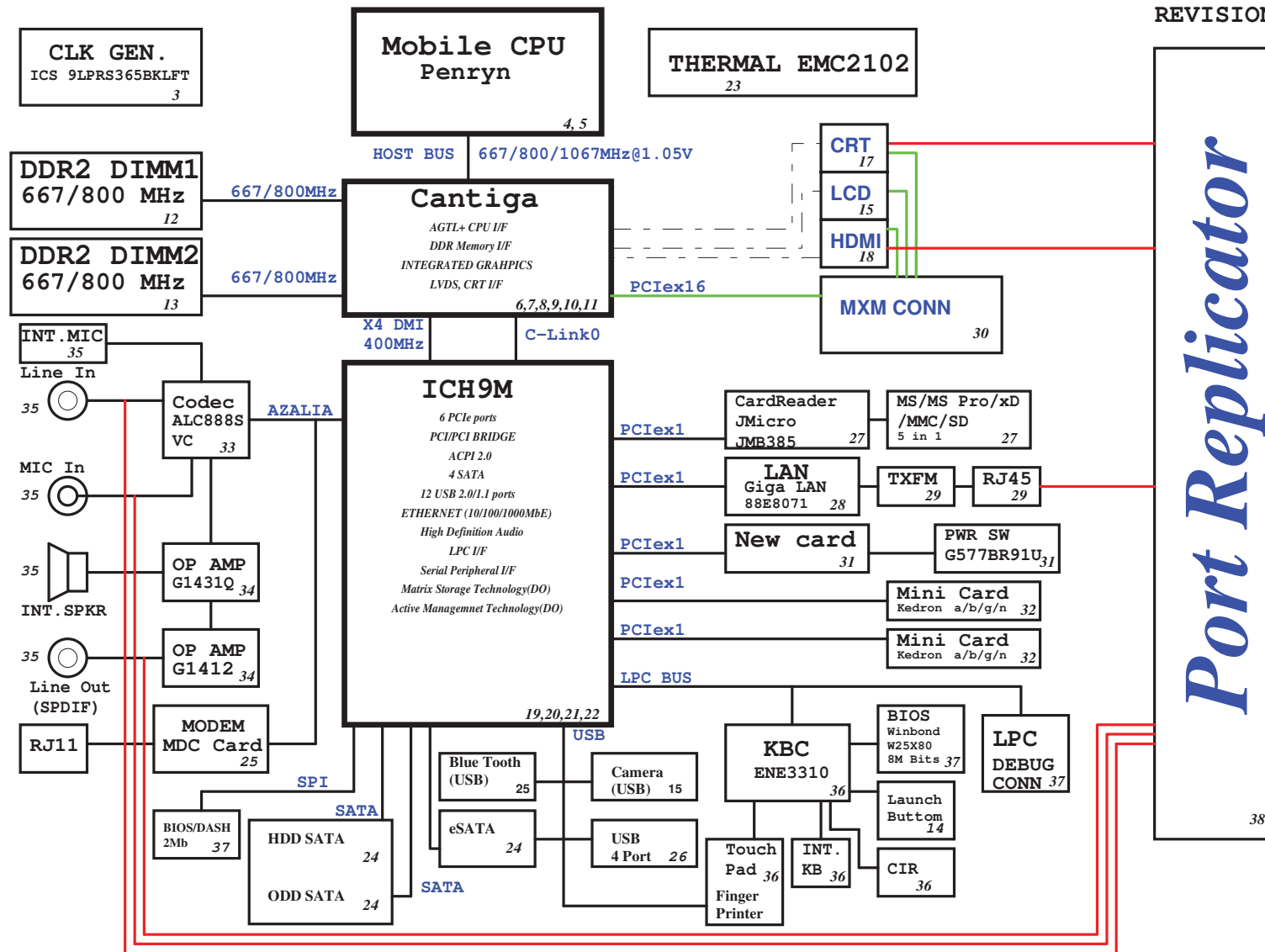


Eiger Block Diagram

Project code: 91.4Z501.001
PCB P/N : 48.4Z501.001
REVISION : 07246- -1



PCB STACKUP

TOP	_____
VCC	=====
S	_____
S	_____
GND	=====
BOTTOM	_____

SYSTEM DC/DC	
TPS51125 43	
INPUTS	OUTPUTS
DCBATOUT	5V_S5 3D3V_S5
SYSTEM DC/DC	
TPS51124 45	
INPUTS	OUTPUTS
DCBATOUT	1D05V_S0 1D8V_S3
RT9026 44	
1D8V_S3	DDR_VREF_S0 DDR_VREF_S3
RT9018A 44	
1D8V_S3	1D5V_S0
G9131 44	
3D3V_S0	2D5V_S0
GFXCORE DC/DC	
ISL6263 46	
INPUTS	OUTPUTS
DCBATOUT	VGFXCORE 0.7~1.25V
CPU DC/DC	
ISL6266A 42	
INPUTS	OUTPUTS
DCBATOUT	VCC_CORE_S0 0.35~1.5V
CHARGER	
BQ24745 47	
INPUTS	OUTPUTS
DCBATOUT	BT+ DCBATOUT

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Title			
BLOCK DIAGRAM			
Size Custom	Document Number		Rev
	Eiger		-1
Date:	Tuesday, April 01, 2008	Sheet 1 of	50

ICH9M Functional Strap Definitions

ICH9 EDS 642879 Rev.1.5 page 92

Signal	Usage/When Sampled	Comment
HDA_SDOUT	XOR Chain Entrance/ PCIE Port Config1 bit1, Rising Edge of PWROK	Allows entrance to XOR Chain testing when TP3 pulled low.When TP3 not pulled low at rising edge of PWROK,sets bit1 of RPC.PC(Config Registers: offset 224h). This signal has weak internal pull-down
HDA_SYNC	PCIE config1 bit0, Rising Edge of PWROK.	This signal has a weak internal pull-down. Sets bit0 of RPC.PC(Config Registers:Offset 224h)
GNT2#/GPIO53	PCIE config2 bit2, Rising Edge of PWROK.	This signal has a weak internal pull-up. Sets bit2 of RPC.PC2(Config Registers:Offset 0224h)
GPIO20	Reserved	This signal should not be pulled high.
GNT1#/GPIO51	ESI Strap (Server Only) Rising Edge of PWROK	ESI compatible mode is for server platforms only. This signal should not be pulled low for desttop and mobile.
GNT3#/GPIO55	Top-Block Swap Override. Rising Edge of PWROK.	Sampled low:Top-Block Swap mode(inverts A16 for all cycles targeting FWH BIOS space). Note: Software will not be able to clear the Top-Swap bit until the system is rebooted without GNT3# being pulled down.
GNT0#: SPI_CS1#/ GPIO58	Boot BIOS Destination Selection 0:1. Rising Edge of PWROK.	Controllable via Boot BIOS Destination bit (Config Registers:Offset 3410h:bit 11:10). GNT0# is MSB, 01-SPI, 10-PCI, 11-LPC.
SPI_MOSI	Integrated TPM Enable, Rising Edge of CLPWROK	Sample low: the Integrated TPM will be disabled. Sample high: the MCH TPM enable strap is sampled low and the TPM Disable bit is clear, the Integrated TPM will be enable.
GPIO49	DMI Termination Voltage Rising Edge of PWROK.	The signal is required to be low for desktop applications and required to be high for mobile applications.
SATALED#	PCI Express Lane Reversal. Rising Edge of PWROK.	Signal has weak internal pull-up. Sets bit 27 of MPC.LR(Device 28:Function 0:Offset D8)
SPKR	No Reboot. Rising Edge of PWROK.	If sampled high, the system is strapped to the "No Reboot" mode(ICH9 will disable the TCO Timer system reboot feature). The status is readable via the NO REBOOT bit.
TP3	XOR Chain Entrance. Rising Edge of PWROK.	This signal should not be pull low unless using XOR Chain testing.
GPIO33/ HDA_DOCK_EN#	Flash Descriptor Security Override Strap Rising Edge of PWROK	Sampled low:the Flash Descriptor Security will be overridden. If high,the security measures will be in effect.This should only be enabled in manufacturing environments using an external pull-up resistor.

PCIE Routing

LANE1	LAN MARVELL 88E8071
LANE2	MiniCard WLAN
LANE3	MiniCard WWAN/TV
LANE4	JMB385 Card Reader
LANE5	NewCard
LANE6	NC

USB Table

USB	
Pair	Device
0	USB1
1	USB4
2	USB2
3	USB5 (DOCK)
4	USB3
5	Bluetooth
6	FP
7	MINIC1
8	WEBCAM
9	NEW1
10	MINIC2
11	NC

ICH9M Integrated Pull-up and Pull-down Resistors

ICH9 EDS 642879 Rev.1.5

SIGNAL	Resistor Type/Value
CL_CLK[1:0]	PULL-UP 20K
CL_DATA[1:0]	PULL-UP 20K
CL_RST0#	PULL-UP 20K
DPRSLFVR/GPIO16	PULL-DOWN 20K
ENERGY_DETECT	PULL-UP 20K
HDA_BIT_CLK	PULL-DOWN 20K
HDA_DOCK_EN#/GPIO33	PULL-UP 20K
HDA_RST#	PULL-DOWN 20K
HDA_SDIN[3:0]	PULL-DOWN 20K
HDA_SDOUT	PULL-DOWN 20K
HDA_SYNC	PULL-DOWN 20K
GLAN_DOCK#	The pull-up or pull-down active when configured for native GLAN DOCK# functionality and determined by LAN controller
GNT[3:0]#/GPIO[55, 53, 51]	PULL-UP 20K
GPIO[20]	PULL-DOWN 20K
GPIO[49]	PULL-UP 20K
LDA[3:0]#/FWH[3:0]#	PULL-UP 20K
LAN_RXD[2:0]	PULL-UP 20K
LDRQ[0]	PULL-UP 20K
LDRQ[1]/GPIO23	PULL-UP 20K
PME#	PULL-UP 20K
PWRBTN#	PULL-UP 20K
SATALED#	PULL-UP 15K
SPI_CS1#/GPIO58/CLGPIO6	PULL-UP 20K
SPI_MOSI	PULL-DOWN 20K
SPI_MISO	PULL-UP 20K
SPKR	PULL-DOWN 20K
TACH_[3:0]	PULL-UP 20K
TP[3]	PULL-UP 20K
USB[11:0][P,N]	PULL-DOWN 15K

Cantiga chipset and ICH9M I/O controller Hub strapping configuration

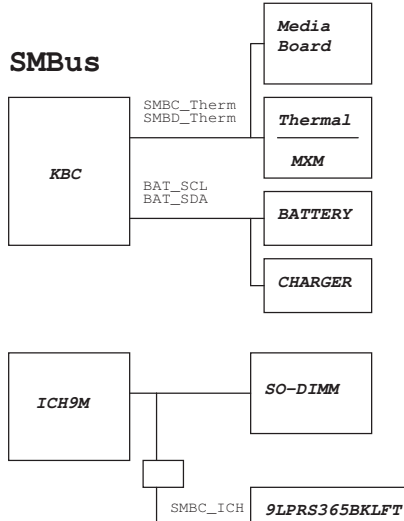
Montevina Platform Design guide 22339 0.5 page 218

Pin Name	Strap Description	Configuration
CFG[2:0]	FSB Frequency Select	000 = FSB1067 011 = FSB667 010 = FSB800 others = Reserved
CFG[4:3] CFG8 CFG[15:14] CFG[18:17]	Reserved	
CFG5	DMI x2 Select	0 = DMI x2 1 = DMI x4 (Default)
CFG6	iTPM Host Interface	0= The iTPM Host Interface is enabled(Note2) 1=The iTPM Host Interface is disalbed(default)
CFG7	Intel Management engine Crypto strap	0 = Transport Layer Security (TLS) cipher suite with no confidentiality 1 = TLS cipher suite with confidentiality (default)
CFG9	PCIE Graphics Lane	0 = Reverse Lanes,15->0,14->1 ect.. 1= Normal operation(Default):Lane Numbered in order
CFG10	PCIE Loopback enable	0 = Enable (Note 3) 1= Disabled (default)
CFG[13:12]	XOR/ALL	00 = Reserve 10 = XOR mode Enabled 01 = ALLZ mode Enabled (Note 3) 11 = Disabled (default)
CFG16	FSB Dynamic ODT	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled (Default)
CFG19	DMI Lane Reversal	0 = Normal operation(Default): Lane Numbered in Order 1 = Reverse Lanes DMI x4 mode[MCH -> ICH]:(3->0,2->1,1->2and0->3 DMI x2 mode[MCH -> ICH]:(3->0,2->1)
CFG20	Digital Display Port (SDVO/DP/iHDMI) Concurrent with PCIE	0 = Only Digital Display Port or PCIE is operational (Default) 1 = Digital Display Port and PCIE are operating simulataneously via the PEG port
SDVO_CTRLDATA	SDVO Present	0 =No SDVO Card Present (Default) 1 = SDVO Card Present
L_DDC_DATA	Local Flat Panel (LFP) Present	0 = LFP Disabled (Default) 1= LFP Card Present; PCIE disabled

NOTE:

1. All strap signals are sampled with respect to the leading edge of the (G)MCH Power OK (PWROK) signal.
2. iTPM can be disabled by a 'Soft-Strap' option in the Flash-decriptor section of the Firmware. This 'Soft-Strap' is activated only after enabling iTPM via CFG6.
Only one of the CFG10/CFG12/CFG13 straps can be enabled at any time.

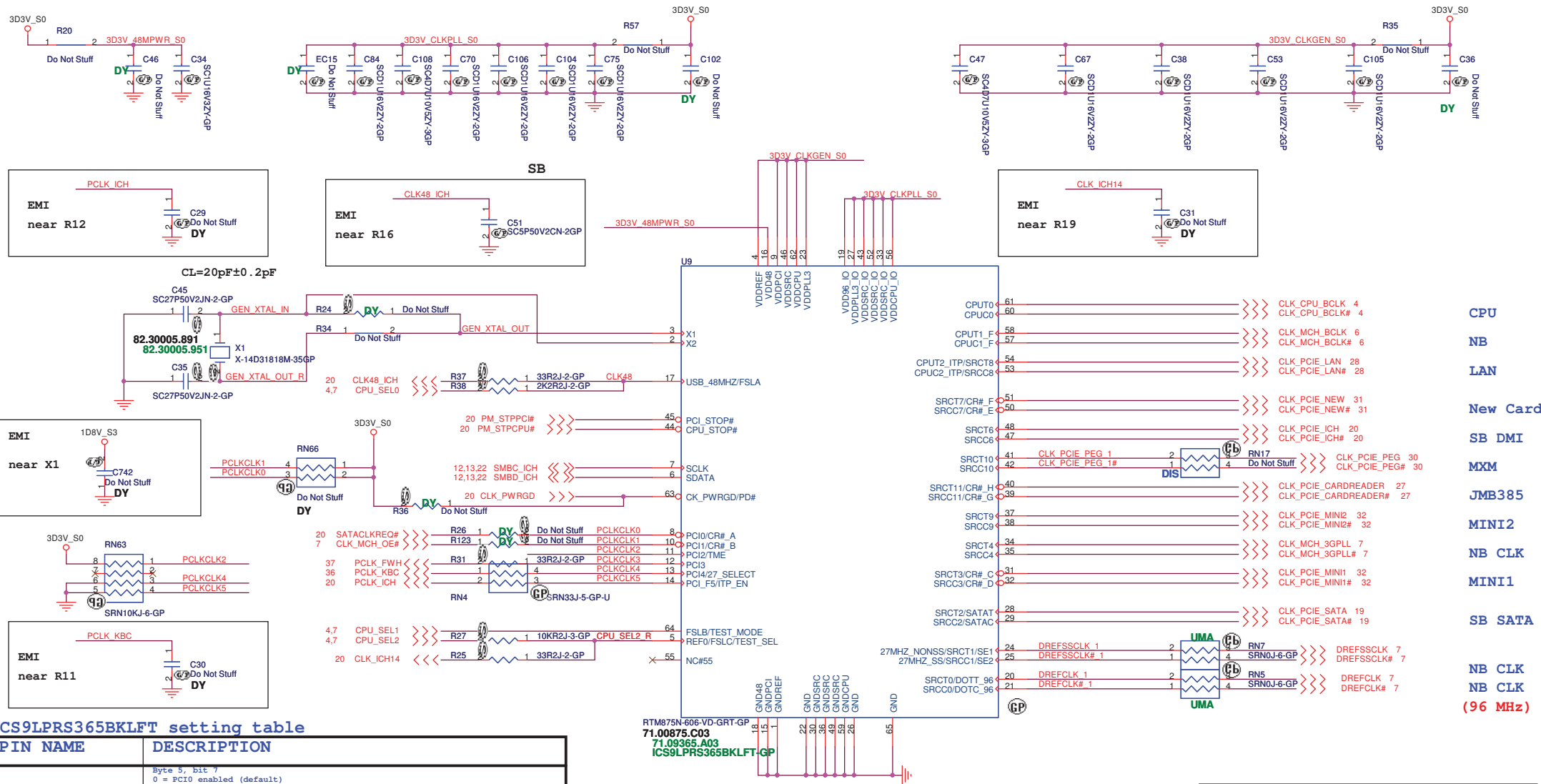
SMBus



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Title Reference	
Size A3	Document Number
Eiger	
Date: Tuesday, April 01, 2008	Sheet 2 of 50



