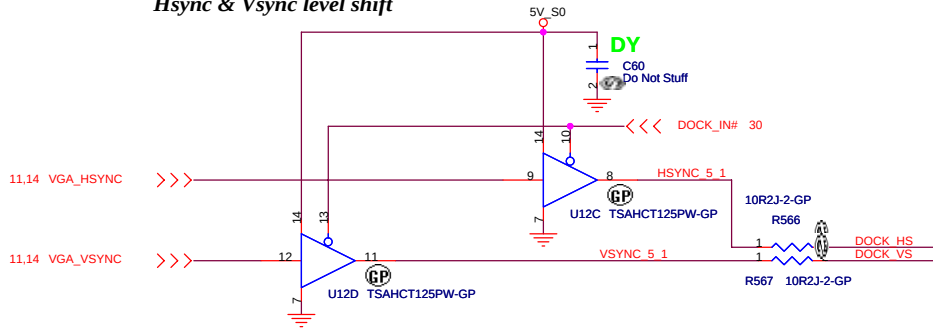
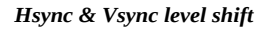
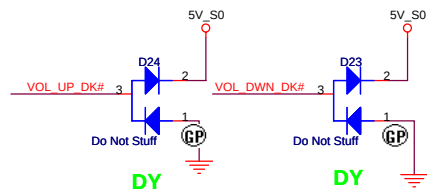


test

緯創資通 Wistron Corporation
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Taipei Hsien 221, Taiwan, R.O.C.

Title			
LCD/Inverter Connector			
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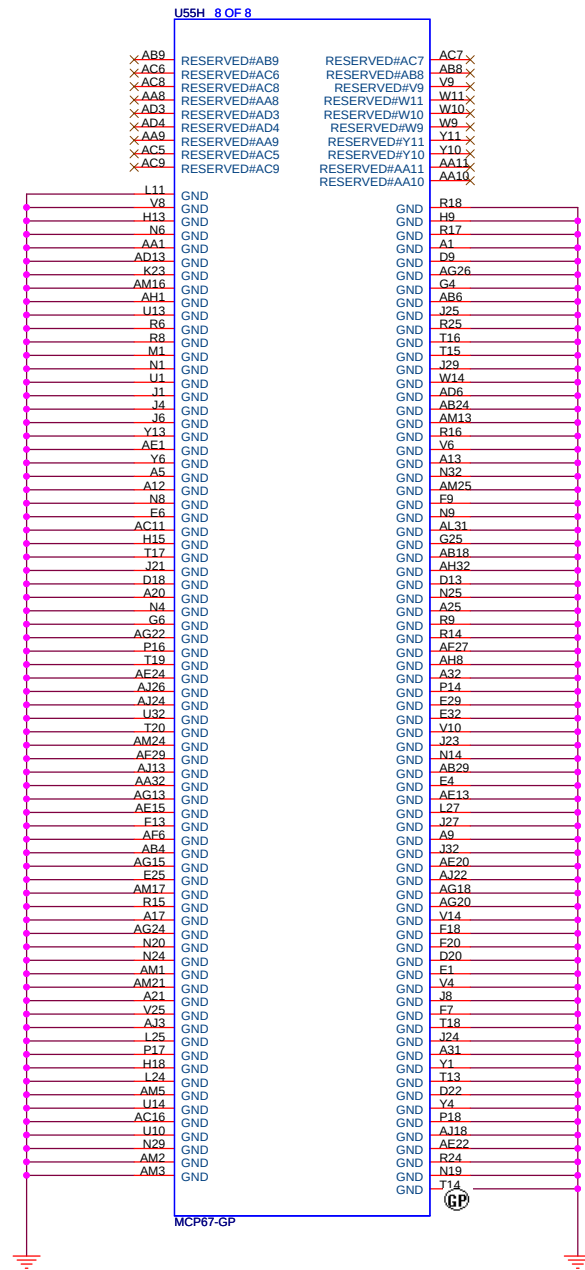
Docking Connector



S0 = 4V
S3 = 2.5V
S5 = 0V

緯創資通 **Wistron Corporation**
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Taipei Hsien 221, Taiwan, R.O.C.

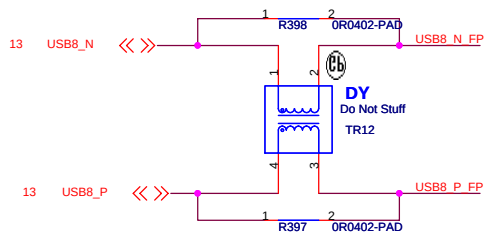
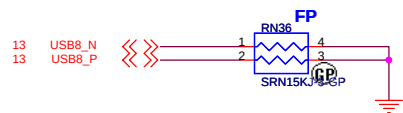
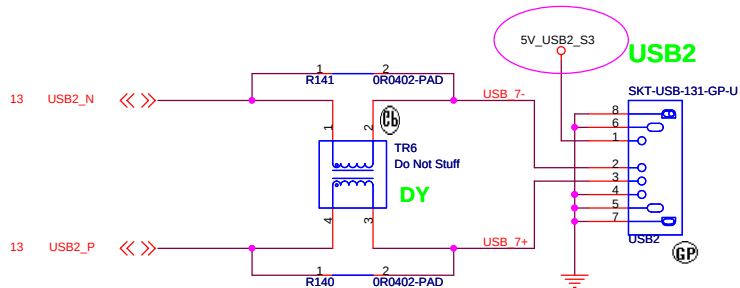
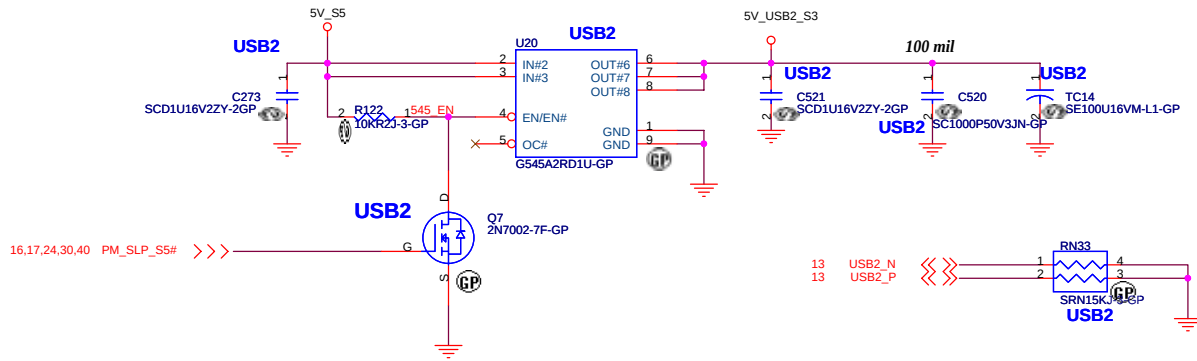
Title			
Board to board conn/ Docking			
Size A3	Document Number		Rev
	TIBET		SA
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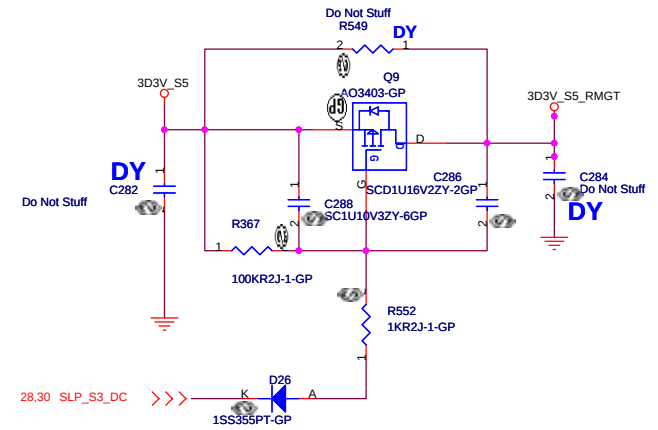
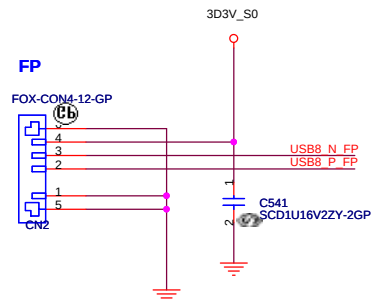
test

Title	
MCP67(8/8)_GND	
Size	Document Number
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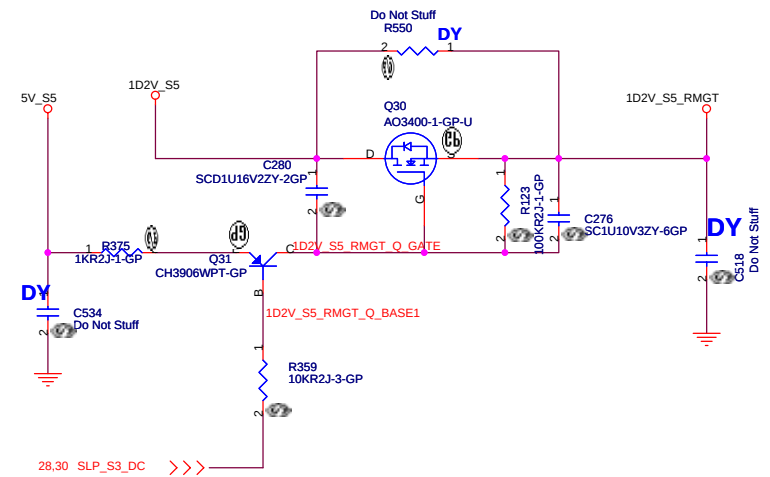
緯創資通 Wistron Corporation
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Finger Printer



