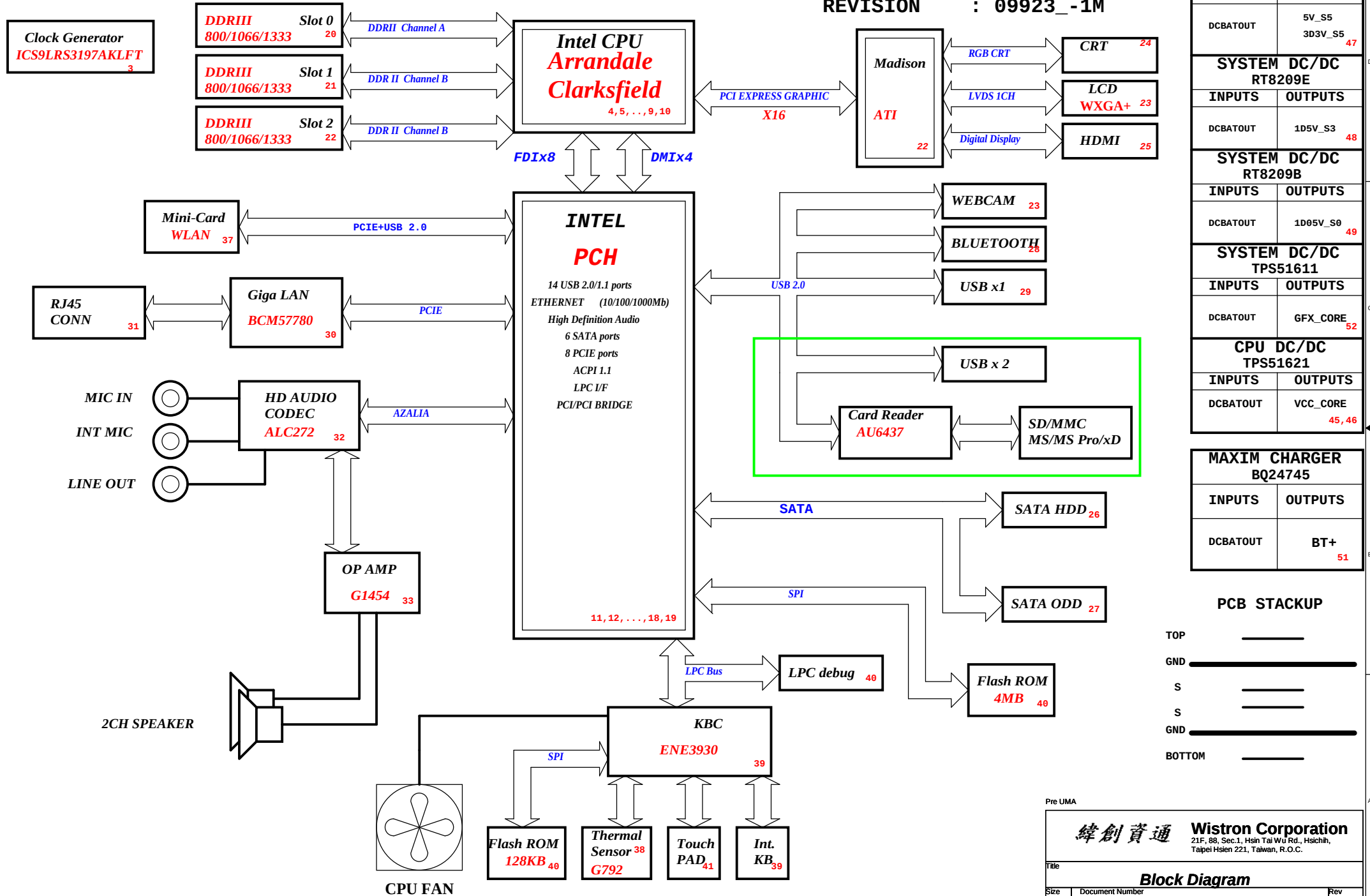


JE70-CP Block Diagram

Project code: 91.4HN01.001
PCB P/N : 48.4HN01.0SD
REVISION : 09923_-1M



Name	Schematics Notes
SPKR	Reboot option at power-up Default Mode: Internal weak Pull-down. No Reboot Mode with TCO Disabled: Connect to Vcc3_3 with 8.2-kΩ - 10-kΩ weak pull-up resistor.
INIT3_3V#	Weak internal pull-down. Do not pull high.
GNT3#/GPIO55	Default Mode: Internal pull-up. Low (0) = Top Block Swap Mode (Connect to ground with 4.7-kΩ weak pull-down resistor).
INTVRMEN	High (1) = Integrated VRM is enabled Low (0) = Integrated VRM is disabled
GNT0#, GNT1#	Default (SPI): Left both GNT0# and GNT1# floating. No pull up required. Boot from PCI: Connect GNT1# to ground with 1-kΩ pull-down resistor. Leave GNT0# Floating. Boot from LPC: Connect both GNT0# and GNT1# to ground with 1-kΩ pull-down resistor.
GNT2#/GPIO53	Default - Internal pull-up. Low (0)= Configures DMI for ESI compatible operation (for servers only. Not for mobile/desktops).
GPI033	Default: Do not pull low. Disable ME in Manufacturing Mode: Connect to ground with 1-kΩ pull-down resistor.
SPI_MOSI	Enable iTPM: Connect to Vcc3_3 with 8.2-kΩ weak pull-up resistor Disable iTPM: Left floating, no pull-down required.
NV_ALE	Enable Danbury: Connect to Vcc3_3 with 8.2-kΩ weak pull-up resistor. Disable Danbury: Connect to ground with 4.7-kΩ weak pull-down resistor.
NC_CLE	Weak internal pull-up. Do not pull low.
HAD_DOCK_EN#/GPIO[33]	Low (0): Flash Descriptor Security will be overridden. High (1) : Flash Descriptor Security will be in effect.
HDA_SDO	Weak internal pull-down. Do not pull high.
HDA_SYNC	Weak internal pull-down. Do not pull high.
GPI015	Weak internal pull-down. Do not pull high.
GPI08	Weak internal pull-up. Do not pull low.
GPI027	Default = Do not connect (floating) High(1) = Enables the internal VccVRM to have a clean supply for analog rails. No need to use on-board filter circuit. Low (0) = Disables the VccVRM. Need to use on-board filter circuits for analog rails.

PCIE Routing

LANE1	LAN
LANE2	MiniCard1
LANE3	MiniCard2

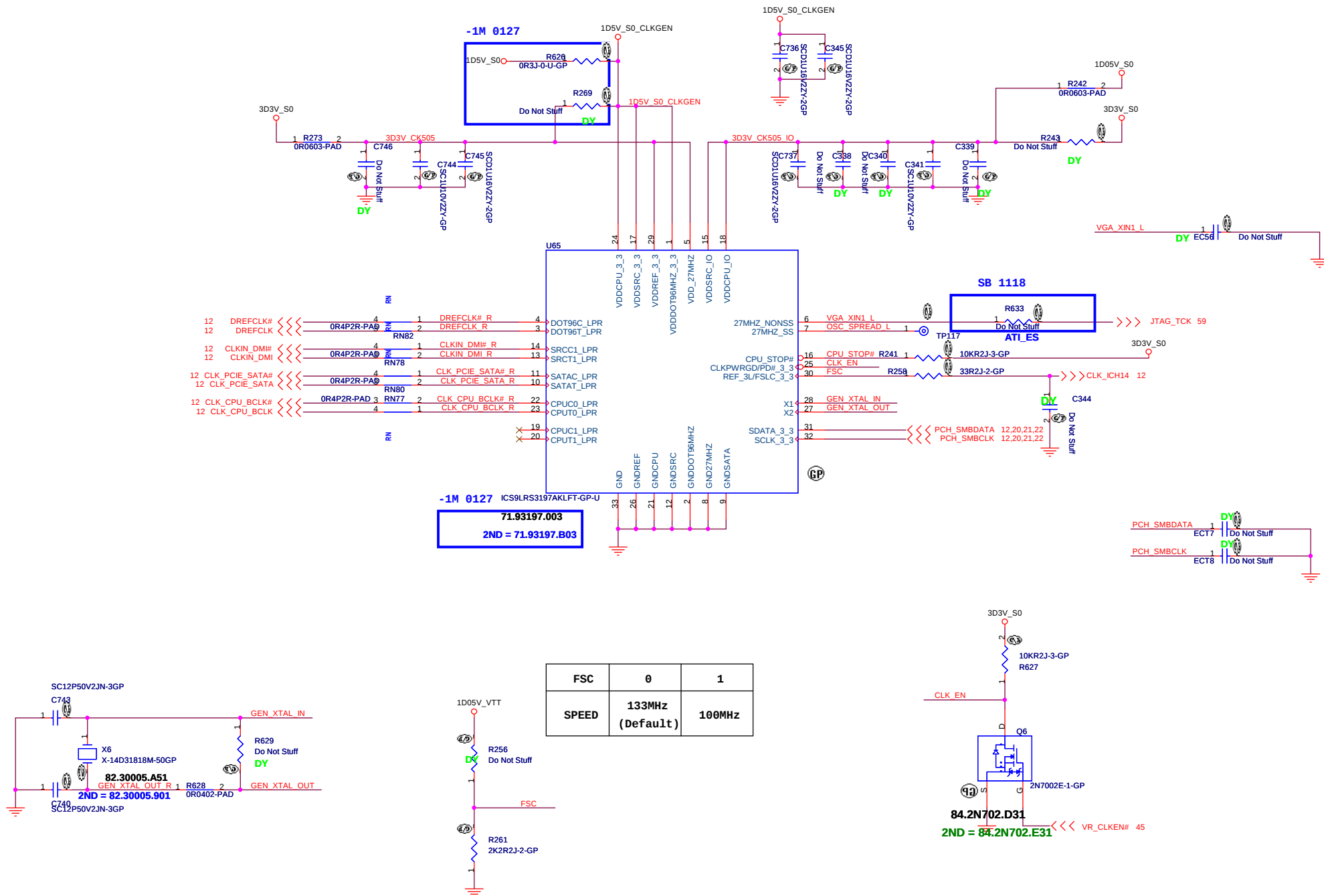
USB Table

Pair	Device
0	USB3
1	USB2
2	USB4
3	MINICARD1
4	WECAM
5	Touch Panel
6	NC
7	NC
8	NC
9	USB1(HS)
10	Finger Print
11	Blue Tooth
12	MINIC2
13	Cardreader

Pin Name	Strap Description	Configuration (Default value for each bit is 1 unless specified otherwise)	Default Value
CFG[4]	Embedded DisplayPort Presence	1: Disabled - No Physical Display Port attached to Embedded DisplayPort. 0: Enabled - An external Display Port device is connected to the Embedded Display Port.	1
CFG[3]	PCI-Express Static Lane Reversal	1: Normal Operation. 0: Lane Numbers Reversed 15 -> 0, 14 -> 1, ...	1
CFG[0]	PCI-Express Configuration Select	1: Single PCI-Express Graphics 0: Bifurcation enabled	1
CFG[7]	Reserved - Temporarily used for early Clarksfield samples.	Clarksfield (only for early samples pre-ES1) - Connect to GND with 3.01K 0hm/5% resistor Note: Only temporary for early CFD samples (rPGA/BGA) [For details please refer to the WW33 MoW and sighting report]. For a common motherboard design (for AUB and CFD), the pull-down resistor should be used. Does not impact AUB functionality.	0

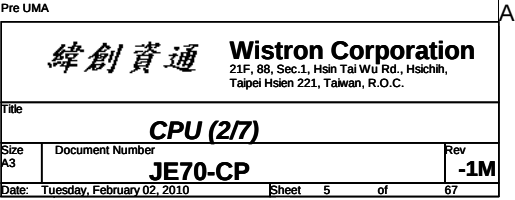
Pre UMA

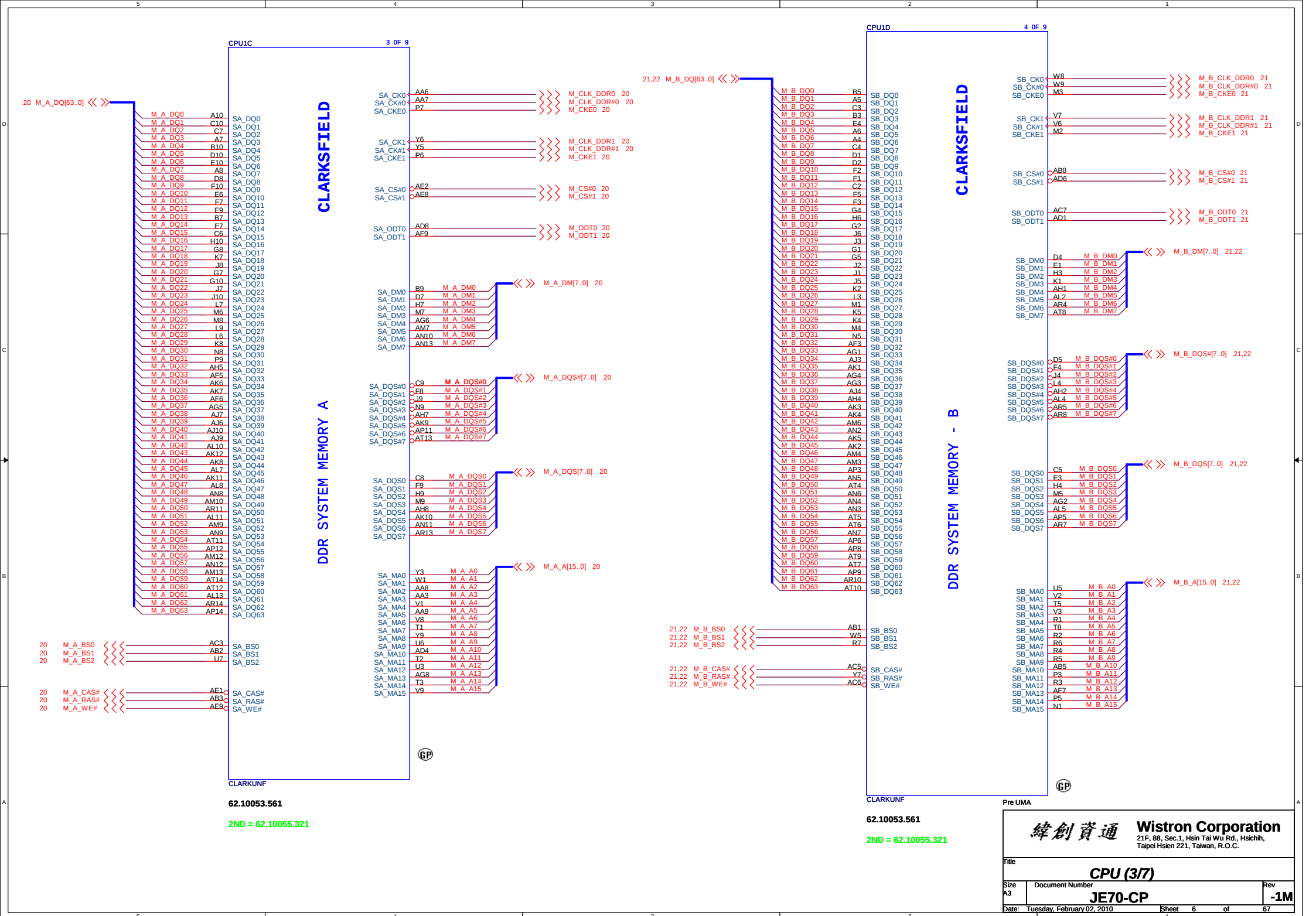
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title Table of Content		
Size A3	Document Number JE70-CP	Rev -1M
Date: Tuesday, February 02, 2010Sheet 2 of 67		



FSC	0	1
SPEED	133MHz (Default)	100MHz

Pre UMA





62.10053.561

2ND = 62.10055.321

62.10053.561

2ND = 62.10055.321

Pre UMA

緯創資通

Wistron Corporation

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

Title

CPU (3/7)

Size

A3

Document Number

JE70-CP

Rev

-1M

Date

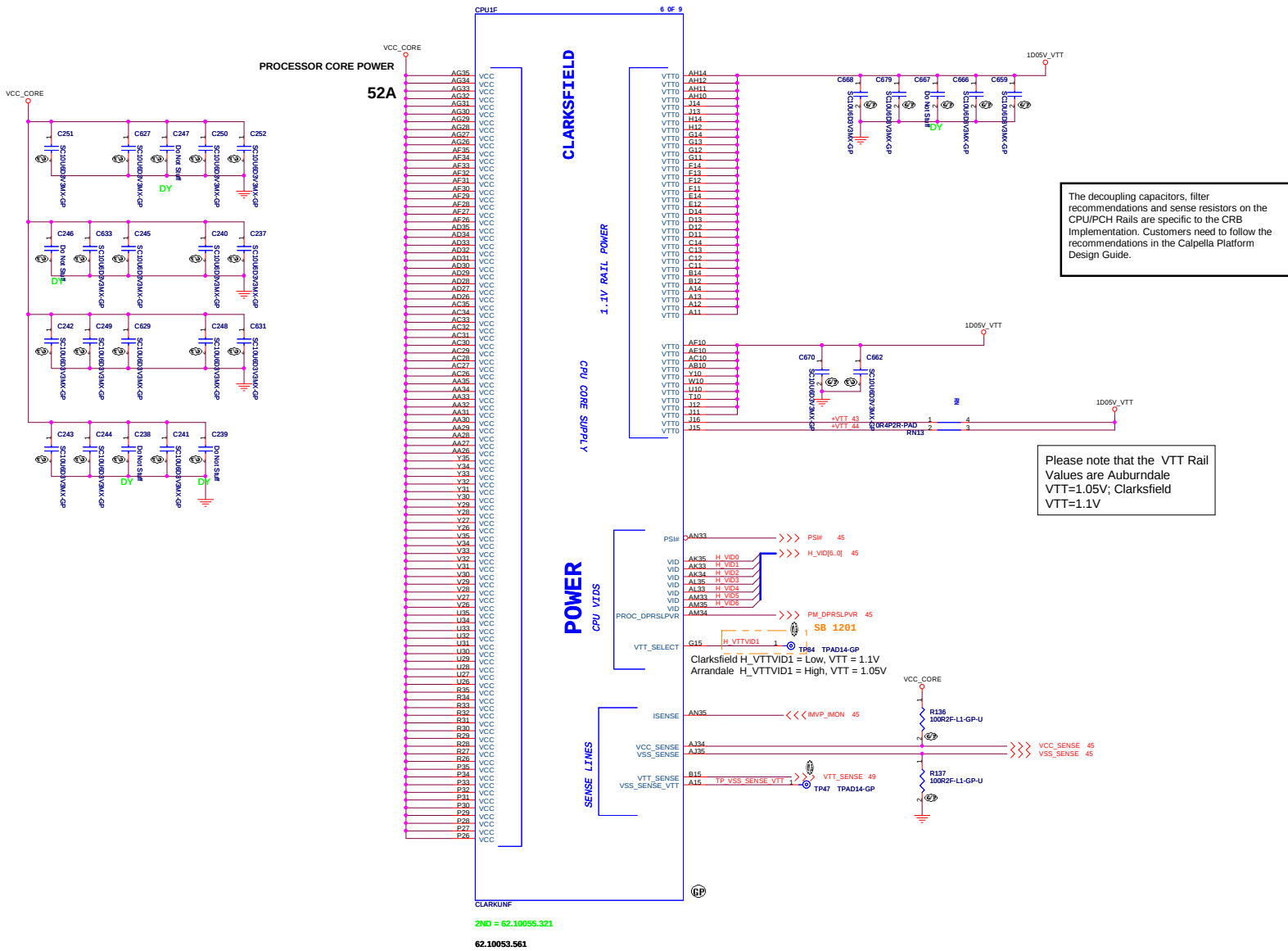
Tuesday, February 02, 2010

Sheet

6

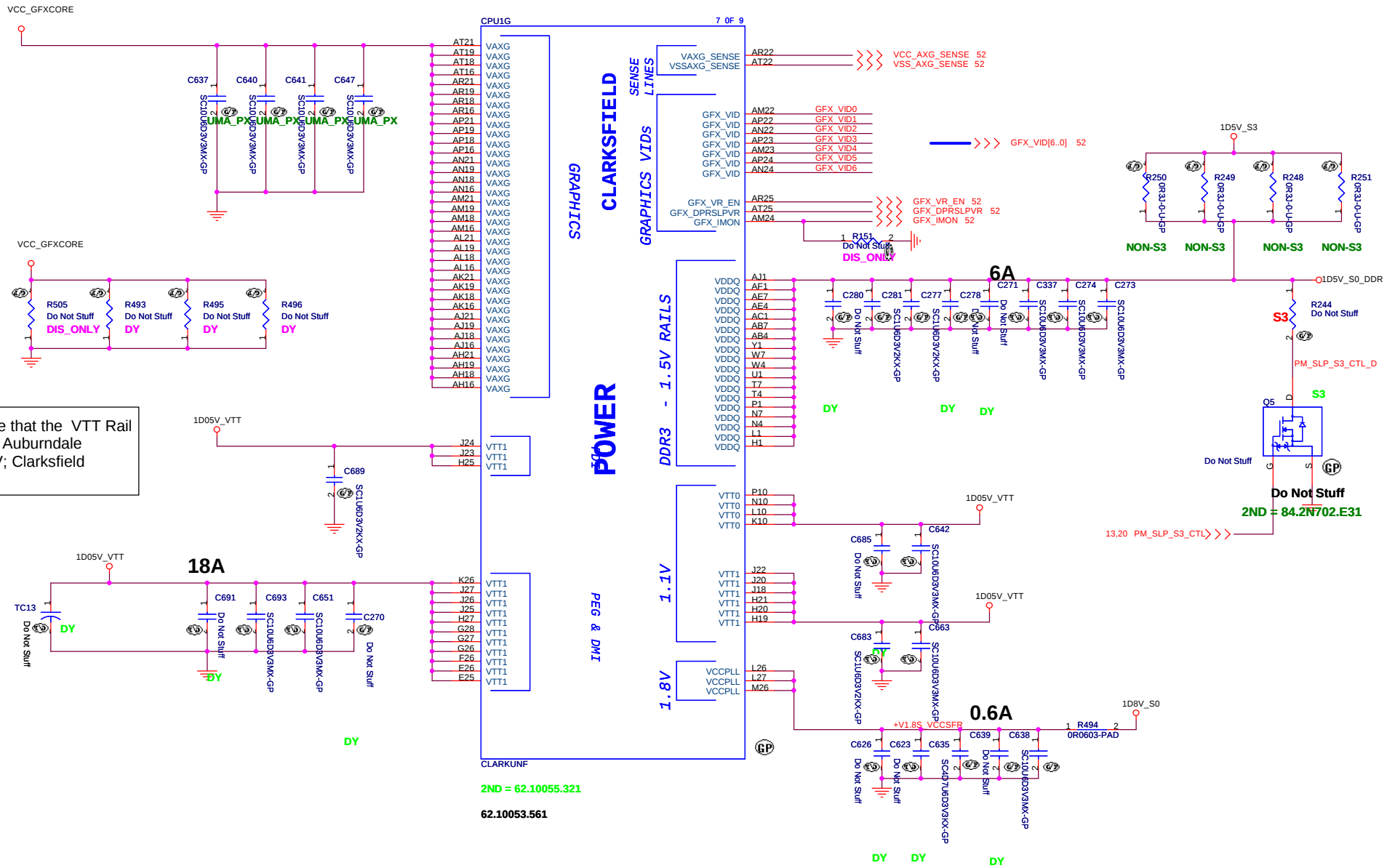
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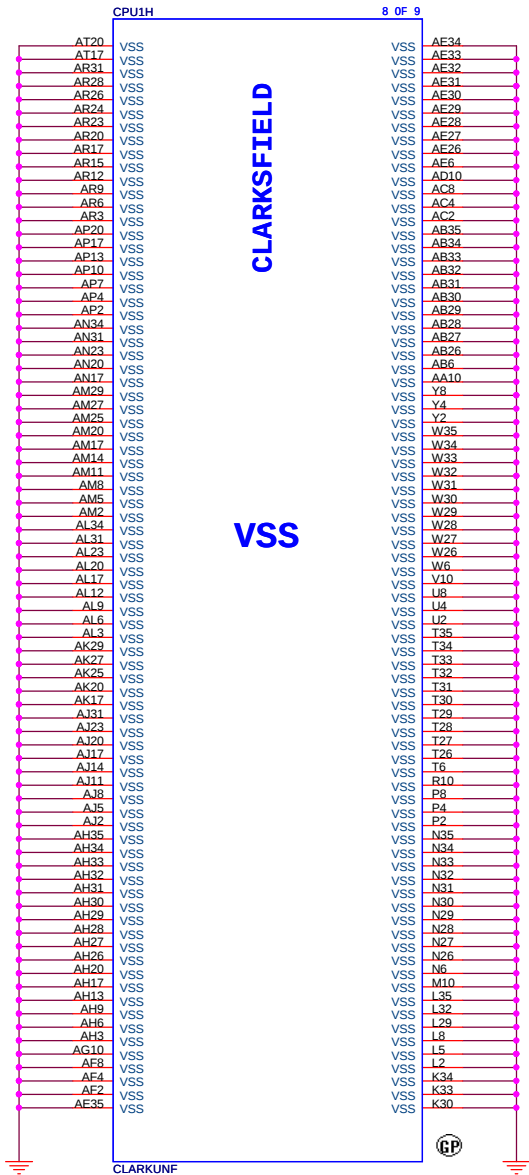
67



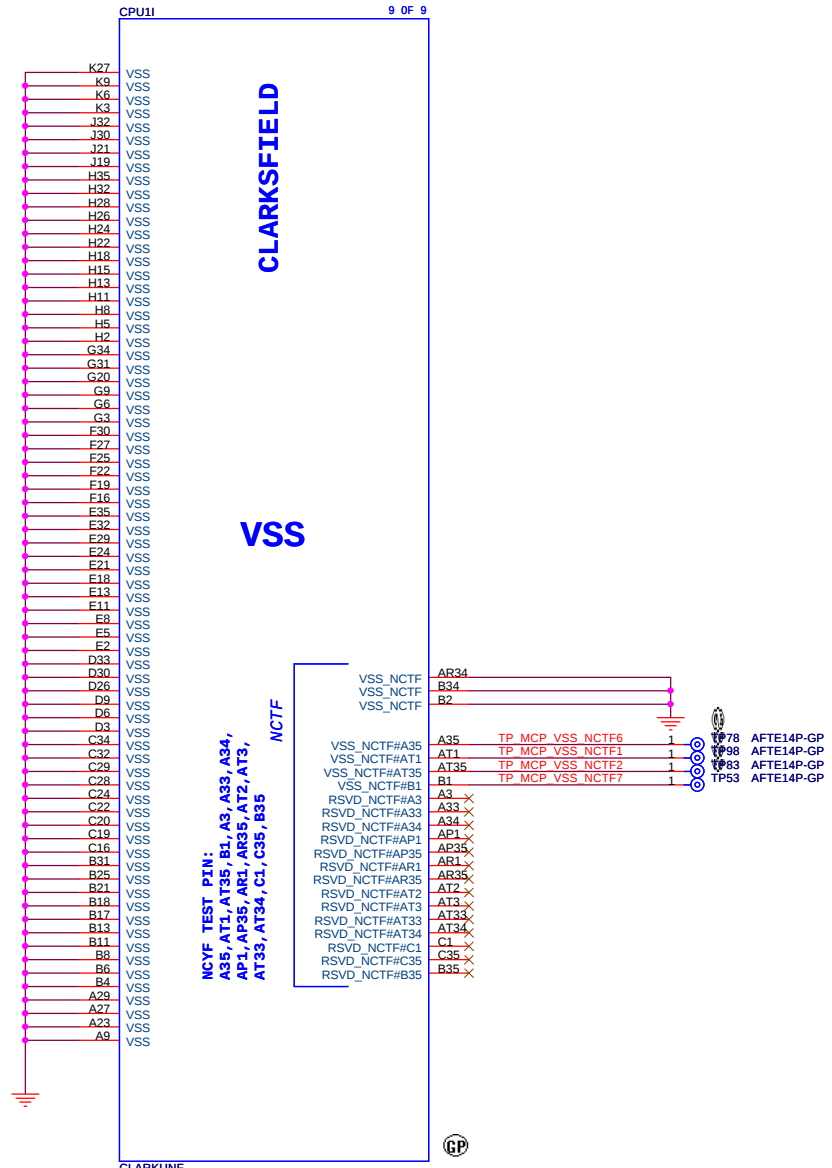
The decoupling capacitors, filter recommendations and sense resistors on the CPU/PCH Rails are specific to the CRB Implementation. Customers need to follow the recommendations in the Calpella Platform Design Guide.