ICS9LPRS365BKLF setting table

PIN NAME	DESCRIPTION
PCI0/CR#_A	Byte 5, bit 7 0 = PCI0 enabled (default) 1 = CR#_A enabled. Byte 5, bit 6 controls whether CR#_A controls SRC0 or SRC2 pair Byte 5, bit 6 0 = CR#_A controls SRC0 pair (default), 1 = CR#_A controls SRC2 pair
PCI1/CR#_B	Byte 5, bit 5 0 = PCI1 enabled (default) 1 = CR#_B enabled. Byte 5, bit 6 controls whether CR#_B controls SRC1 or SRC4 pair Byte 5, bit 4 0 = CR#_B controls SRC1 pair (default) 1 = CR#_B controls SRC4 pair
PCI2/TME	0 = Overclocking of CPU and SRC Allowed 1 = Overclocking of CPU and SRC NOT allowed
PCI3	3.3V PCI clock output
PCI4/27M_SEL	0 = Pin24 as SRC-1, Pin25 as SRC-1#, Pin20 as DOT96, Pin21 as DOT96# 1 = Pin24 as 27MHz, Pin25 as 27MHz_SS, Pin20 as SRC-0, Pin21 as SRC-0#
PCI_F5/ITP_EN	0 = SRC8/SRC8# 1 = ITP/ITP#
SRCT3/CR#_C	Byte 5, bit 3 0 = SRC3 enabled (default) 1 = CR#_C enabled. Byte 5, bit 2 controls whether CR#_C controls SRC0 or SRC2 pair Byte 5, bit 2 0 = CR#_C controls SRC0 pair (default), 1 = CR#_C controls SRC2 pair

PIN NAME	DESCRIPTION
SRCC3/CR#_D	Byte 5, bit 1 0 = SRC3 enabled (default) 1 = CR#_D enabled. Byte 5, bit 0 controls whether CR#_D controls SRC1 or SRC4 pair Byte 5, bit 0 0 = CR#_D controls SRC1 pair (default) 1 = CR#_D controls SRC4 pair
SRCC7/CR#_E	Byte 6, bit 7 0 = SRC7# enabled (default) 1 = CR#_F controls SRC6
SRCT7/CR#_F	Byte 6, bit 6 0 = SRC7 enabled (default) 1 = CR#_F controls SRC8
SRCC11/CR#_G	Byte 6, bit 5 0 = SRC11# enabled (default) 1 = CR#_G controls SRC9
SRCT11/CR#_H	Byte 6, bit 4 0 = SRC11 enabled (default) 1 = CR#_H controls SRC10

SEL2 FSC	SEL1 FSB	SEL0 FSA	CPU	FSB
1	0	1	100M	X
0	0	1	133M	533M
0	1	1	166M	667M
0	1	0	200M	800M
0	0	0	266M	1066M

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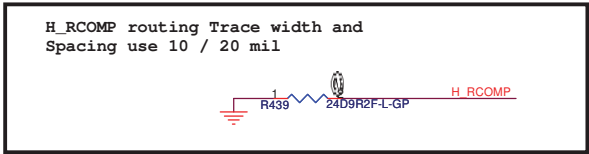
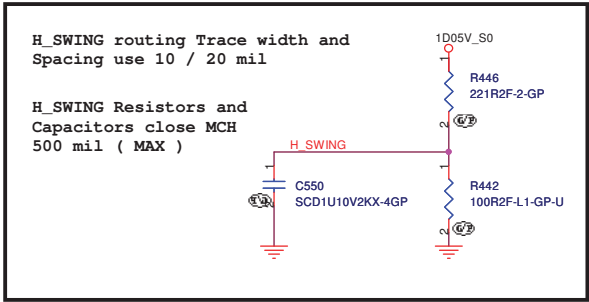
緯創資通 Wistron Corporation
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Title **Clock Generator**

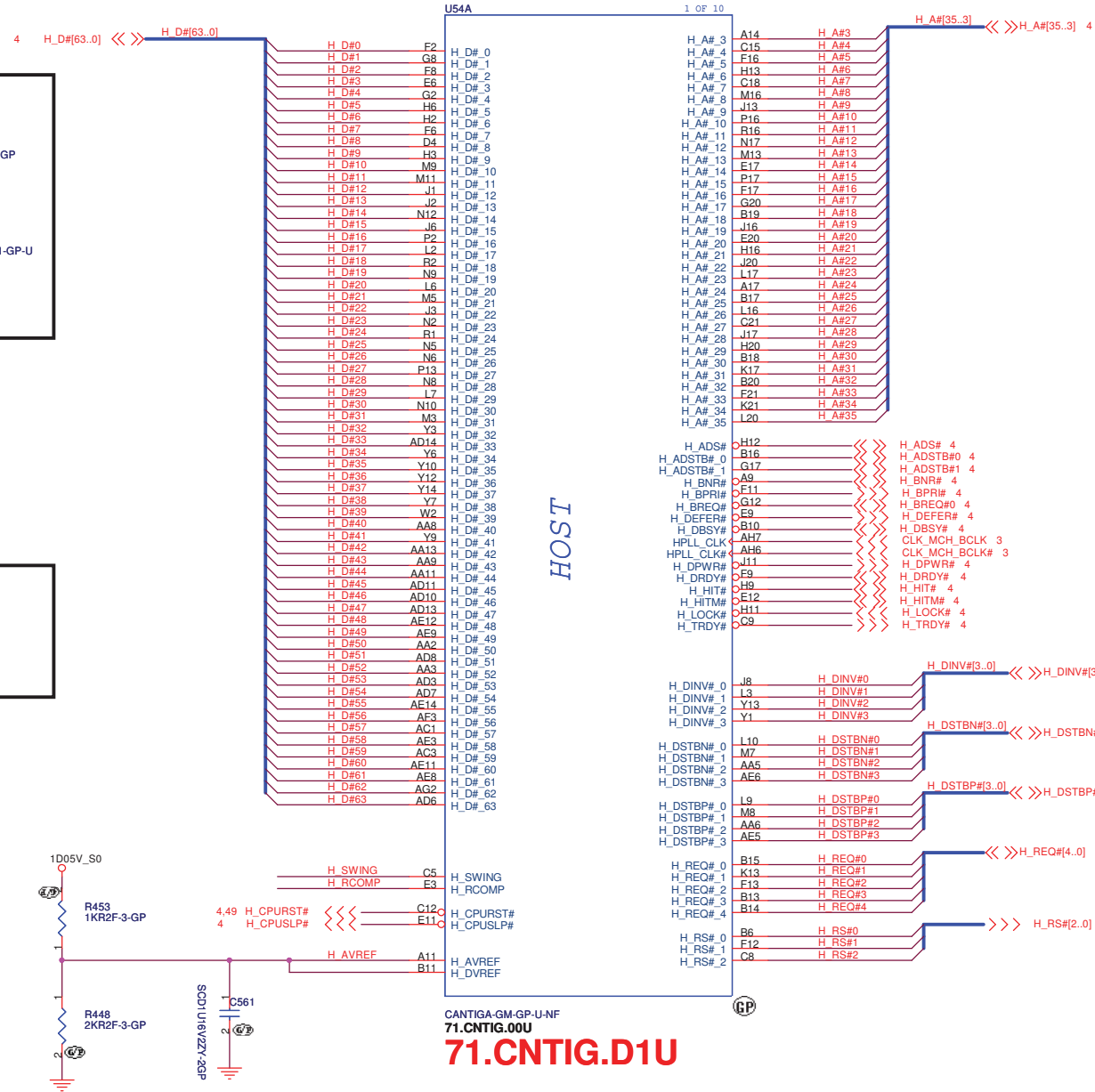
Size Document Number **Eiger** Rev -1

Date: Tuesday, April 01, 2008 Sheet 3 of 50





Place them near to the chip (< 0.5")

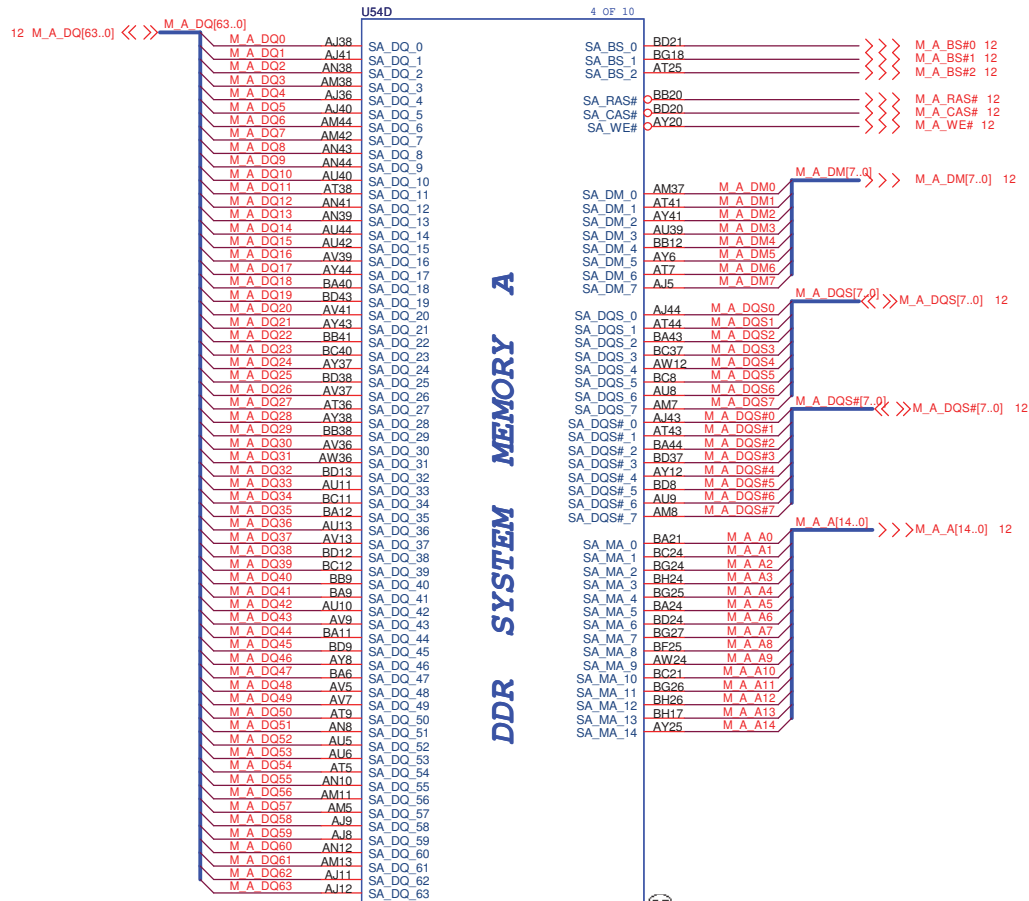


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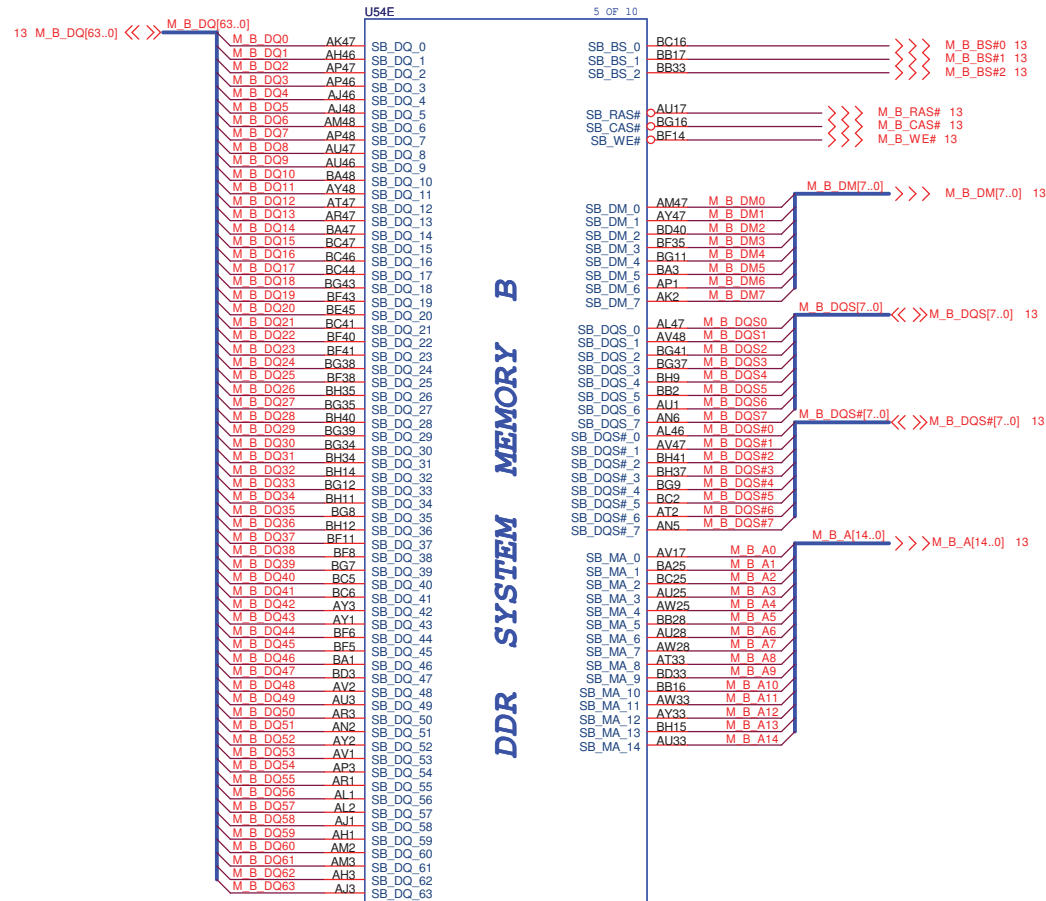
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Size	Document Number				Rev
	Eiger				-1
Date:	Tuesday, April 01, 2008				Sheet 6 of 50

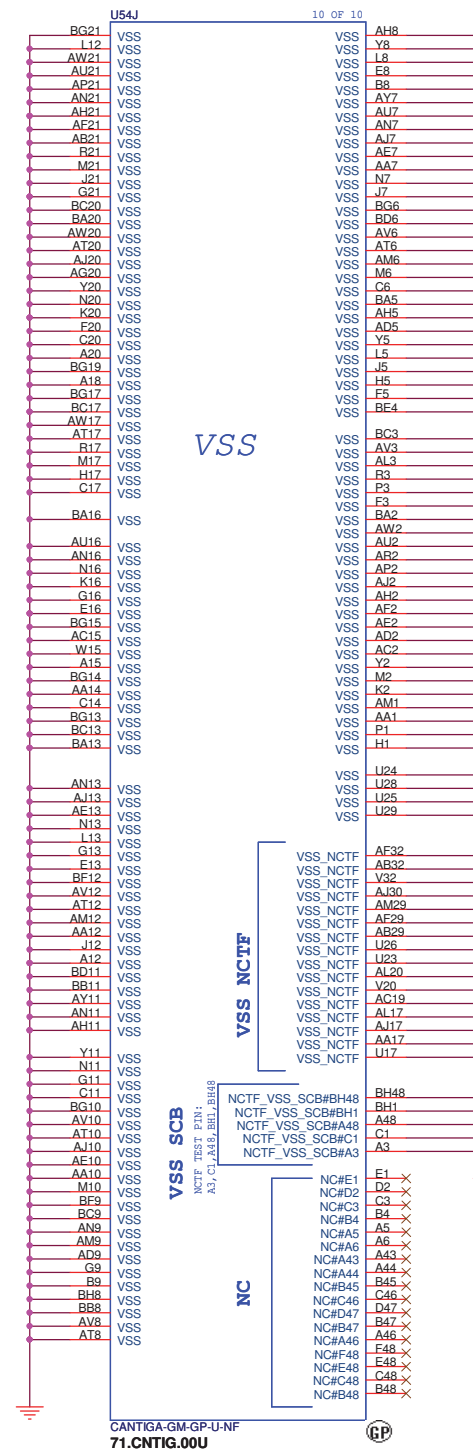
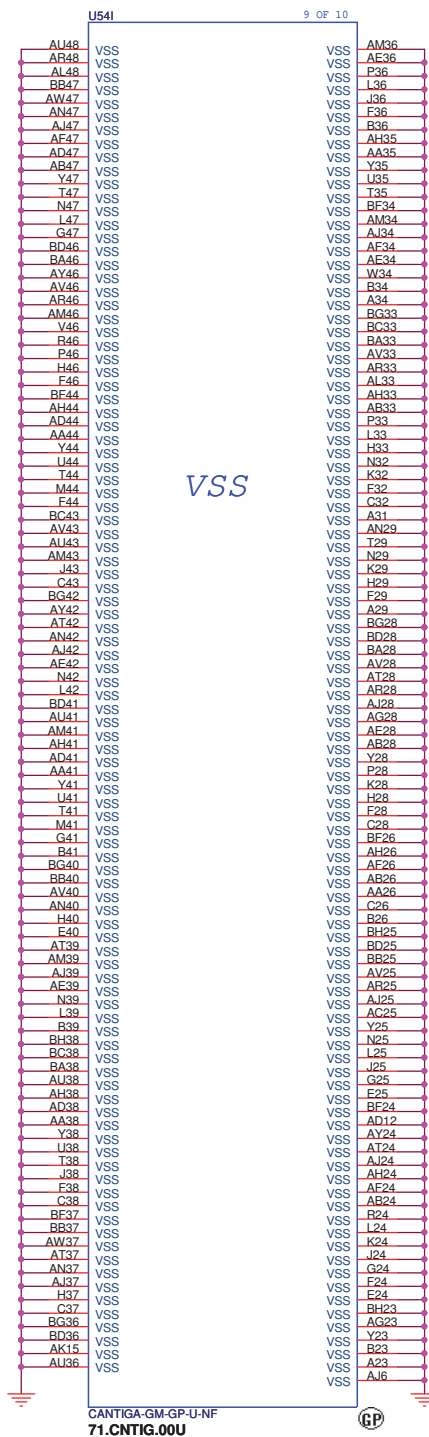
<http://laptop-motherboard-schematic.blogspot.com/>