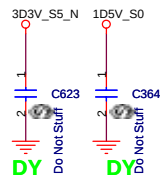
??? Current Rating



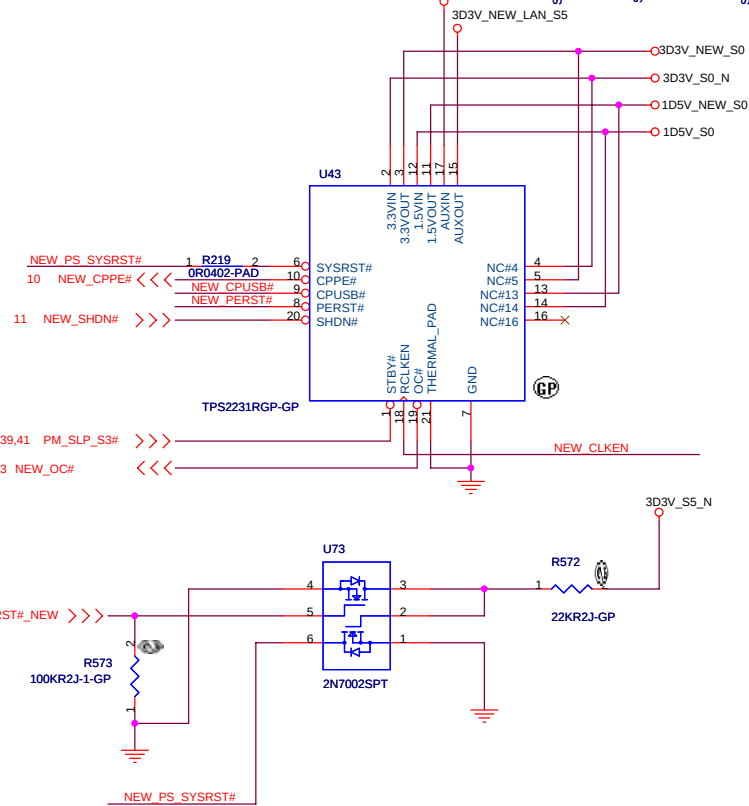
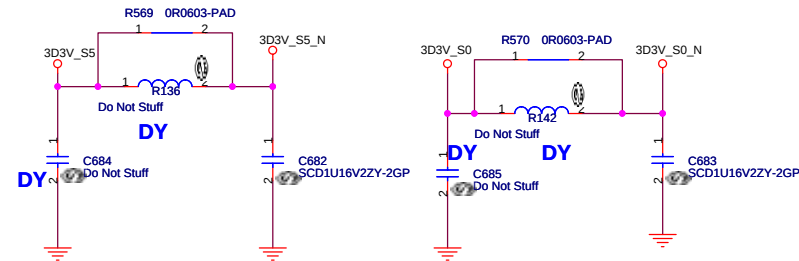
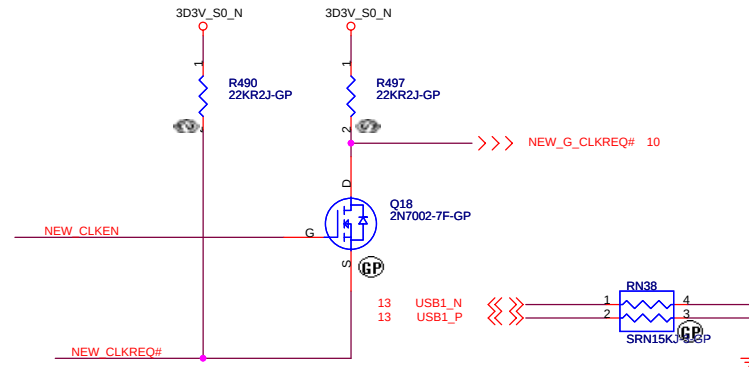
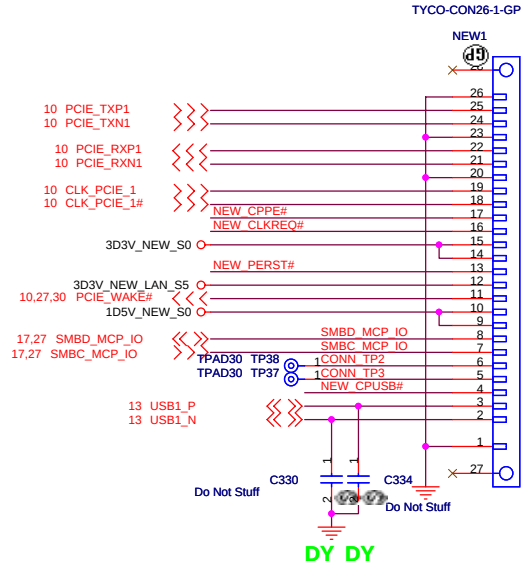
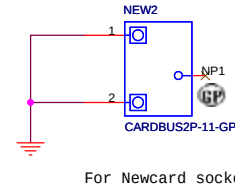
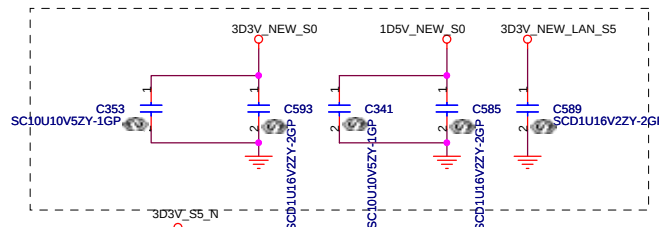
test

NEWCARD Connector

Place them Near to Chip

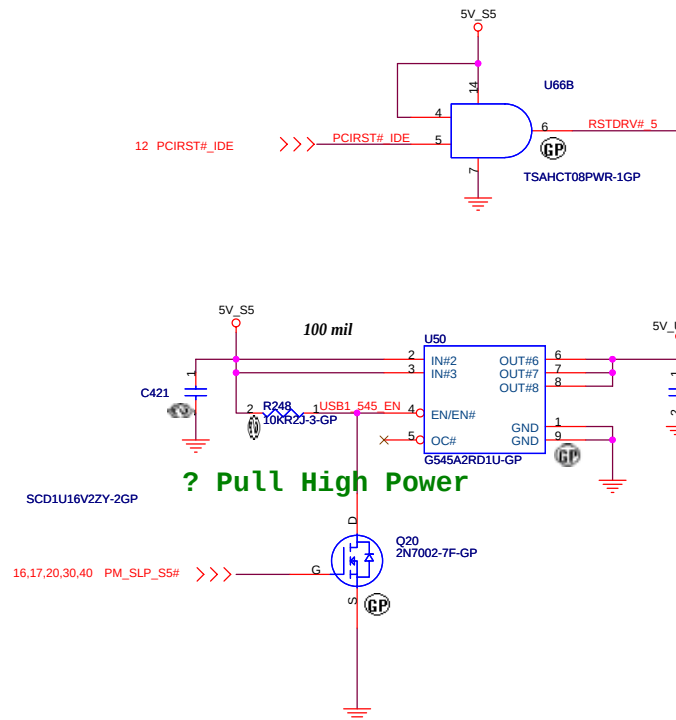
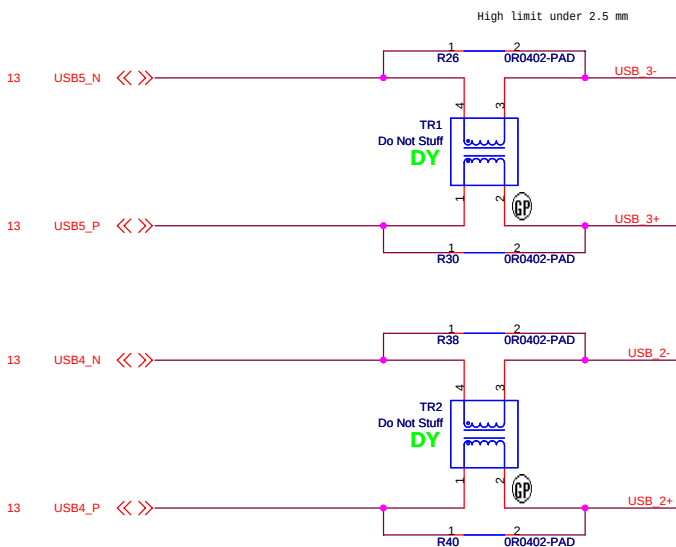
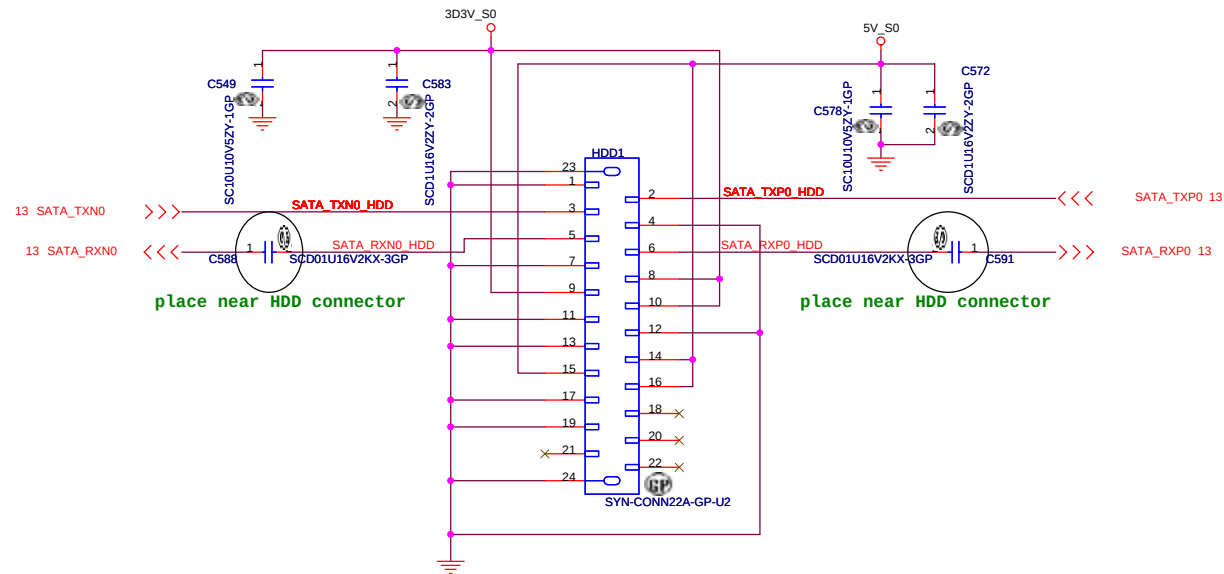