Please note that the VTT Rail Values are Auburndale VTT=1.05V; Clarksfield VTT=1.1V

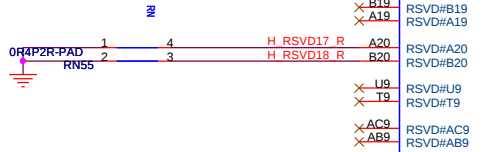




2ND = 62.10055.321
62.10053.561

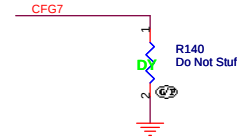
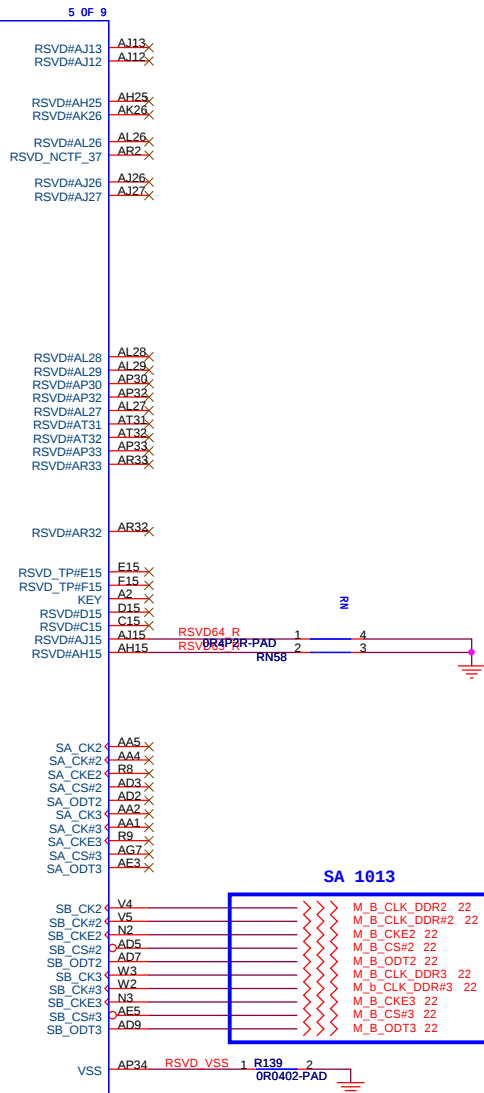


2ND = 62.10055.321
62.10053.561

[illegible]

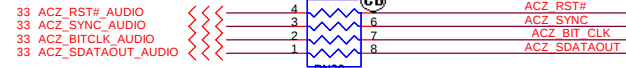
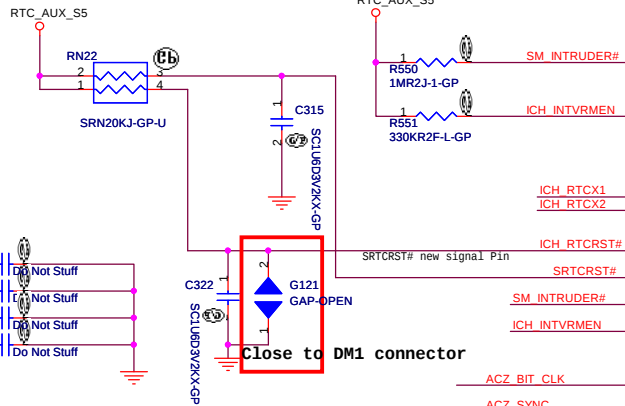
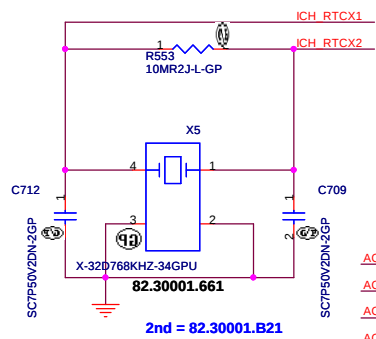
62.10053.561

RESERVED



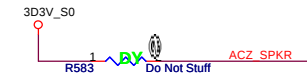
CFG7(Reserved) - Temporarily used for early Clarksfield samples.	
CFG7	Clarksfield (only for early samples pre-ES1) - Connect to GND with 3.01K Ohm/5% resistor. Note: Only temporary for early CFD sample (rPGA/BGA) [For details please refer to the WW33 MoW and sighting report]. For a common M/B design (for AUB and CFD), the pull-down resistor should be used. Does not impact AUB functionality.

Title			
CPU (7/7)			
Size A3	Document Number	Rev	
	JE70-CP		-1M
Date:	Tuesday, February 02, 2010	Sheet 10 of 67	

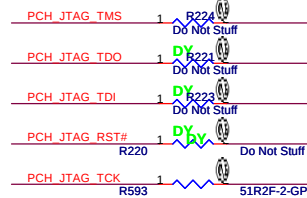
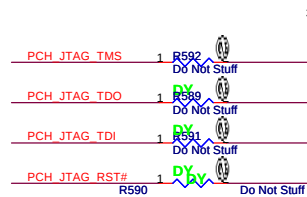


1D5V_S0 1 R549
Do Not Stuff
This signal has a weak internal pull down.
On Die PLL VR is supplied by 1.5V when
sampled high, 1.8 V when sampled low.

NO REBOOT STRAP

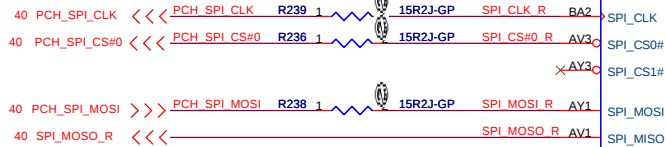


No Reboot Strap R23	
HDA_SPKR	Low = Default High = No Reboot

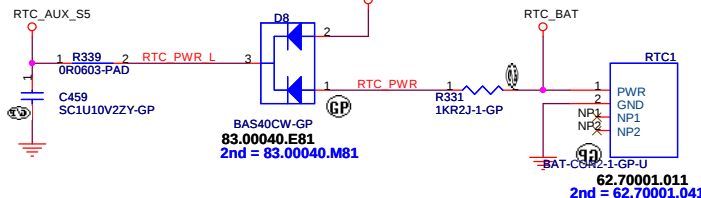


When unused all JTAG pins may be NC

SPI_CS0#, SPI_MISO, SPI_MOSI, SPI_CLK:
No series resistor required if routing length is 1.5"-6.5"

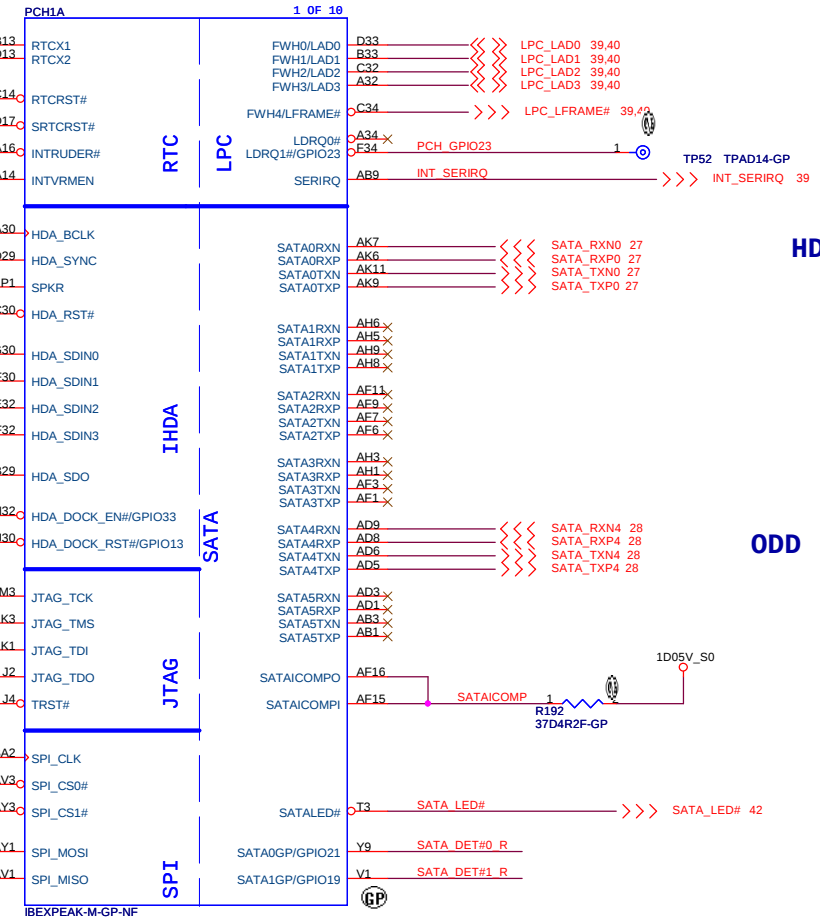


SPI_MOSI Enable iTPM: Connect to Vcc3_3 with
8.2-kΩ weak pull-up resistor.
Disable iTPM: Left floating, no
pull-down required



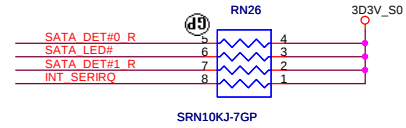
INTVRMEN- Integrated SUS
1.1V VRM Enable
High - Enable internal VRs

Integrated VccSus1_05,VccSus1_5,VccCL1_5		
INTVRMEN	High=Enable	Low=Disable
Integrated VccLan1_05VccCL1_05		
LAN100_SLP	High=Enable	Low=Disable



HDD

ODD



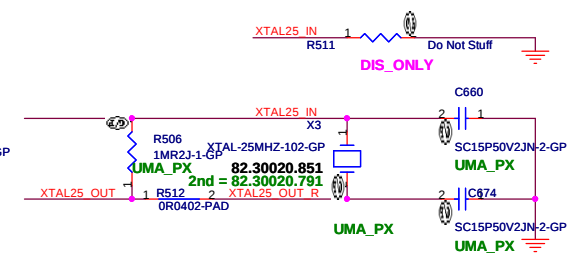
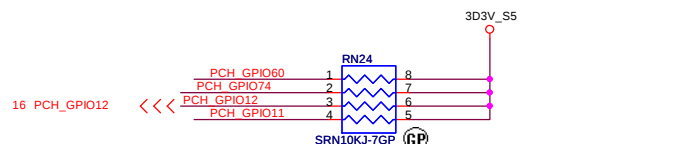
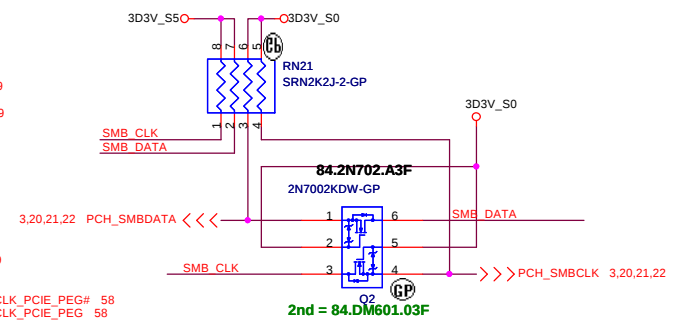
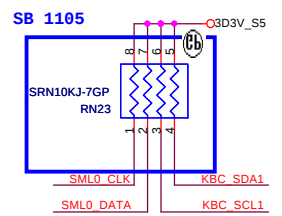
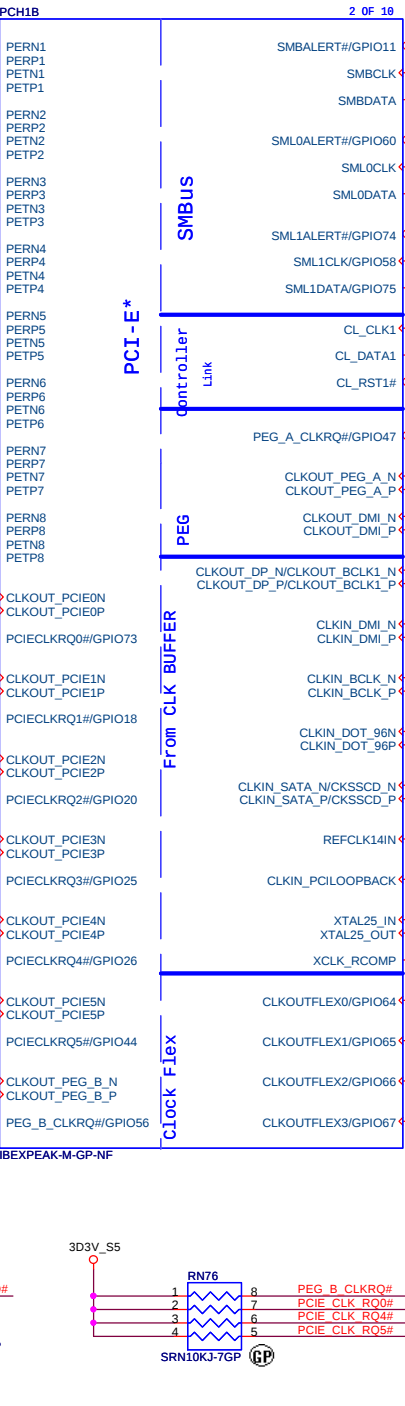
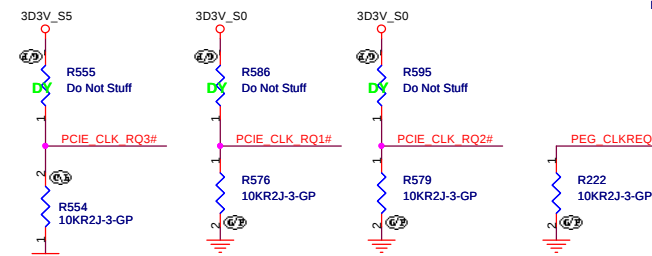
LAN

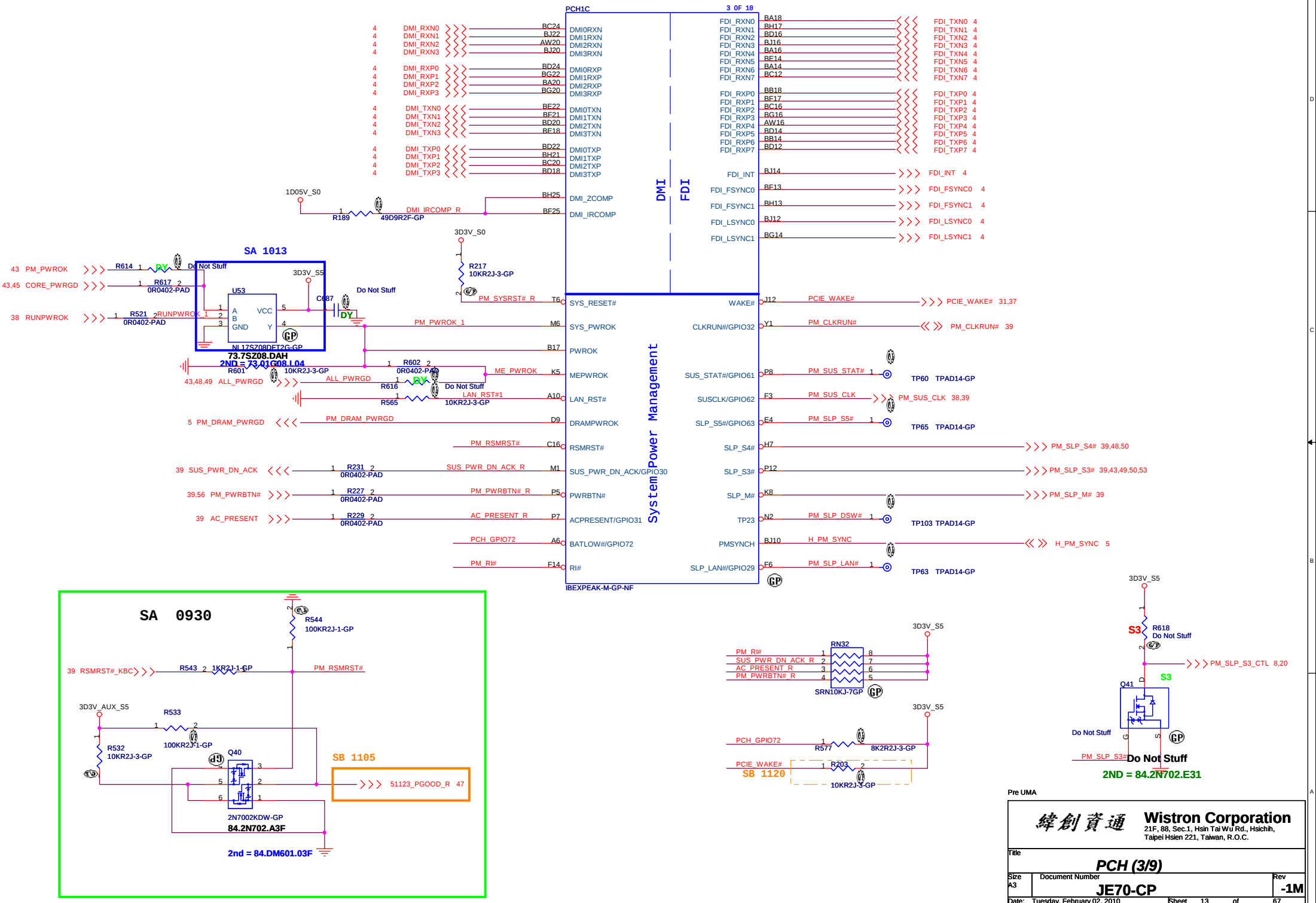
MINICARD1

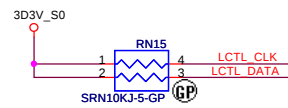
MINICARD2

PCIECLKRQ{0,3,4,5,6,7}# should have a 10K pull-up to +3VALW.

PCIECLKRQ{1,2} should have a 10K pull-up to +1.05VS (But CRB is pull-up to +3VS).



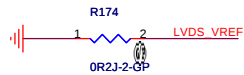




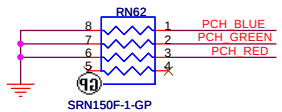
UMA_PX



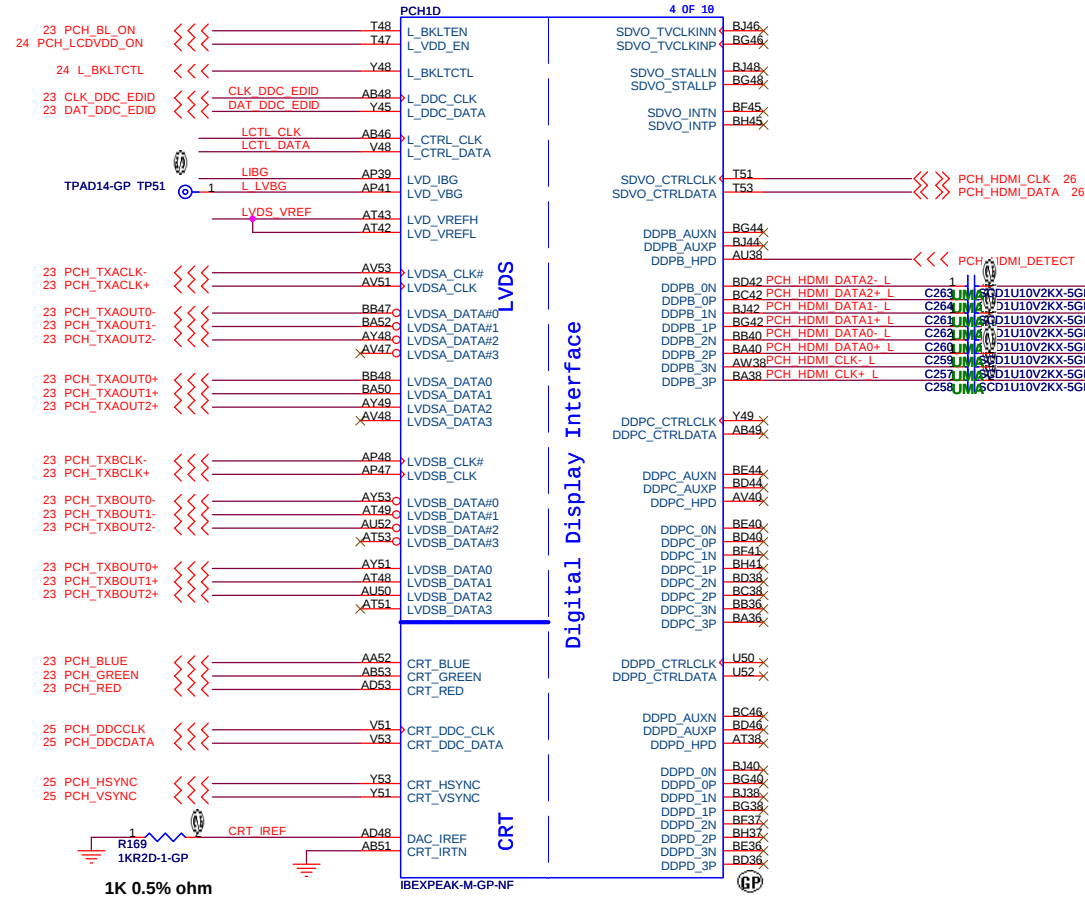
UMA_PX



UMA_PX



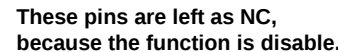
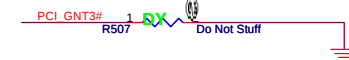
UMA_PX



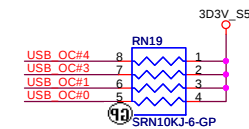
Pre UMA



	1	1	SPI	
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NV_CLE+V NVRAM VCC0