CANTIGA-GM-GP-U-NF
71.CNTIG.00U



CANTIGA-GM-GP-U-NF
71.CNTIG.00U



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Title: **Cantiga (6 of 6)**

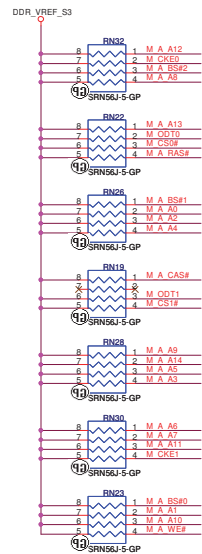
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Date: Tuesday, April 01, 2008

Rev: -1

Sheet 11 of 50

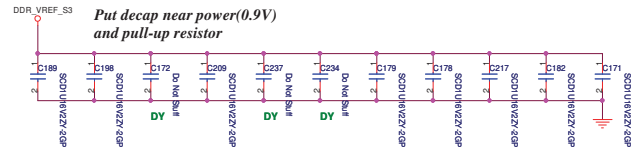
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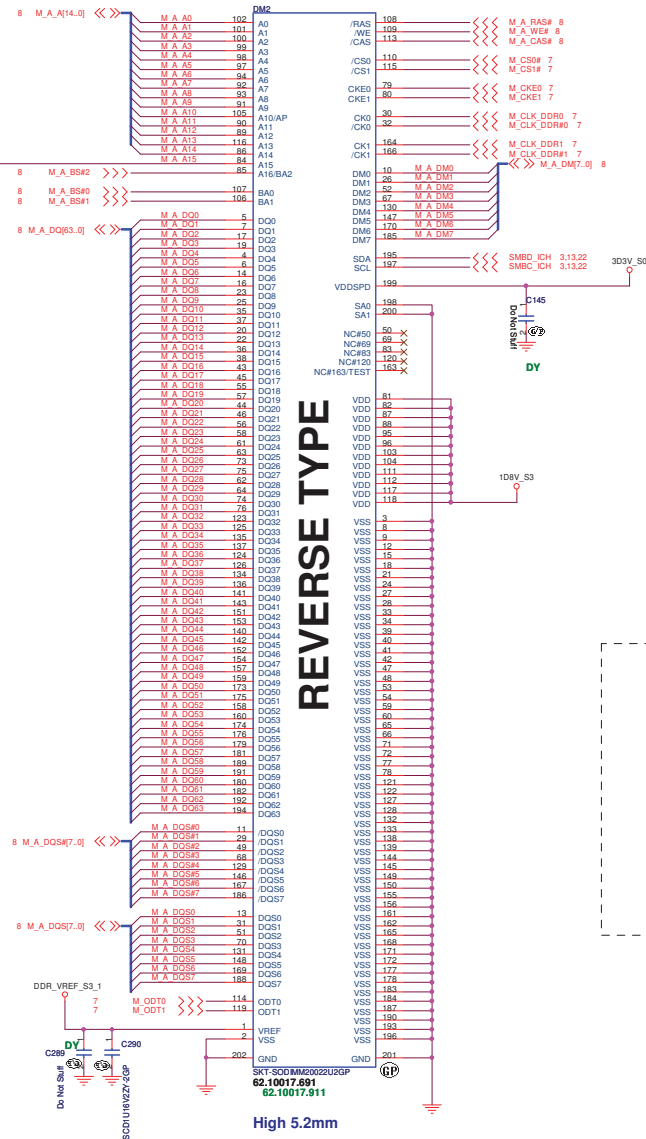
PARALLEL TERMINATION

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

Decoupling Capacitor

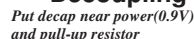


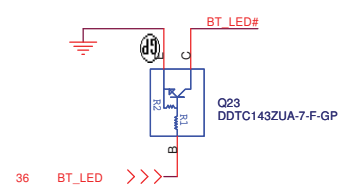
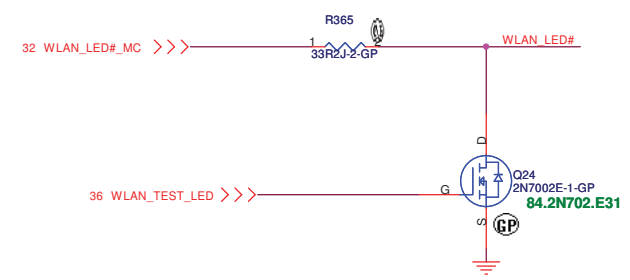
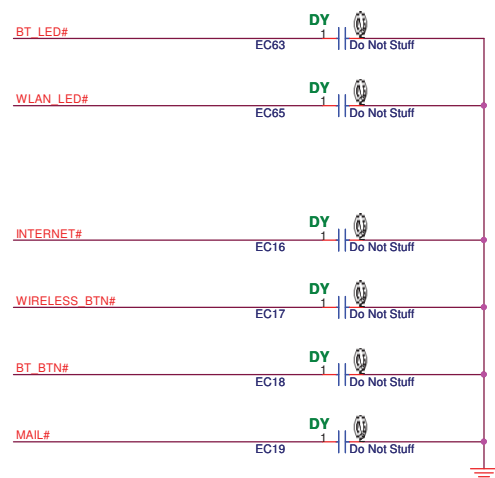
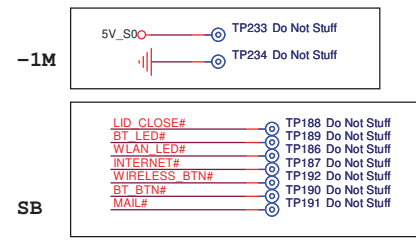
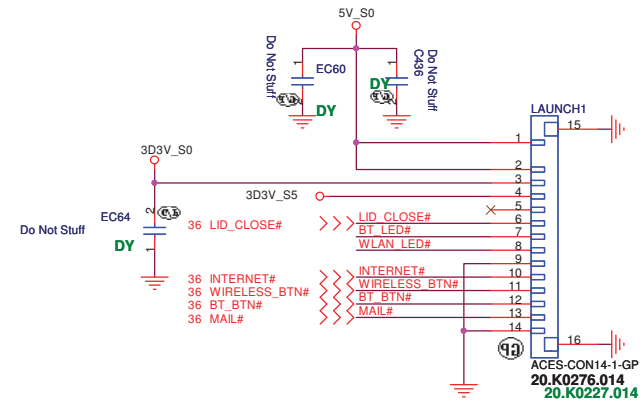
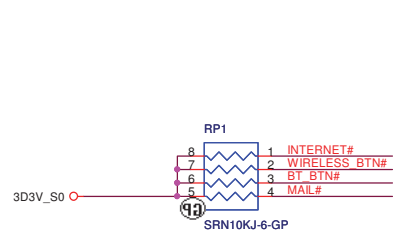
Put decap near power(0.9V) and pull-up resistor



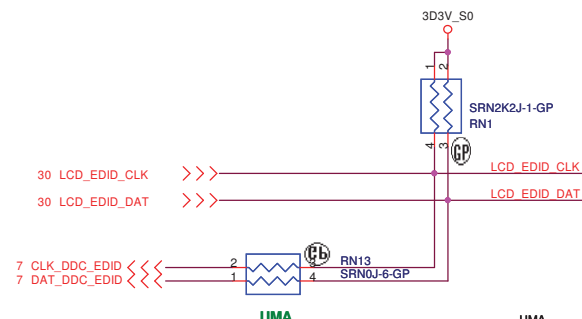
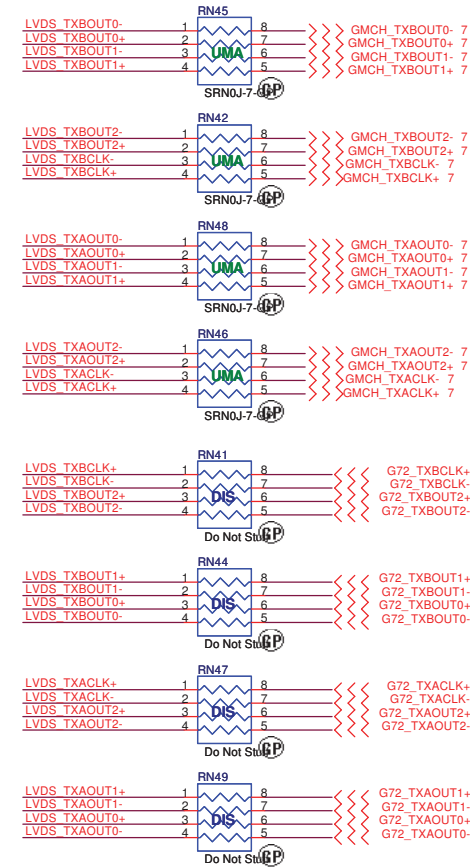
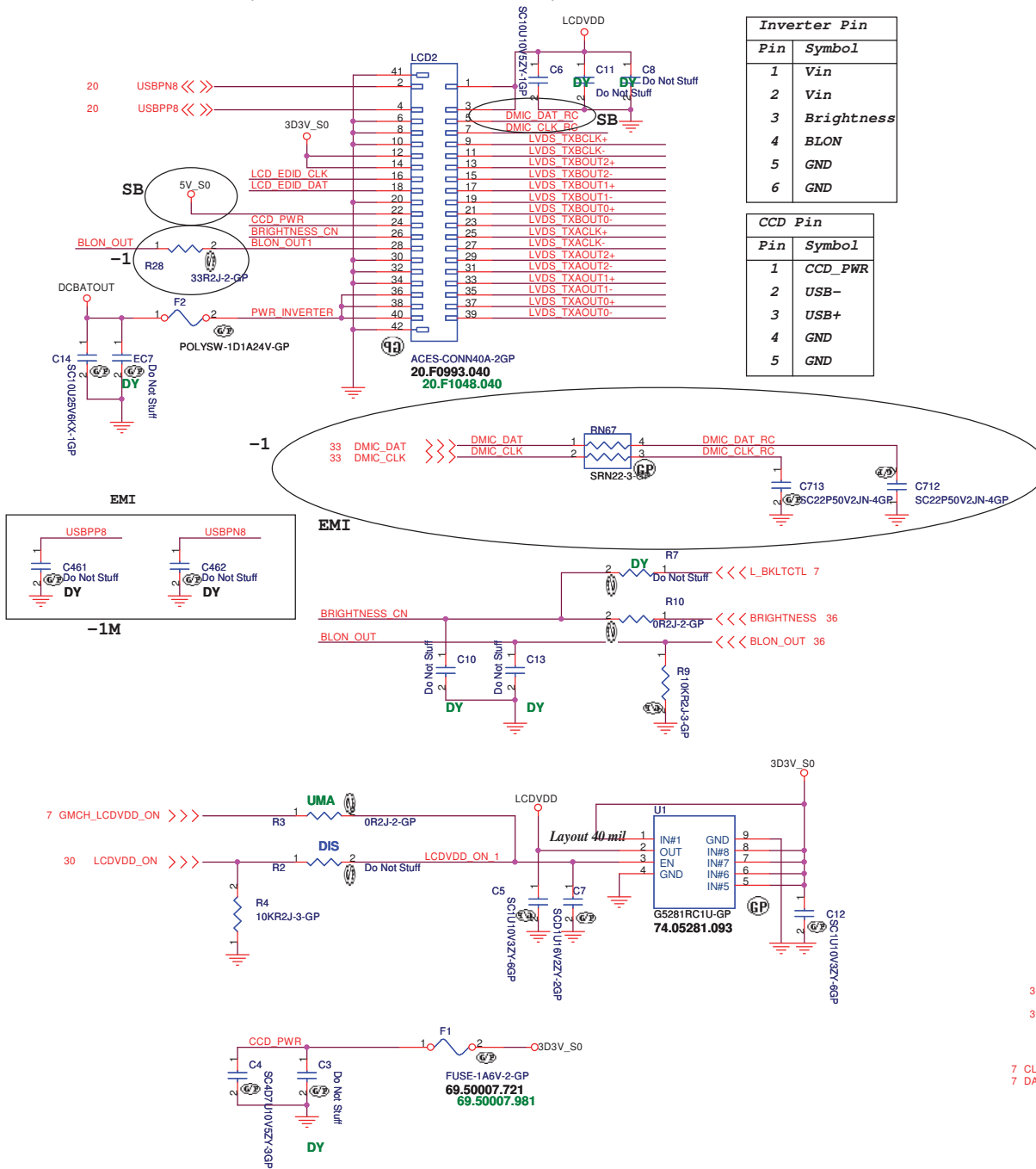
REVERSE TYPE

Place these Caps near DM1





LCD/INVERTER/CCD CONN



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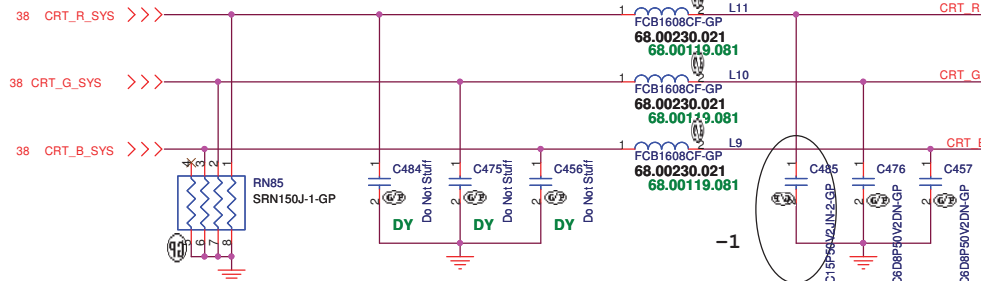
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Size Document Number **Eiger** Rev -1

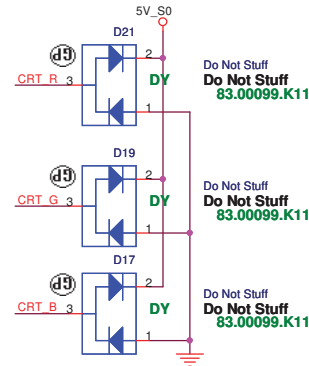
Date: Tuesday, April 01, 2008 Sheet 15 of 50

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

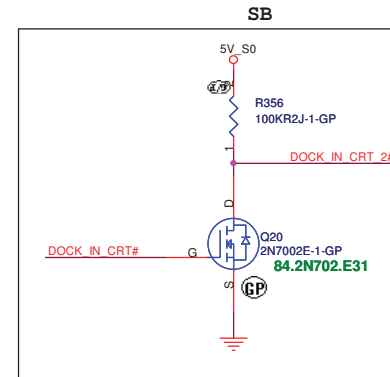
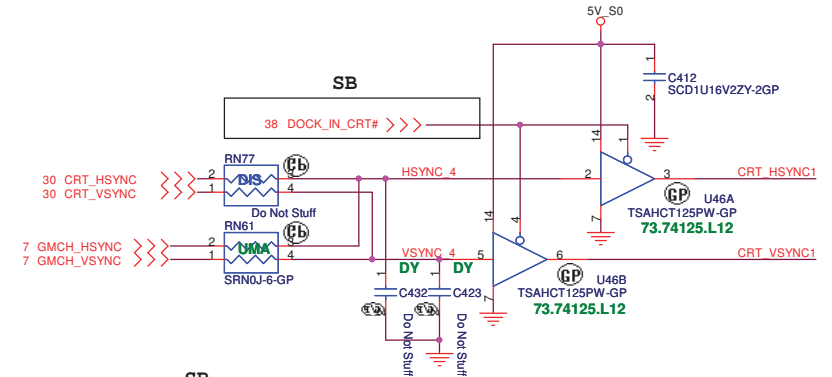
Ferrite bead impedance: 10 ohm@100MHz



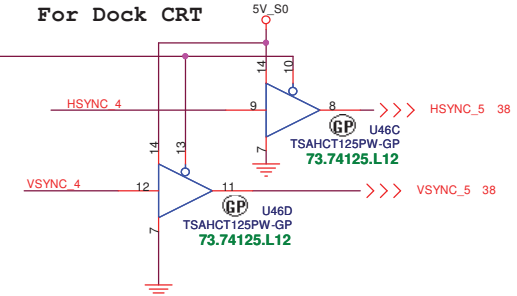
Layout Note:
* Must be a ground return path between this ground and the ground on the VGA connector.
Pi-filter & 150 Ohm pull-down resistors should be as close as to CRT CONN. RGB will hit 75 Ohm first, pi-filter, then CRT CONN.