Place them Near to Connector

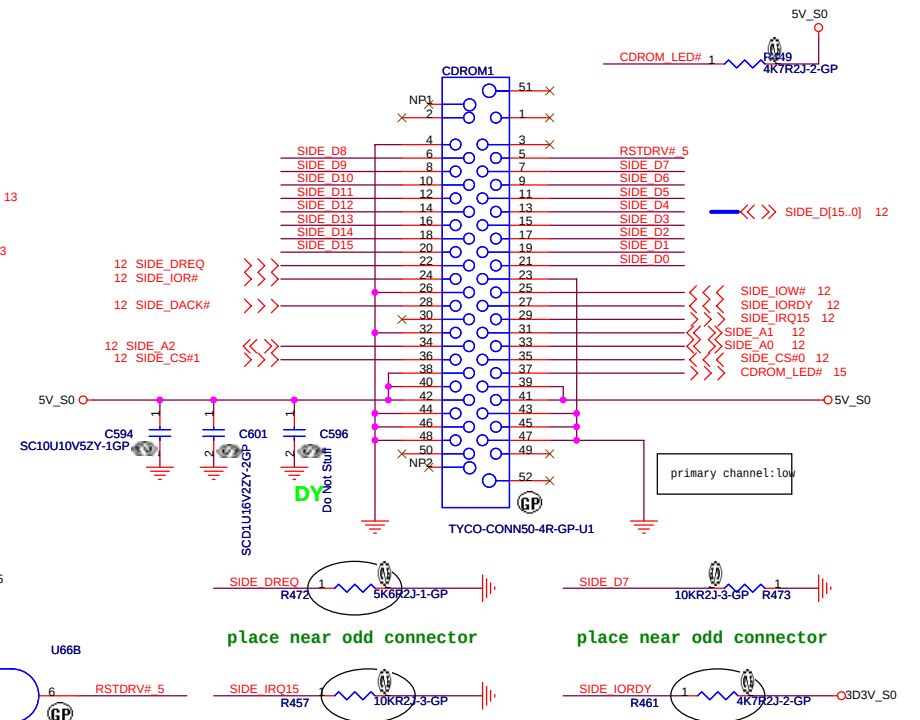


test

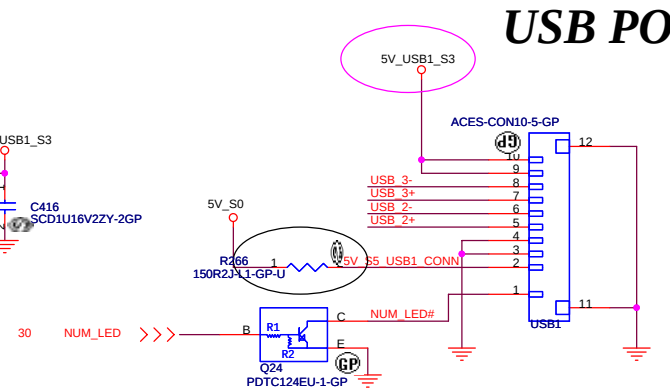
SATA HD Connector

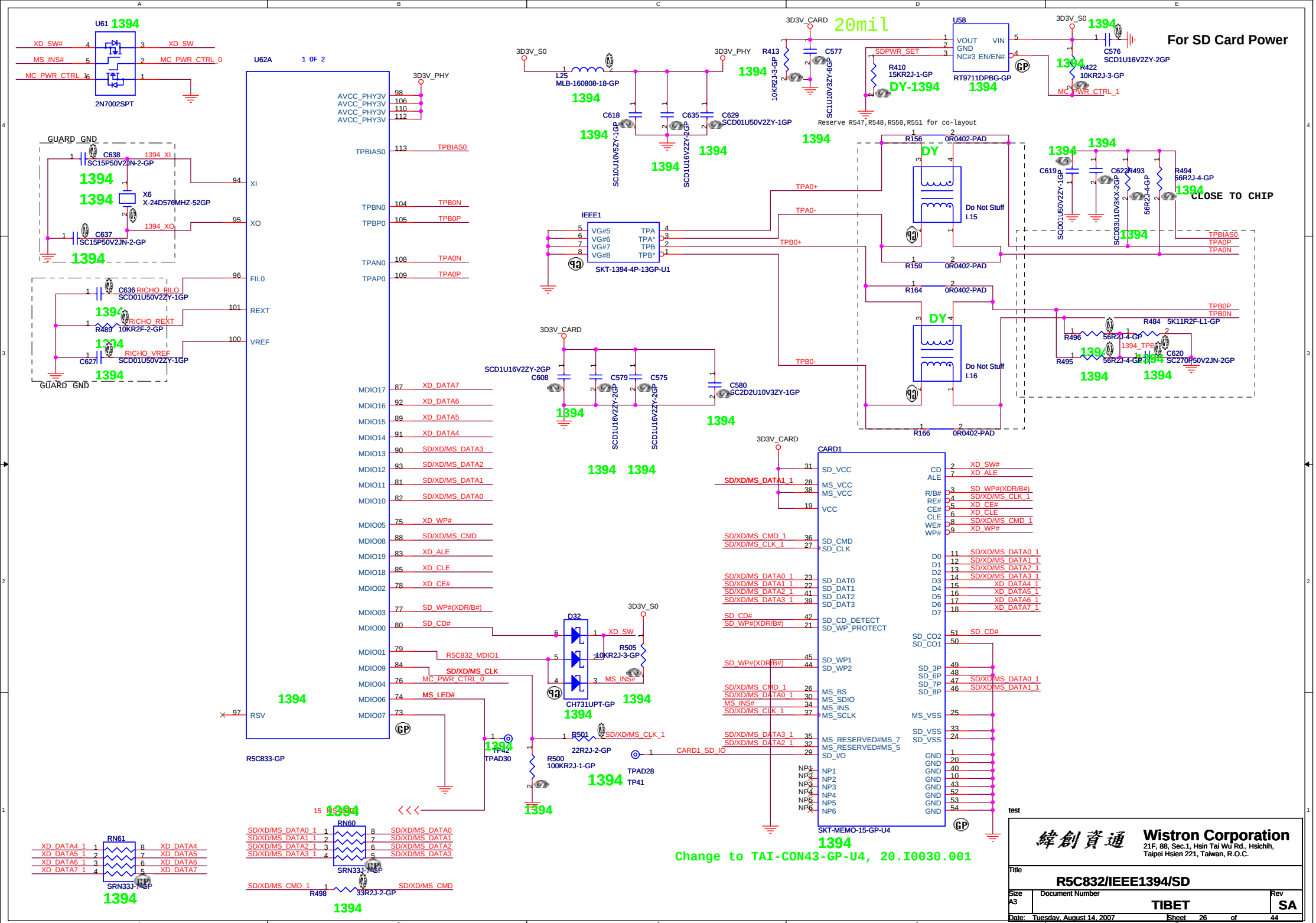


CD-ROM CONNECTOR



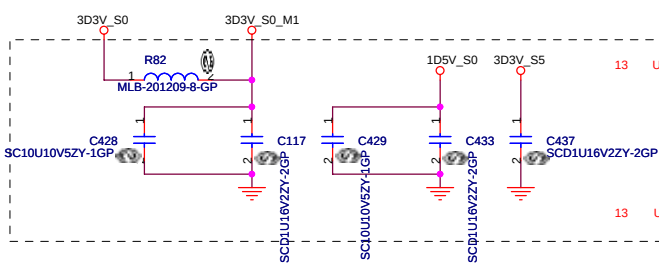
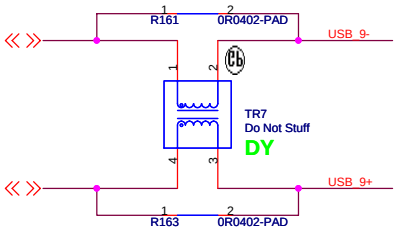
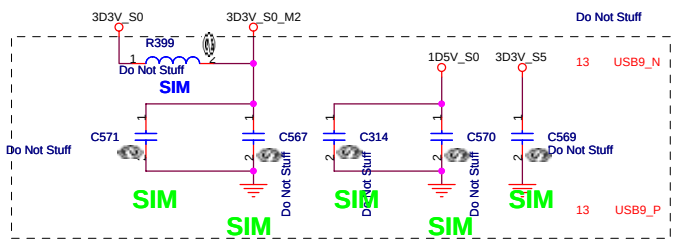
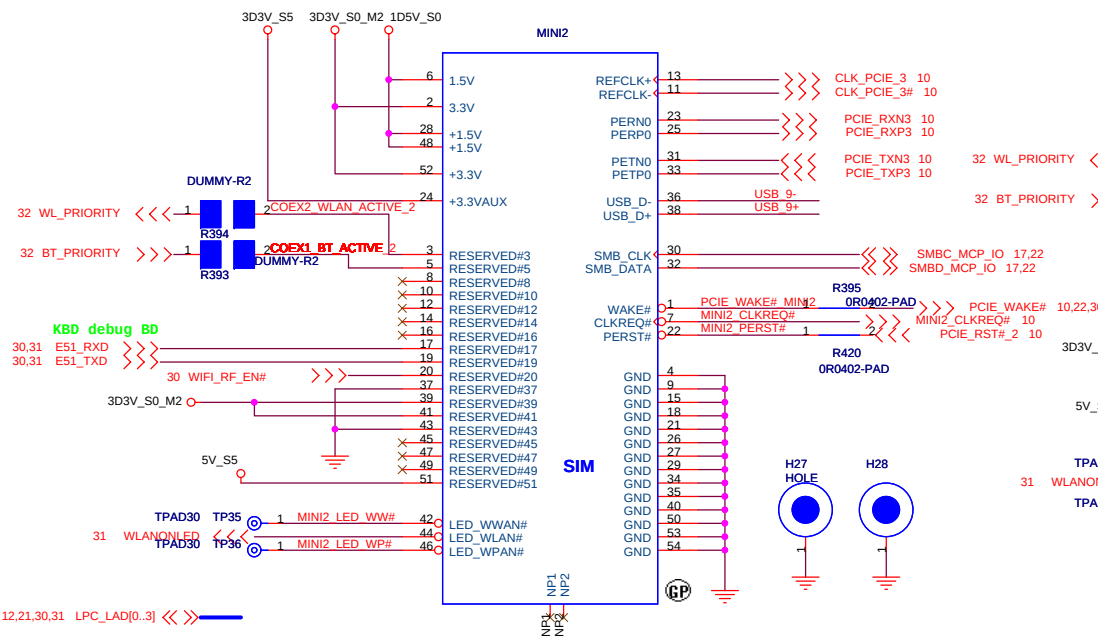
USB PORT