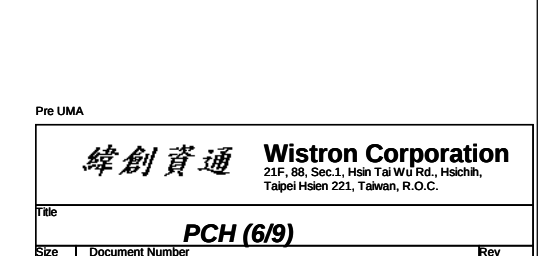
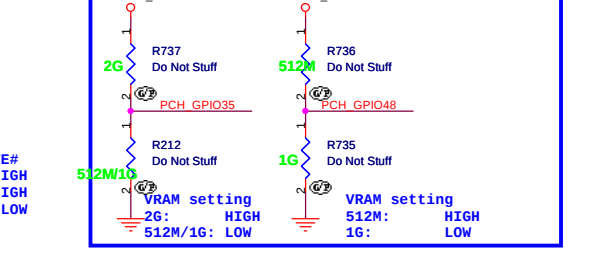
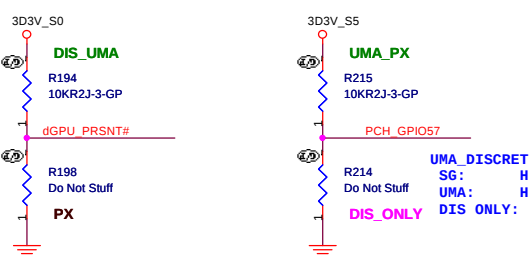
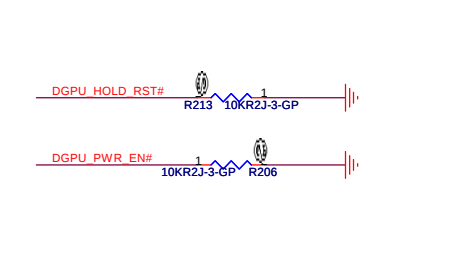
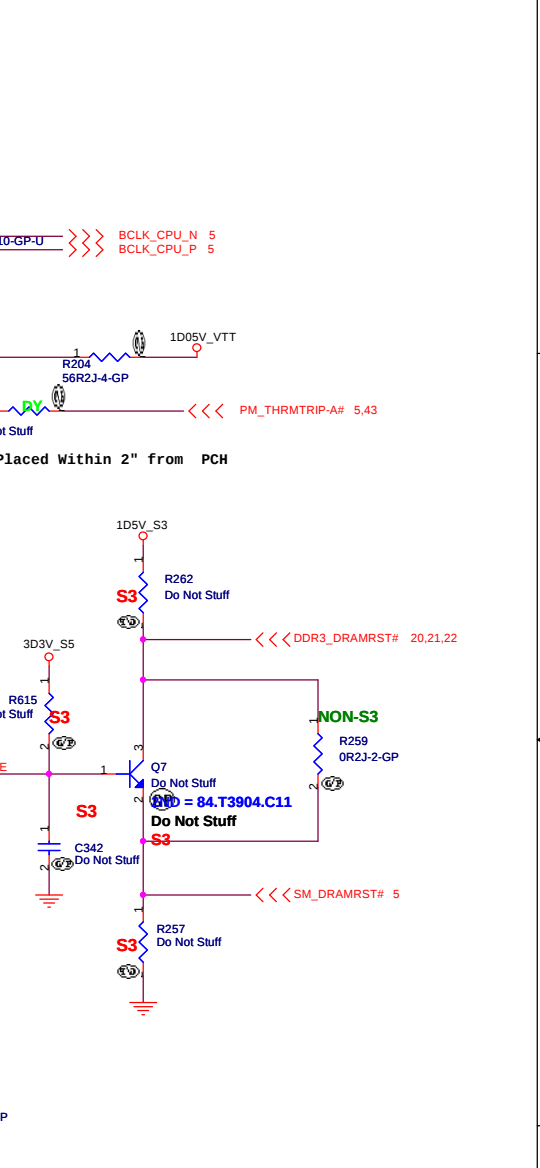
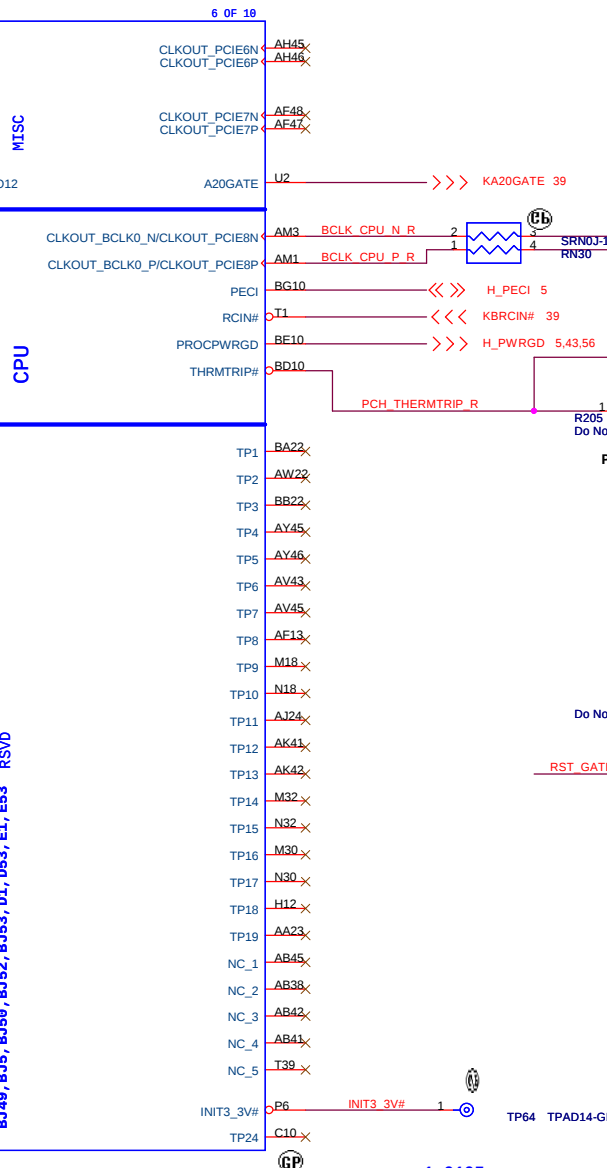
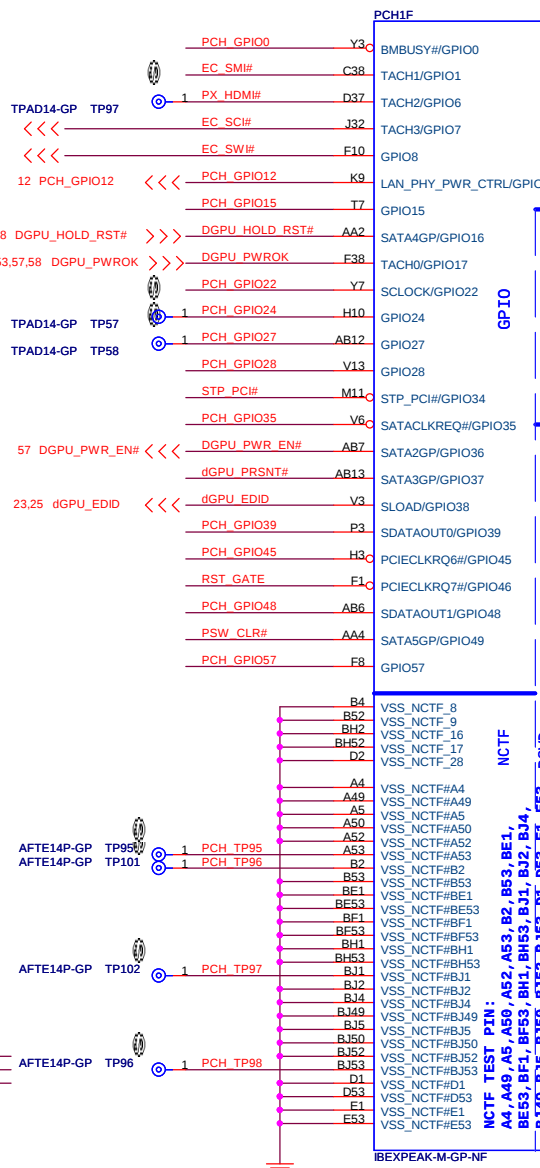
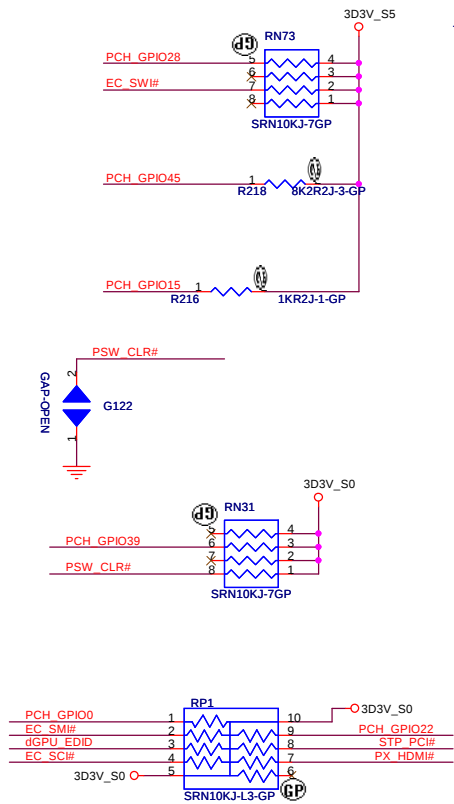
<i>Pair</i>	<i>Device</i>
<i>0</i>	<i>USB3</i>
<i>1</i>	<i>USB2</i>
<i>2</i>	<i>USB4</i>
<i>3</i>	<i>MINICARD1</i>
<i>4</i>	<i>WECAM</i>
<i>5</i>	<i>NC</i>
<i>6</i>	<i>NC</i>
<i>7</i>	<i>NC</i>
<i>8</i>	<i>NC</i>
<i>9</i>	<i>USB1(HS)</i>
<i>10</i>	<i>NC</i>
<i>11</i>	<i>Blue Tooth</i>
<i>12</i>	<i>MINIC2</i>
<i>13</i>	<i>Cardreader</i>



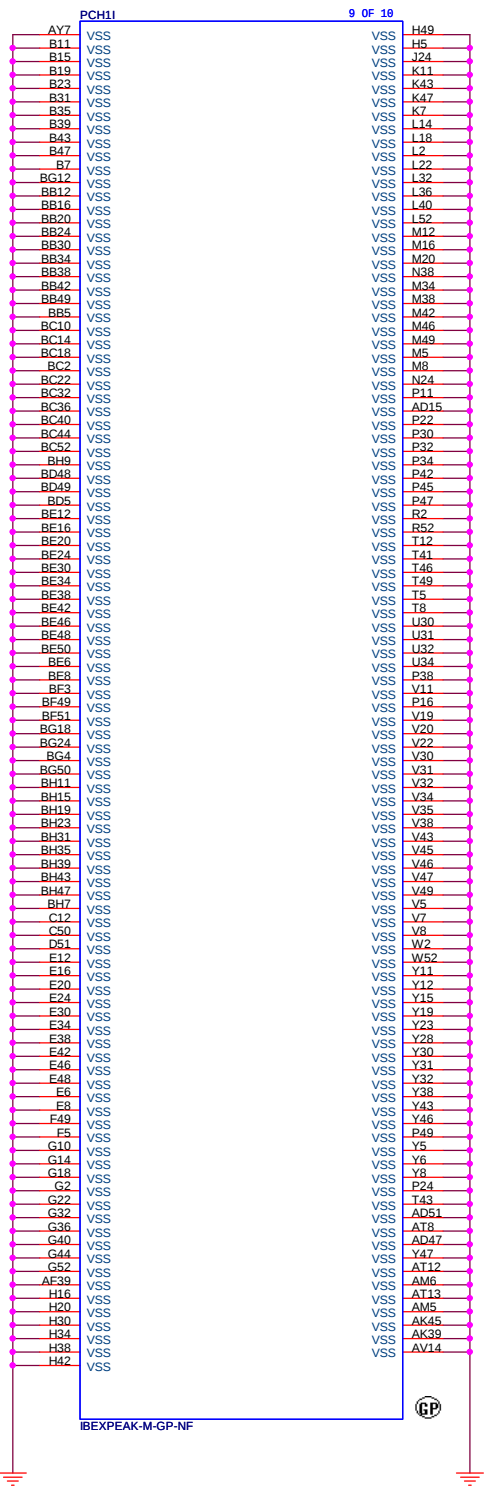
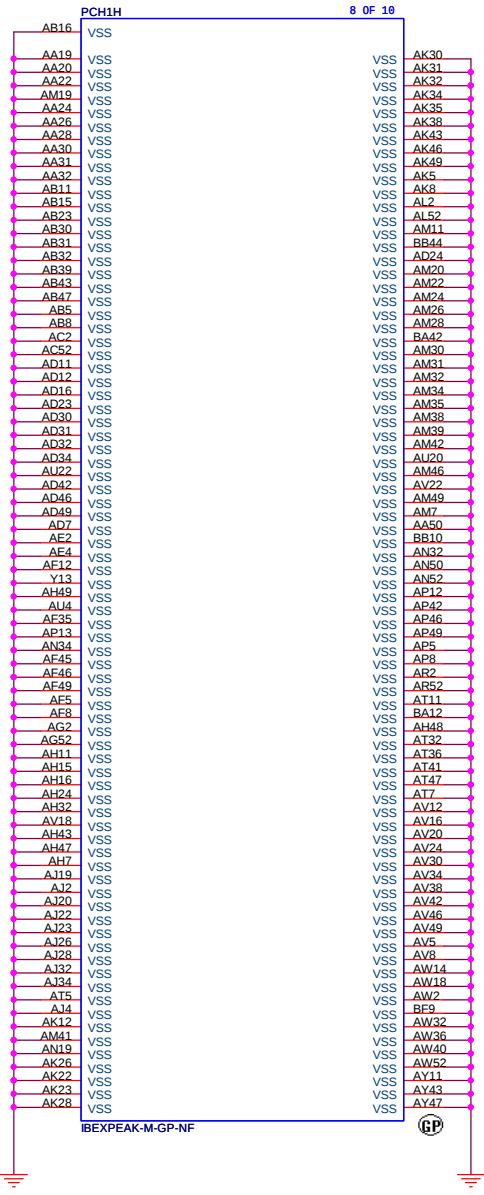
GPIO8 has a weak[20K] internal pull up.
No need to have external pull down/up.
GPIO8 pin set to high at reset.

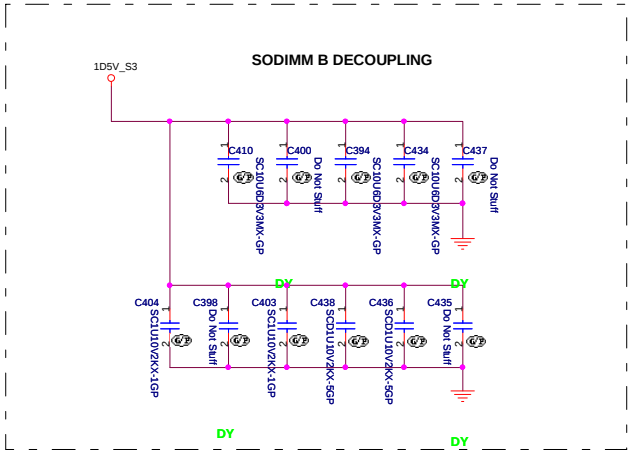
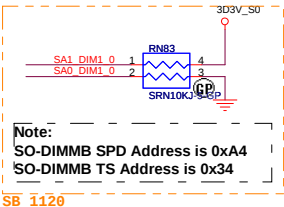
GPIO15 has a weak[20K] internal pull down.
No need to have external pull up/down.
GPIO 15 pin is set to low at reset.
Low : ME Crypto TLS with no confidentiality
High : ME Crypto TLS with confidentiality

GPIO27 has a weak[20K] internal pull up.
To enable on-die PLL Voltage regulator,
should not place external pull down.

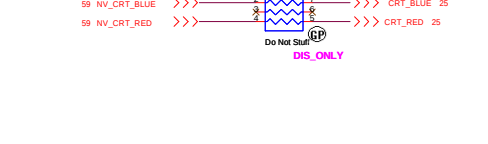
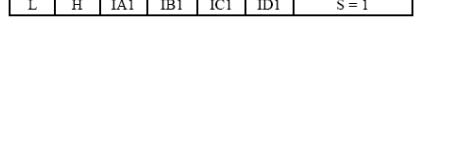
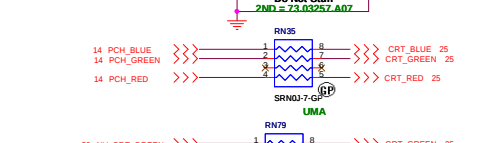
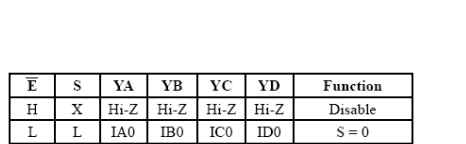
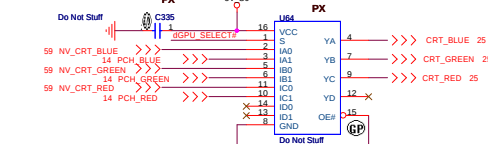
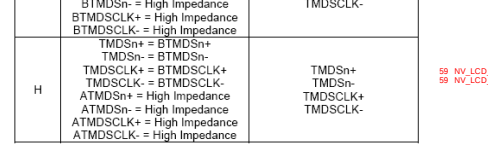
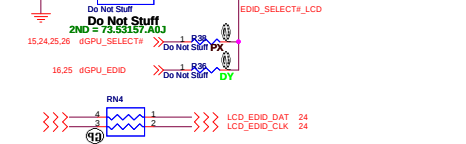
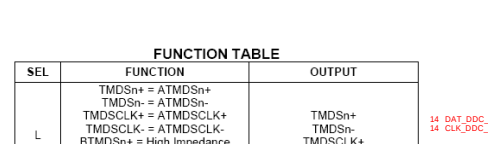
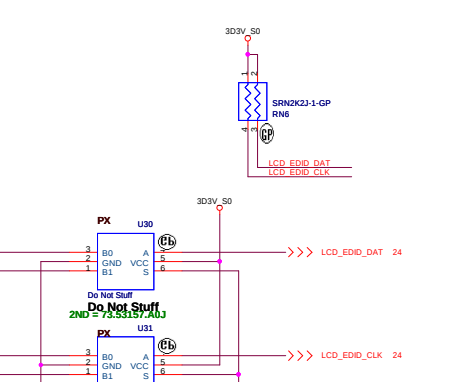
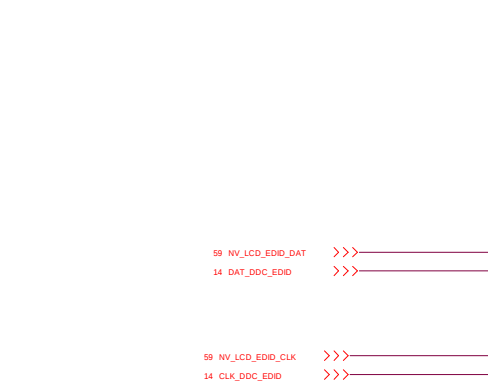
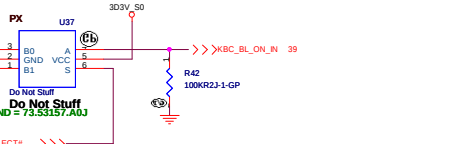
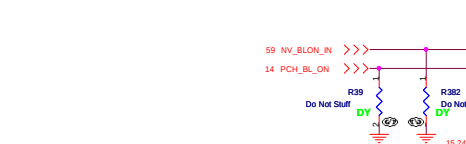
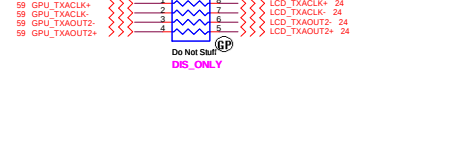
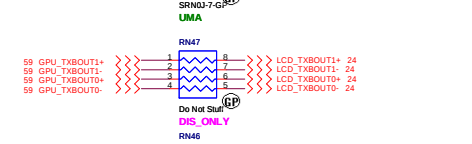
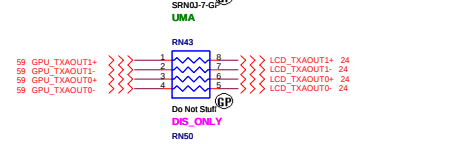
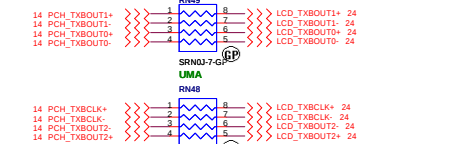
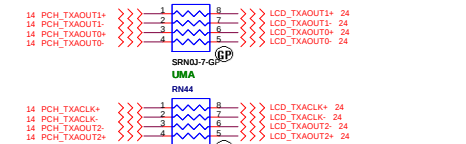
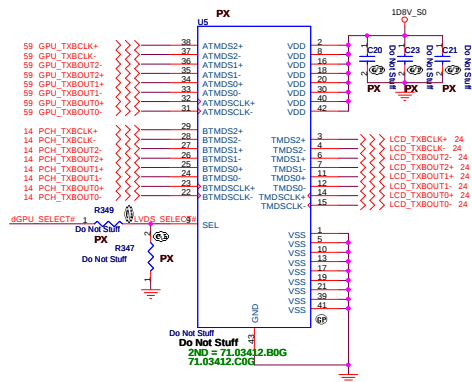
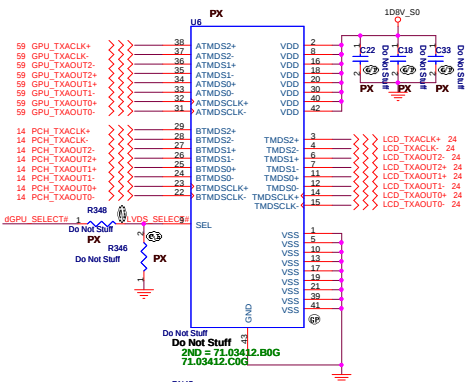








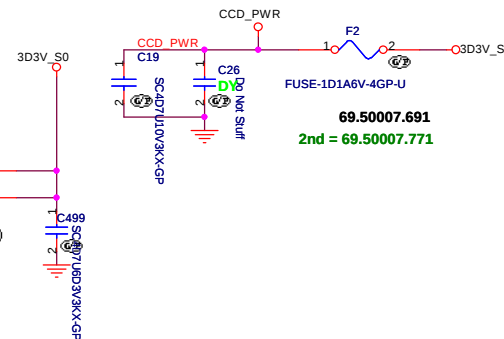
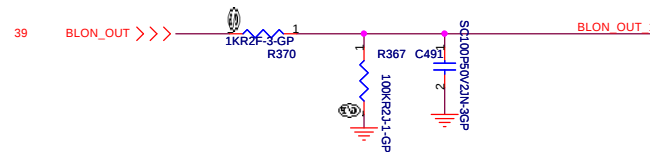
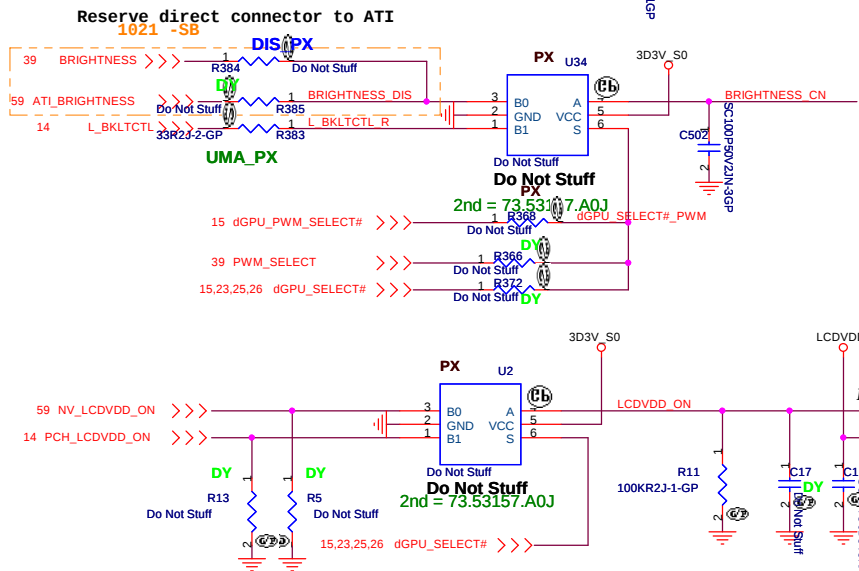
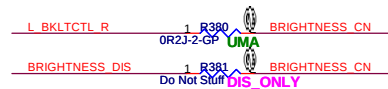
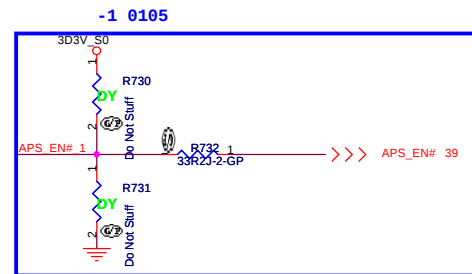
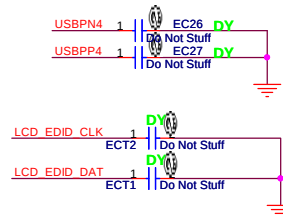
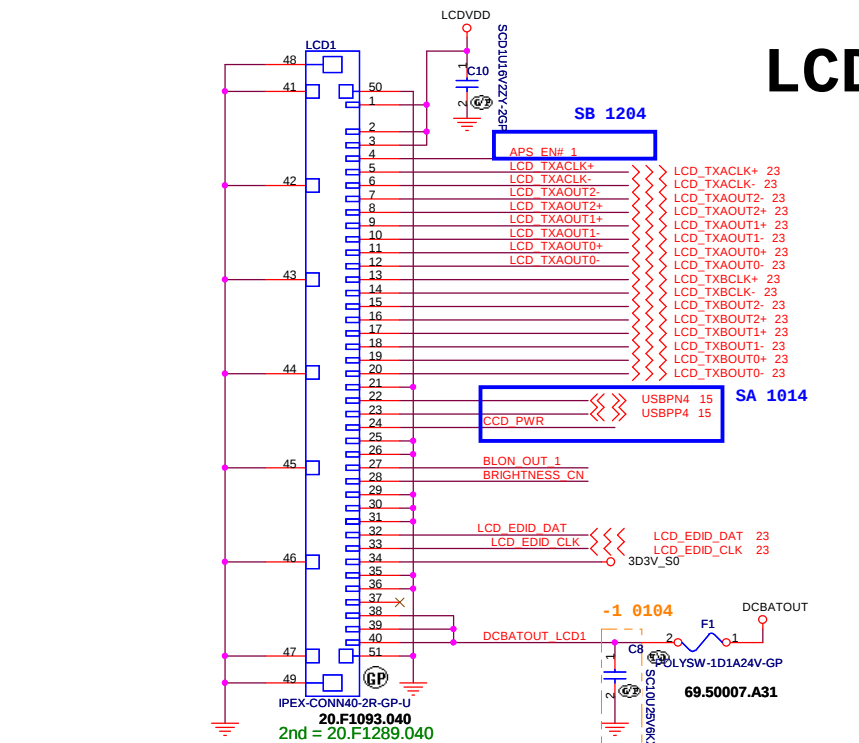
DDR3-204P-97-GP
62.10017.W11
2ND = 62.10017.V51



SEL	FUNCTION	OUTPUT
L	TMDSn+ = ATMDSn+ TMDSn- = ATMDSn- TMDSClk+ = ATMDSClk+ TMDSClk- = ATMDSClk- BTMDSn+ = High Impedance BTMDSn- = High Impedance BTMDSClk+ = High Impedance BTMDSClk- = High Impedance	TMDSn+ TMDSn- TMDSClk+ TMDSClk-
H	TMDSn+ = BTMDSn+ TMDSClk+ = BTMDSClk+ TMDSClk- = BTMDSClk- ATMDSn+ = High Impedance ATMDSn- = High Impedance ATMDSClk+ = High Impedance ATMDSClk- = High Impedance	TMDSn+ TMDSn- TMDSClk+ TMDSClk-

E	S	YA	YB	YC	YD	Function
H	X	Hi-Z	Hi-Z	Hi-Z	Hi-Z	Disable
L	L	IA0	IB0	IC0	ID0	S = 0
L	H	IA1	IB1	IC1	ID1	S = 1

LCD/INVERTER/CCD CONN



Pre UMA

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

Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
Title	Author	Date	Page	Page	Page	Page	Page	Page	Page
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LCD CONN

Size

Document Number	
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JE70-CP

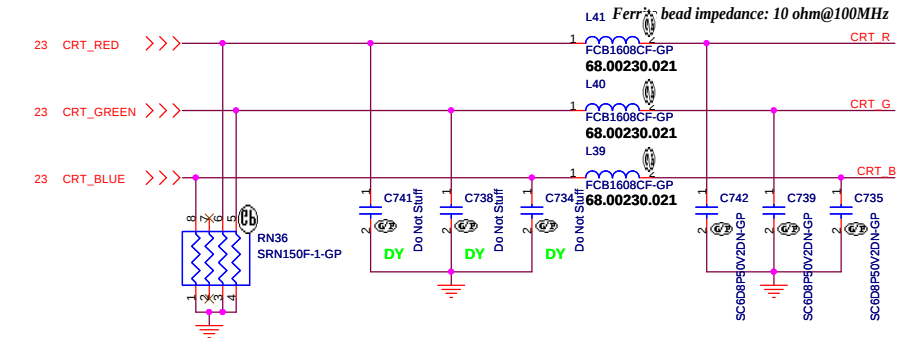
Rev

Date: Tuesday, February 02, 2010

Sheet 24

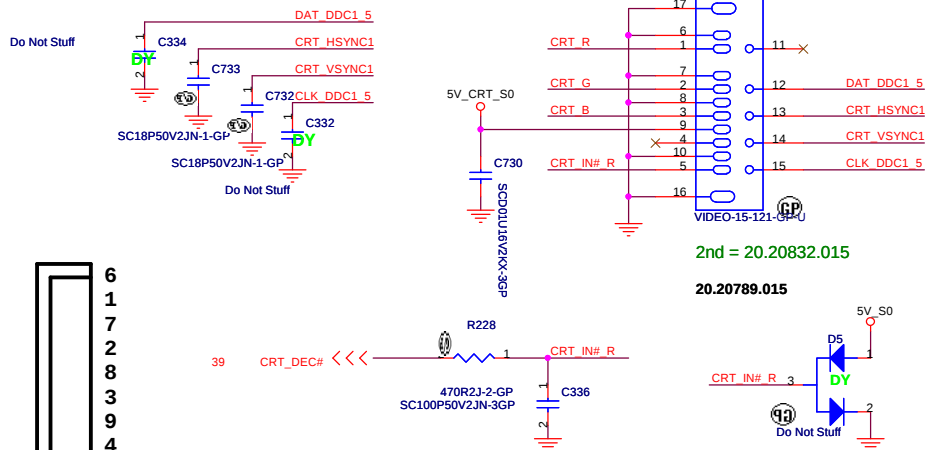
67

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.