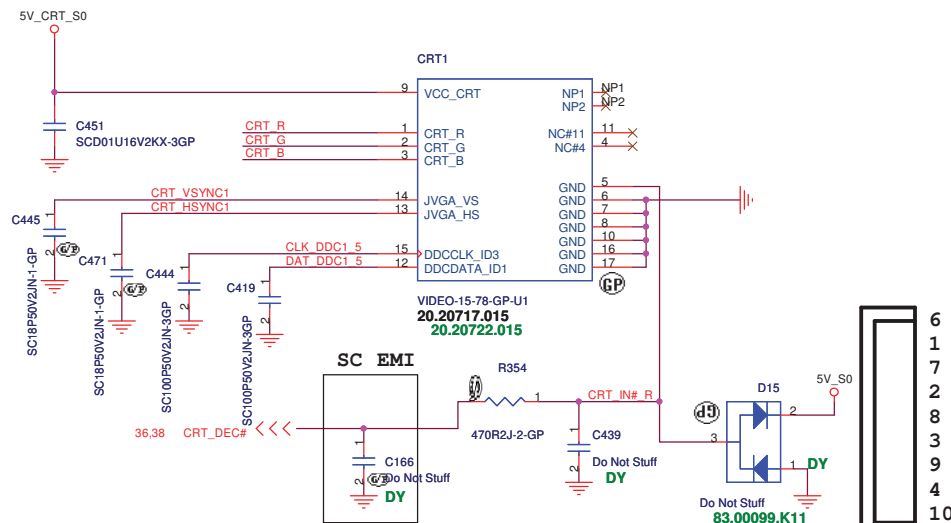
Hsync & Vsync level shift



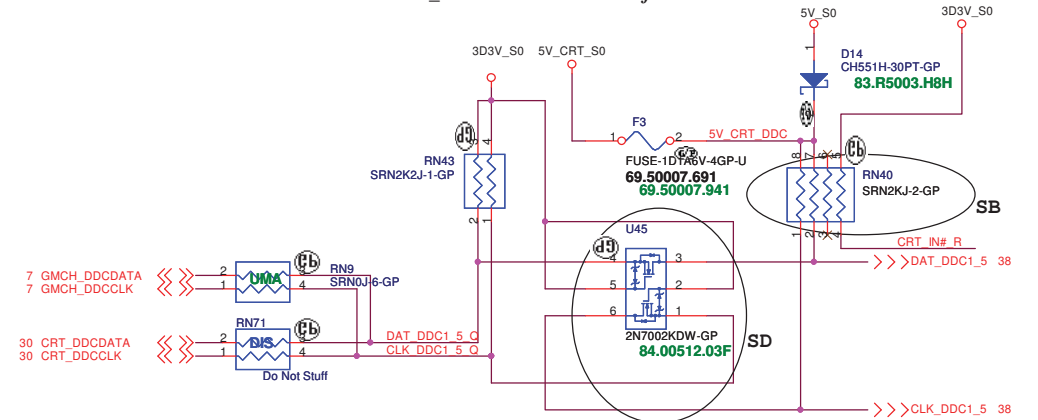
For Dock CRT



CRT I/F & CONNECTOR

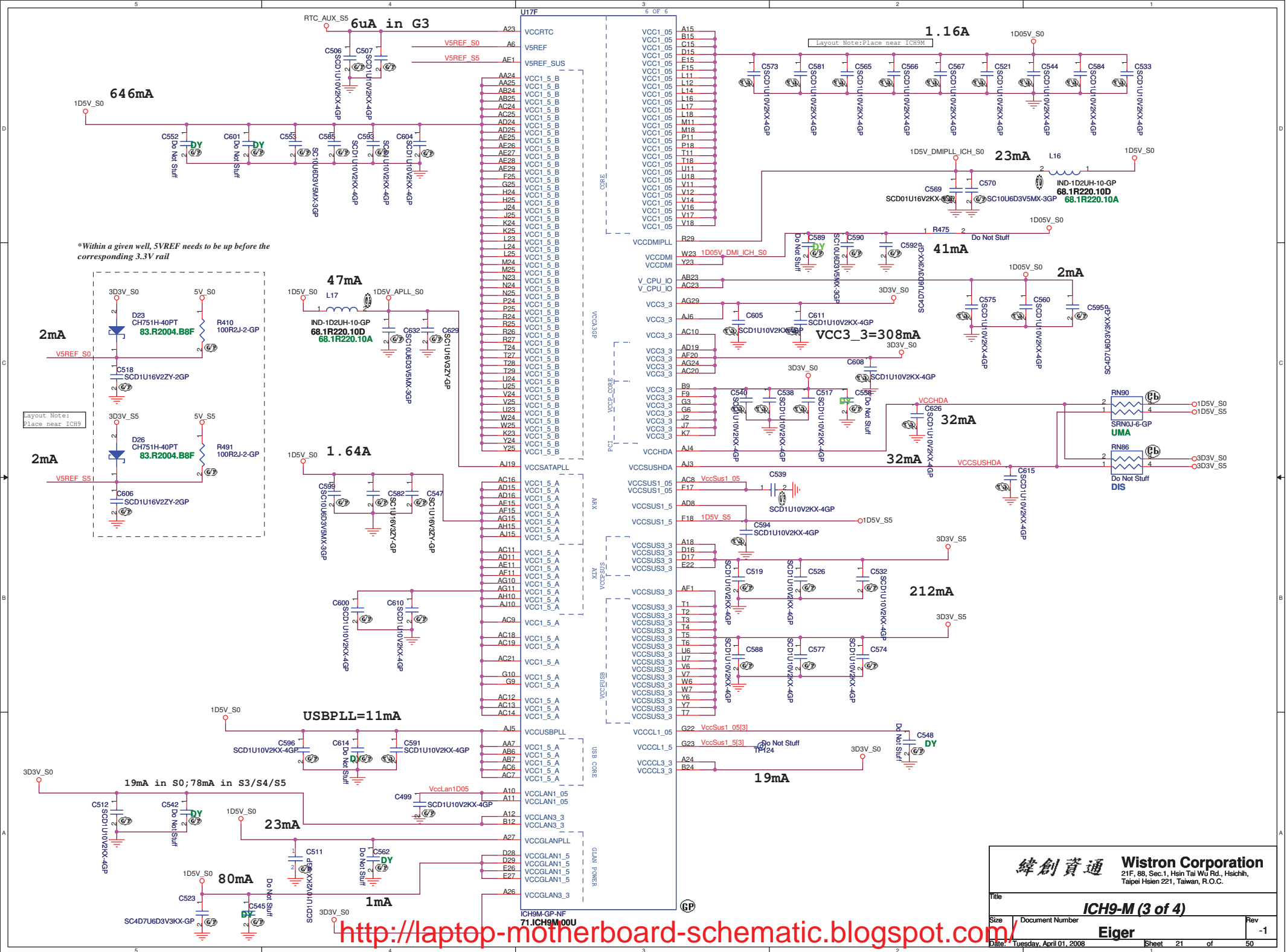


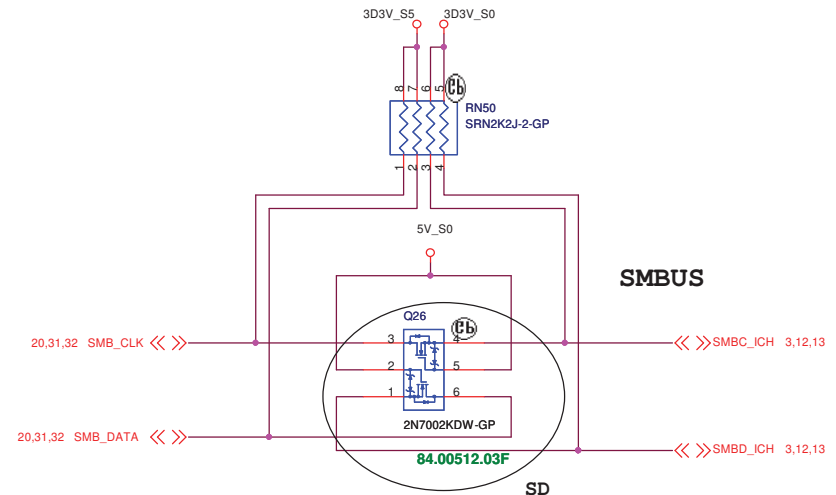
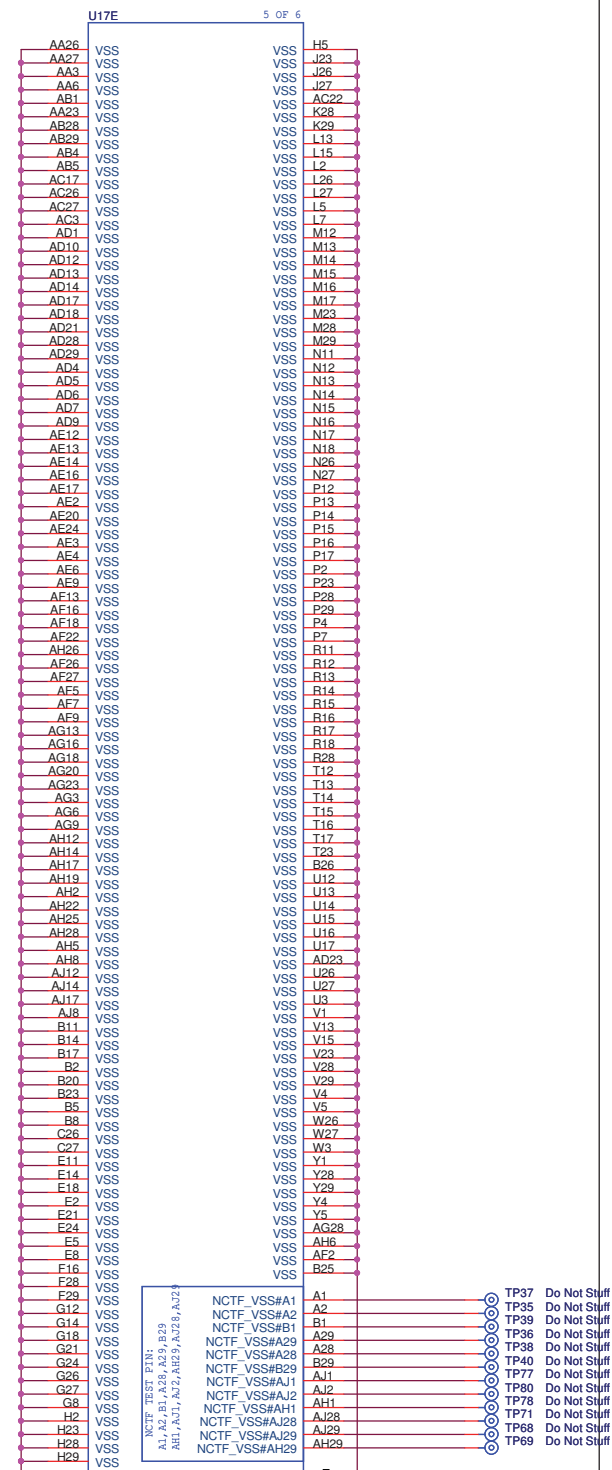
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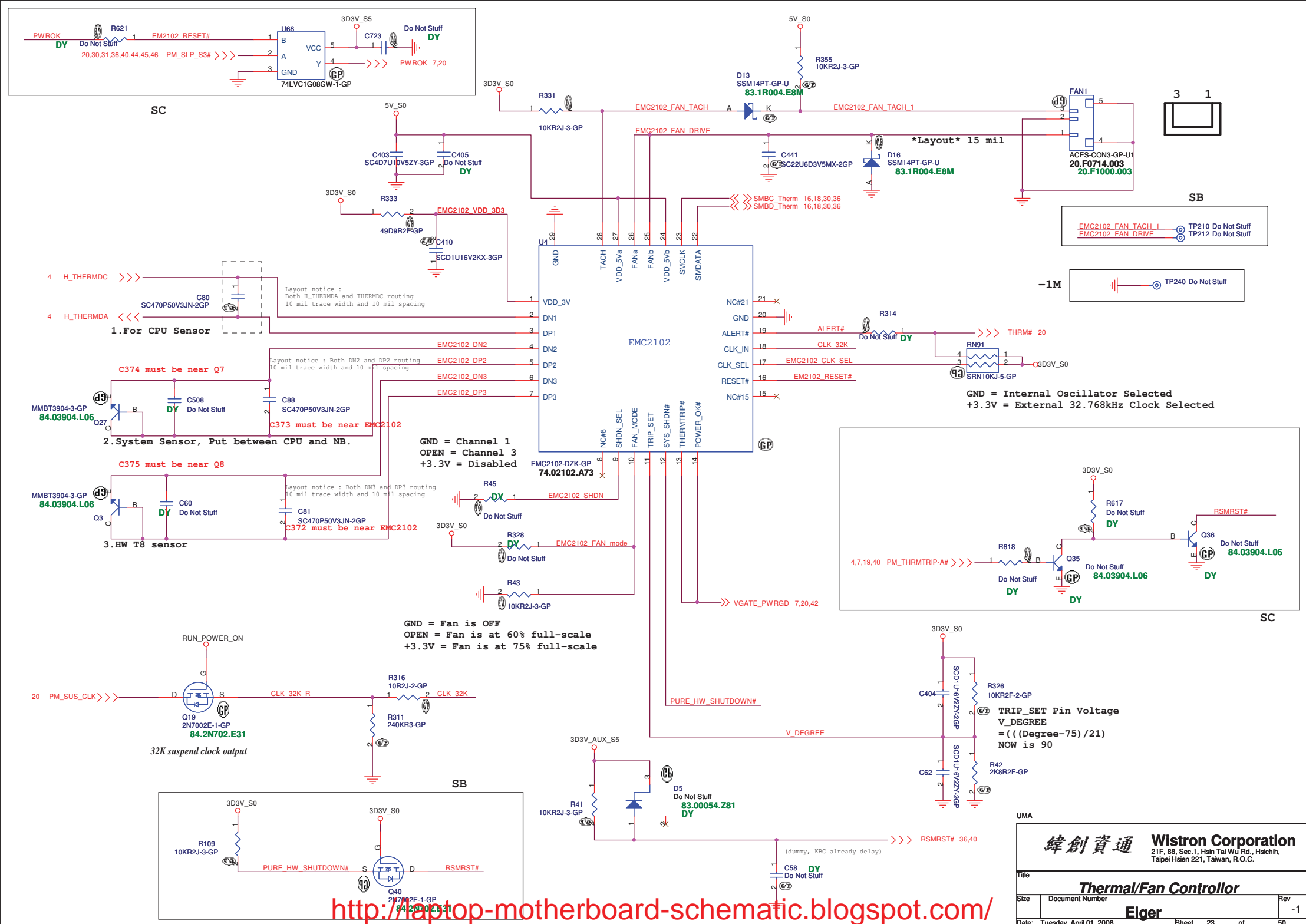


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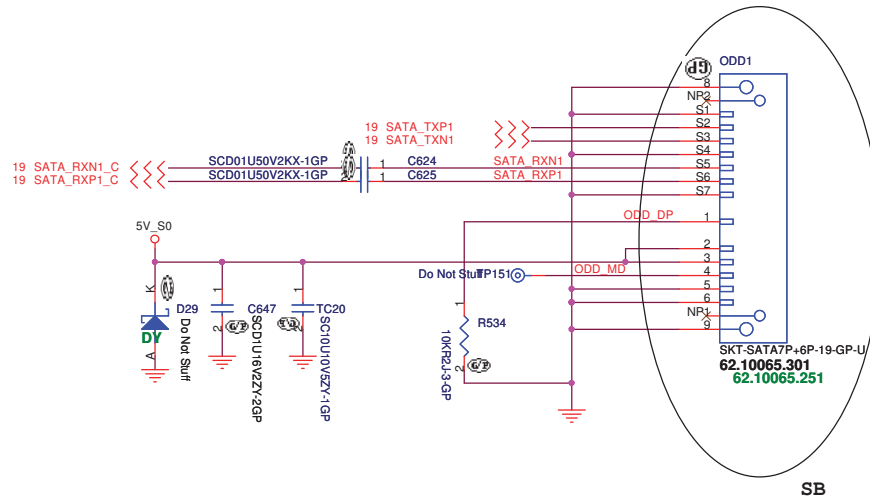