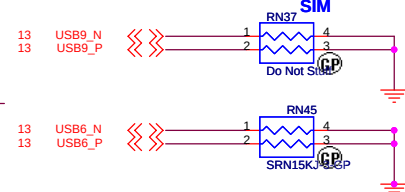
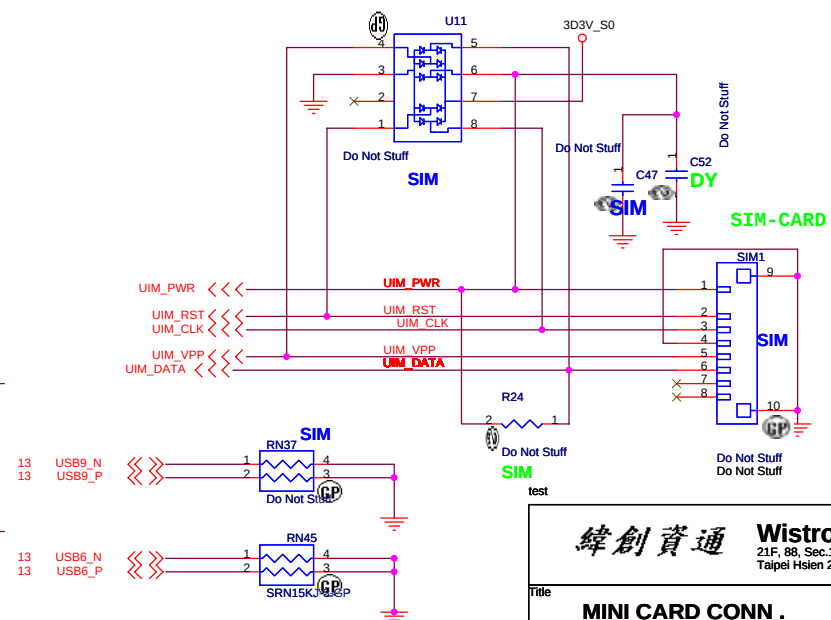
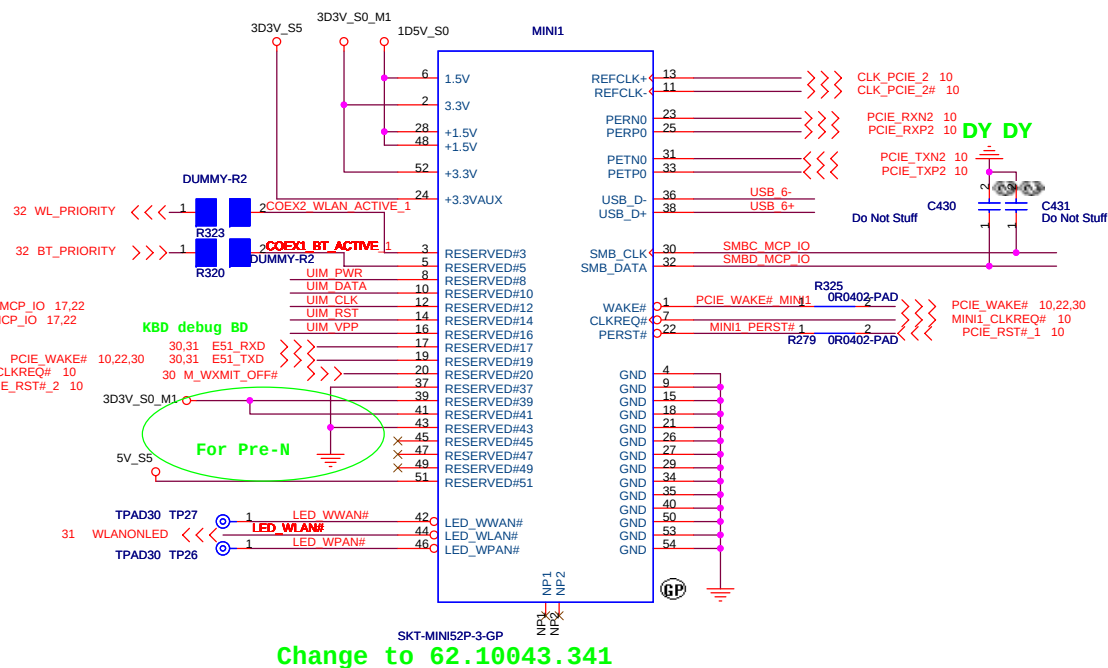
Mini Card Connector 2

Wireless Card



Mini Card Connector 1

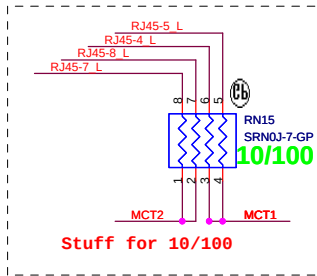
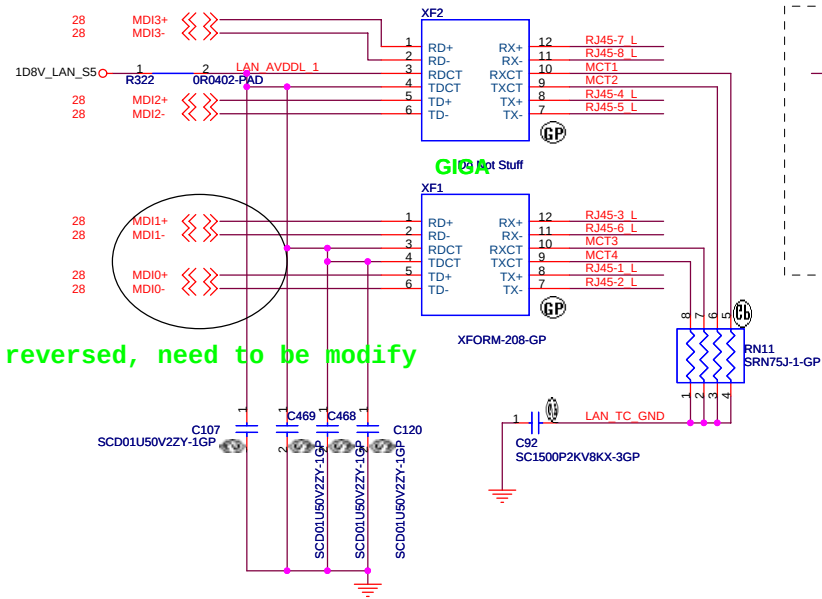
WWAN



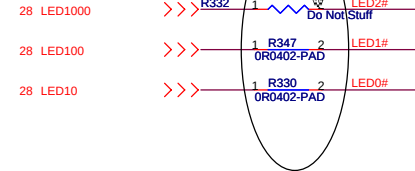
data transitions

The diagram shows data transitions for two components, RN35 and RN34. RN35 is connected to RGMII_RXD0_R (1), RGMII_RX_CTL_R (2), RGMII_RXD3_R (4), and RGMII_RXD2_R (3). RN34 is connected to RGMII_RXD3_R (1), RGMII_RXD2_R (2), RGMII_RX_CLK_R (3), and RGMII_RXD1_R (4). A clock signal SRN22-3 is shown. Red arrows indicate data transitions.

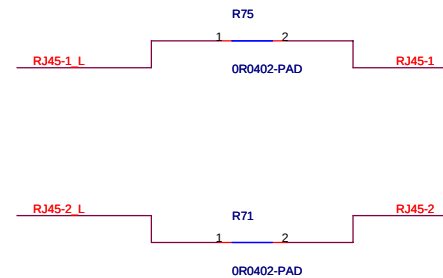
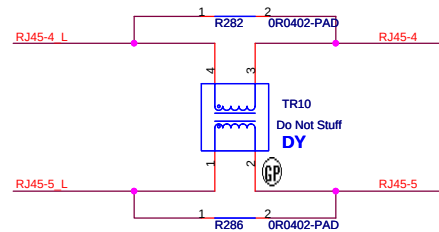
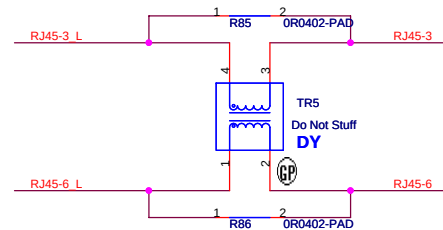
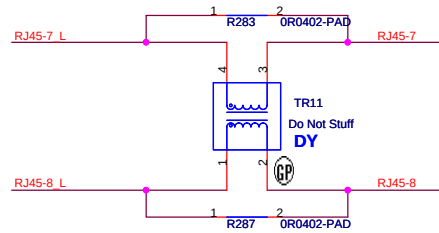
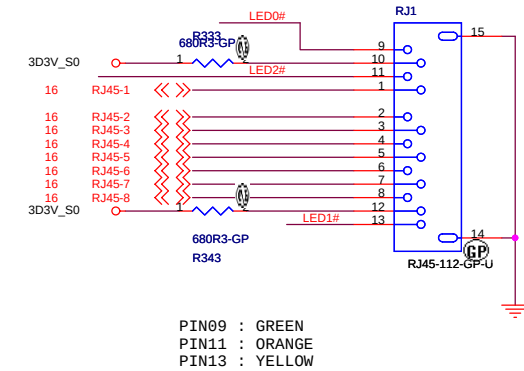