CRT I/F & CONNECTOR

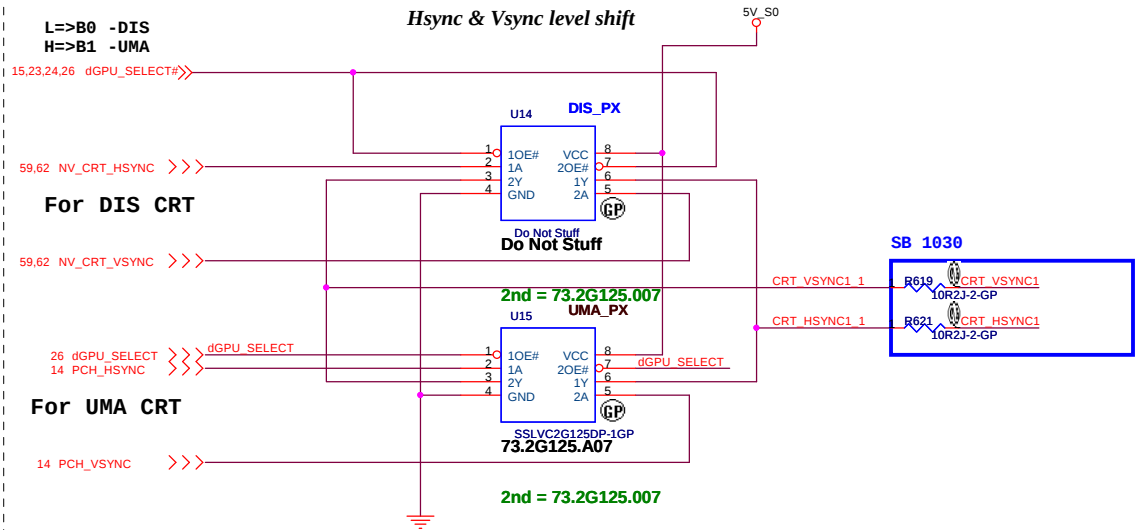


Hsync & Vsync level shift

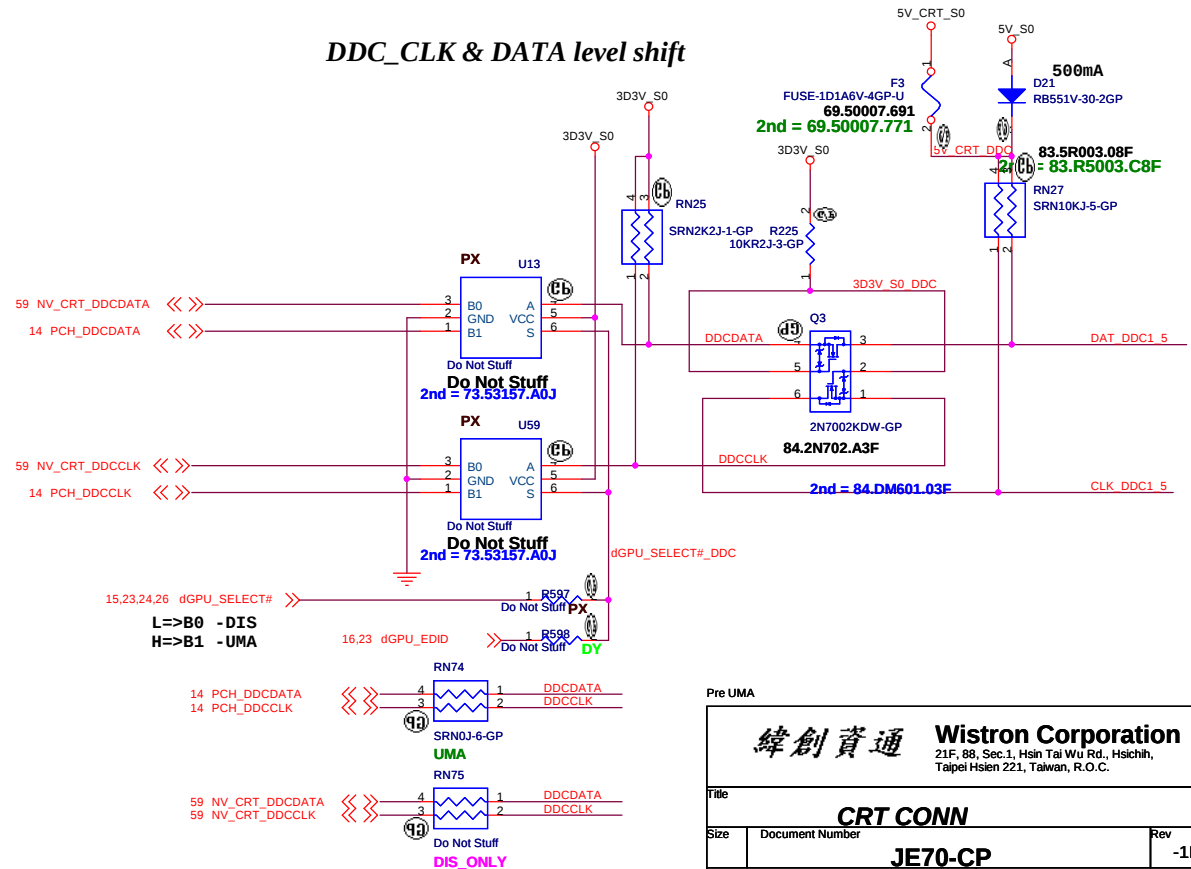
L=>B0 -DIS
H=>B1 -UMA

For DIS CRT

For UMA CRT



DDC_CLK & DATA level shift



Pre UMA

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

Title

	Document Number
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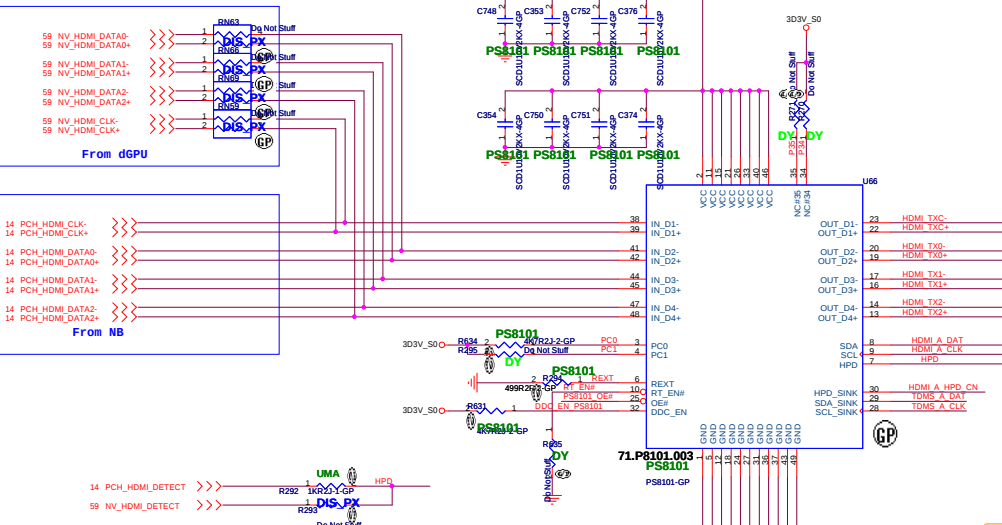
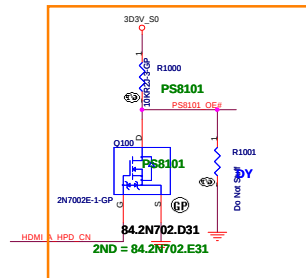
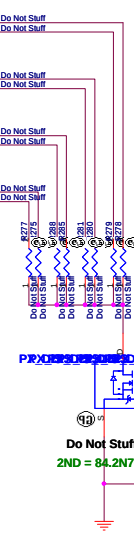
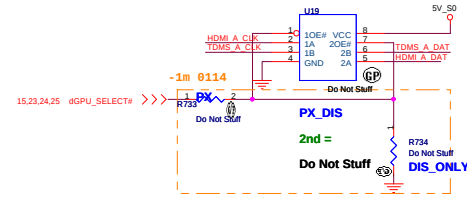
CRT CONN

JE70-CP

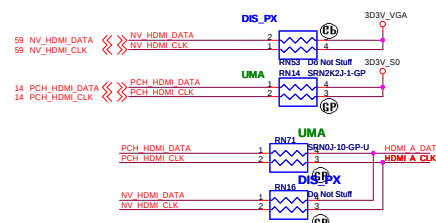
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Date: Tuesday, February 02, 2010

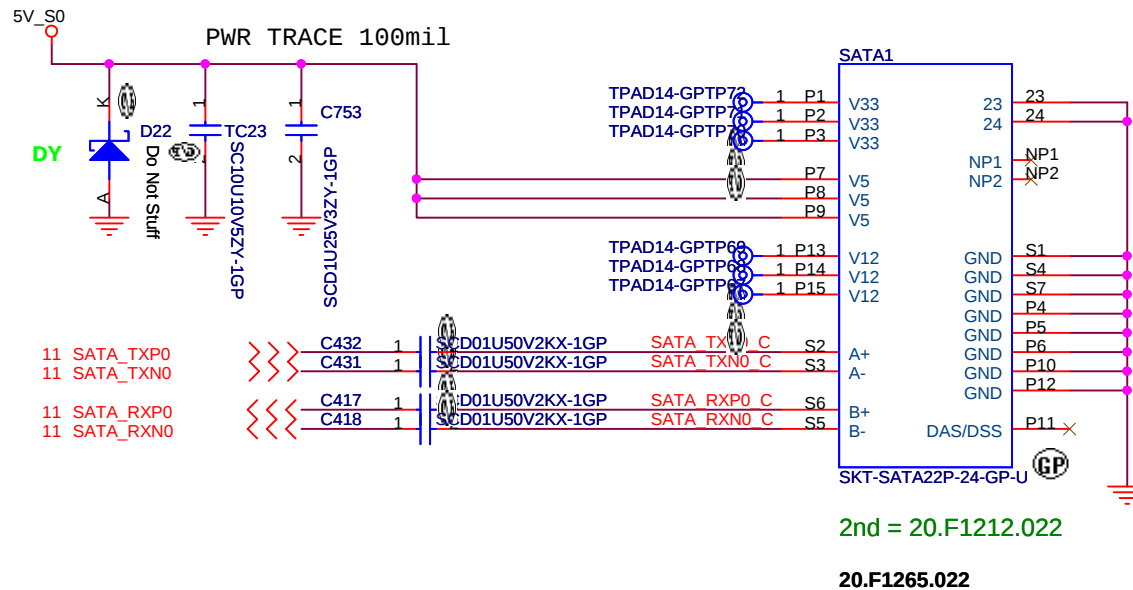
Sheet 25 of 67



10 of 12



SATA Connector



Pre UMA

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

Title	Author	Year	Journal	Volume	Issue	Page
1. The Effect of the 1997 Asian Crisis on the Korean Economy	Kim, J. H.	1998	Journal of Economic Surveys	12	4	485-505
2. The Impact of the 1997 Asian Crisis on the Japanese Economy	Yamada, T.	1998	Journal of Economic Surveys	12	4	507-527
3. The Effect of the 1997 Asian Crisis on the Chinese Economy	Li, X.	1998	Journal of Economic Surveys	12	4	529-549
4. The Impact of the 1997 Asian Crisis on the Indian Economy	Chandra, A.	1998	Journal of Economic Surveys	12	4	551-571
5. The Effect of the 1997 Asian Crisis on the Russian Economy	Chernyshov, A.	1998	Journal of Economic Surveys	12	4	573-593
6. The Impact of the 1997 Asian Crisis on the South African Economy	Wade, R.	1998	Journal of Economic Surveys	12	4	595-615
7. The Effect of the 1997 Asian Crisis on the Brazilian Economy	Cardoso, E.	1998	Journal of Economic Surveys	12	4	617-637
8. The Impact of the 1997 Asian Crisis on the Mexican Economy	Calvo, G.	1998	Journal of Economic Surveys	12	4	639-659
9. The Effect of the 1997 Asian Crisis on the Argentine Economy	Calvo, G.	1998	Journal of Economic Surveys	12	4	661-681
10. The Impact of the 1997 Asian Crisis on the Indonesian Economy	Chandra, A.	1998	Journal of Economic Surveys	12	4	683-703

HDD CONN

Size	Document Number
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JE70-CP

Rev	-1M
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Date: Tuesday, February 02, 2010

Sheet 27 of 67

11 SATA_TXP4
11 SATA_TXN4

11 SATA_RXN4
11 SATA_RXP4

5V_S0

C312 1
C311 1

SCD01U50V2KX-1GP
SCD01U50V2KX-1GP

SATA TXP4 C
SATA TXN4 C

C295 1
C288 1

SCD01U50V2KX-1GP
SCD01U50V2KX-1GP

SATA RXN4 C
SATA RXP4 C

DY

R166 ODD_DP
Do Not Stuff

1 ODD_MD

TP48
TPAD14-GP

D20 Do Not Stuff

C265
SCD01U16V2ZY-2GP

TC14
SC10U10V5ZY-1GP

ODD1

NP1
S1
S2
S3
S4
S5
S6
S7
P1
P2
P3
P4
P5
P6
NP2
GP

SKT-SATA7P-6P-17-GP

2nd = 62.10065.D71

62.10065.D11

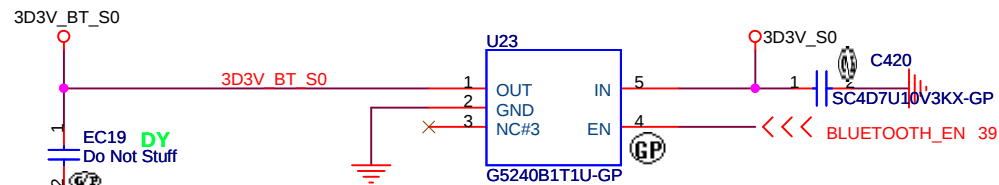
緯創資通 **Wistron Corporation**
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Taipei Hsien 221, Taiwan, R.O.C.

ODD

JE70-CP

Sheet	28	of	67
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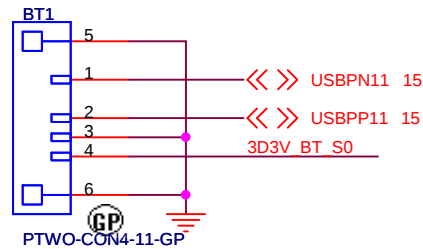
BLUETOOTH MODULE



74.05240.A7F

2nd = 74.09711.A7F

EC20 put near
BLUE1 / all
USB put one
choke near
connector by
EMI request



20.F1561.004

2nd = 20.F1621.004

Pre UMA

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Title

BLUETOOTH

Size

Document Number

JE70-CP

Rev

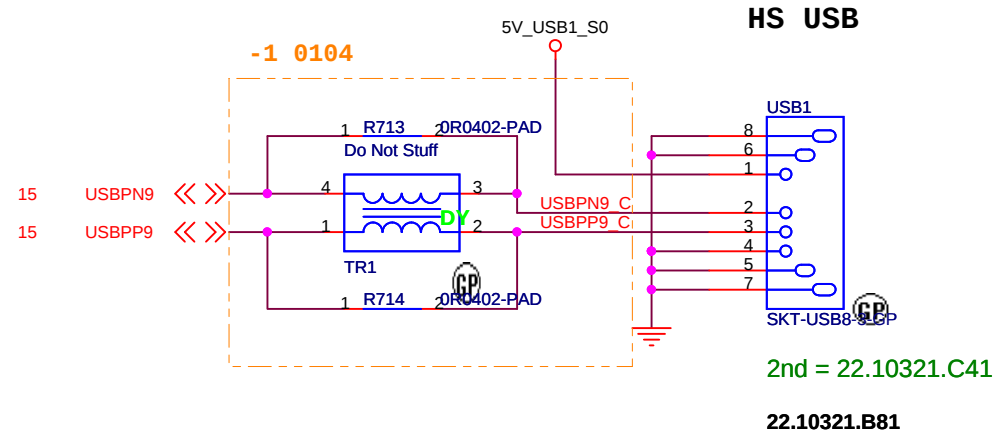
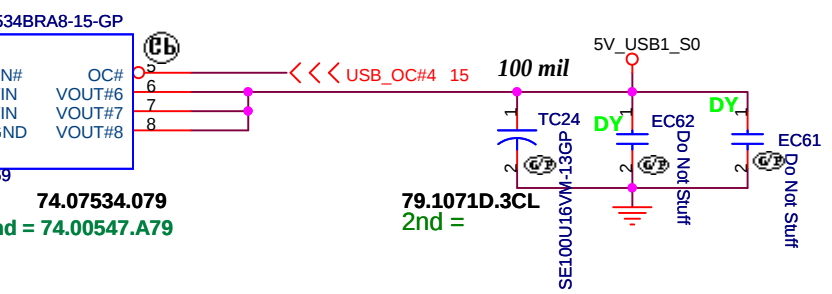
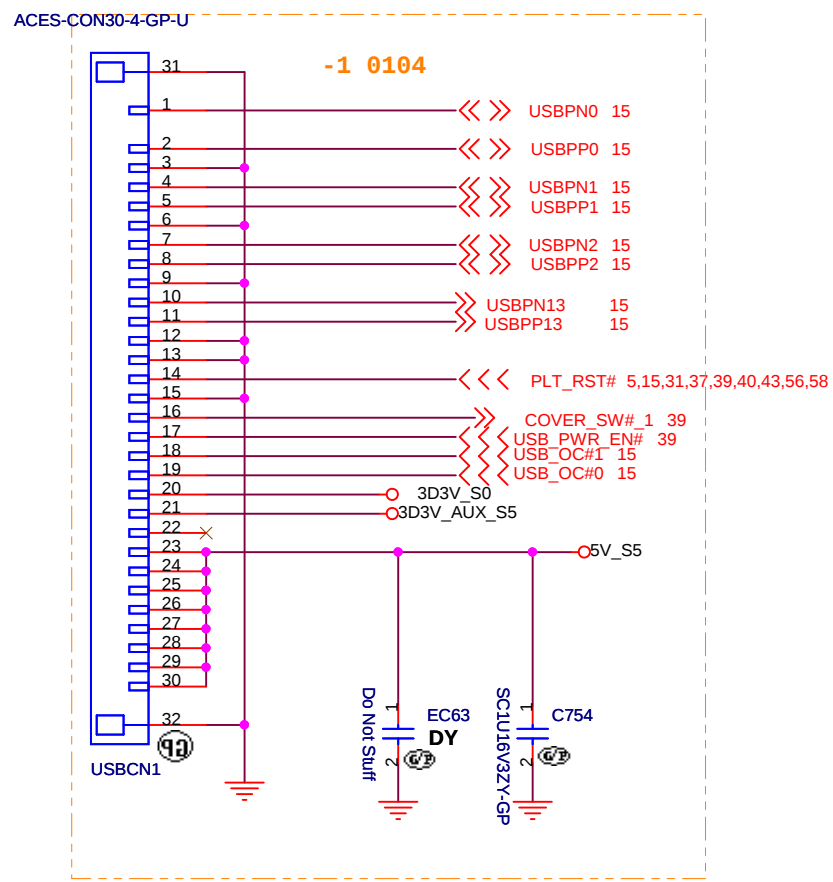
-1M

Date: Tuesday, February 02, 2010

Sheet 29 of 67

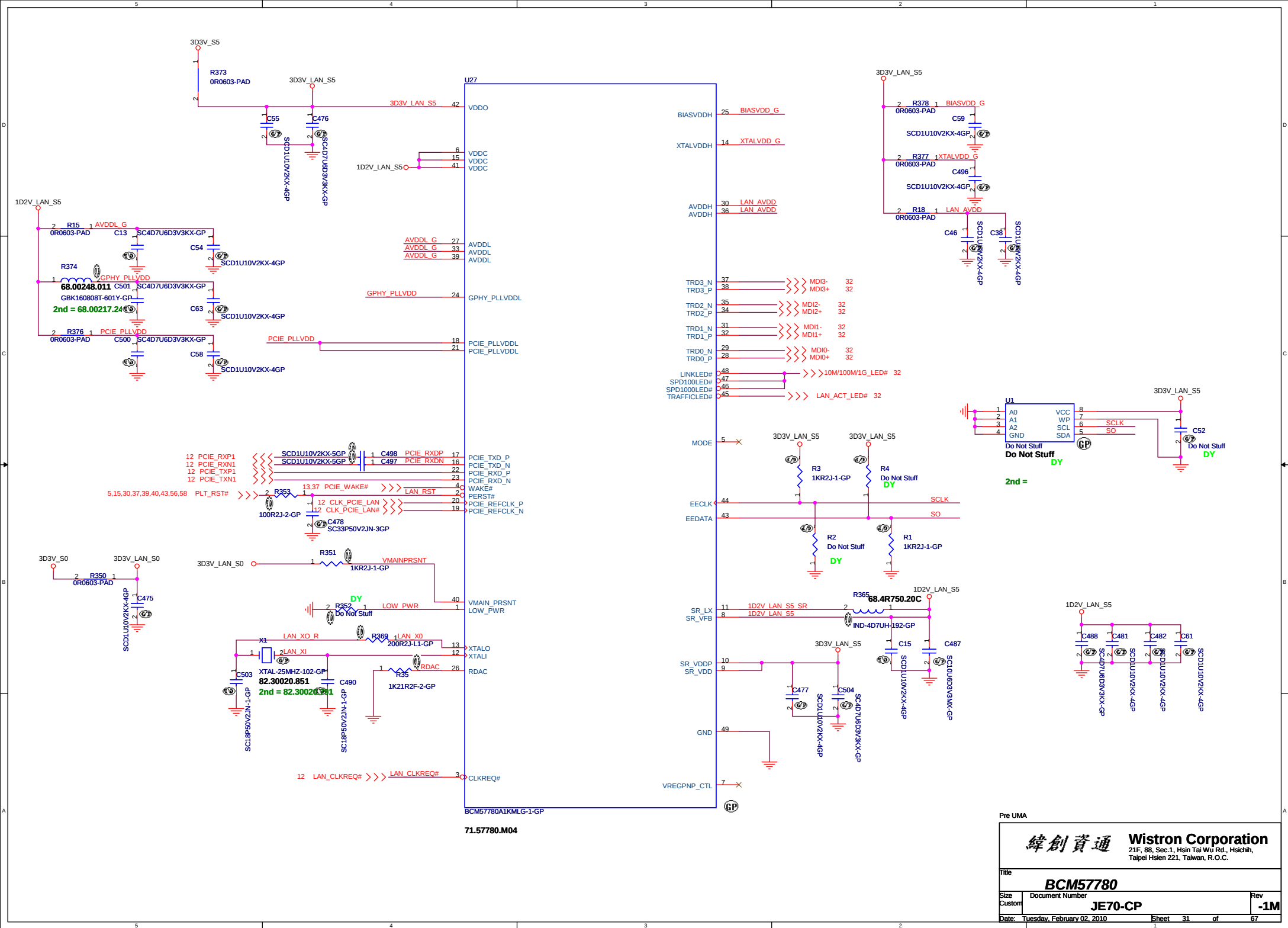
2nd =

20.K0276.030



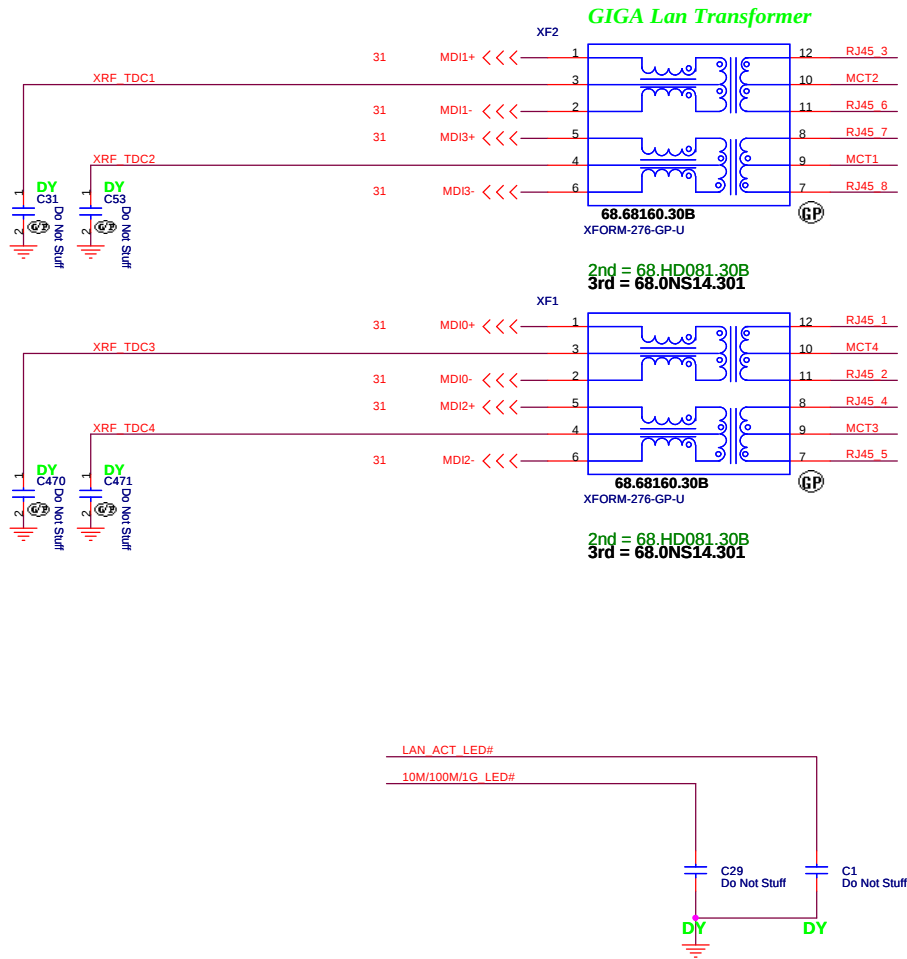
Pre UMA

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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.					
Title					
USB CONN					
Size	Document Number				Rev
	JE70-CP				-1M
Date: Tuesday, February 02, 2010		Sheet		30	of 67

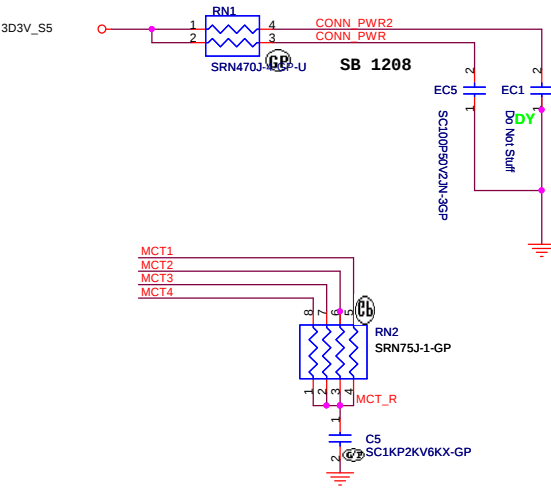
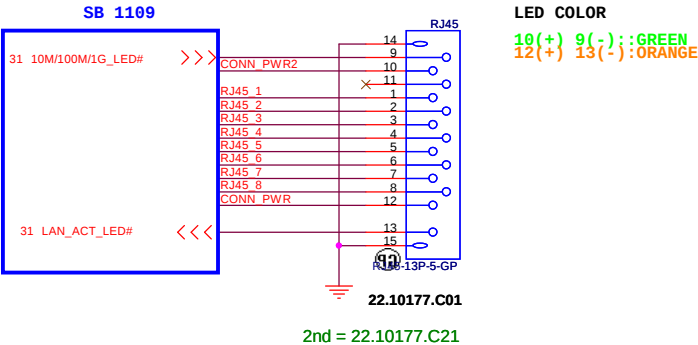


- 1.route on bottom as differential pairs.
- 2.Tx+/Tx- are pairs. Rx+/Rx- are pairs.
- 3.No vias, No 90 degree bends.
- 4.pairs must be equal lengths.
- 5.6mil trace width,12mil separation.
- 6.36mil between pairs and any other trace.
- 7.Must not cross ground moat,except RJ-45 moat.