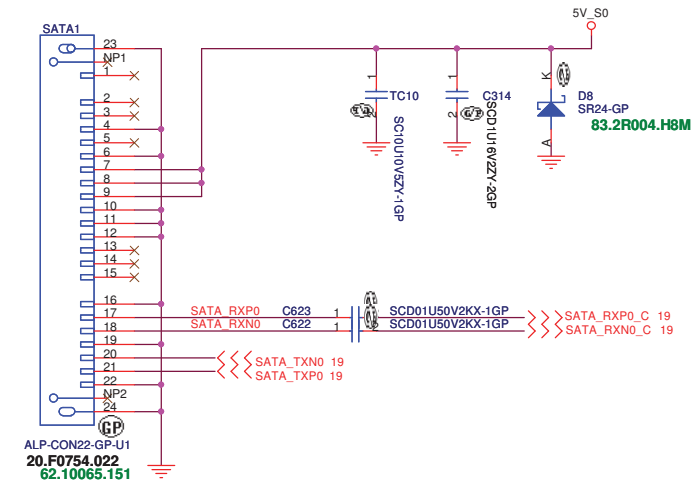




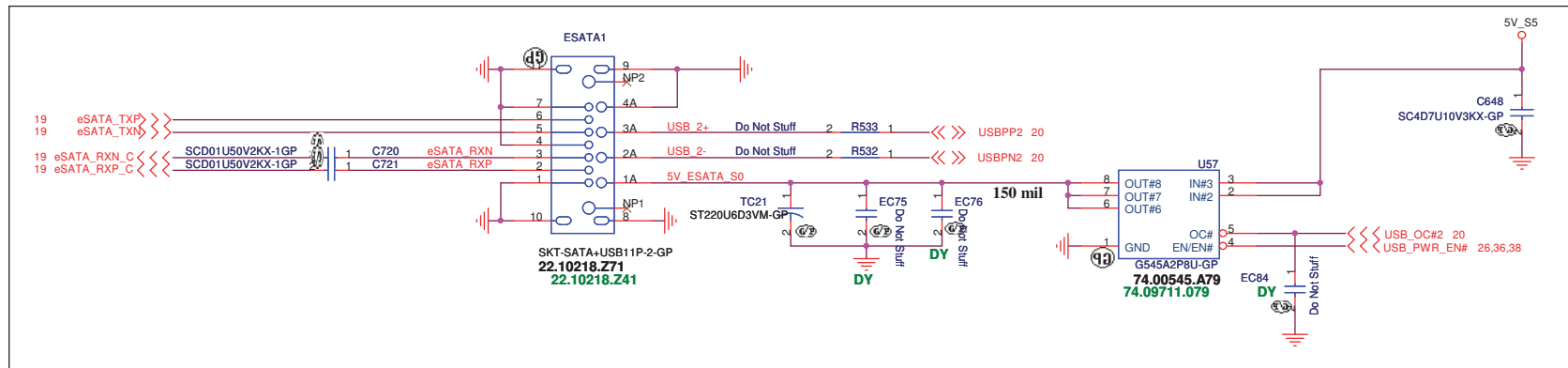
SATA ODD Connector



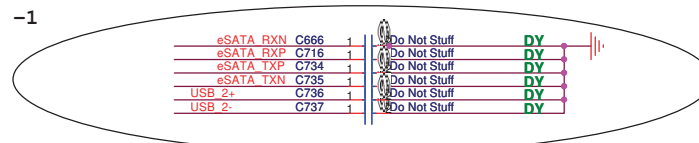
SATA Connector



SC



-1



EMI

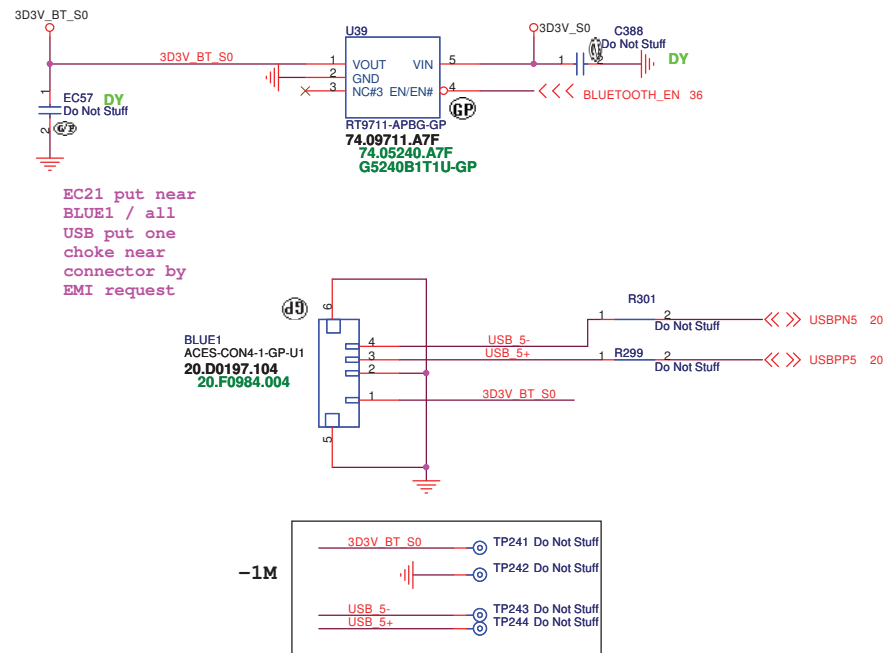
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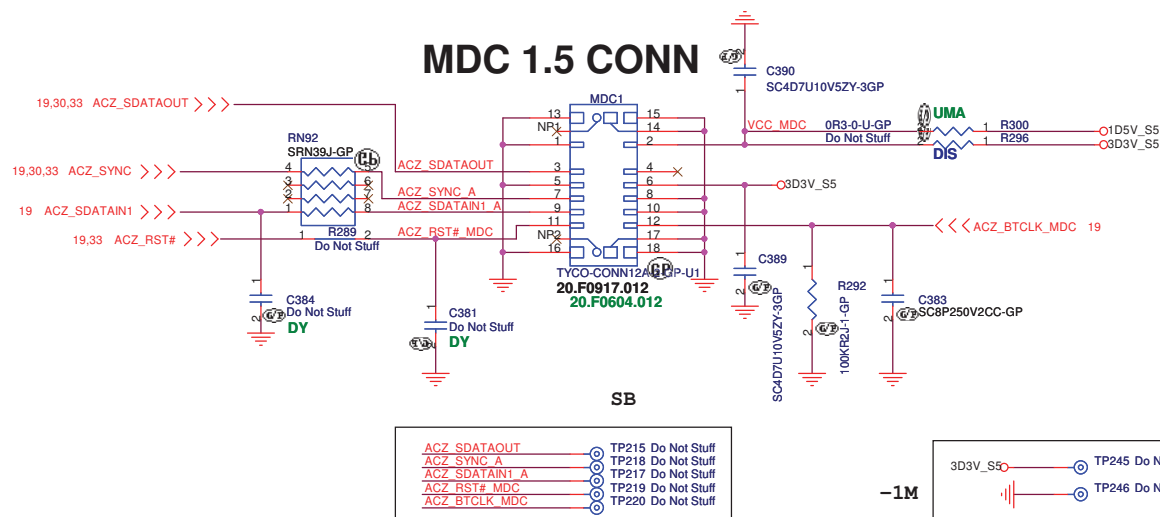
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Size	Document Number	Eiger	Rev
Date: Tuesday, April 01, 2008	Sheet 24	of 50	-1

BLUETOOTH MODULE

1.5A / High Active Voltage 2V



MDC 1.5 CONN



Finger printer

MOVE TO Page 36



-1M



5V_S5

TP247 Do Not Stuff

TP249 Do Not Stuff

USBPN1 TP250 Do Not Stuff

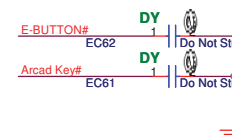
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USBPN4 TP252 Do Not Stuff

USBPP4 TP253 Do Not Stuff

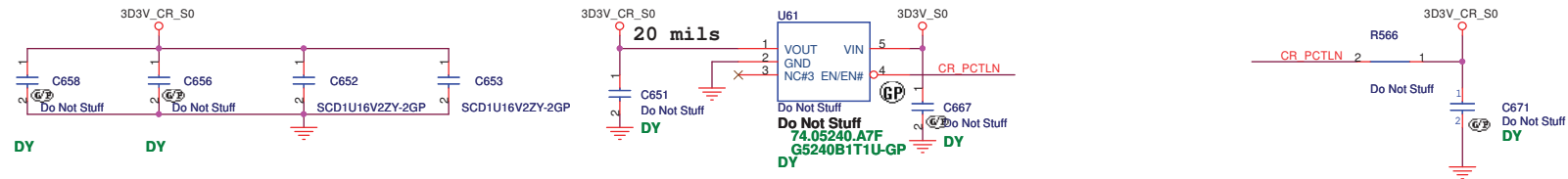
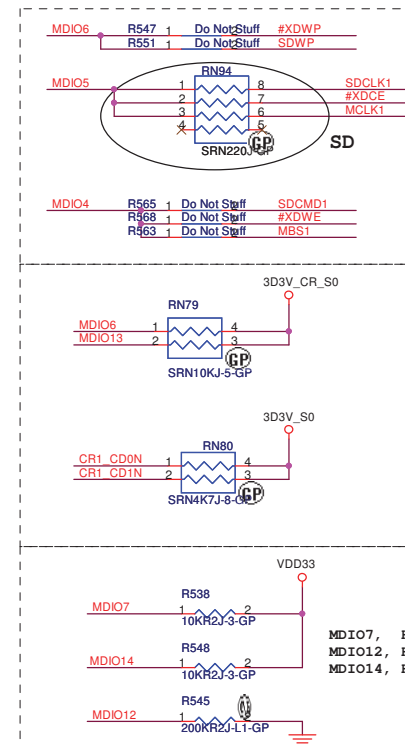
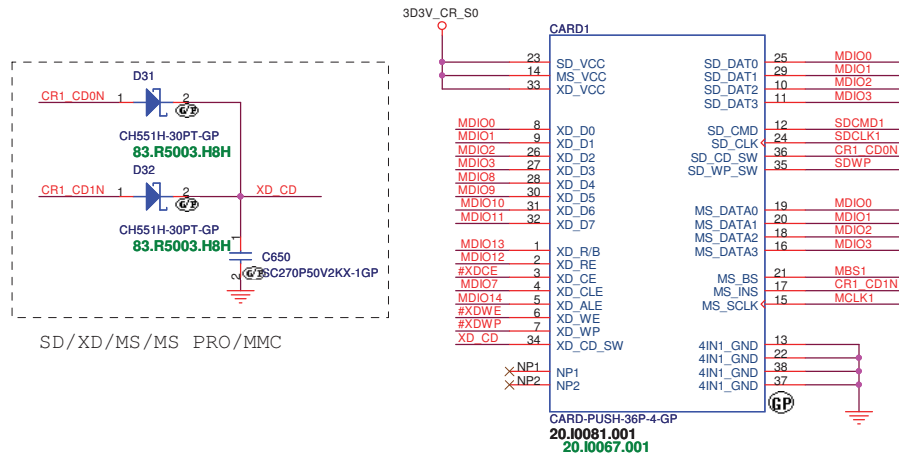
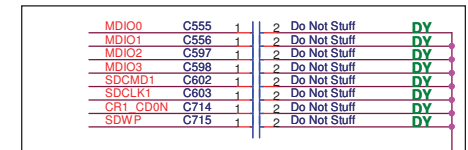
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USB_PWR_EN# TP255 Do Not Stuff