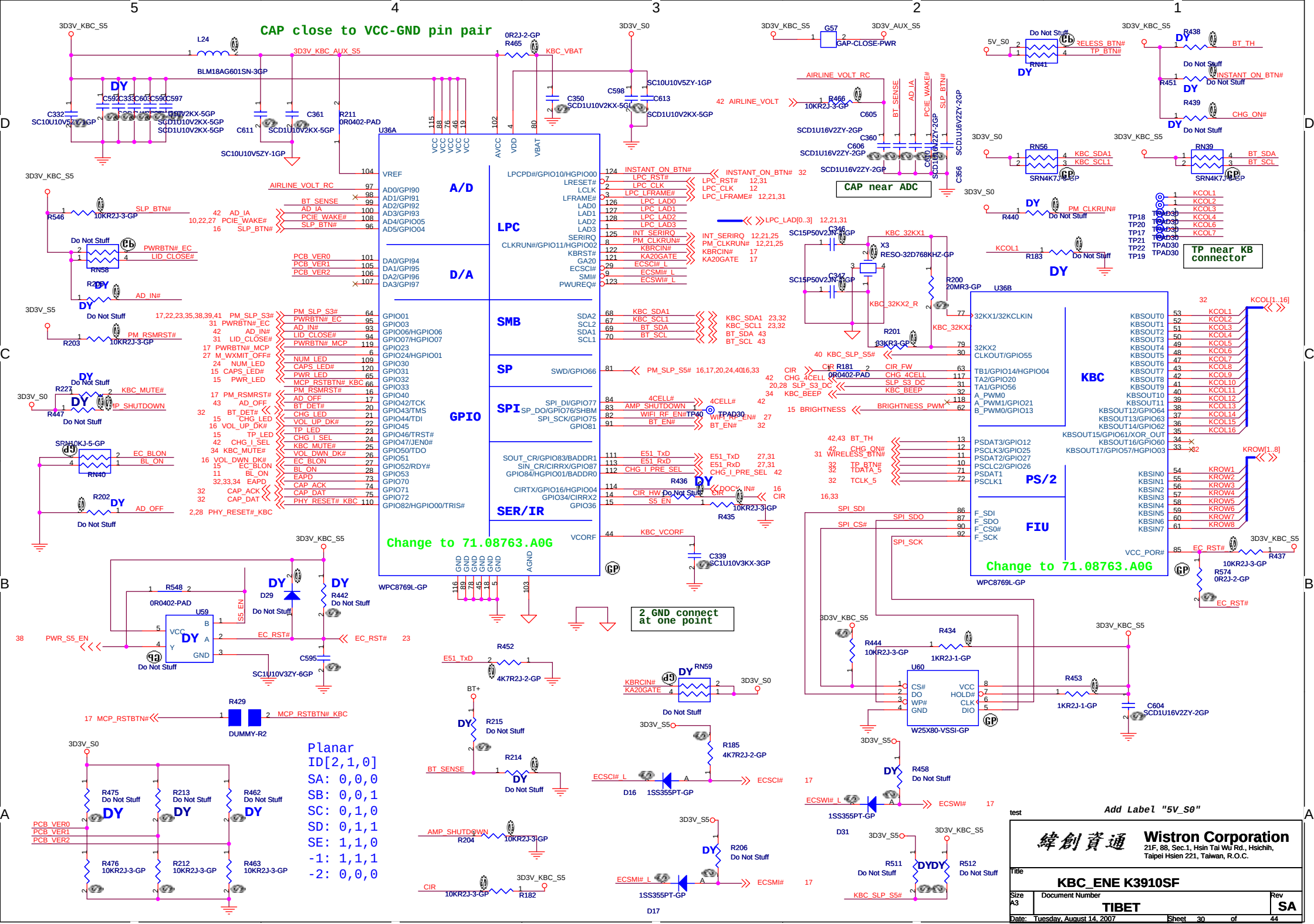
- 1.route on bottom as differential pairs.
- 2.Tx+/Tx- are pairs. Rx+/Rx- are pairs.
- 3.No vias, No 90 degree bends.
- 4.pairs must be equal lengths.
- 5.6mil trace width,12mil separation.
- 6.36mil between pairs and any other trace.
- 7.Must not cross ground moat,except RJ-45 moat.



GREEN: LINK 10/100 Mbps
YELLOW: TX/RX ACTIVITY
ORANGE: LINK 1000Mbps



test

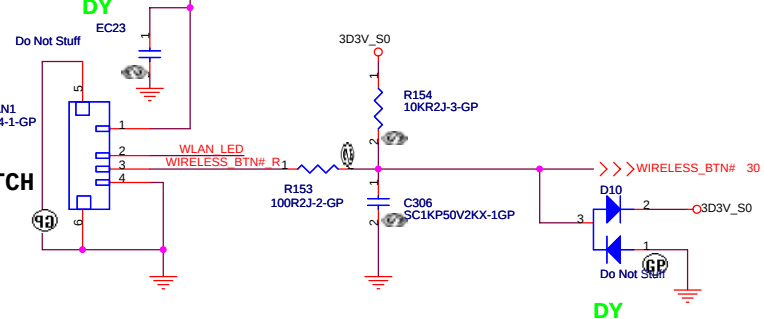
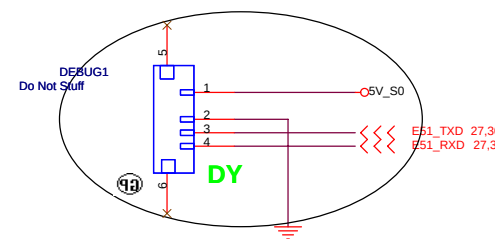
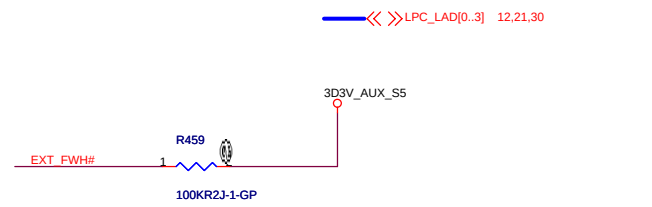
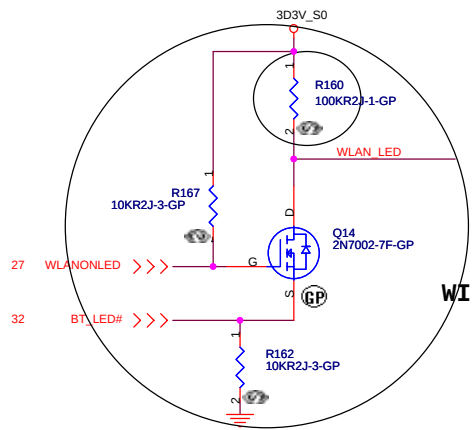
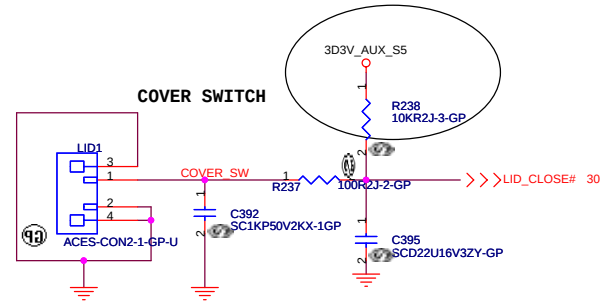
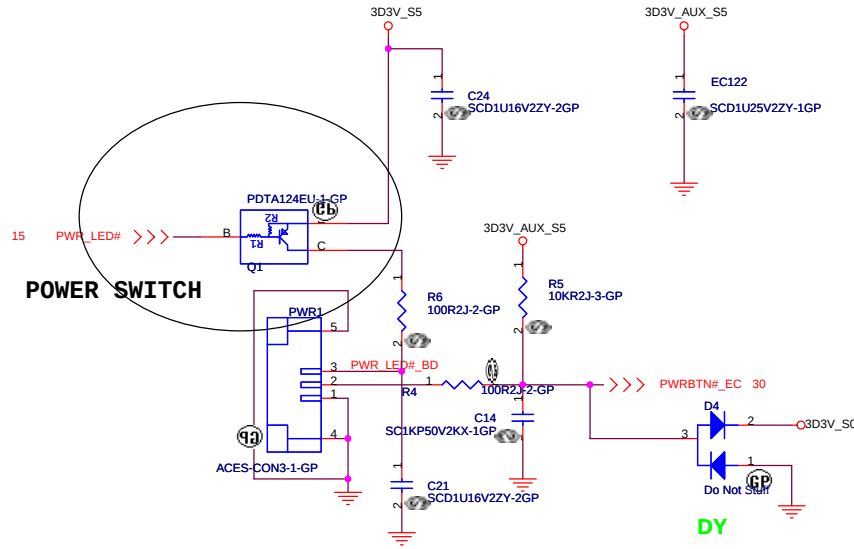


GOLDEN FINGER FOR DEBUG BOARD

TOP VIEW

A15 (B1)
A14 (B2)
:
:
A2 (B14)
A1 (B15)

(BOTTOM VIEW)



12,30 LPC_RST# >>> LPC_RST#

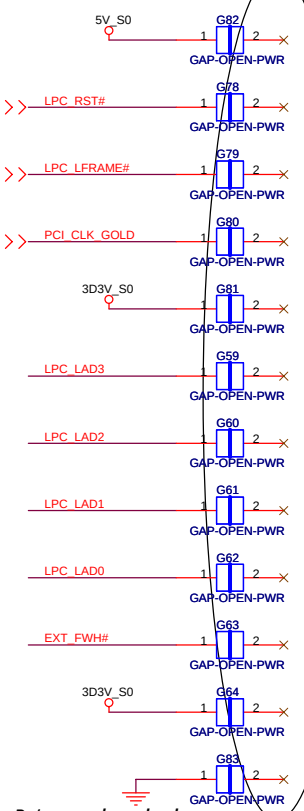
12,21,30 LPC_LFRAME# >>> LPC_LFRAME#

12 PCI_CLK_GOLD >>> PCI_CLK_GOLD

>>> LPC_RST#

>>> LPC_LFRAME#

>>> PCI_CLK_GOLD



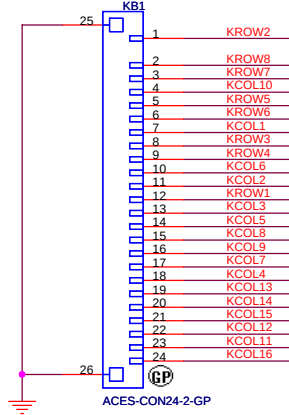
Put near board edge
test

Internal KeyBoard Connector

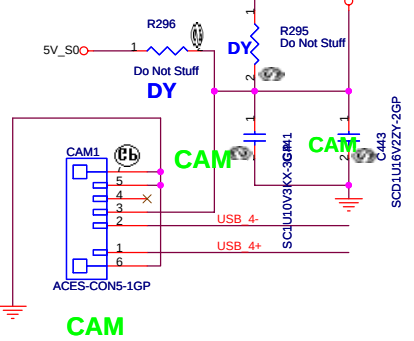
30 KROW[1..8] <<< <<<
30 KCOL[1..16] <<< <<<