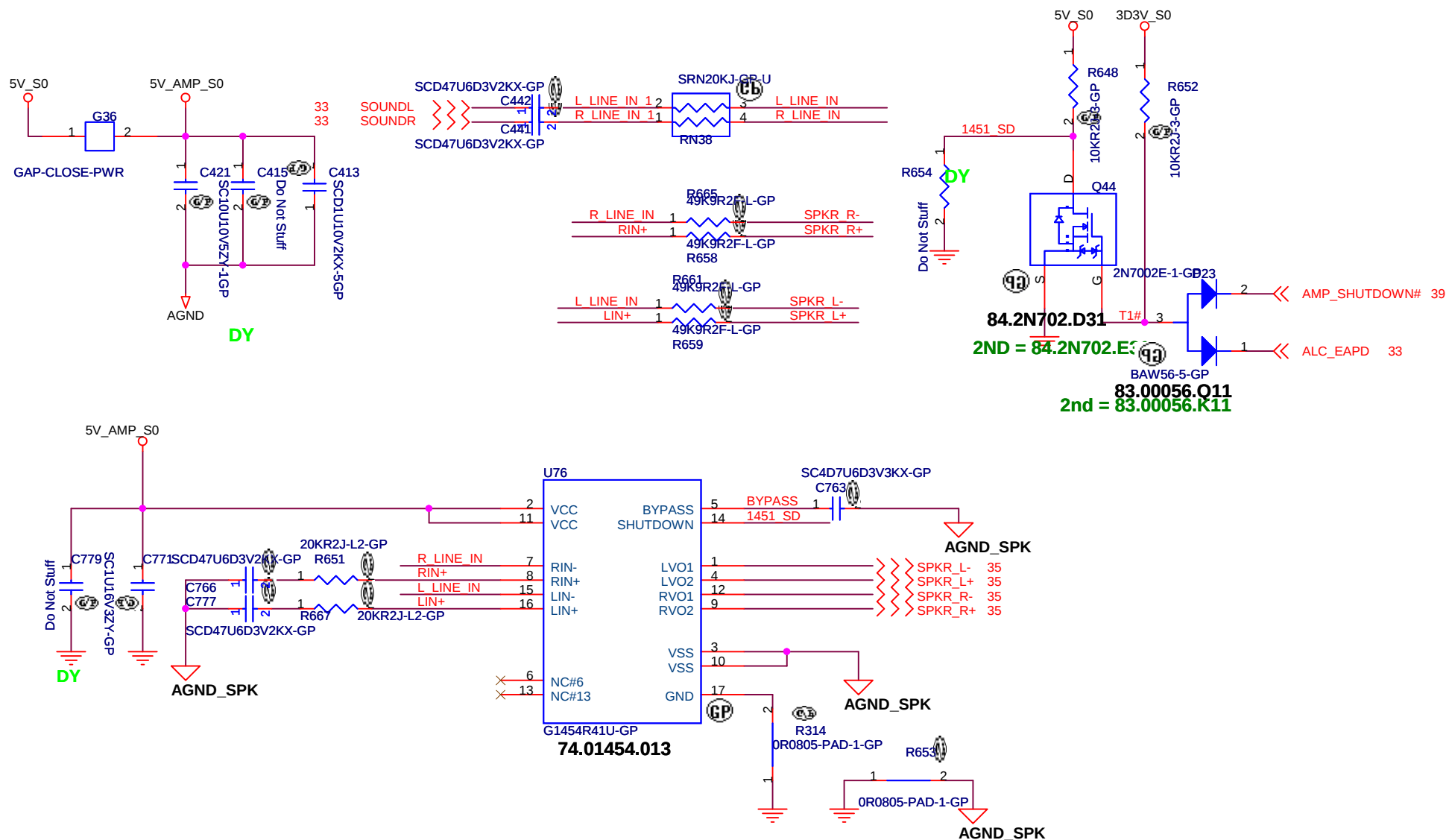
LAN Connector



LAN Connector



AUDIO OP AMPLIFIER

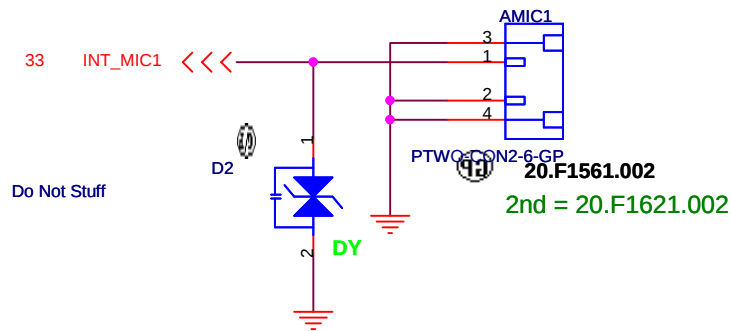


Pre UMA

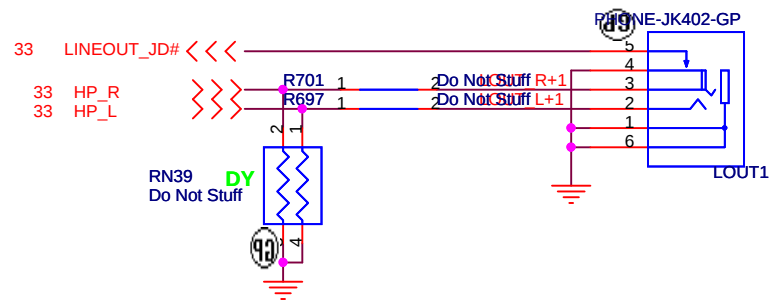
緯創資通 **Wistron Corporation**
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Taipei Hsien 221, Taiwan, R.O.C.

Title		
AUDIO AMP		
Size	Document Number	Rev
	JE70-CP	-1M
Date	Tuesday, February 02, 2010	Sheet 34 of 67

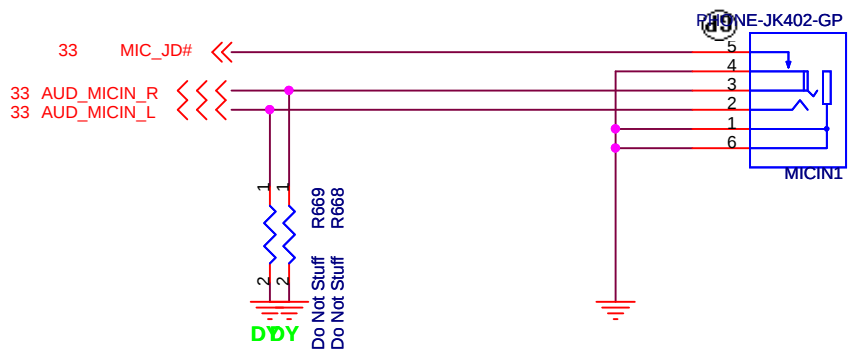
Internal Mic



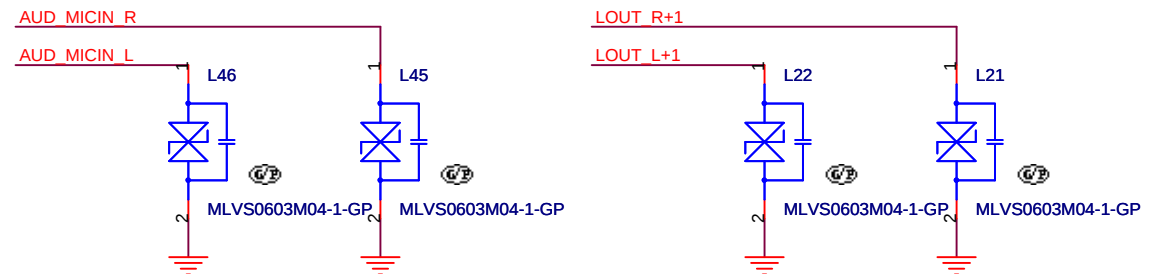
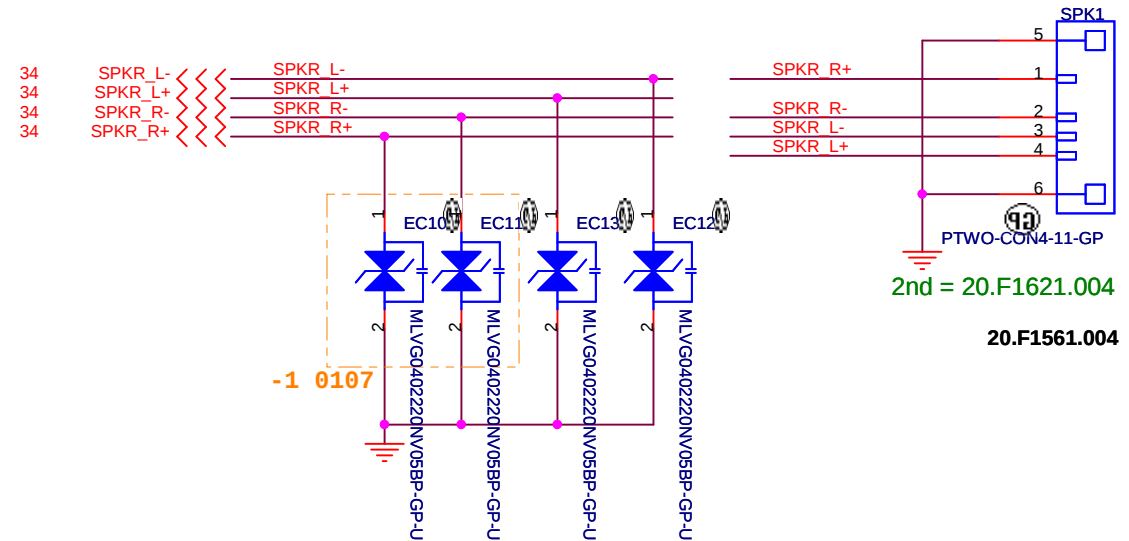
LINE OUT



MIC IN



Internal Speaker



Pre UMA

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Title

AUDIO jack

Size

Document Number

JE70-CP

Rev

-1M

Date: Tuesday, February 02, 2010

Sheet 35 of 67



Pre UMA

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

Title

Cardreader

Size

Document Number

JE70-CP

Rev

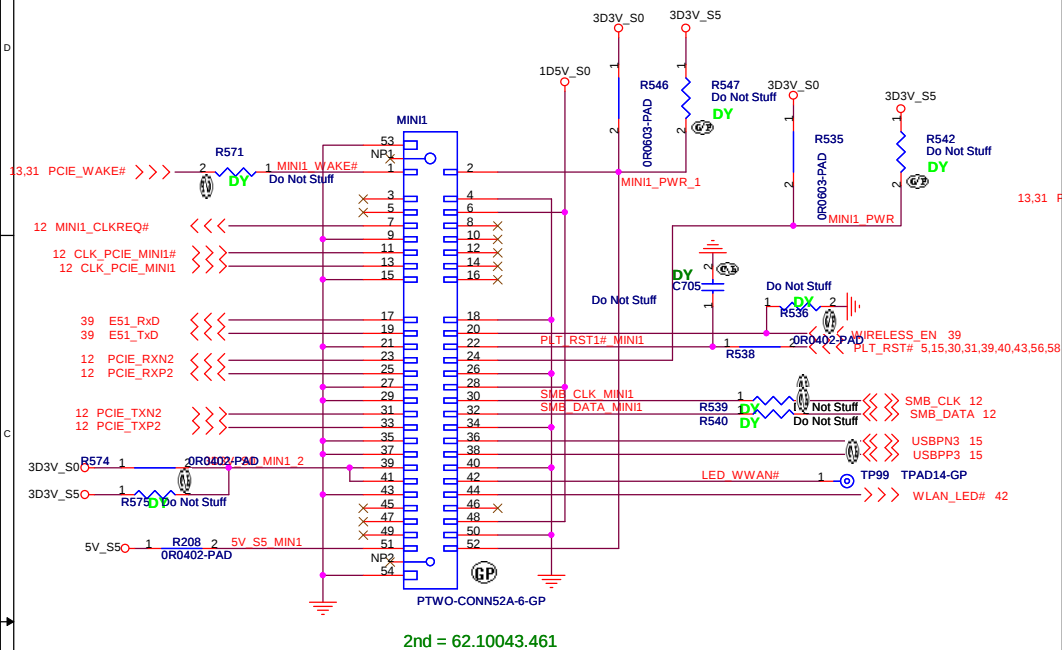
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Date: Tuesday, February 02, 2010

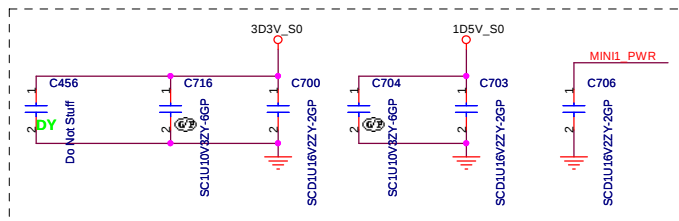
Sheet 36 of 67

Mini Card Connector(WLAN)

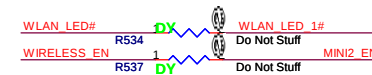
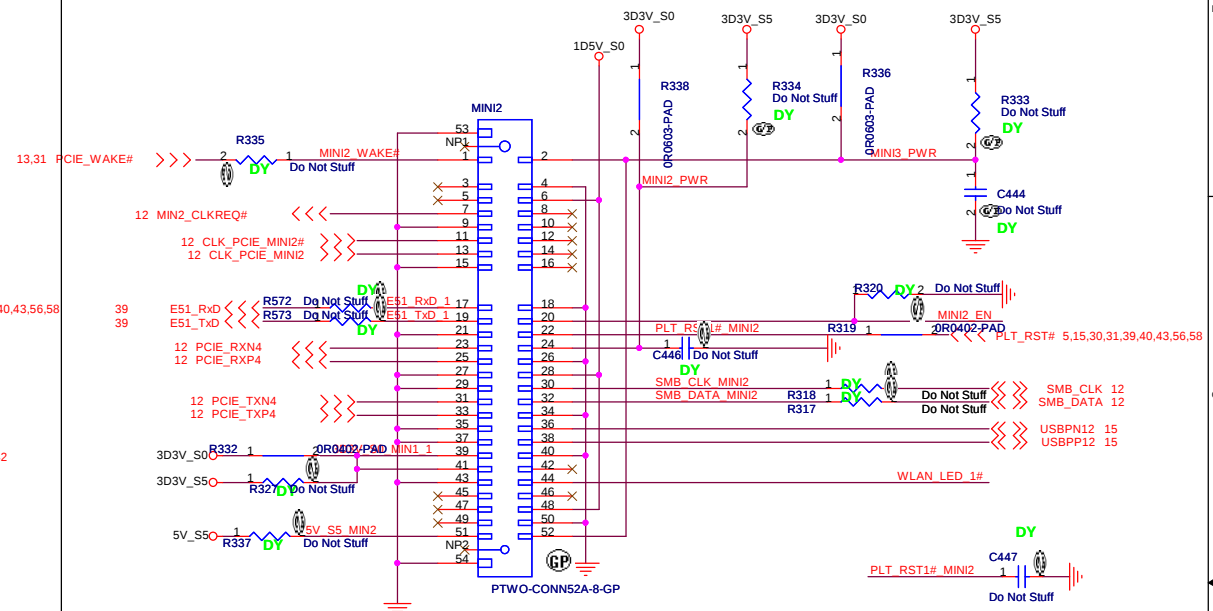
Support debug-card



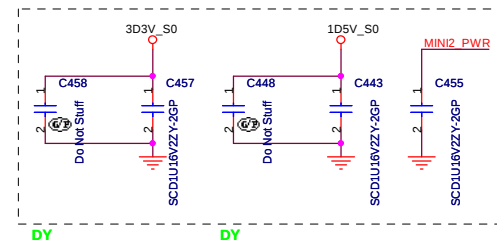
Place near MINI1



Mini Card Connector(Robson2 and 3G)

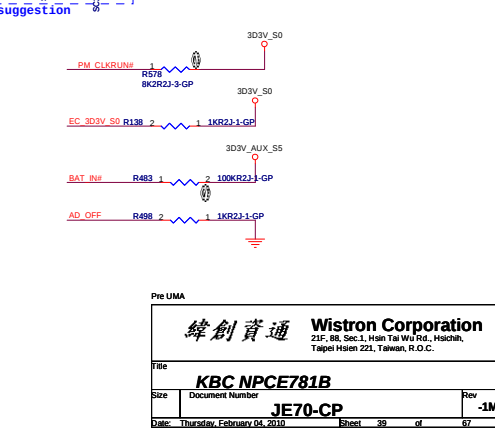
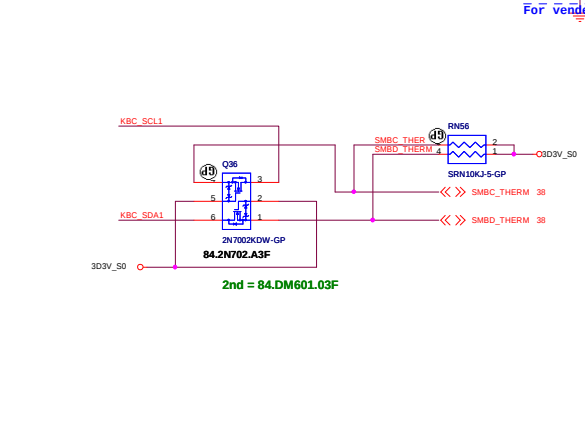
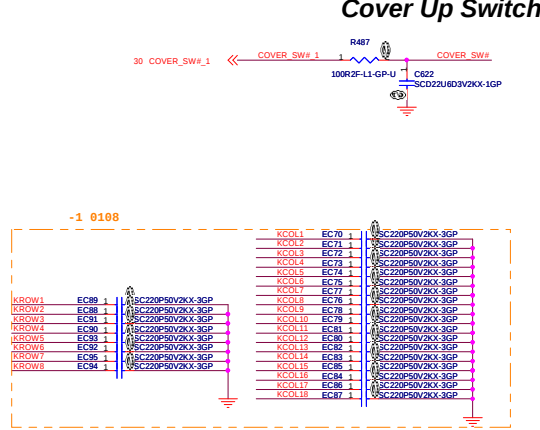
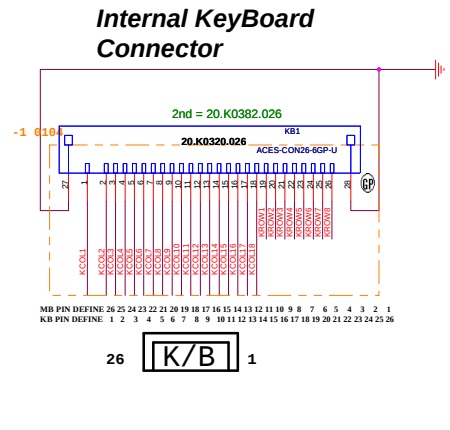
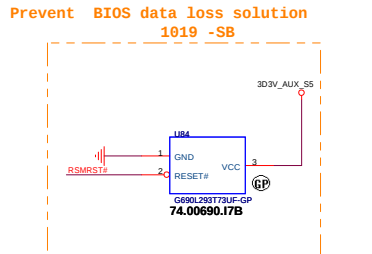
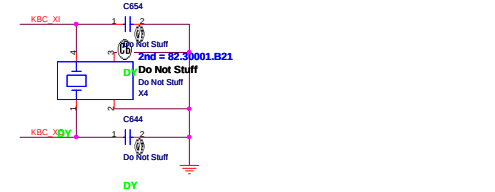
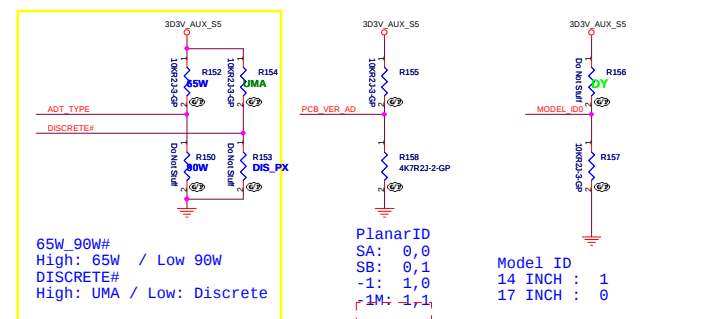
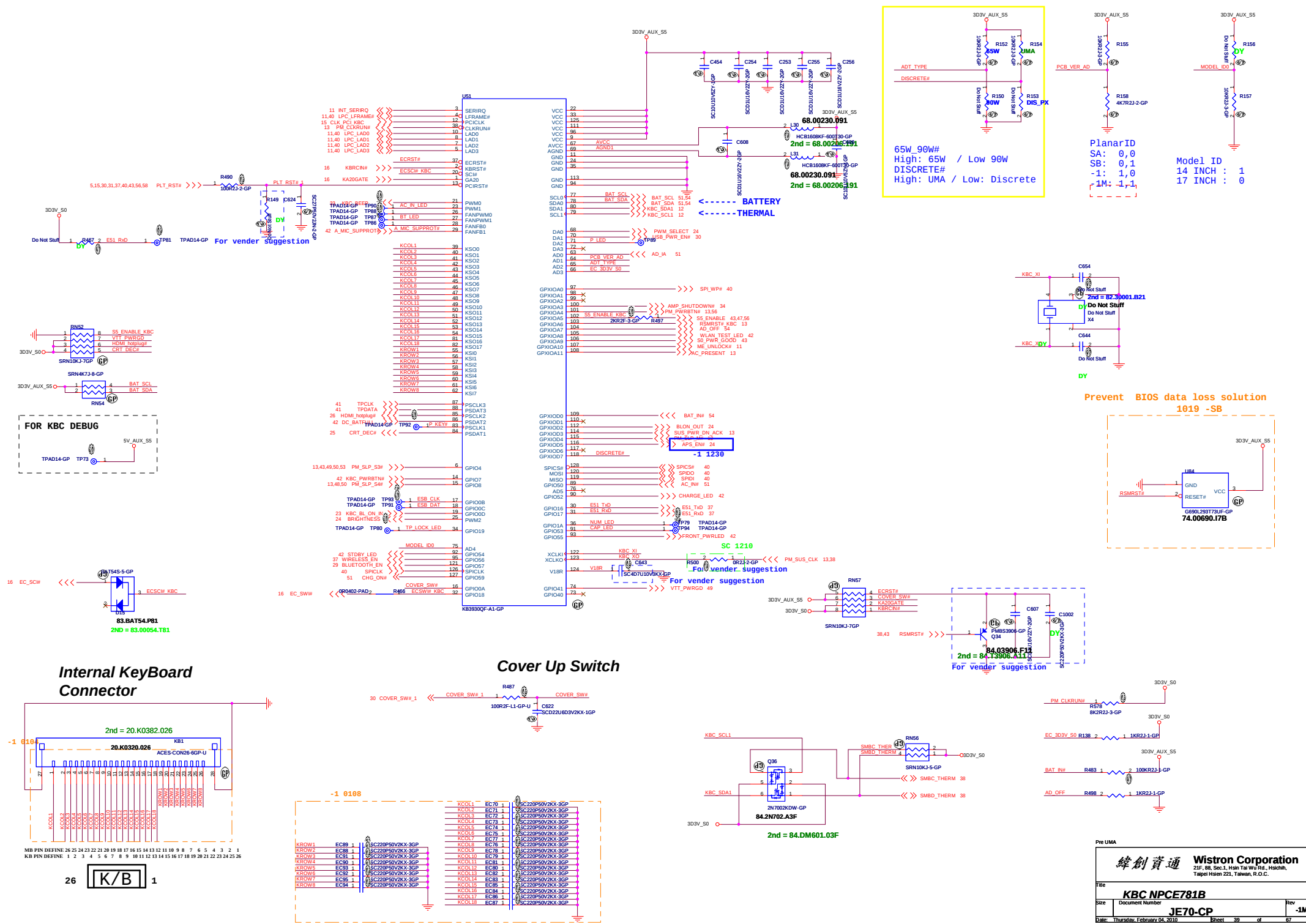


Place near MINIC2

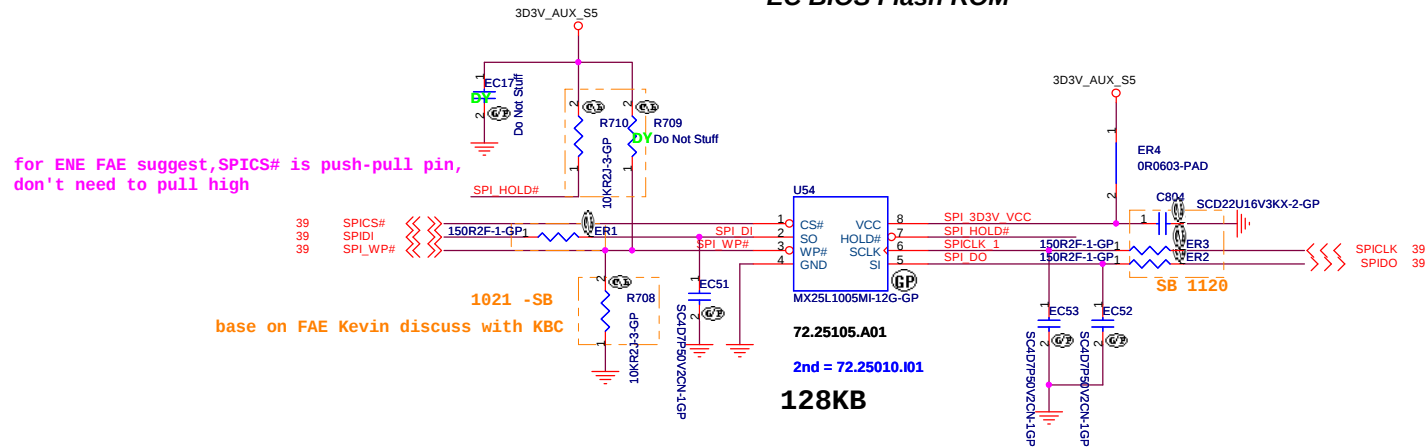


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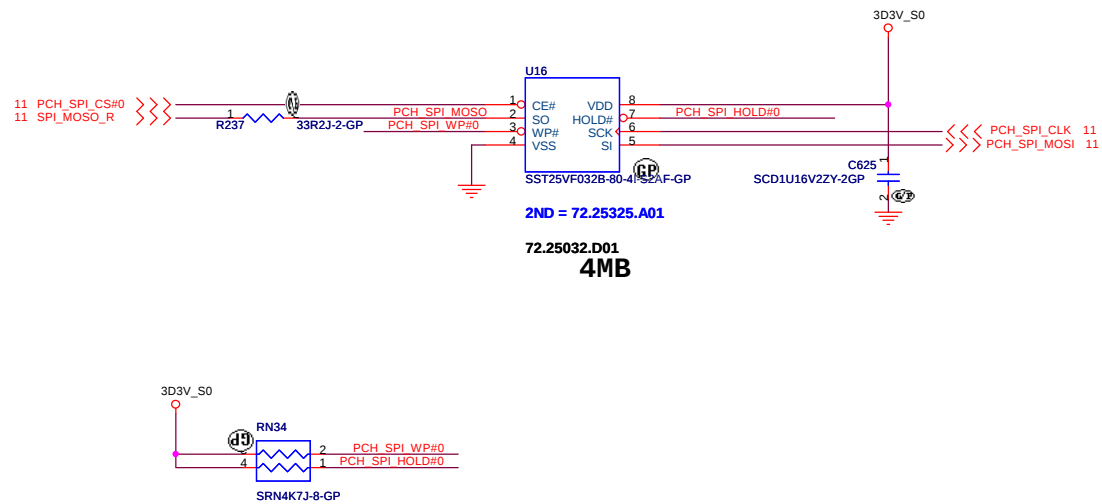
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
MINI CARD	
Size A3	Document Number JE70-CP
Date: Tuesday, February 02, 2010	Rev -1M
Sheet 37 of 67	