5 IN1 CARD-READER (SD/MMC/MS/MS PRO/XD)

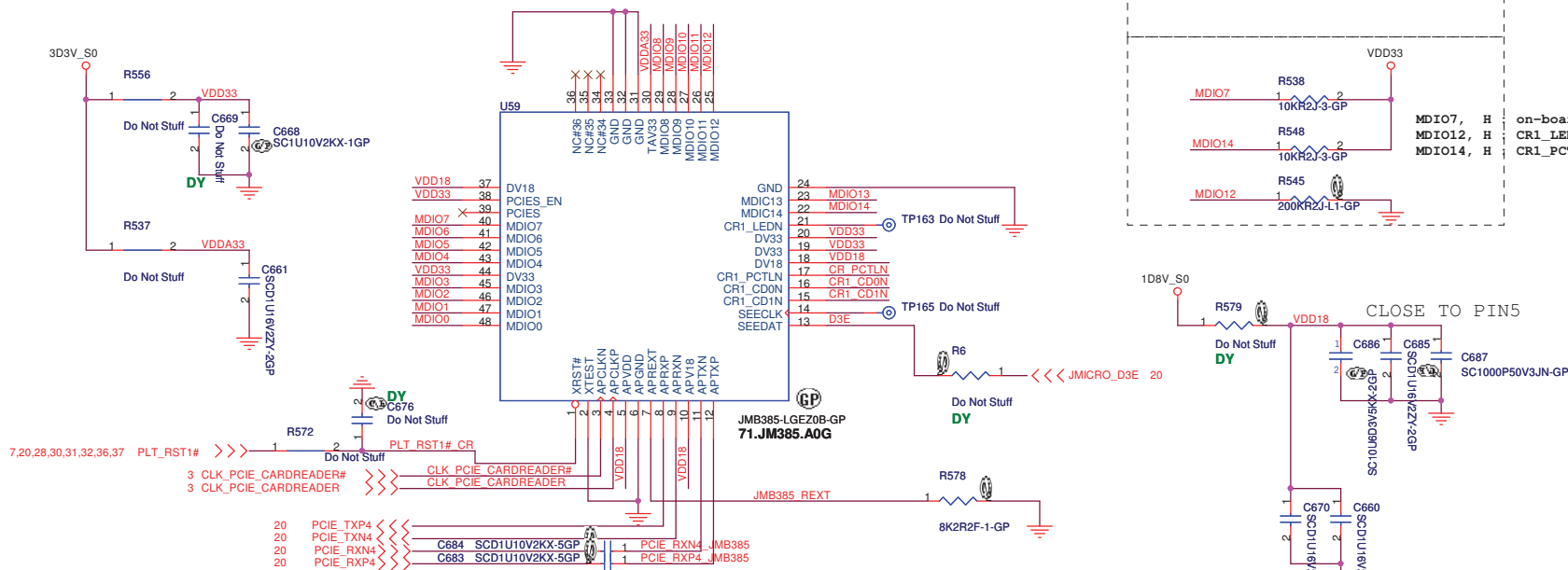
1.5A / High Active Voltage 2V

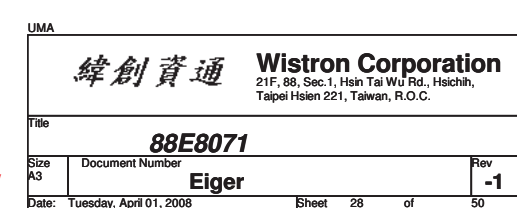
SC
EMI

```

on-board, L : on Add-in card or Express card
CR1_LEDN high active, L : CR1_LEDN low active
CR1_PCTLN high active, L : CR1_PCTLN low active

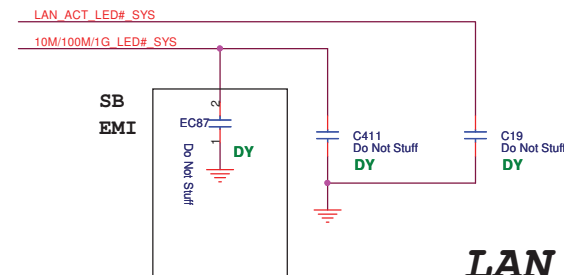
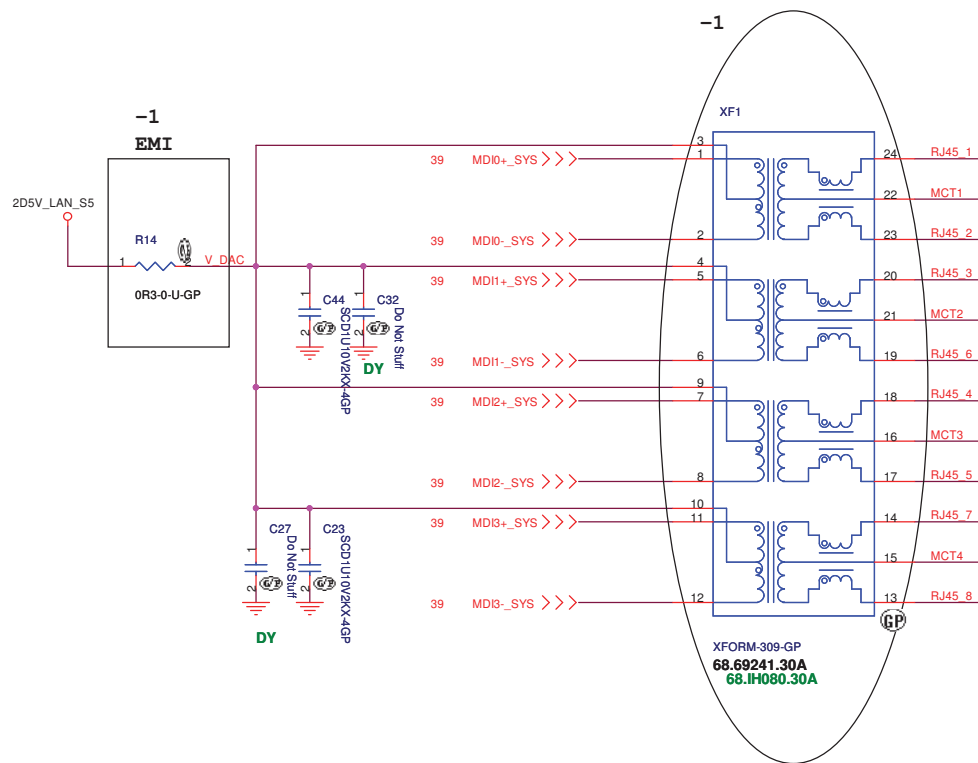
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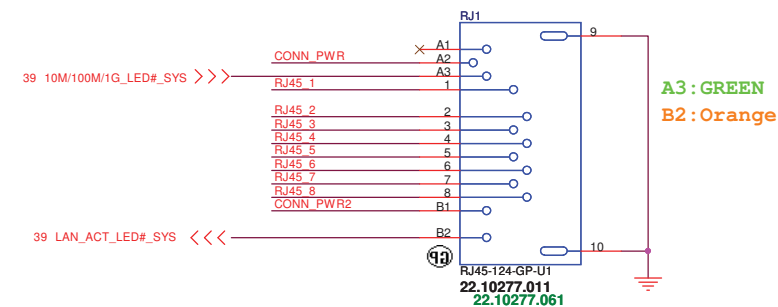


LAN Connector

- 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.



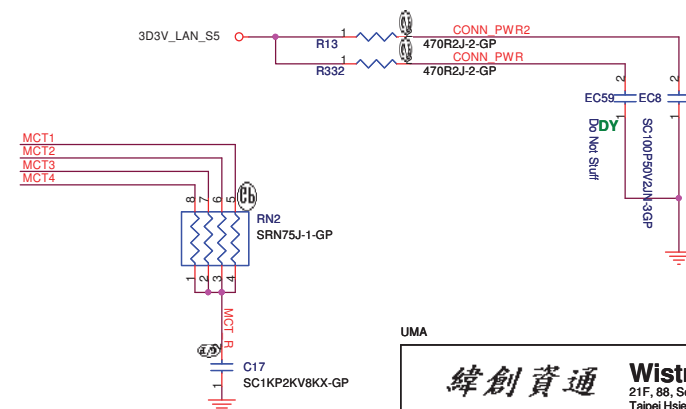
LAN Connector



LAN Link: Green(A3), behavior is the same for 10/100/1000 bits

LAN Data: Yellow(B2), when LAN is transferring data.

DOC_TIP,DOC_RING,TIP,RING:
W/S : 10/100 @ Surface layers
10/20 @ Inner layers



UMA

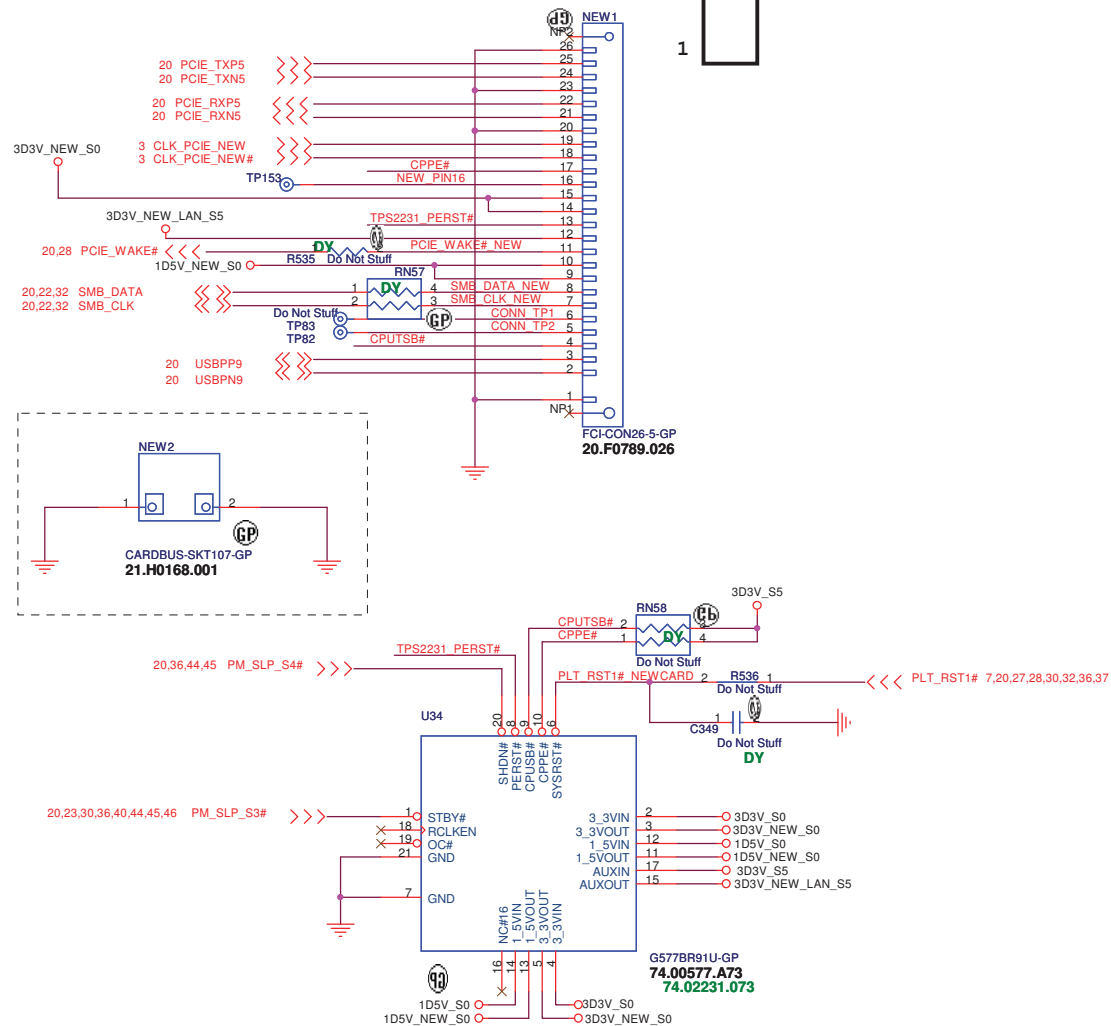
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Taipei Hsien 221, Taiwan, R.O.C.

Title		
LAN CONN		
Size	Document Number	Rev
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Date: Tuesday, April 01, 2008		Sheet 29 of 50

NEWCARD Connector