Keyboard matrix (from vendor)

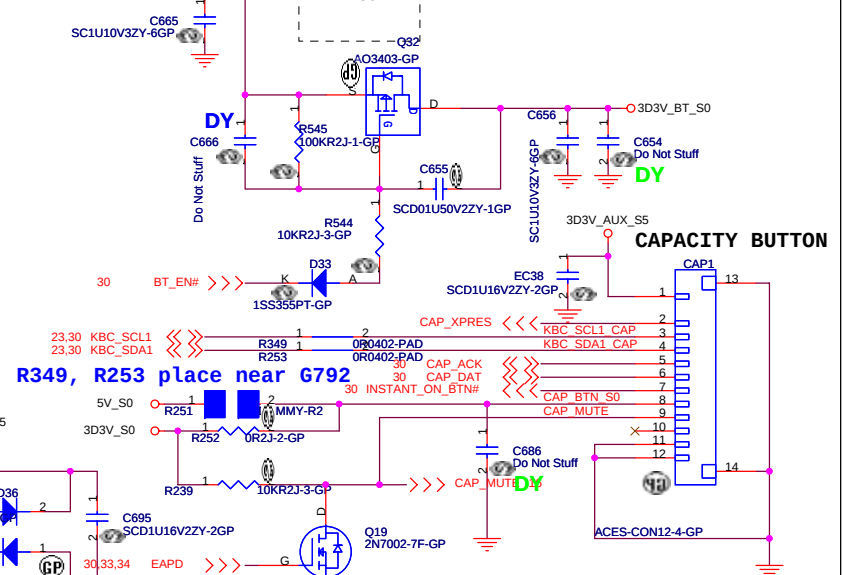
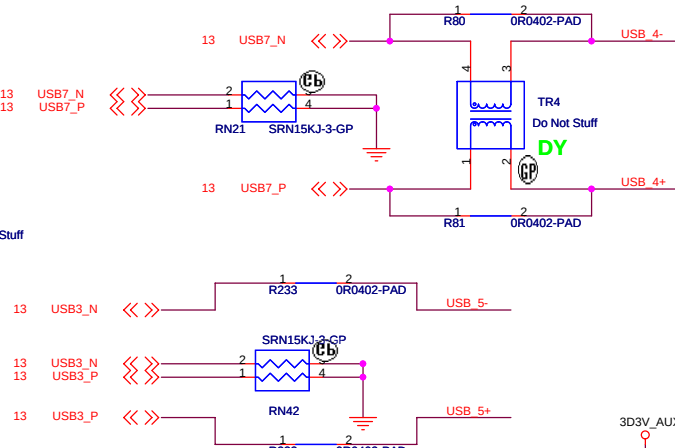
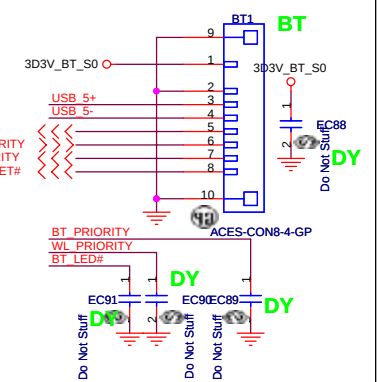
	US	Eur	Jap
MATRIXID1#	0	1	0
MATRIXID2#	0	0	1



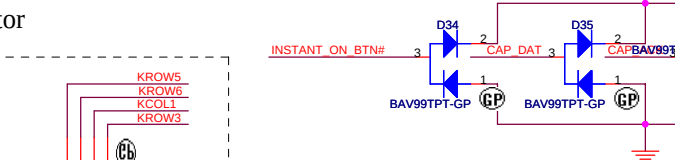
CAMERA



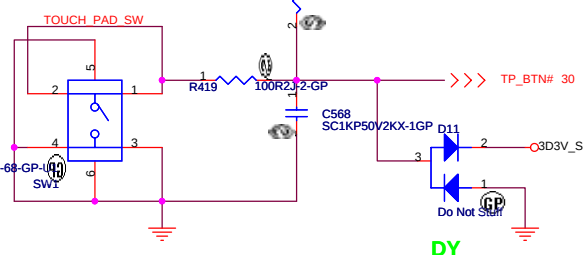
BT



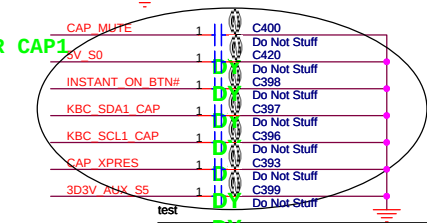
TouchPad Connector



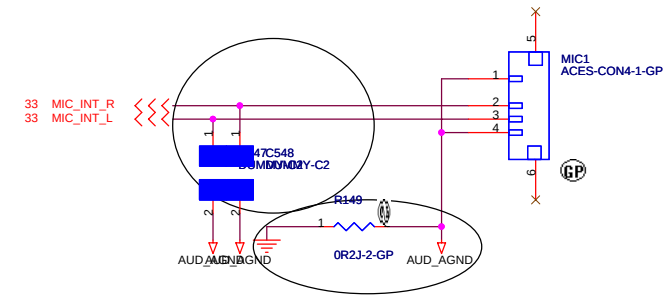
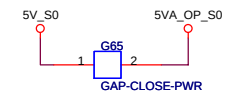
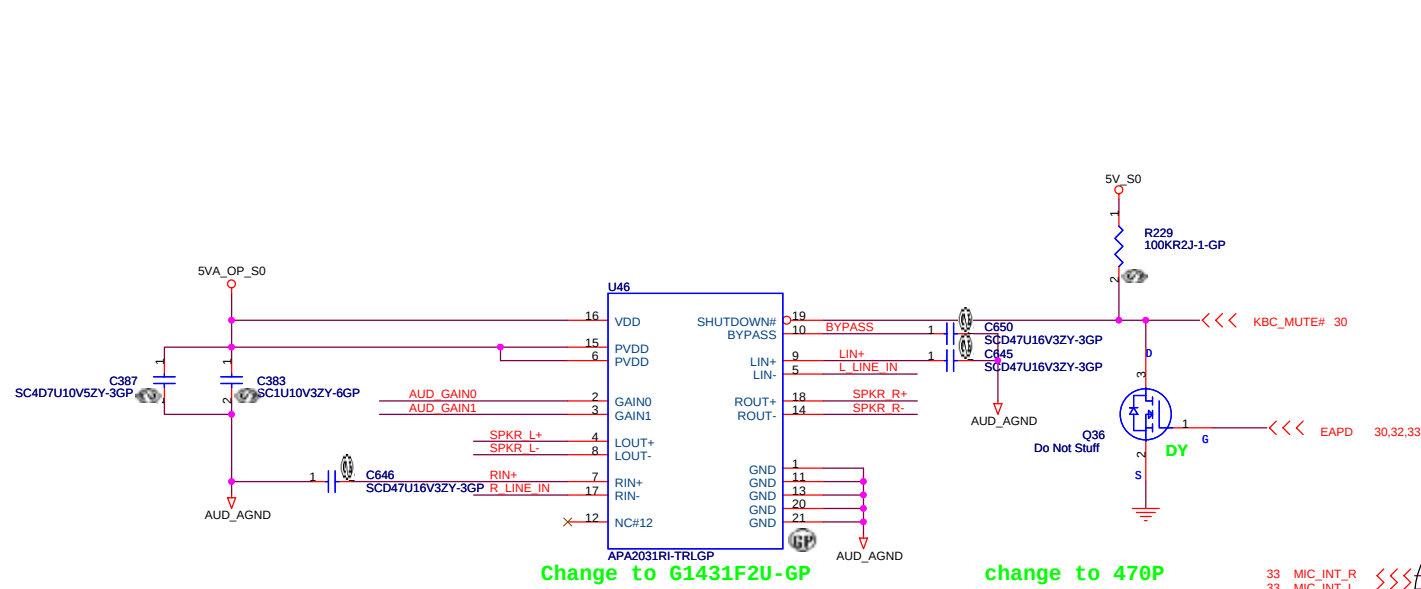
TOUCH-PAD SWITCH



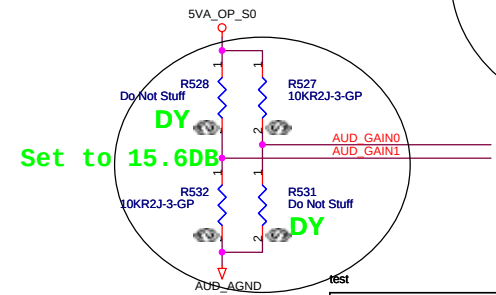
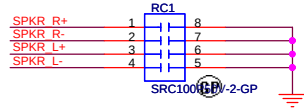
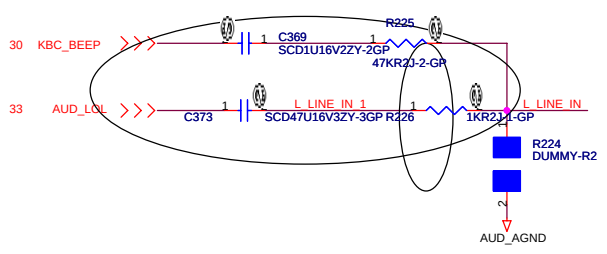
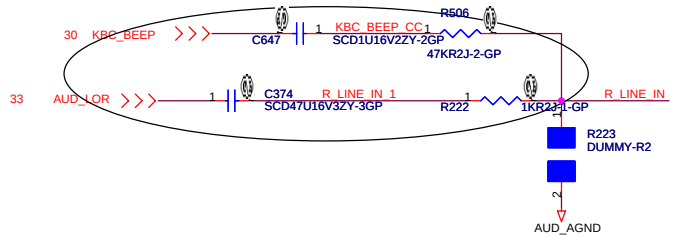
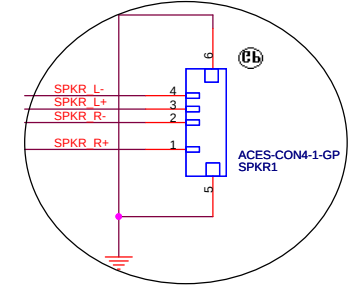
PLACE NEAR CAP1