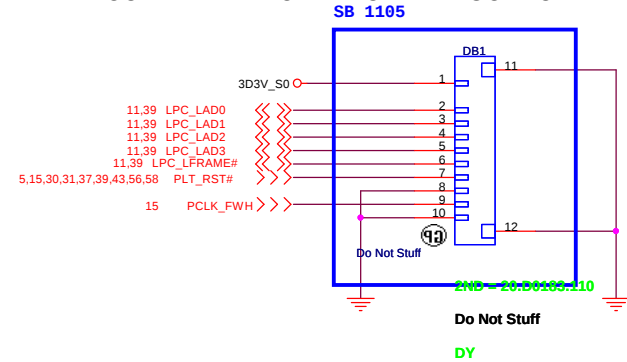
EC BIOS Flash ROM



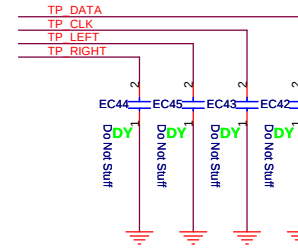
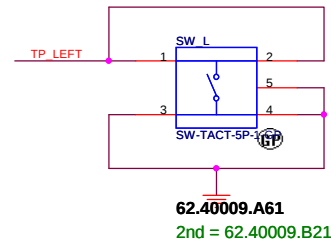
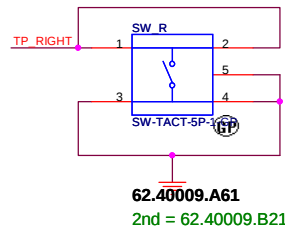
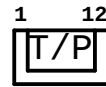
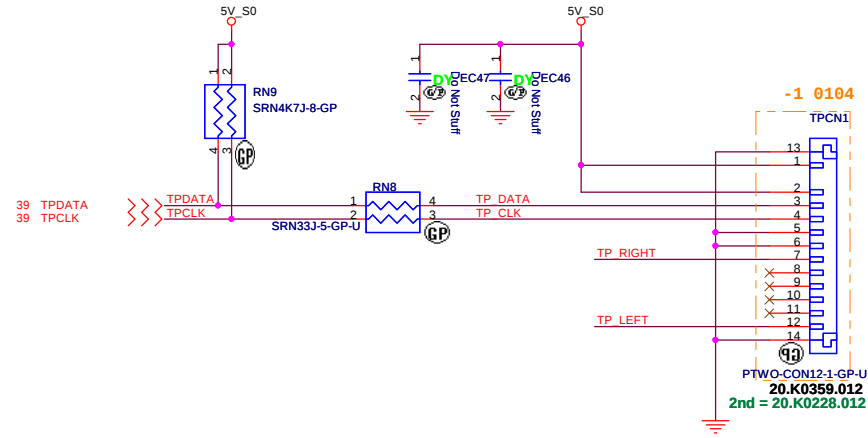
System BIOS Flash ROM



GOLDEN FINGER FOR DEBUG BOARD

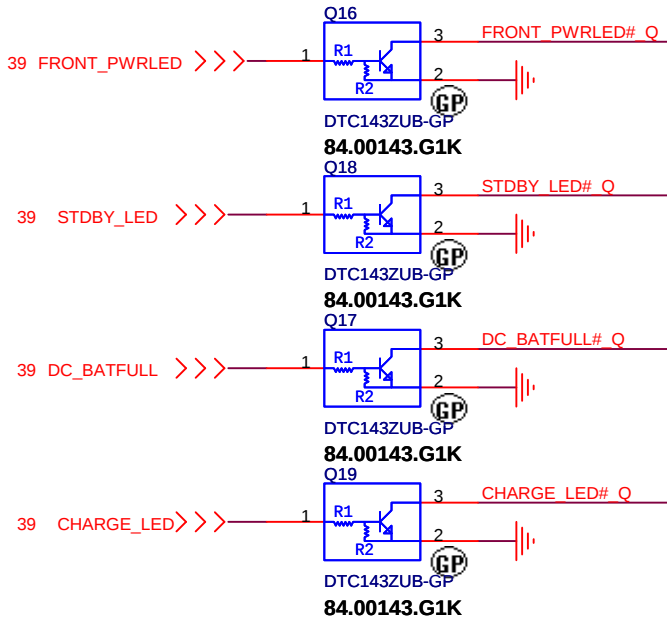


TOUCH PAD



Pre UMA

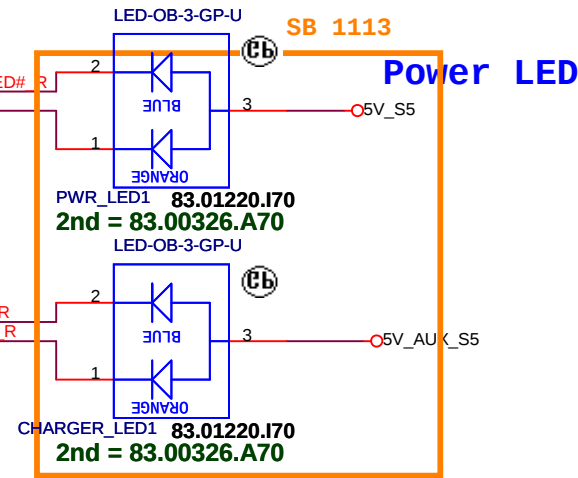
LED



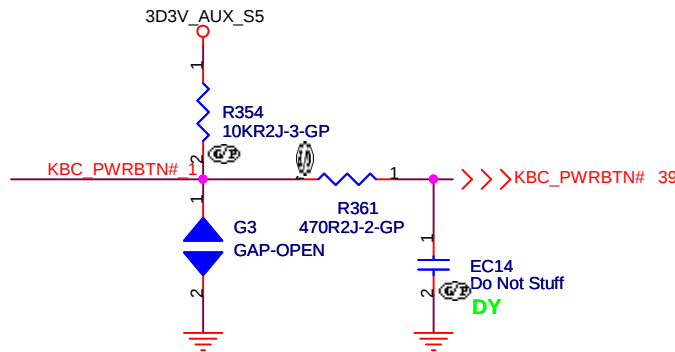
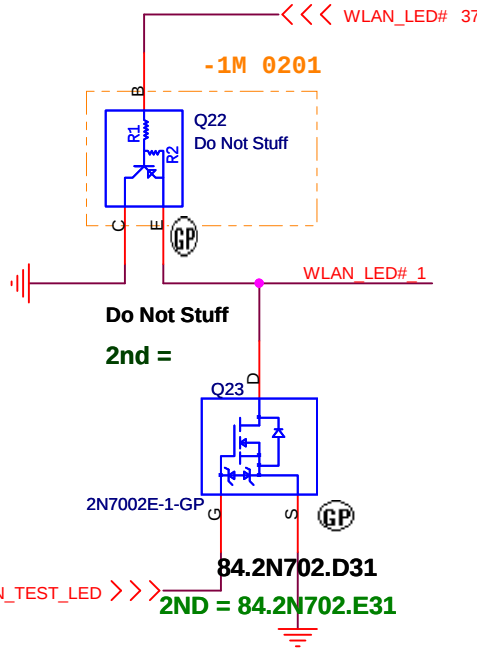
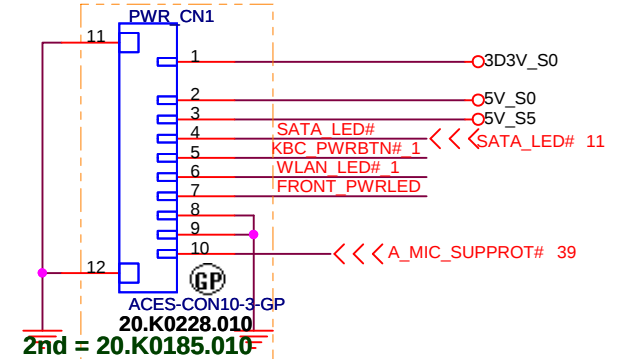
FRONT_PWRLED# Q 1 R340 330R2F-GP
STDBY_LED# Q 1 R343 330R2F-GP
DC_BATFULL# Q 1 R341 330R2F-GP
CHARGE_LED# Q 1 R344 330R2F-GP

FRONT_PWRLED# Q 1 DY EC22 Do Not Stuff
CHARGE_LED# Q 1 DY EC25 Do Not Stuff
STDBY_LED# Q 1 DY EC24 Do Not Stuff
DC_BATFULL# Q 1 DY EC23 Do Not Stuff

-1 0107



-1 0104



SATA_LED# EC34 2 DY Do Not Stuff
KBC_PWRBTN# 1 EC33 DY Do Not Stuff
WLAN_LED# 1 EC35 DY Do Not Stuff
FRONT_PWRLED EC36 DY Do Not Stuff

Pre UMA

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

Title

LED&POWERBD CONN

Size

Document Number

JE70-CP

Rev

-1M

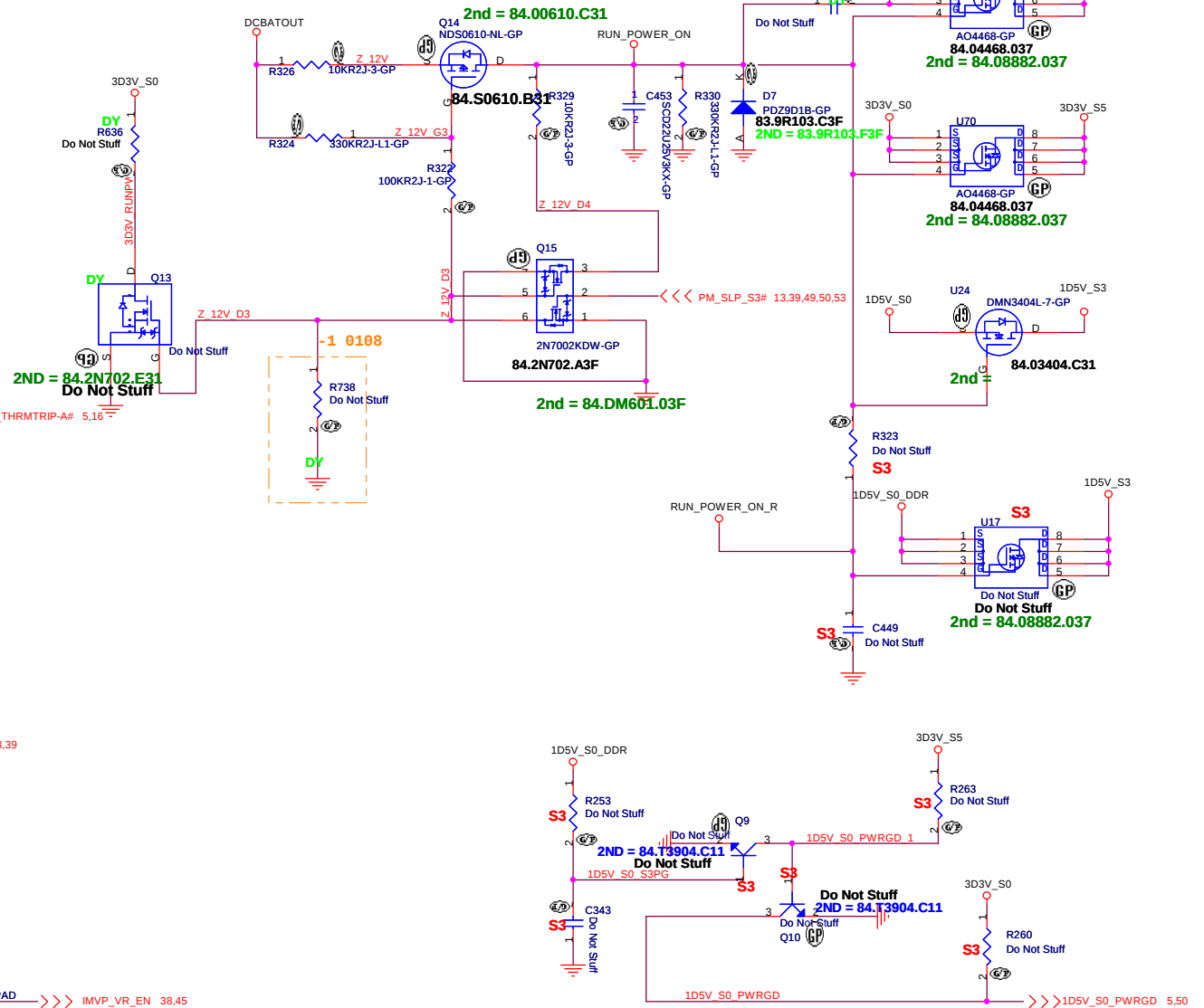
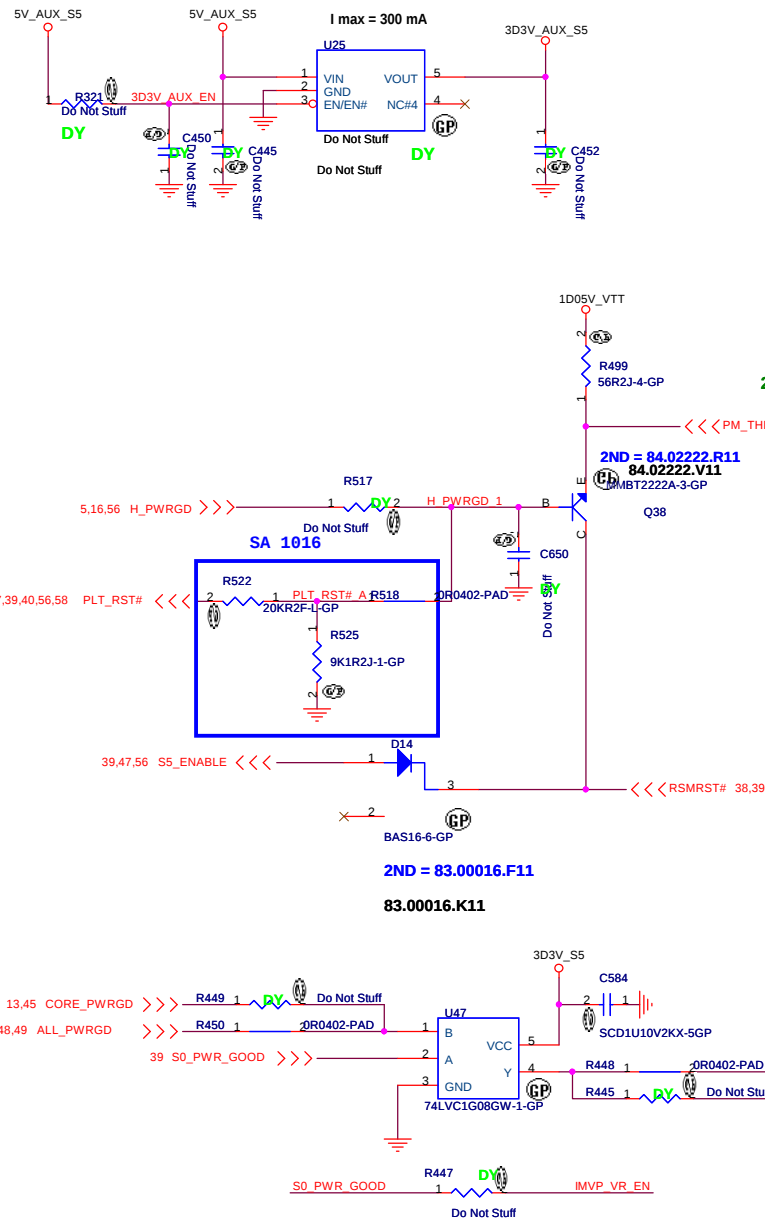
Date: Tuesday, February 02, 2010

Sheet 42 of 67

Run Power

Aux Power

3D3V_AUX_S5



Pre UMA

緯創資通

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

	Title
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RUN POWER and 3D3V AUX S5

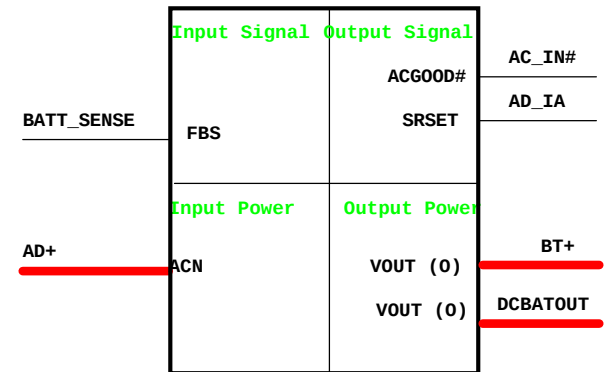
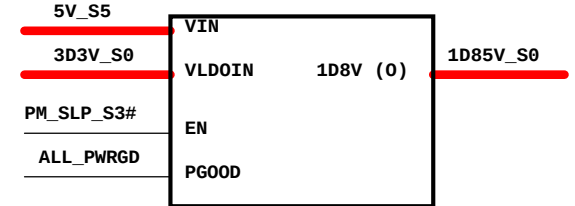
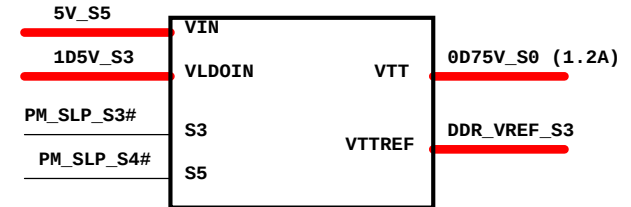
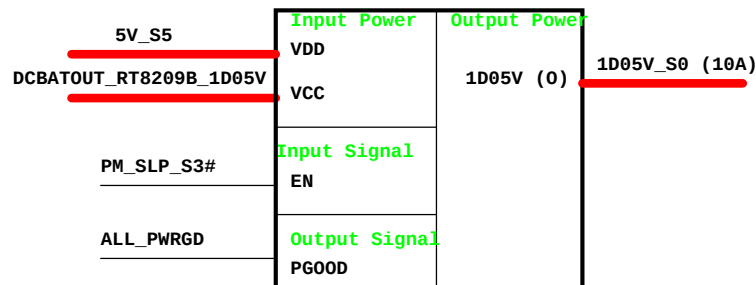
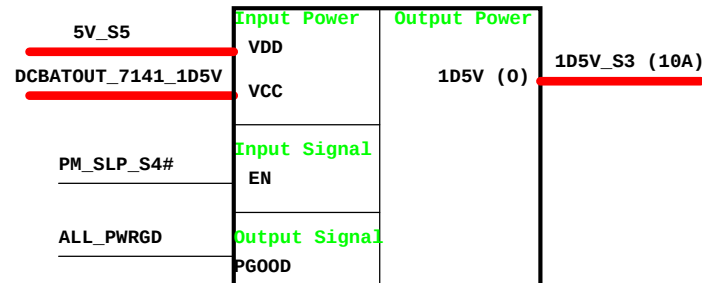
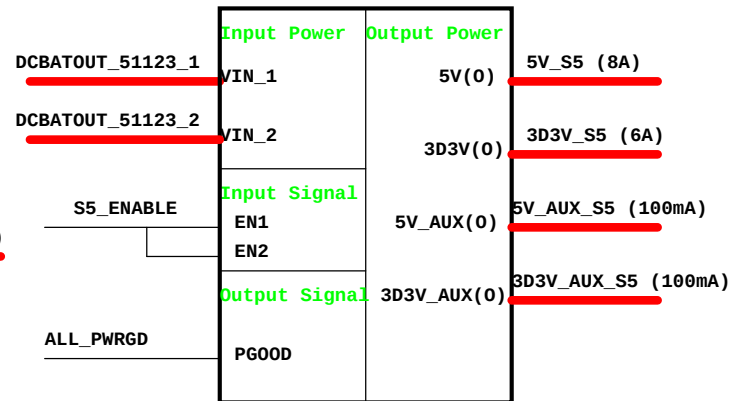
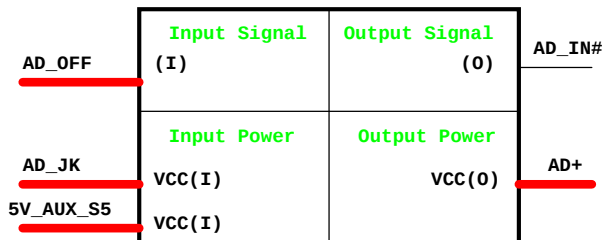
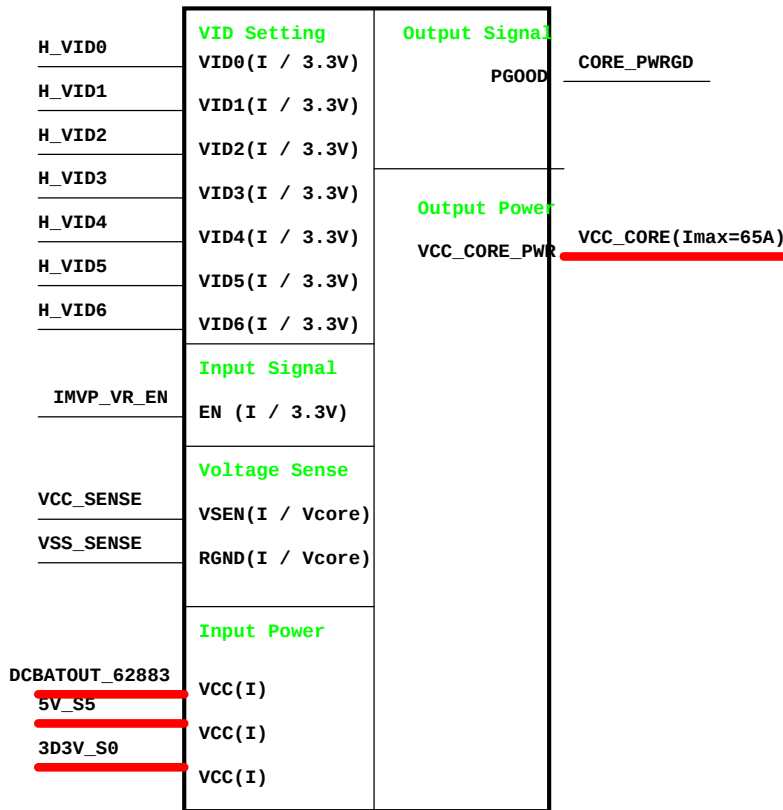
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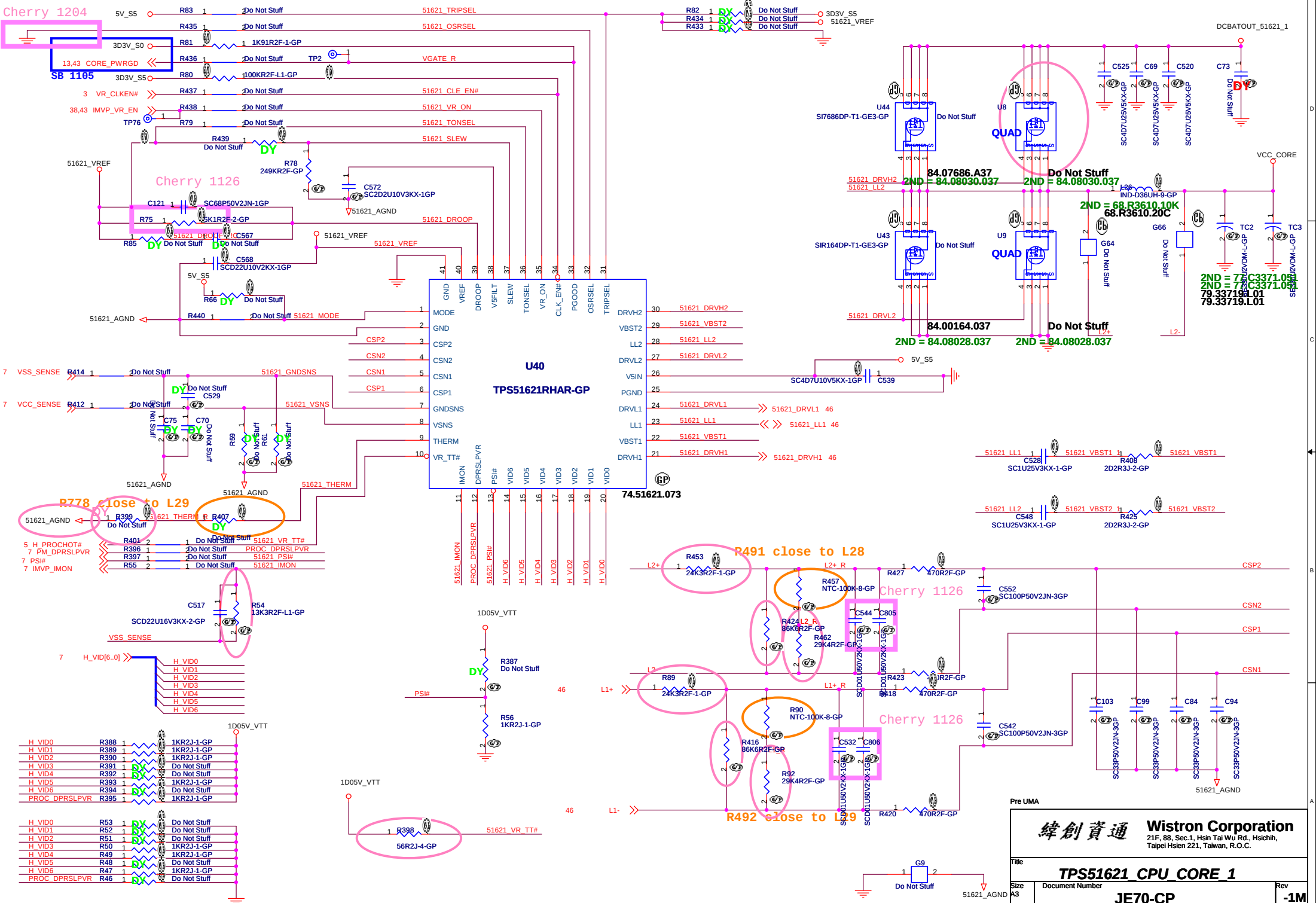
JE70-CP