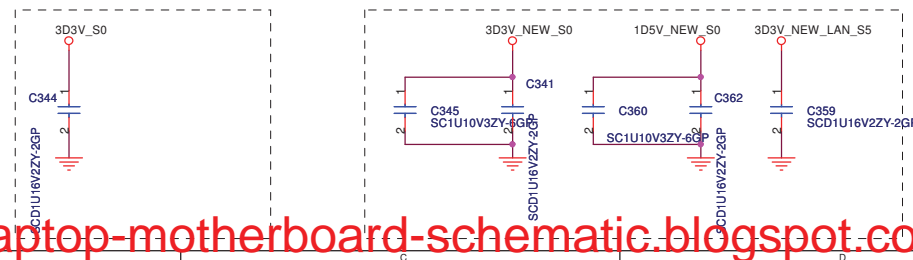
Reserve the symbol
for bottom side
connector

TOP VIEW



Place them Near to Chip

Place them Near to Connector



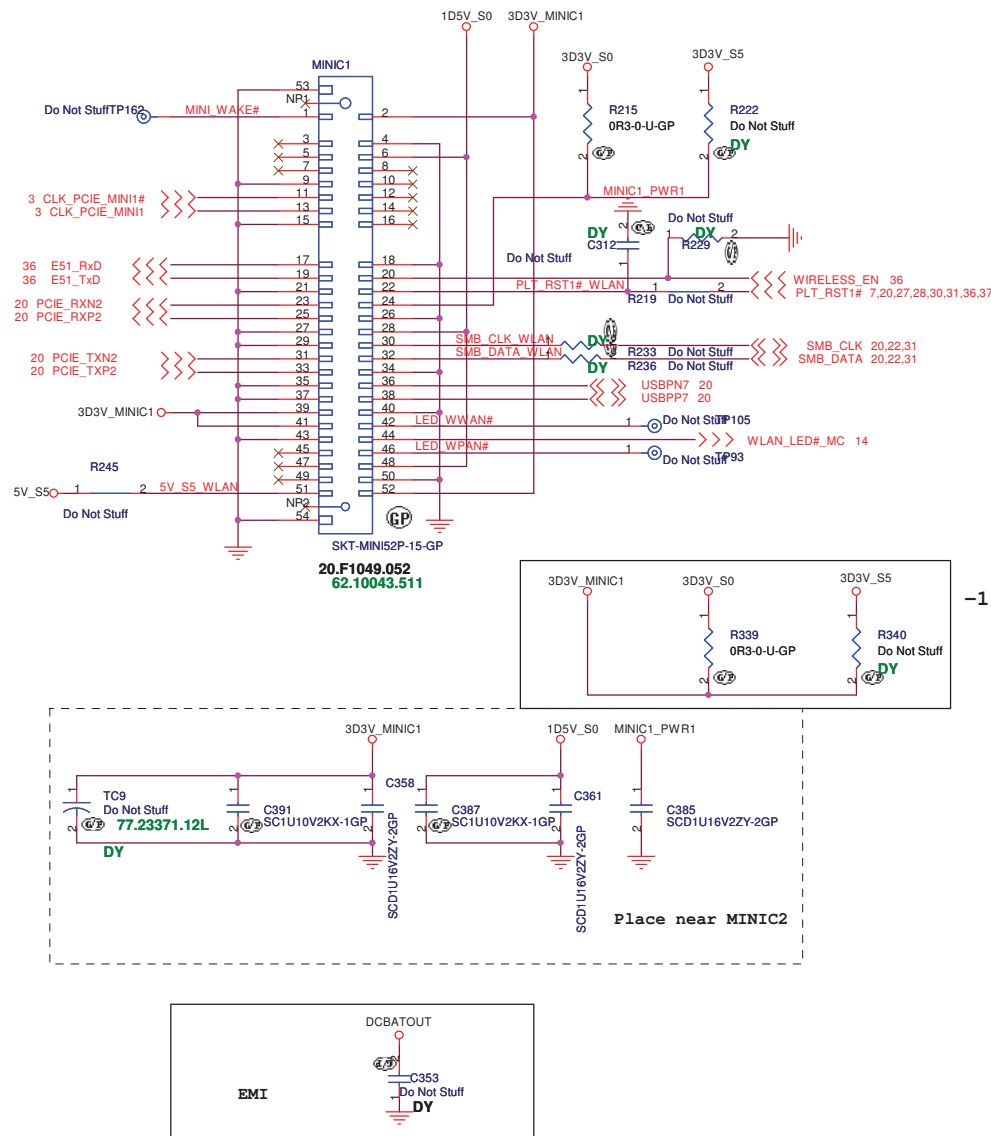
UMA

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

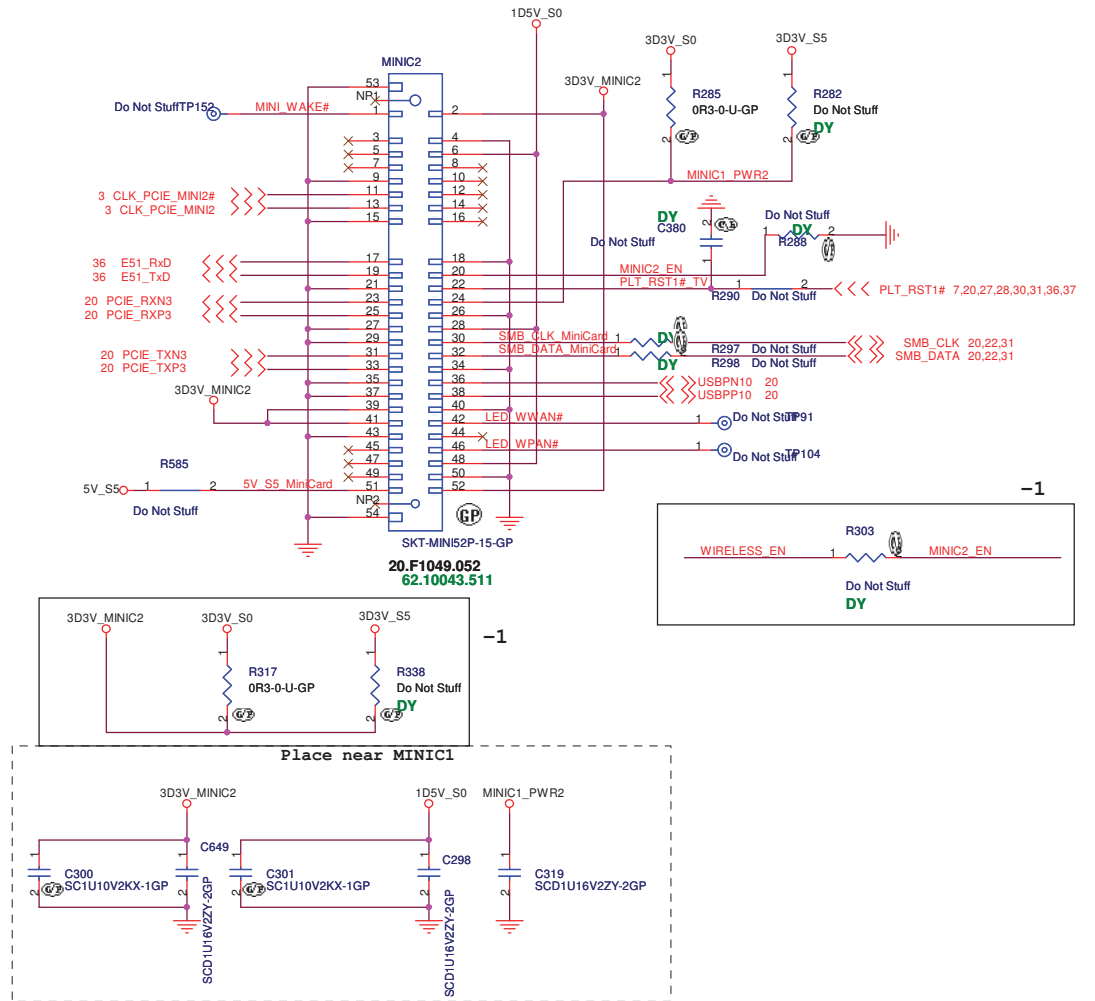
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Size	Document Number	Eiger	
Date: Tuesday, April 01, 2008	Sheet	31	of 50
Rev		-1	

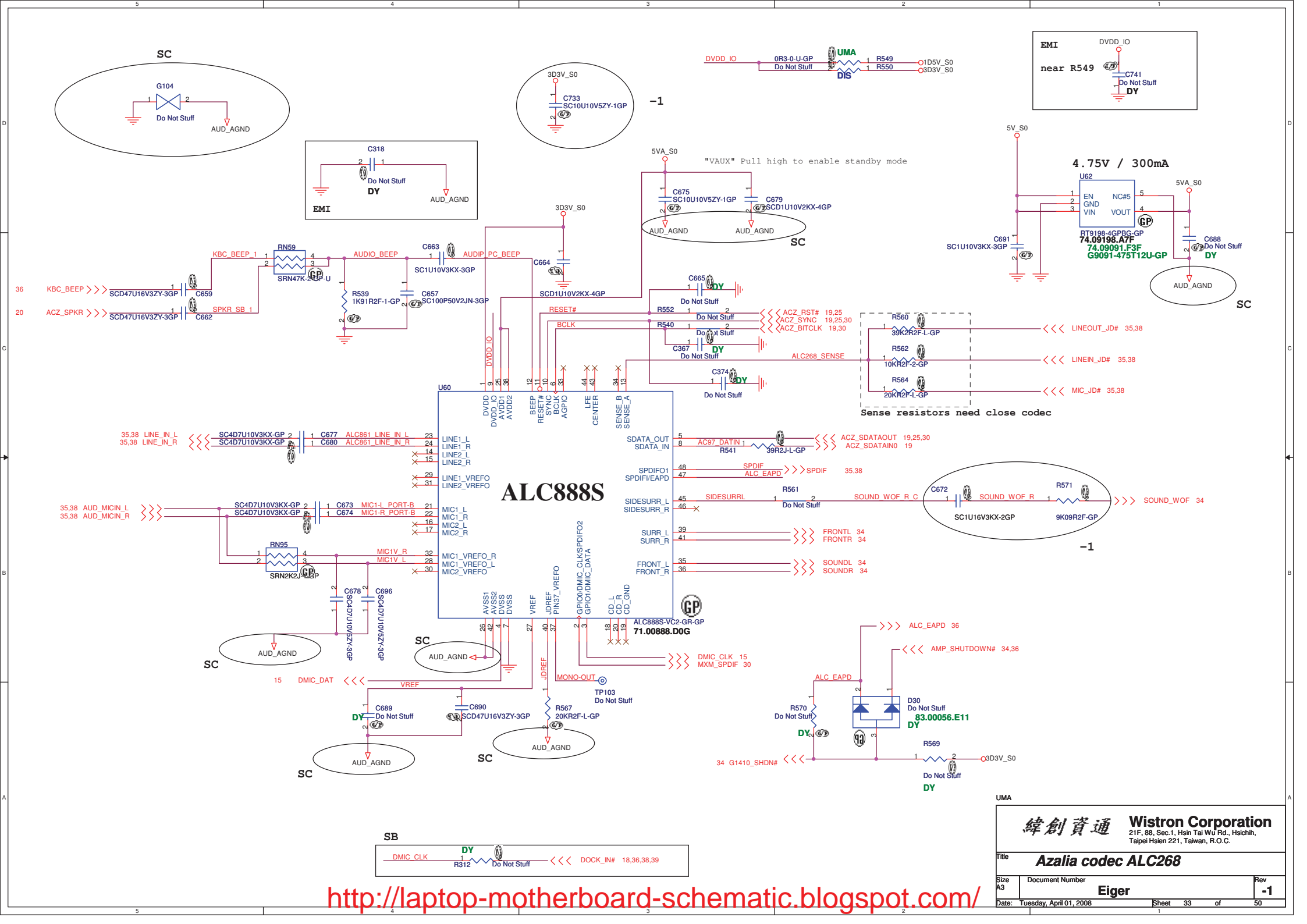
<http://laptop-motherboard-schematic.blogspot.com/>

Mini Card Connector(WLAN)



Mini Card Connector(TV)



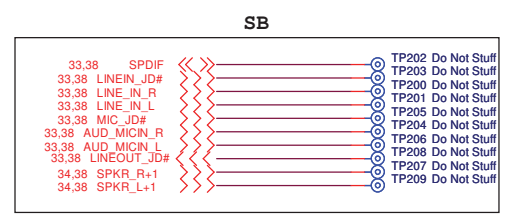
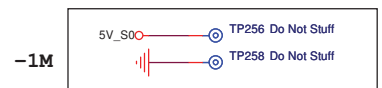
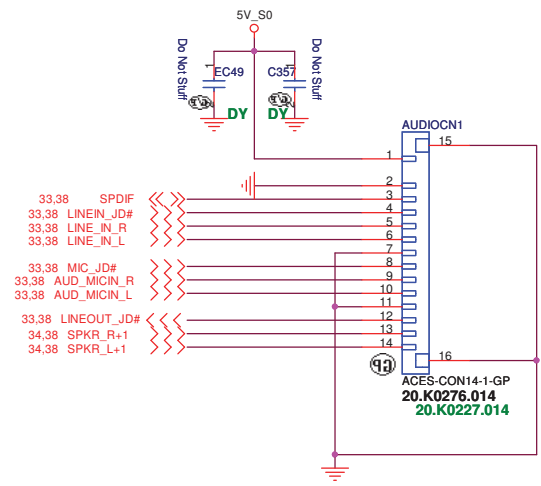


http://laptop-motherboard-schematic.blogspot.com/

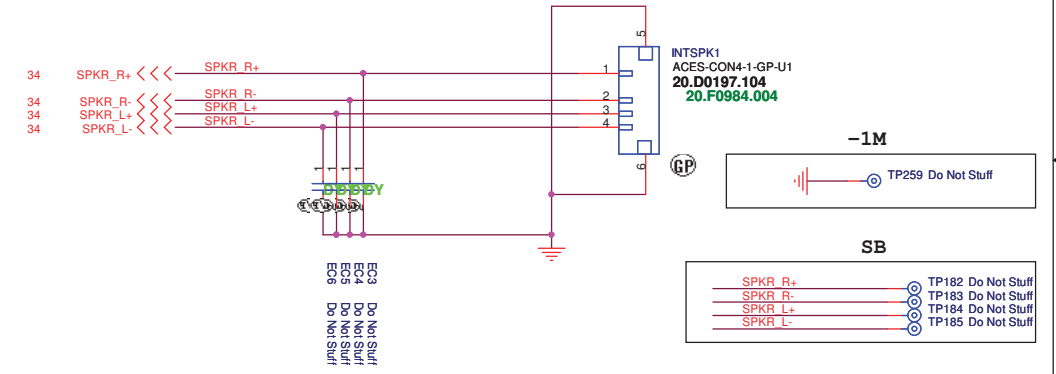


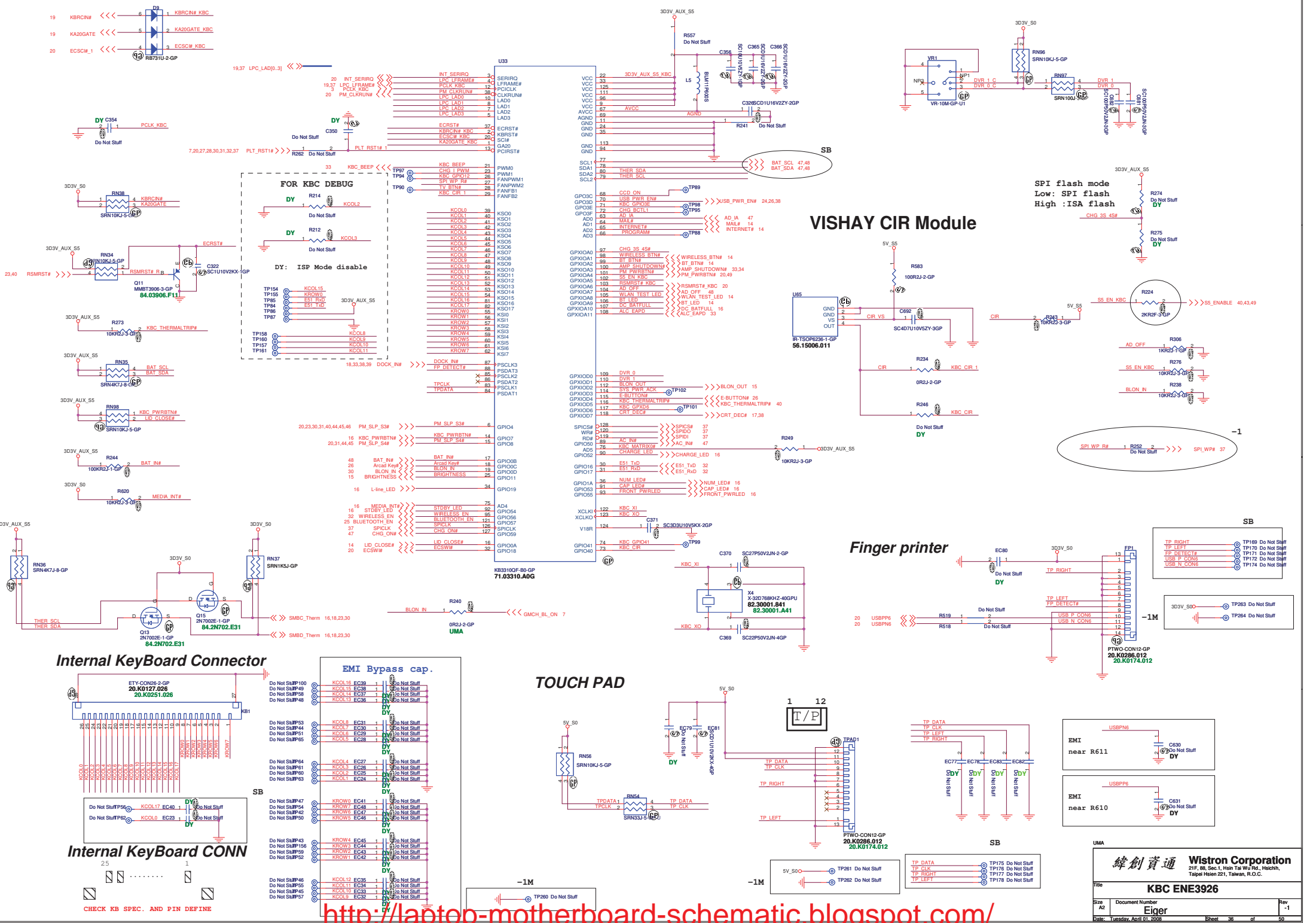
http://laptop-motherboard-schematic.blogspot.com/

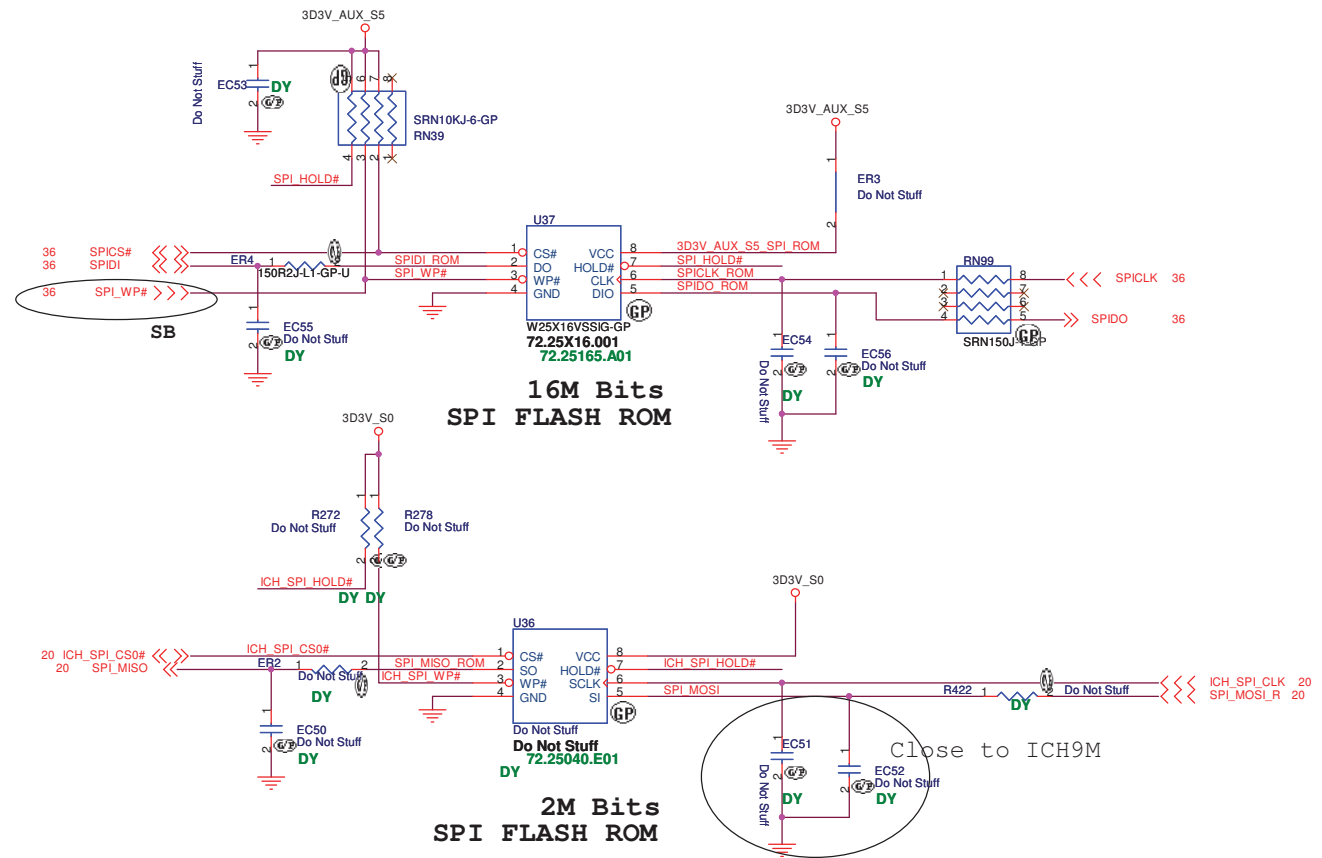




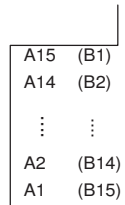
Internal Speaker



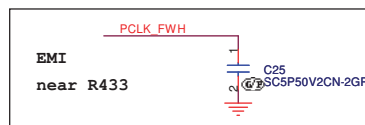




TOP VIEW

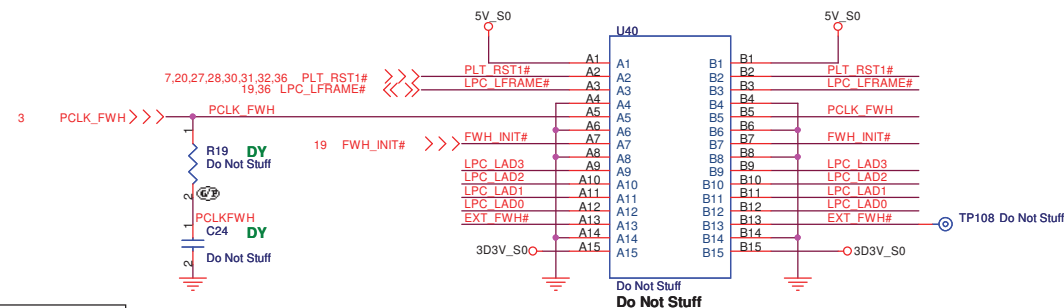


(BOTTOM VIEW)