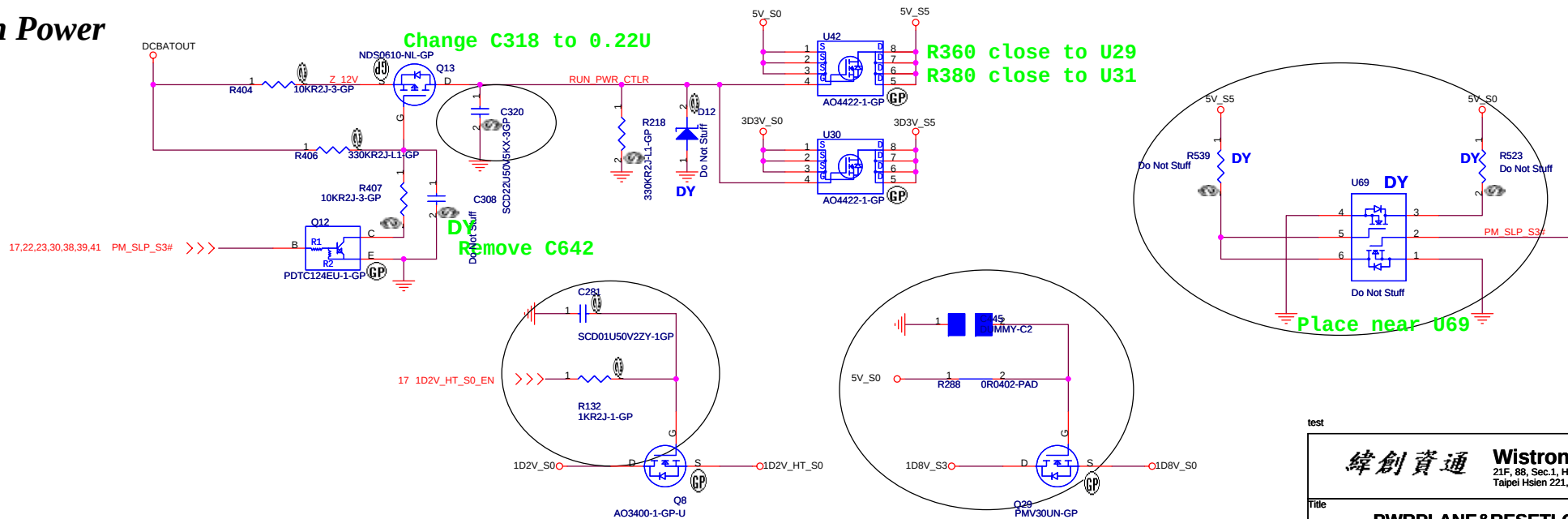
Speaker



Suspend Power

Remove Dummy PAD

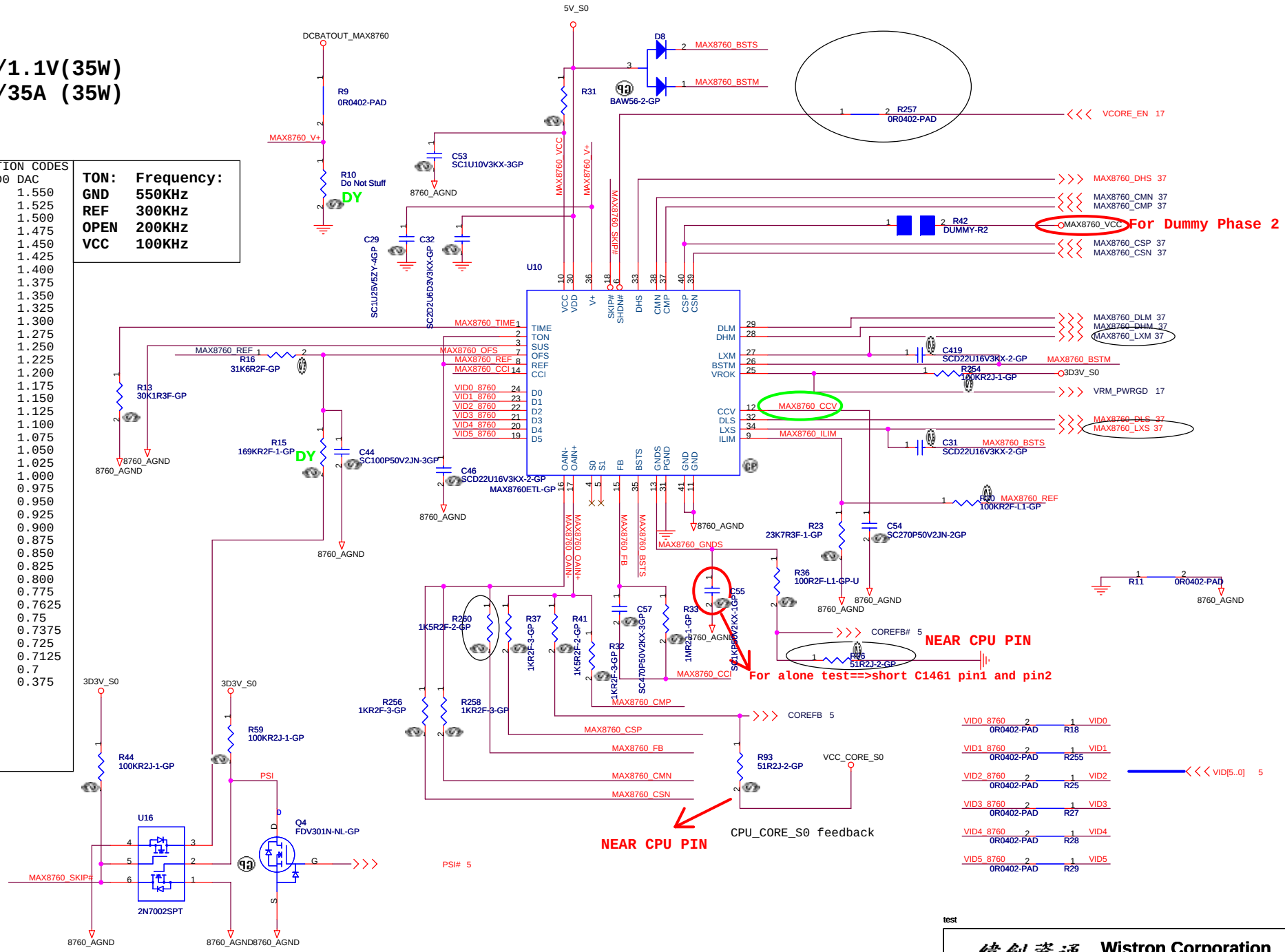
Run Power



CPU_VCORE
VID=1.15V(25W)/1.1V(35W)
Iomax=25A(25W)/35A (35W)
OCP=40A~45A

TABLE 1. VOLTAGE IDENTIFICATION CODES							
VID5	VID4	VID3	VID2	VID1	VID0	DAC	
0	0	0	0	0	0	1.550	
0	0	0	0	0	1	1.525	
0	0	0	0	1	0	1.500	
0	0	0	0	1	1	1.475	
0	0	0	1	0	0	1.450	
0	0	0	1	0	1	1.425	
0	0	0	1	1	0	1.400	
0	0	0	1	1	1	1.375	
0	0	1	0	0	0	1.350	
0	0	1	0	0	1	1.325	
0	0	1	0	1	0	1.300	
0	0	1	0	1	1	1.275	
0	0	1	1	0	0	1.250	
0	0	1	1	0	1	1.225	
0	0	1	1	1	0	1.200	
0	0	1	1	1	1	1.175	
0	1	0	0	0	0	1.150	
0	1	0	0	0	1	1.125	
0	1	0	0	1	0	1.100	
0	1	0	0	1	1	1.075	
0	1	0	1	0	0	1.050	
0	1	0	1	0	1	1.025	
0	1	0	1	1	0	1.000	
0	1	0	1	1	1	0.975	
0	1	1	0	0	0	0.950	
0	1	1	0	0	1	0.925	
0	1	1	0	1	0	0.900	
0	1	1	0	1	1	0.875	
0	1	1	1	0	0	0.850	
0	1	1	1	0	1	0.825	
0	1	1	1	1	0	0.800	
0	1	1	1	1	1	0.775	
1	0	0	0	0	0	0.7625	
1	0	0	0	0	1	0.75	
1	0	0	0	1	0	0.7375	
1	0	0	0	1	1	0.725	
1	0	0	1	0	0	0.7125	
1	0	0	1	0	1	0.7	
1	1	1	1	1	1	0.375	

TON: Frequency:
GND 550KHz
REF 300KHz
OPEN 200KHz
VCC 100KHz



VID0 8760	2	1	VID0
OR0402-PAD			R18
VID1 8760	2	1	VID1
OR0402-PAD			R255
VID2 8760	2	1	VID2
OR0402-PAD			R25
VID3 8760	2	1	VID3
OR0402-PAD			R27
VID4 8760	2	1	VID4
OR0402-PAD			R28
VID5 8760	2	1	VID5
OR0402-PAD			R29

test

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

Title CPU CORE MAX8760(1/2)