-1M

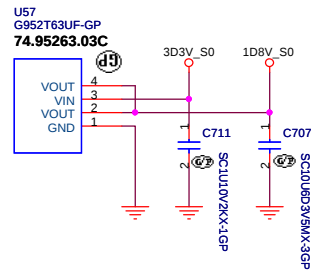
Date: Tuesday, February 02, 2010

Sheet 43 of 67



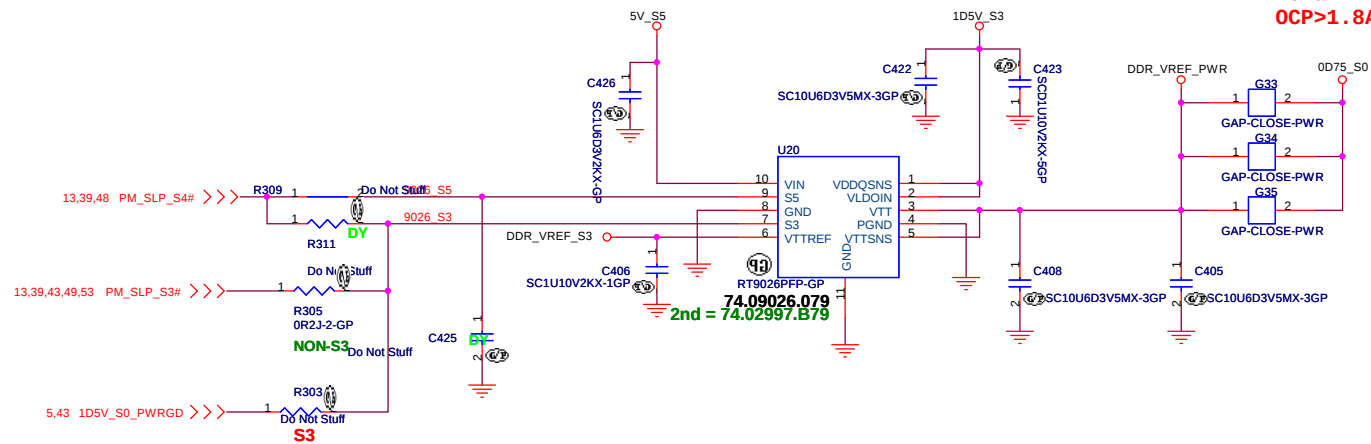


1.8V_S0 1.8V 1A Regulator



RT9026 for 0D75V_S3

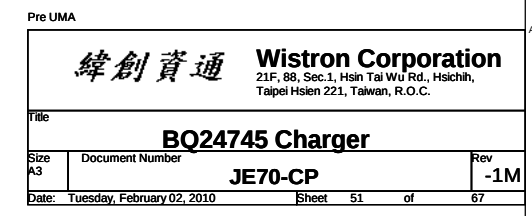
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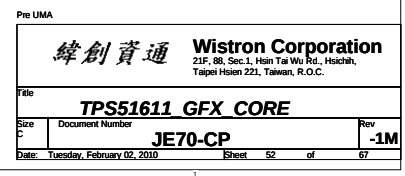


Pre UMA

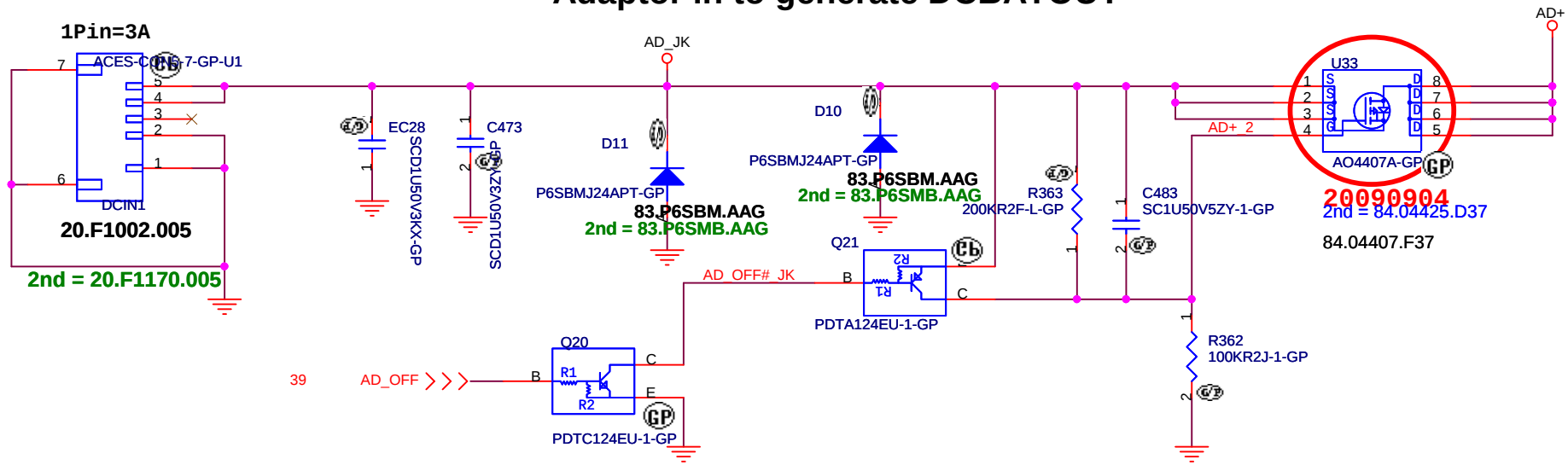
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title		RT8015A for 1D8V/RT9026 0D75	
Size	Document Number	Rev	-1M
Date: Tuesday, February 02, 2010		Sheet 50 of 67	

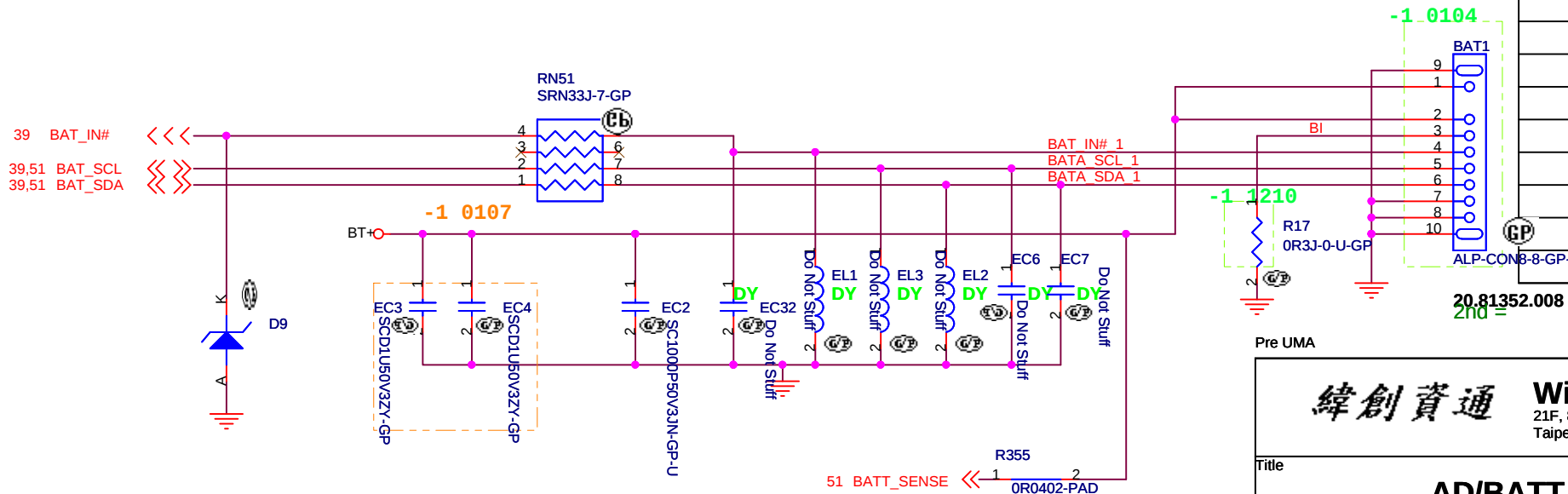




Adaptor in to generate DCBATOUT



BATTERY CONNECTOR



Pin NO	Symbol
1	GND
2	GND
3	SMD
4	SMC
5	TS
6	B/I
7	BT+
8	BT+

Pre UMA

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

Title

AD/BATT CONN

Size

Document Number

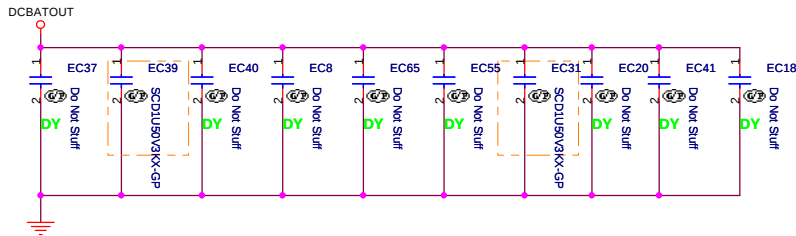
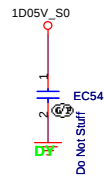
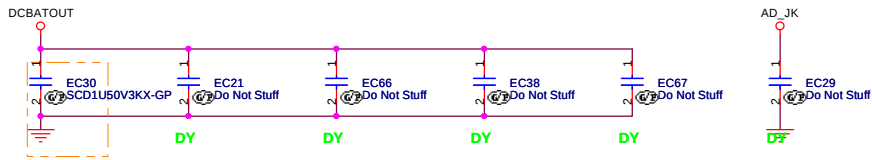
JE70-CP

Rev

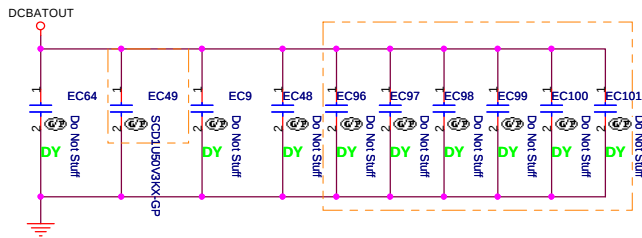
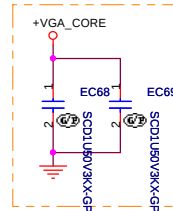
-1M

Date: Tuesday, February 02, 2010

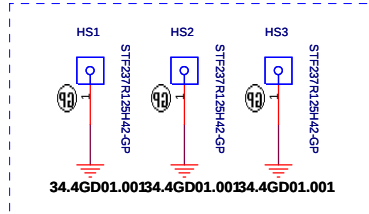
Sheet 54 of 67



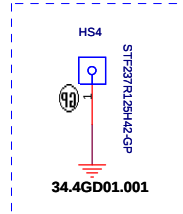
SB 1120



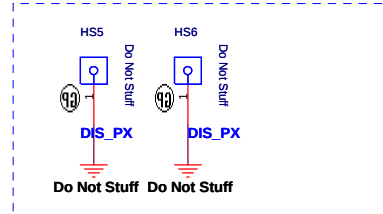
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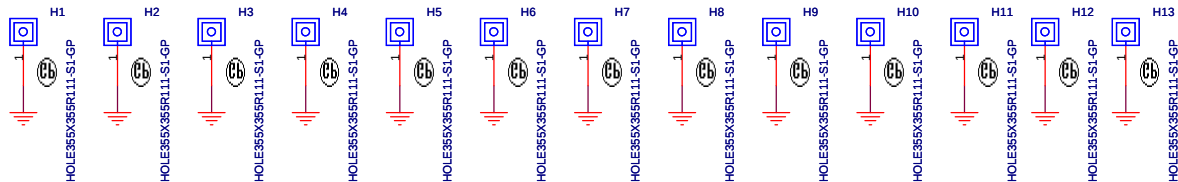
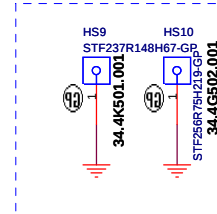
PCH



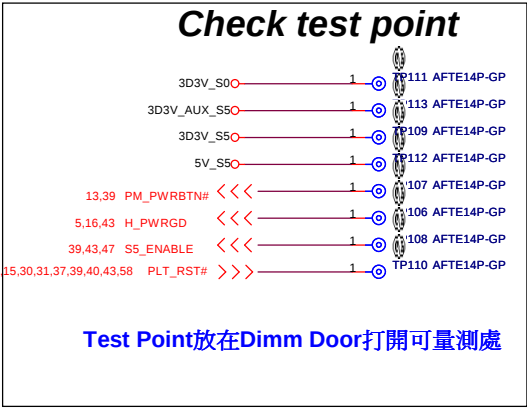
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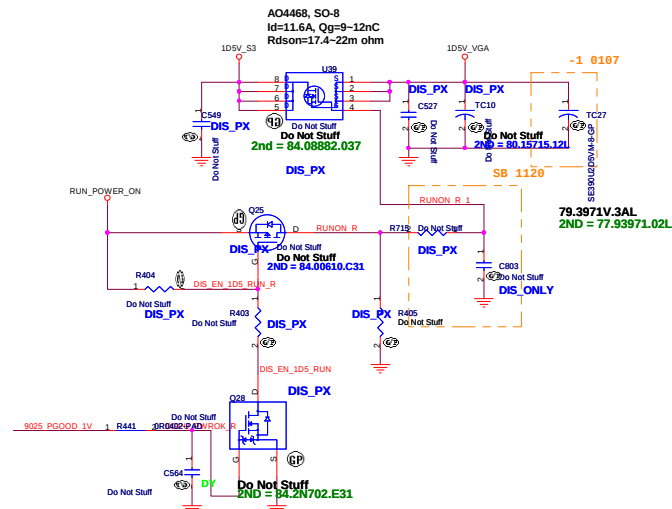
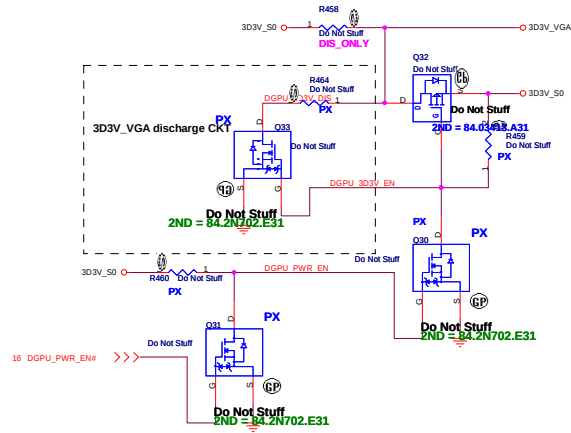
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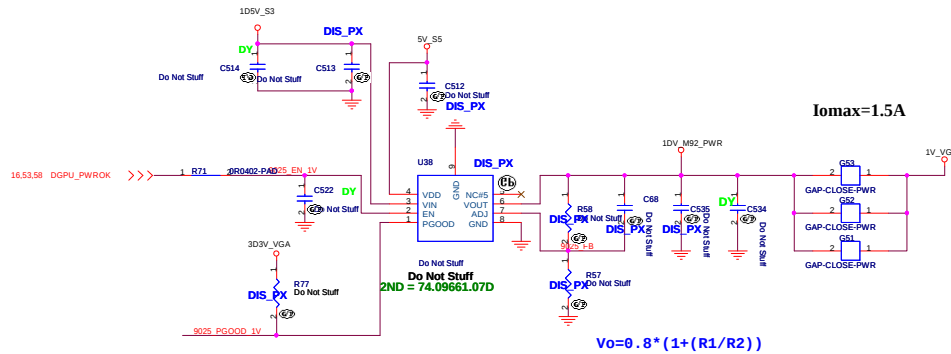
Pre UMA



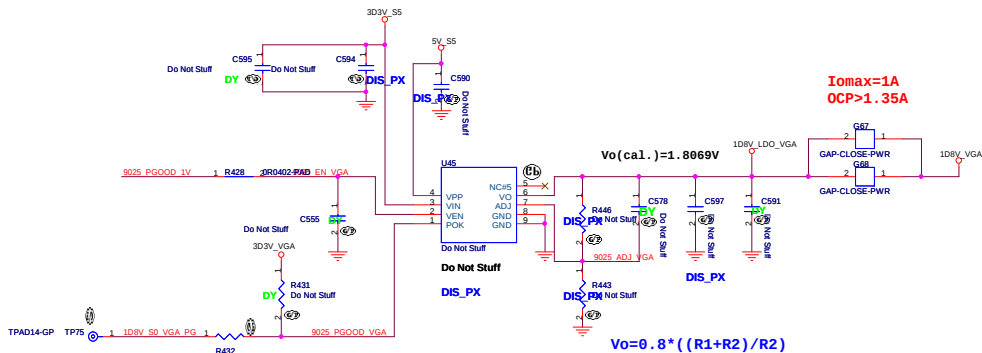
+3VS to 3.3V_DELAY Transfer



RT9025 for 1V_VGA

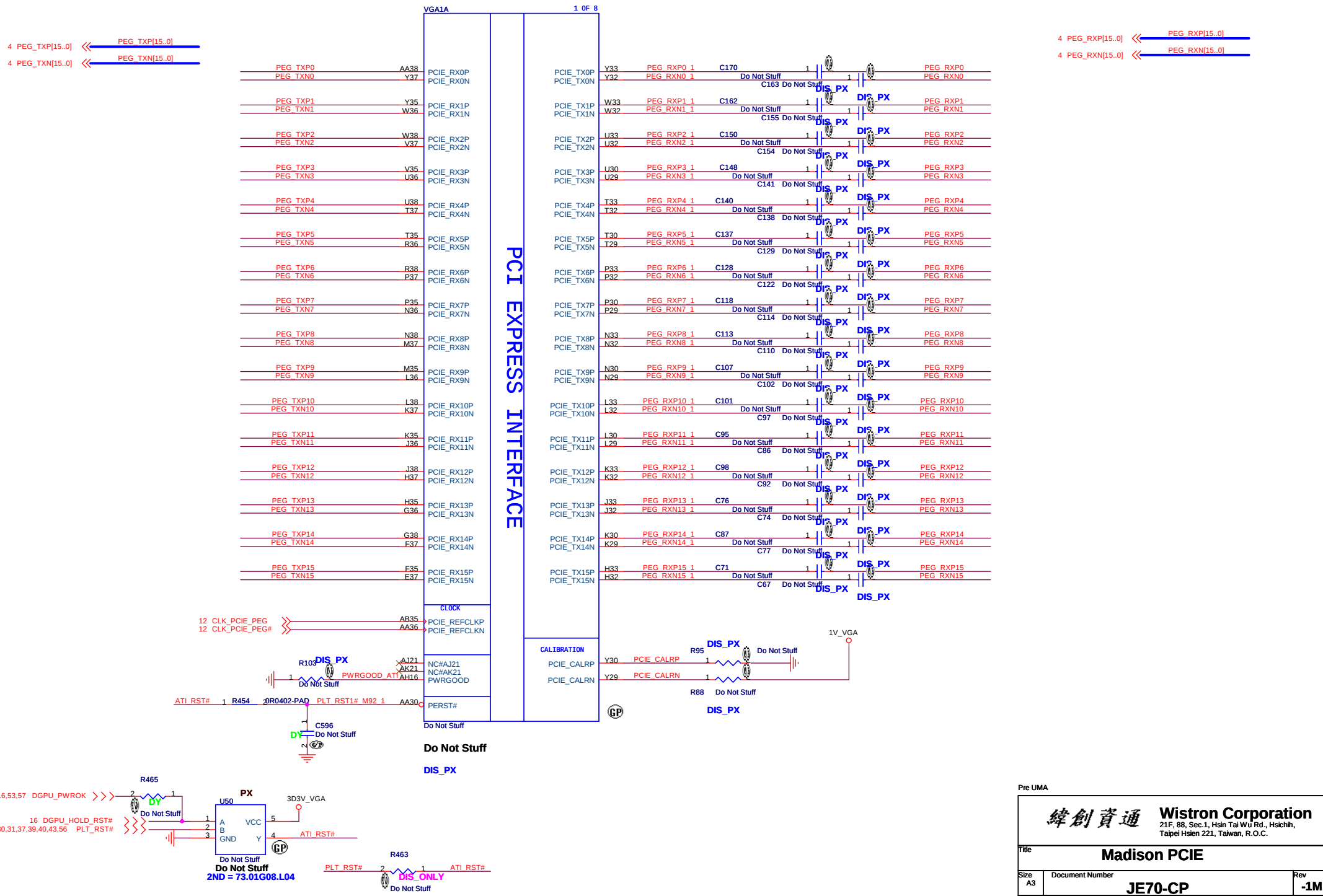


G9661 for 1D8V_VGA

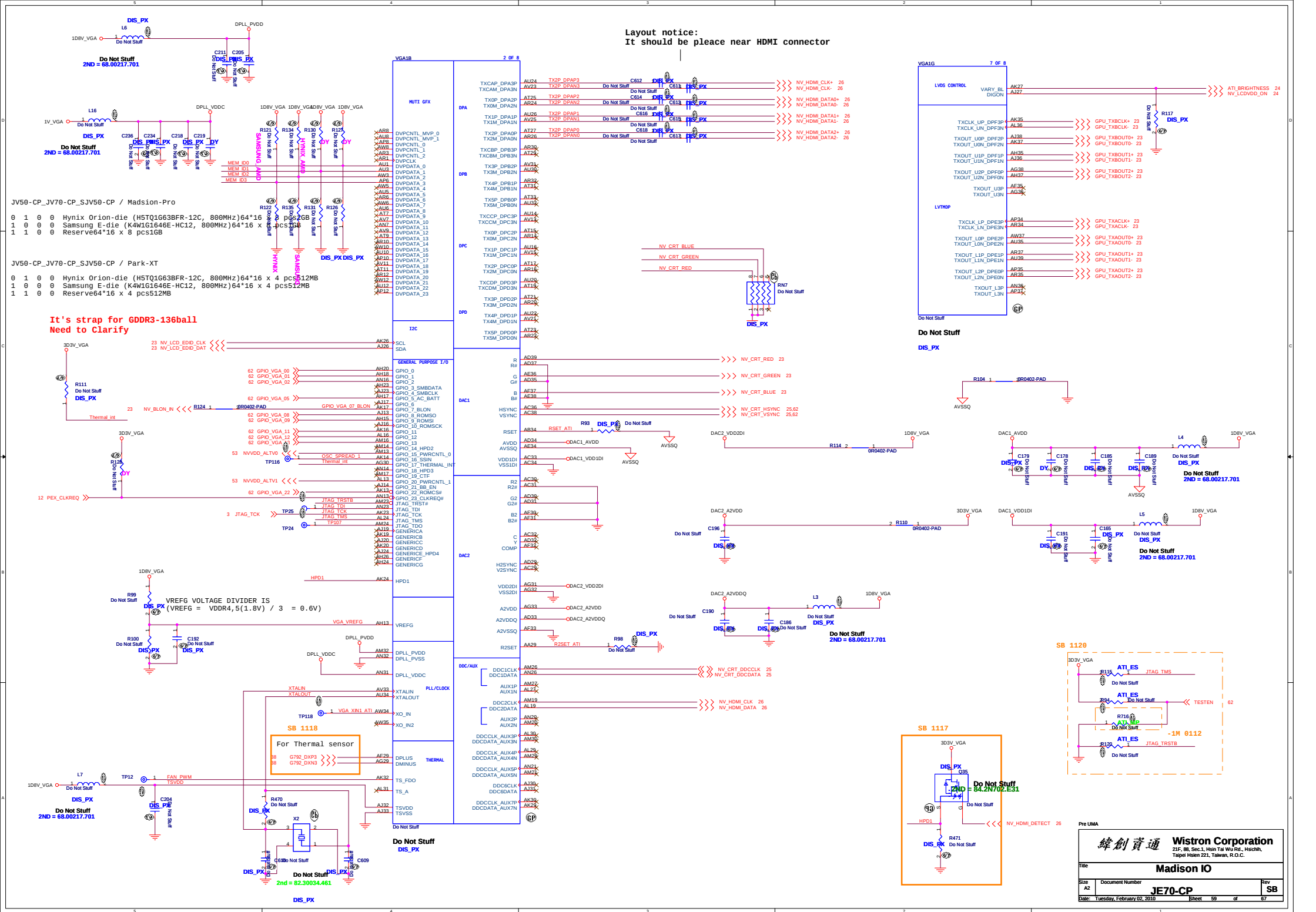


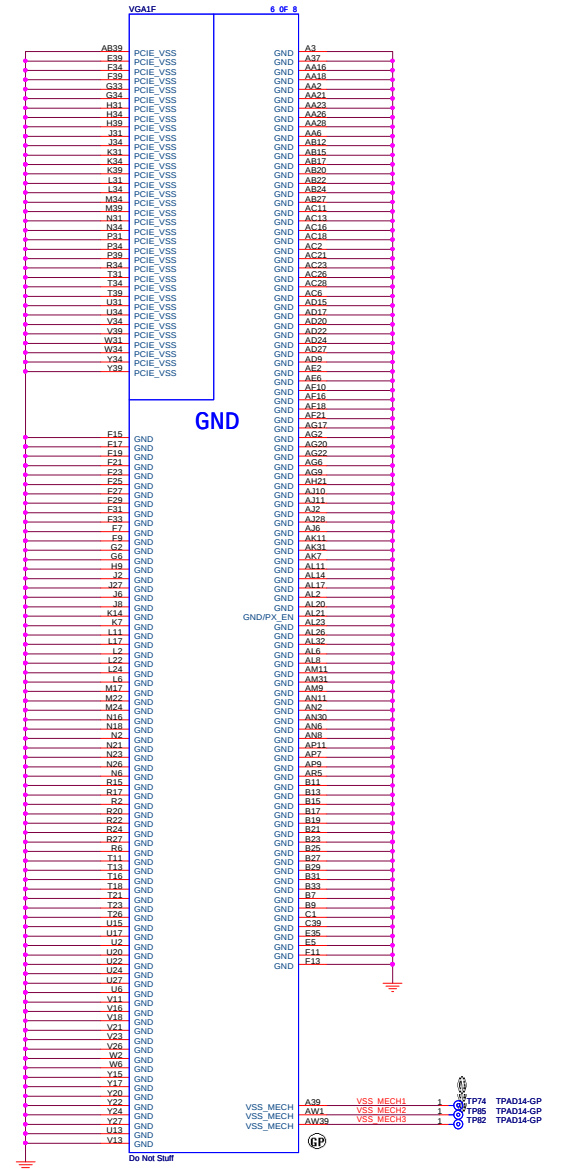
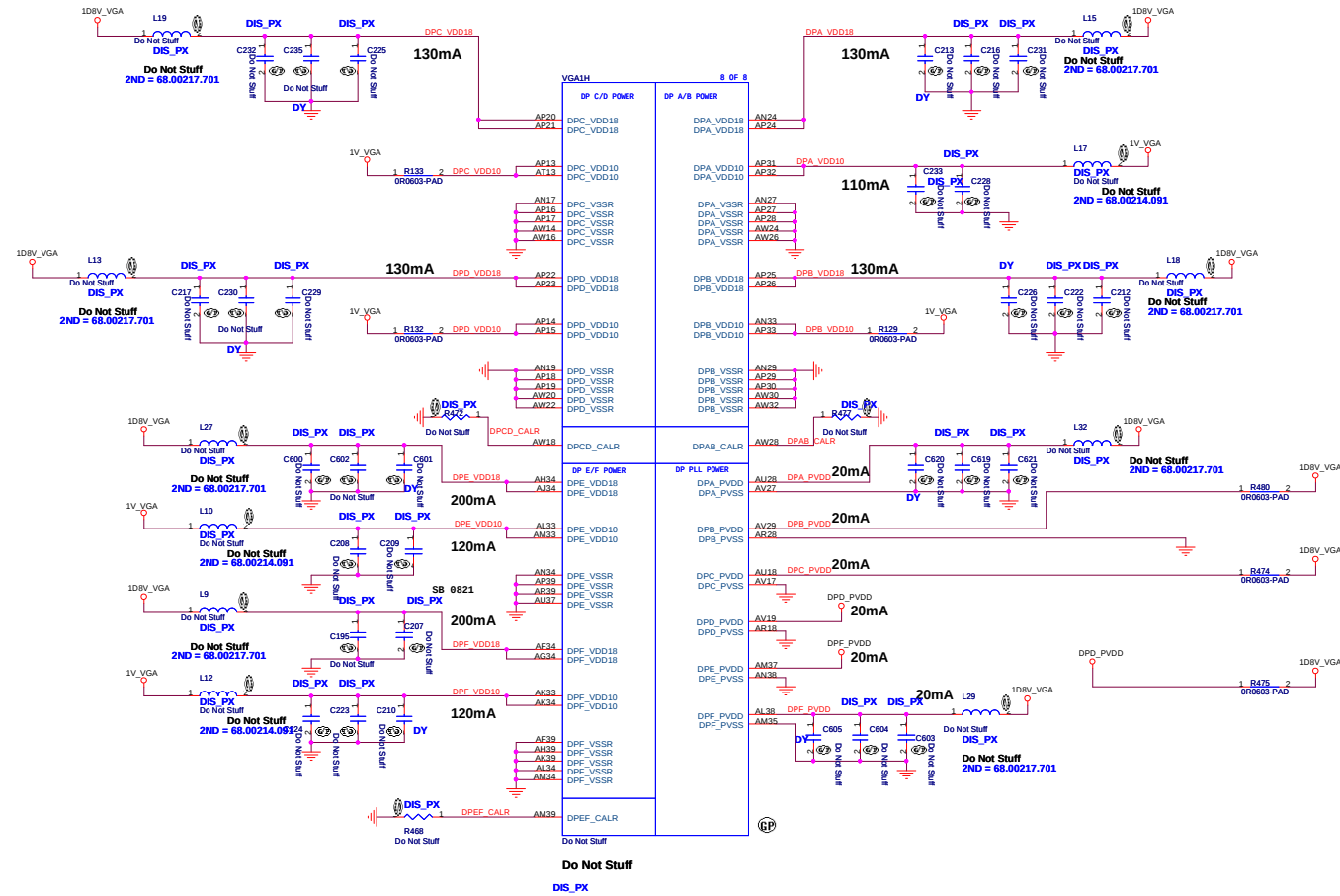
Pre UMA

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ATI POWER	
Size A2	Document Number JE70-CP
Date: Tuesday, February 02, 2010	Sheet 57 of 57

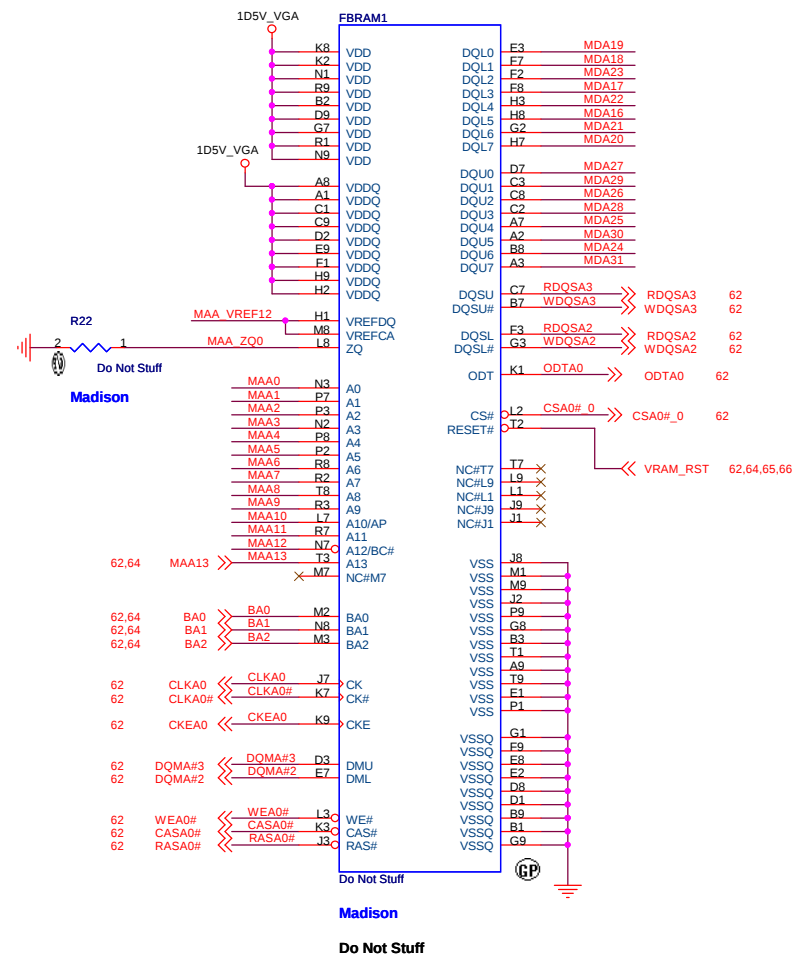


Layout notice:
It should be please near HDMI connector

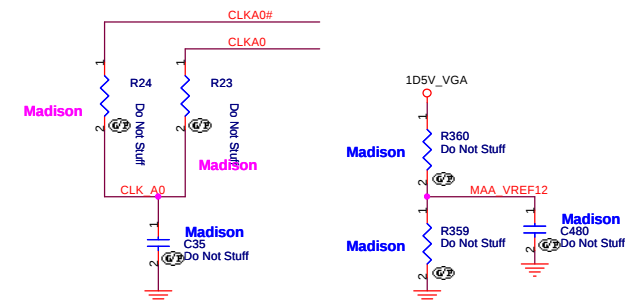
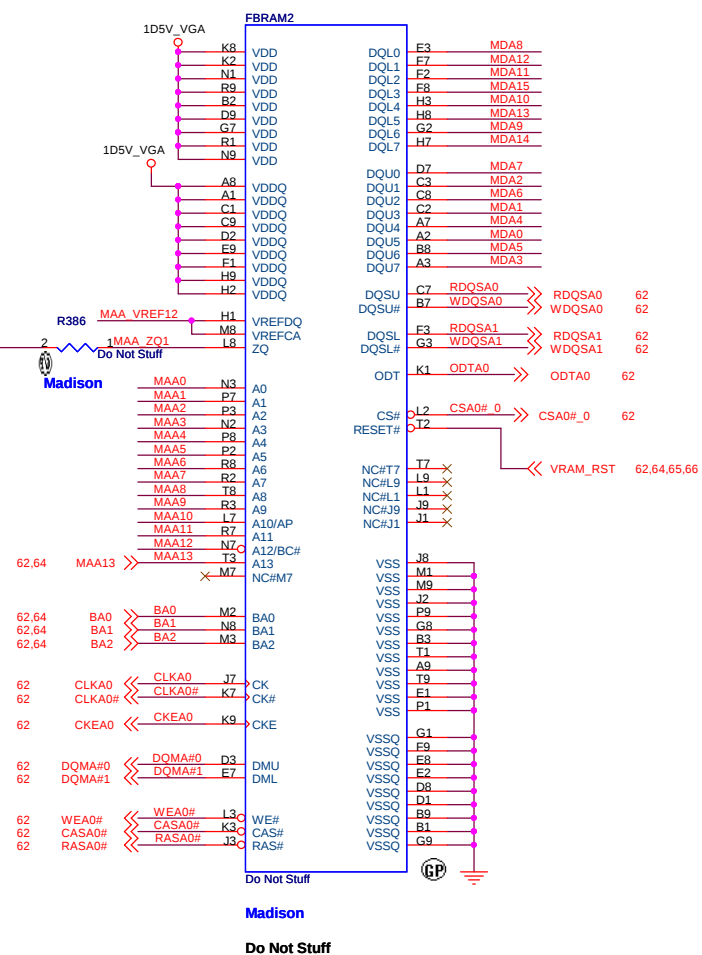




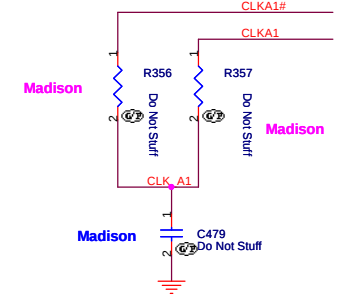
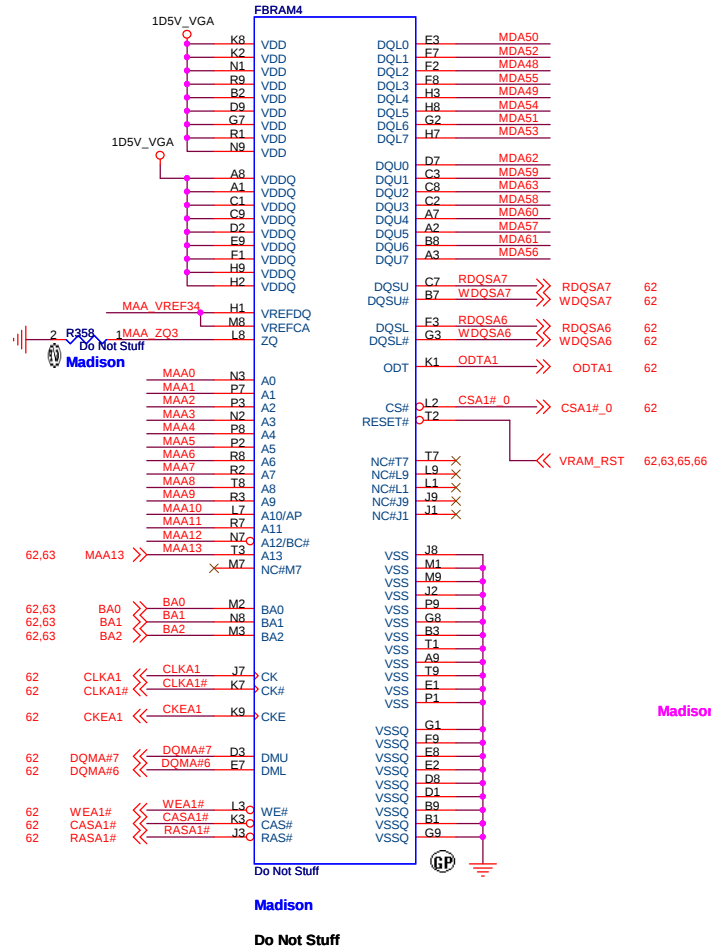
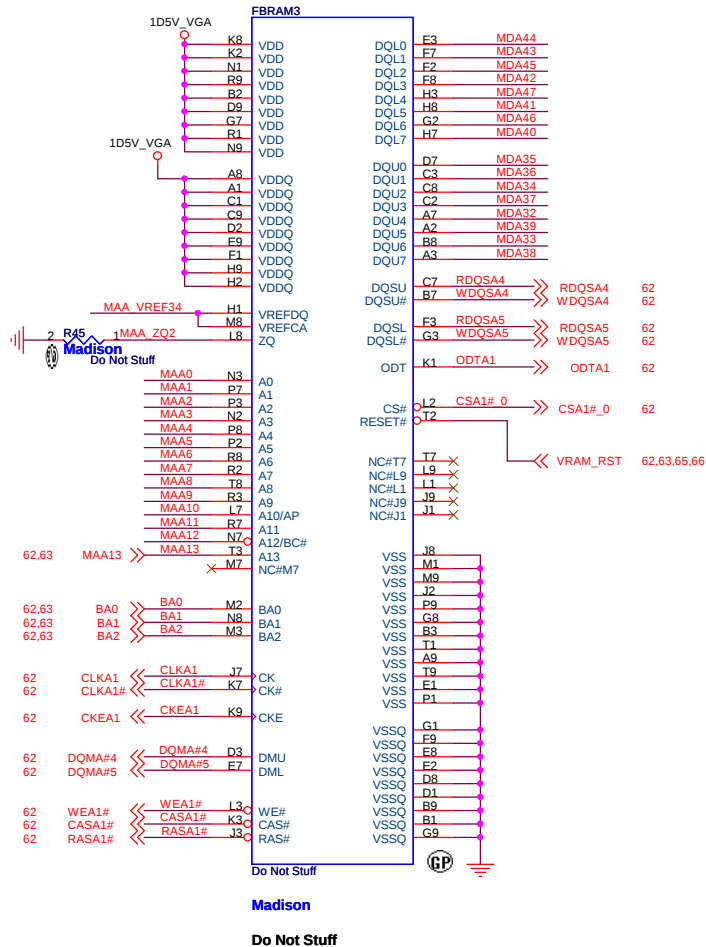
DDR3



SAMSUNG: 72.41164.H0U
HYNIX: 72.51G63.C0U



DDR3



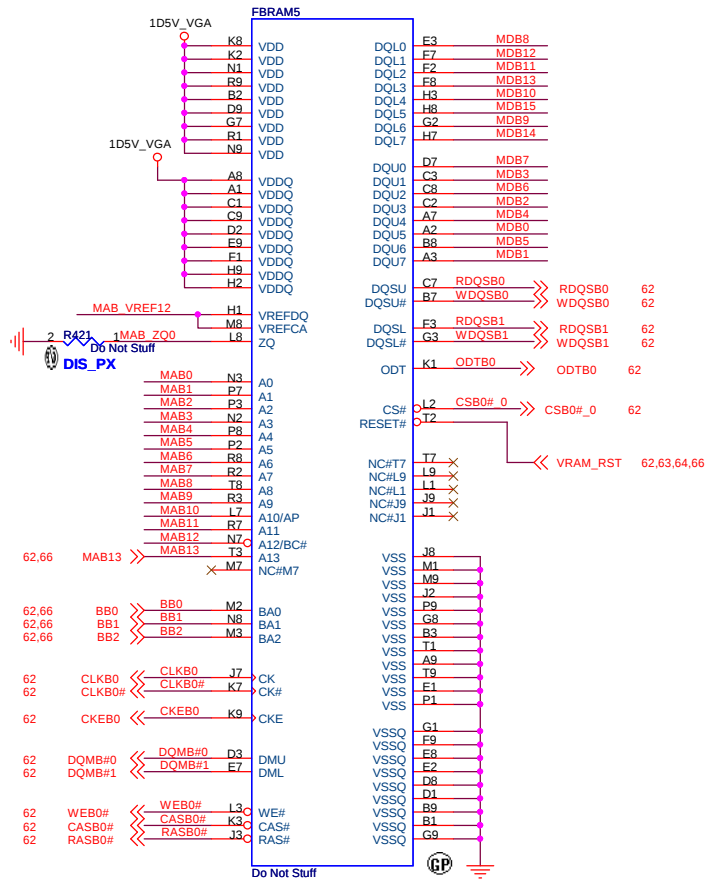
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62,63 WDQSA#[0..7] <<>>
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62,63 MDA[0..63] <<>> MDA[0..63]

Pre UMA

緯創資通 Wistron Corporation		
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Title VRAM(2/4)		
Size A3	Document Number JE70-CP	Rev -1M
Date: Tuesday, February 02, 2010	Sheet 64	of 67

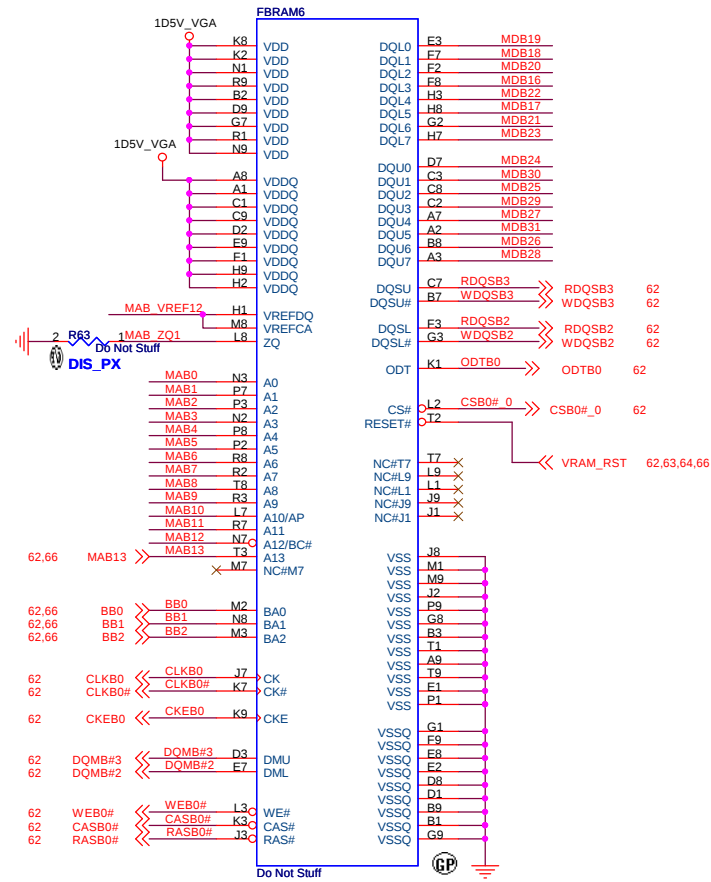
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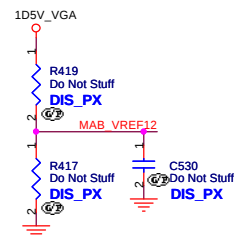
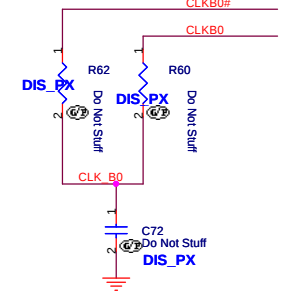
Do Not Stuff

SAMSUNG: 72.41164.H0U
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DIS_PX

Do Not Stuff



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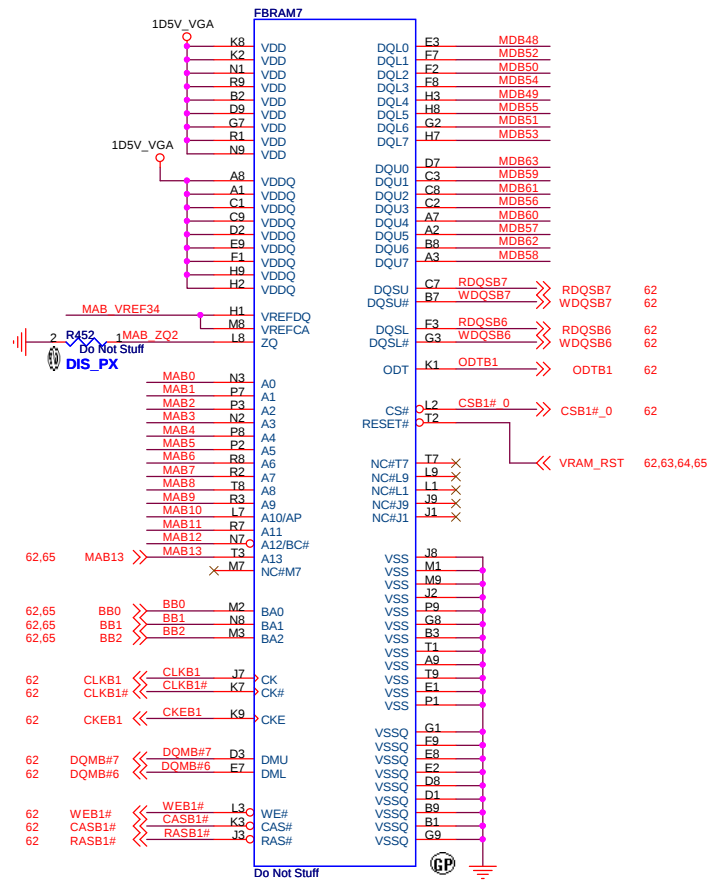
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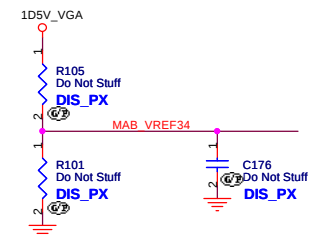
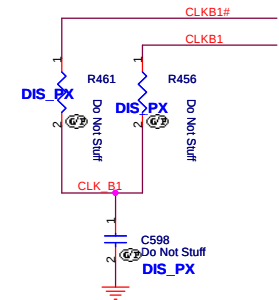
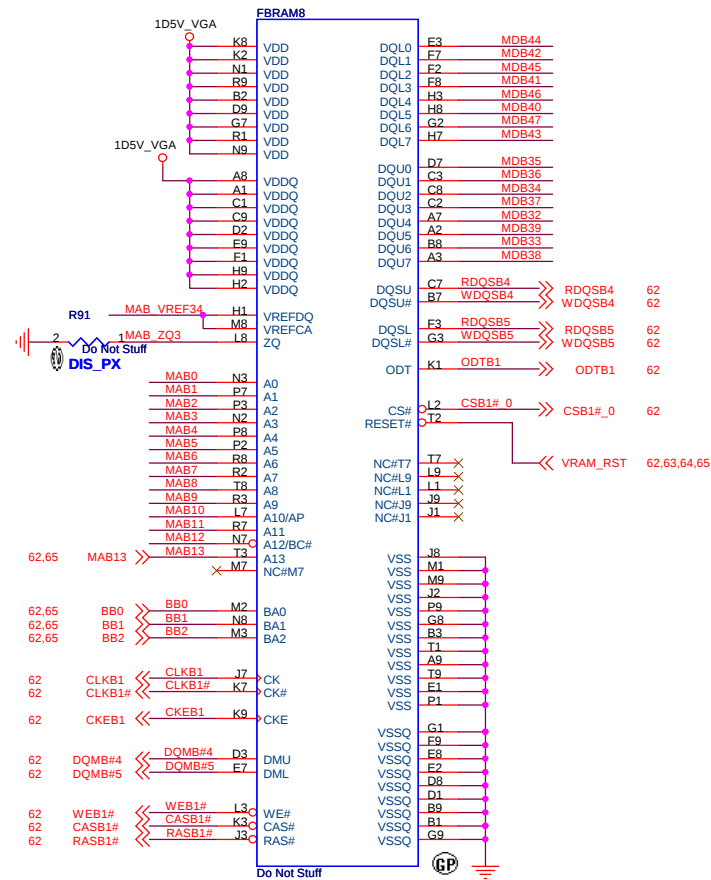
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DDR3



SAMSUNG: 72.41164.H0U
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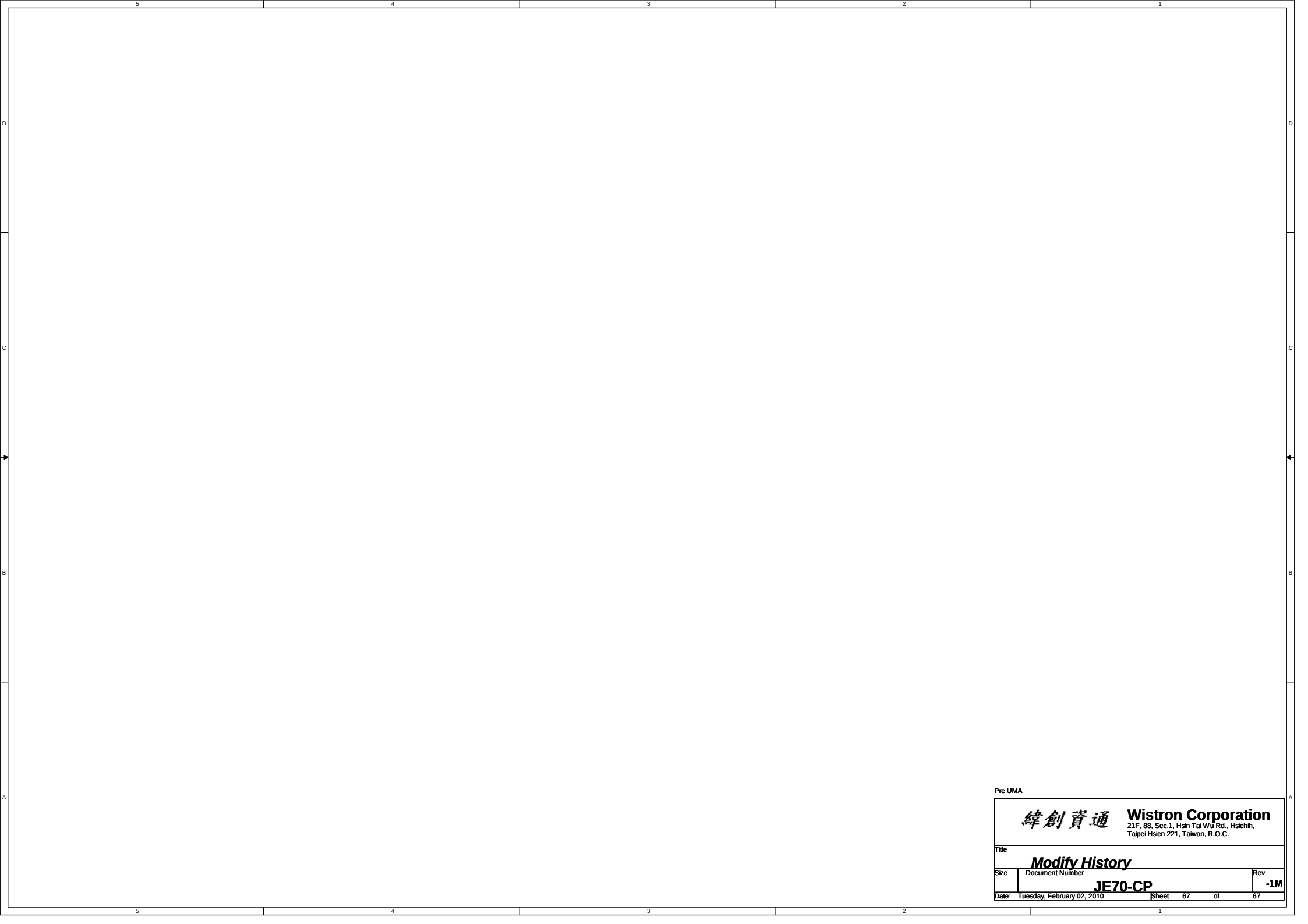
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Pre UMA

緯創資通

Wistron Corporation

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

Title

Modify History

Size

Document Number

Rev

JE70-CP

Date: Tuesday, February 02, 2010

Sheet 67 of 67