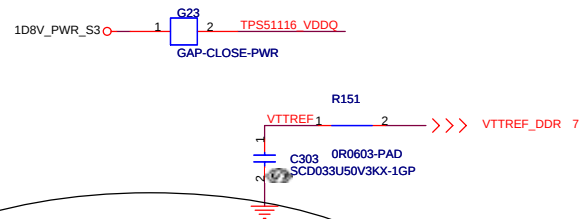
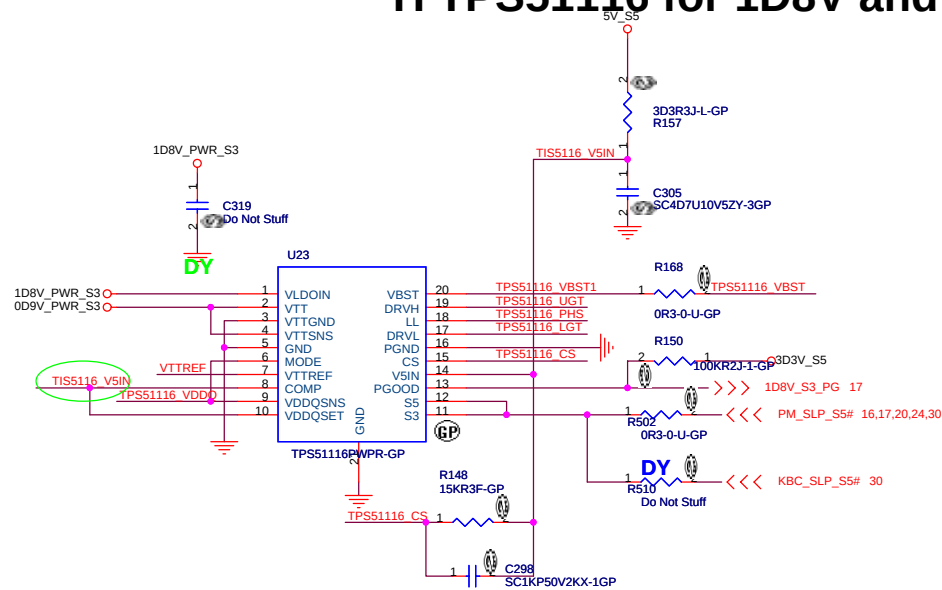
Size A3 Document Number TIBET Rev SA

Date: Tuesday, August 14, 2007 Sheet 36 of 44

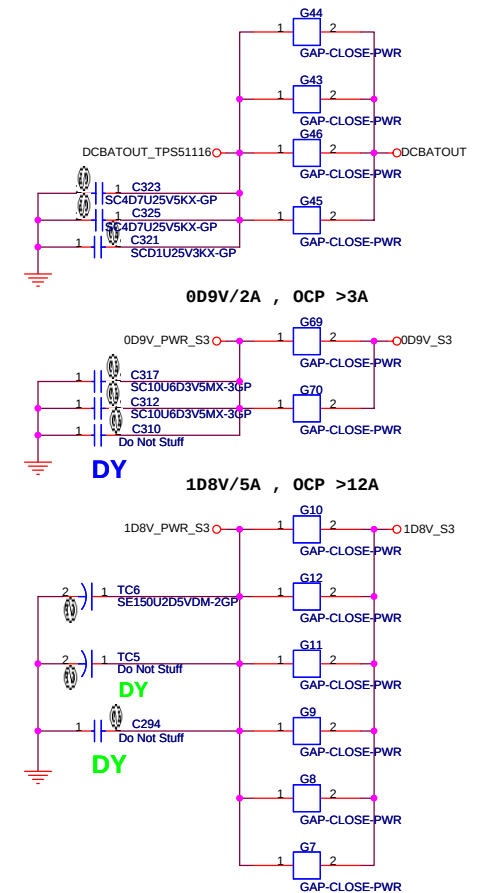
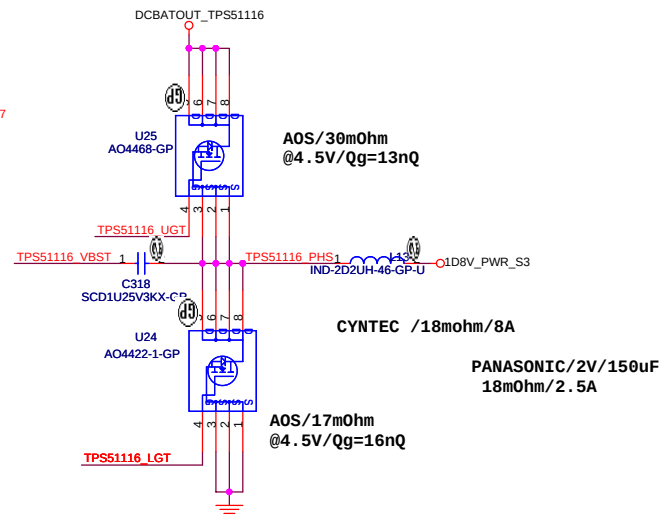




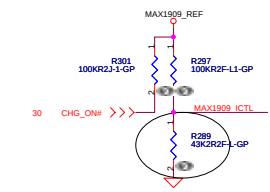
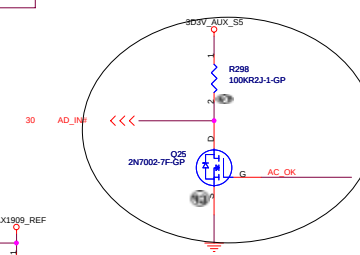
TI TPS51116 for 1D8V and 0D9V



State	S3	S5	VDDR	VTTREF	VTT
S0	Hi	Hi	On	On	On
S3	Lo	Hi	On	On	Off(Hi-Z)
S4/S5	Lo	Lo	Off	Off	Off

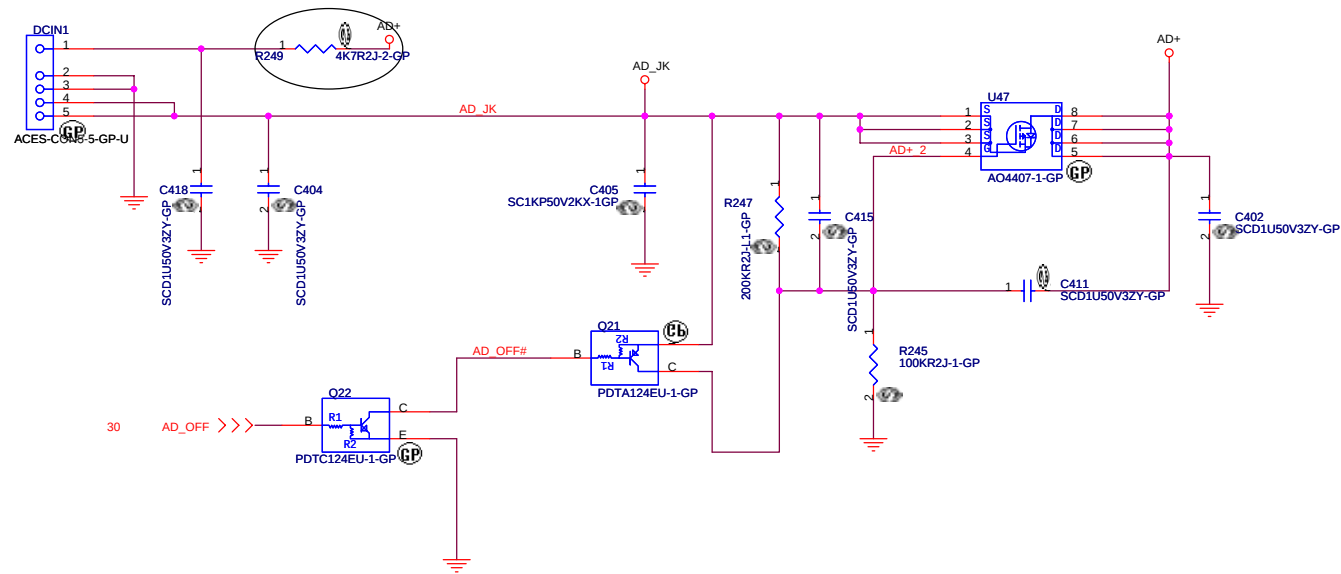


test

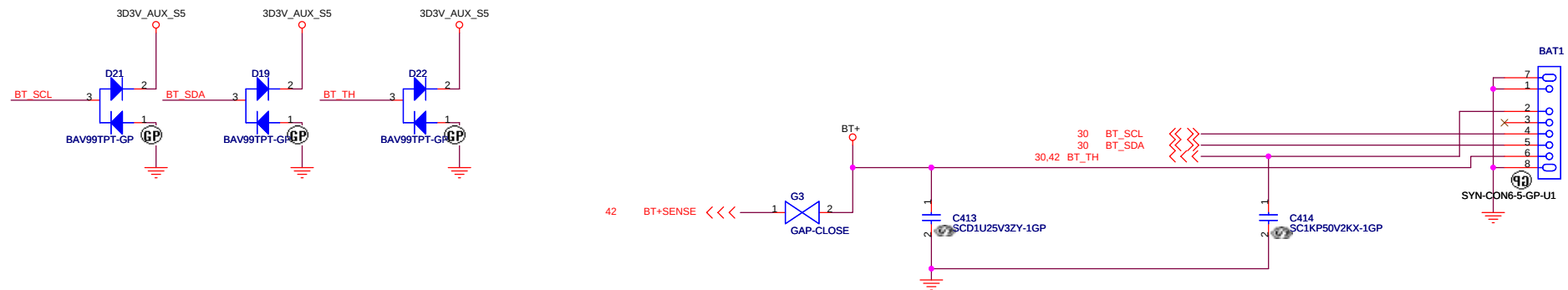


Pre-Charge :
MAX8725 : CHG_I_PRE_SEL = H,
Pre-Charge current = 300mA

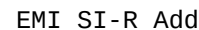
Adaptor in to generate DCBATOUT



BATTERY CONNECTOR



test

FF

test			
		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
MISC			
Size A3	Document Number	TIBET	
Date:	Wednesday, August 15, 2007	Sheet	44 of 44
		SA	