19,36 LPC_LAD[0..3] <<< LPC_LAD[0..3]

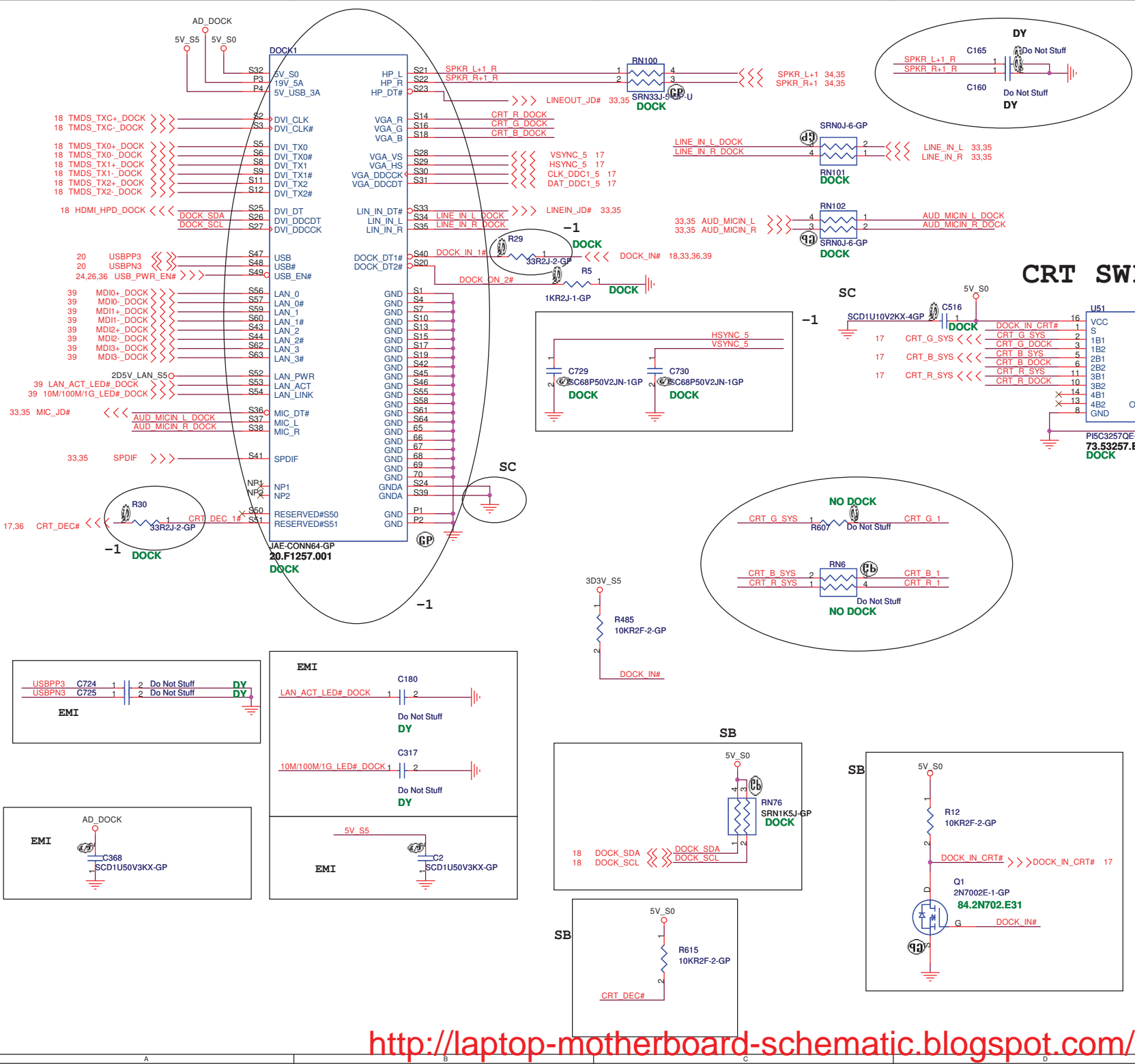
GOLDEN FINGER FOR DEBUG BOARD



UMA

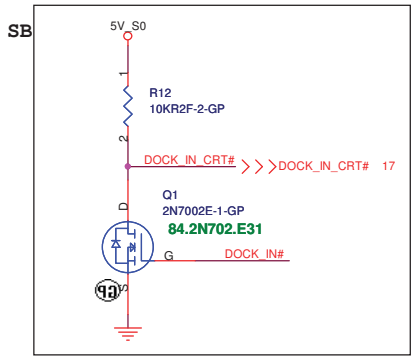
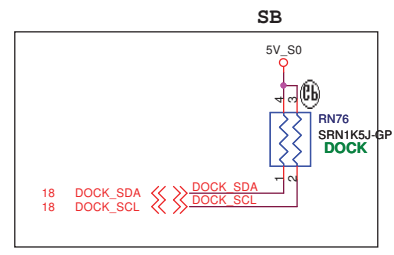
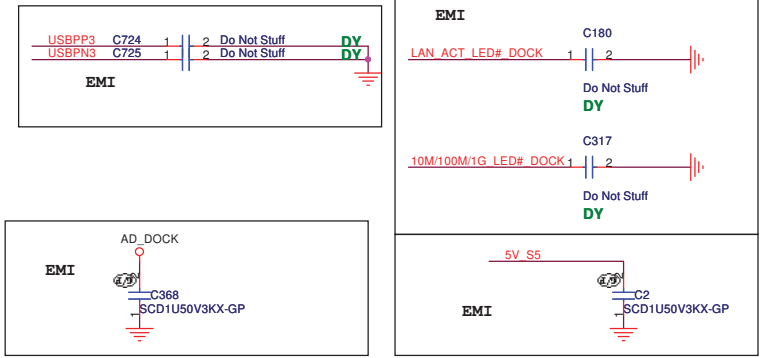
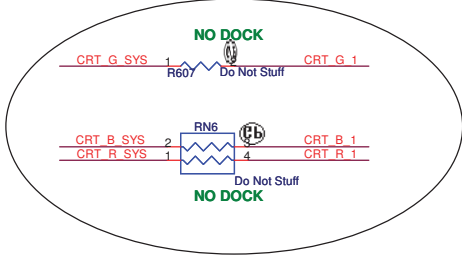
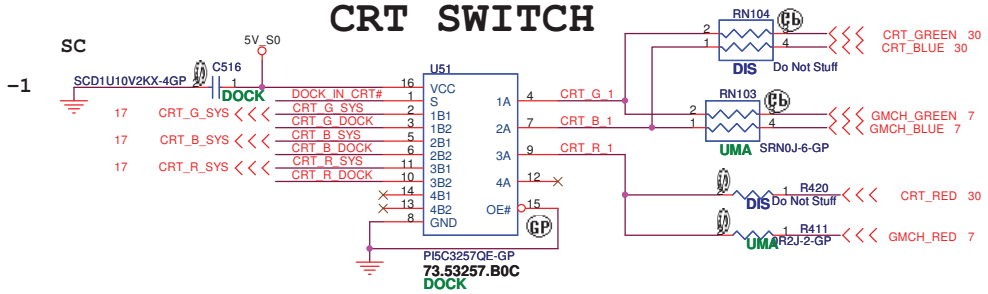
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21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title		BIOS	
Size	Document Number	Eiger	
Date: Tuesday, April 01, 2008	Sheet 37 of 49	Rev -1	

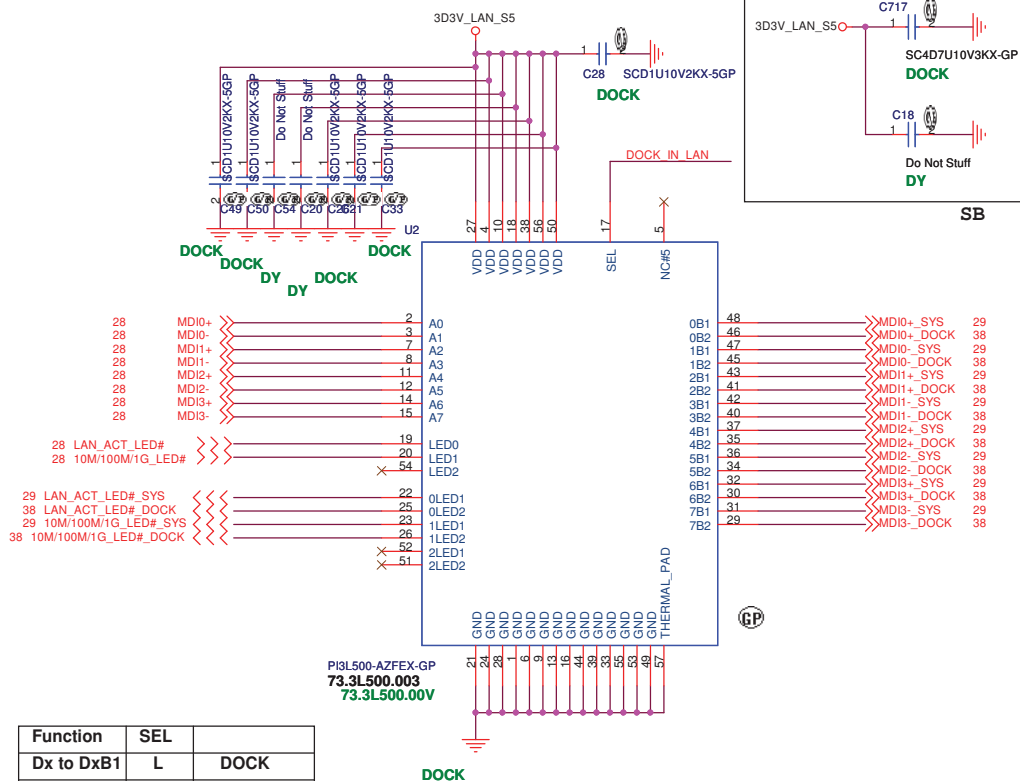


Function	SEL	
A to 1	L	SYSTEM
A to 2	H	DOCK

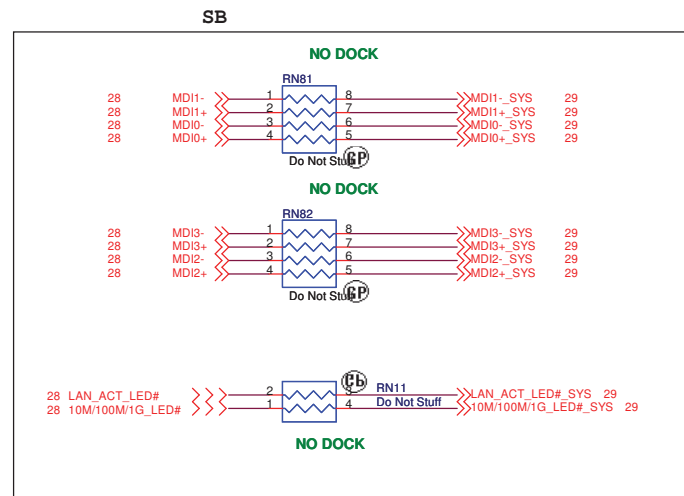
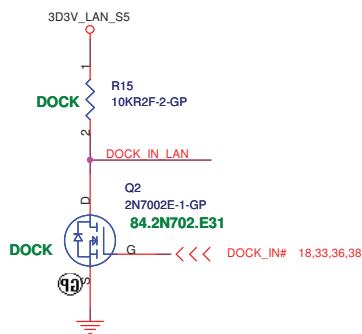
CRT SWITCH



LAN switch



Function	SEL	
Dx to Dx B1	L	DOCK
Dx to Dx B2	H	SYSTEM



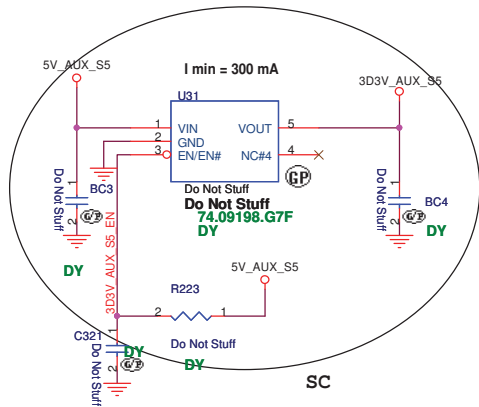
UMA

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

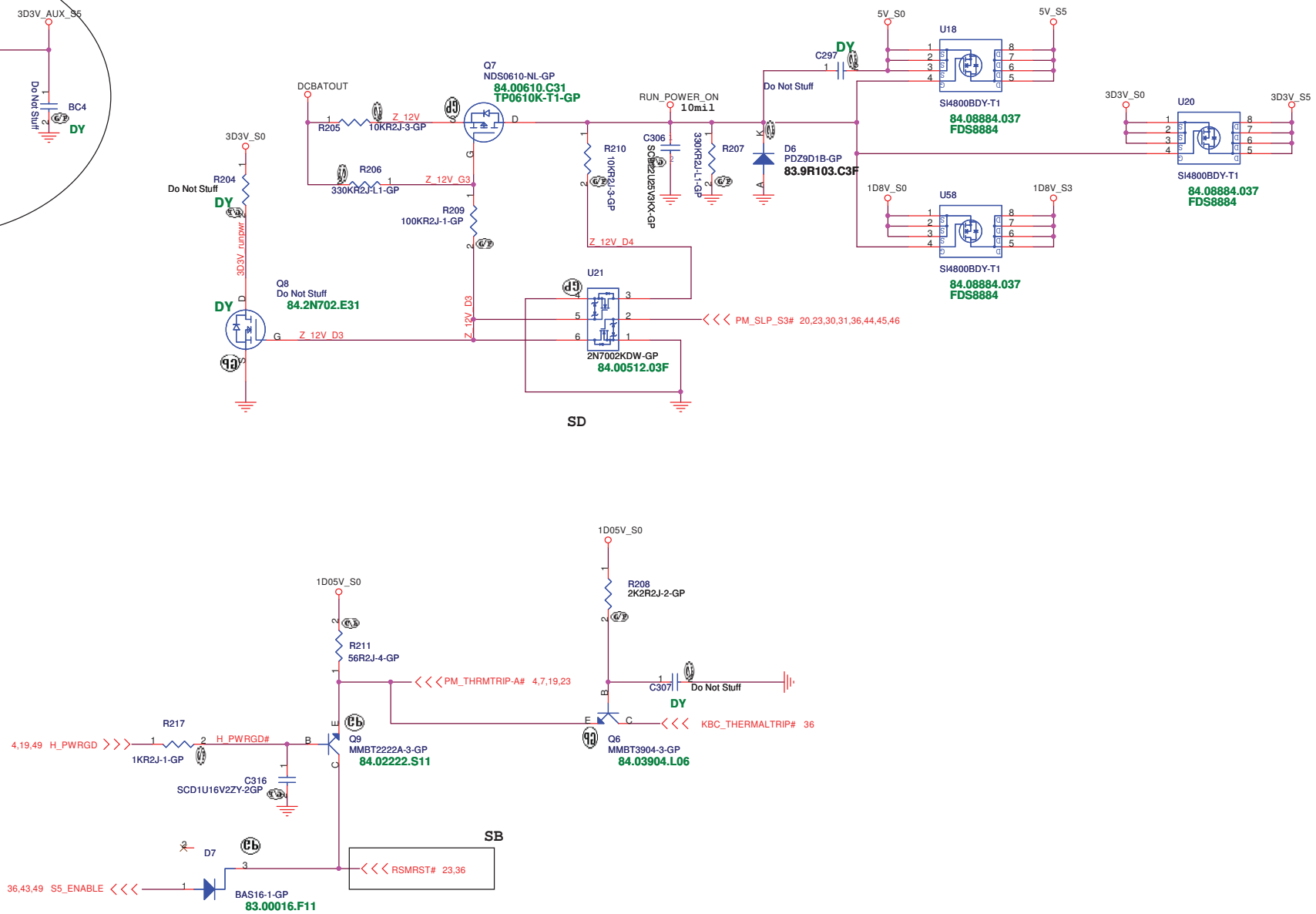
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Size A3	Document Number Eiger	Rev -1
Date: Tuesday, April 01, 2008	Sheet 39 of 49	

Aux Power 3D3V_AUX_S5

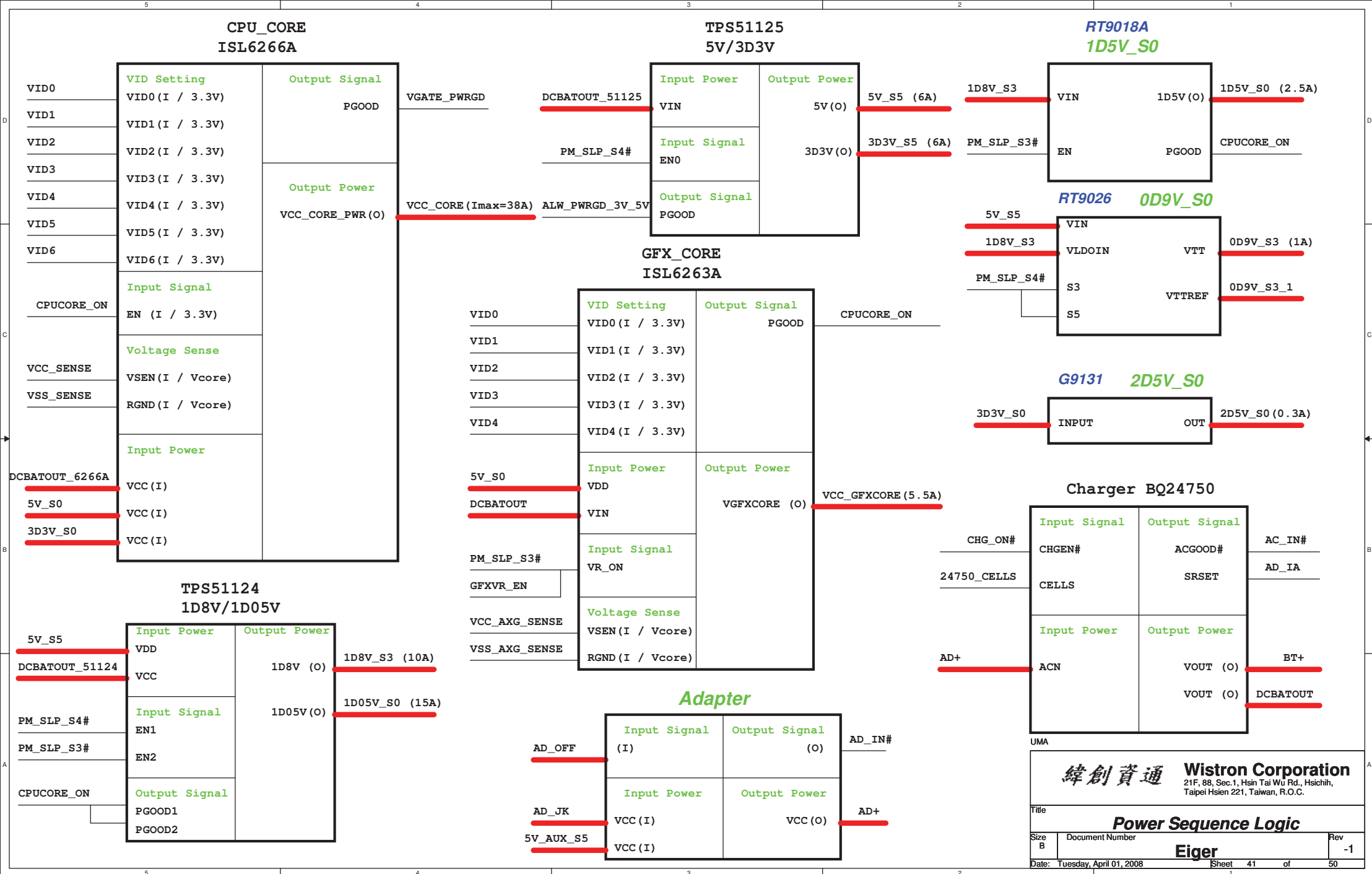


Run Power

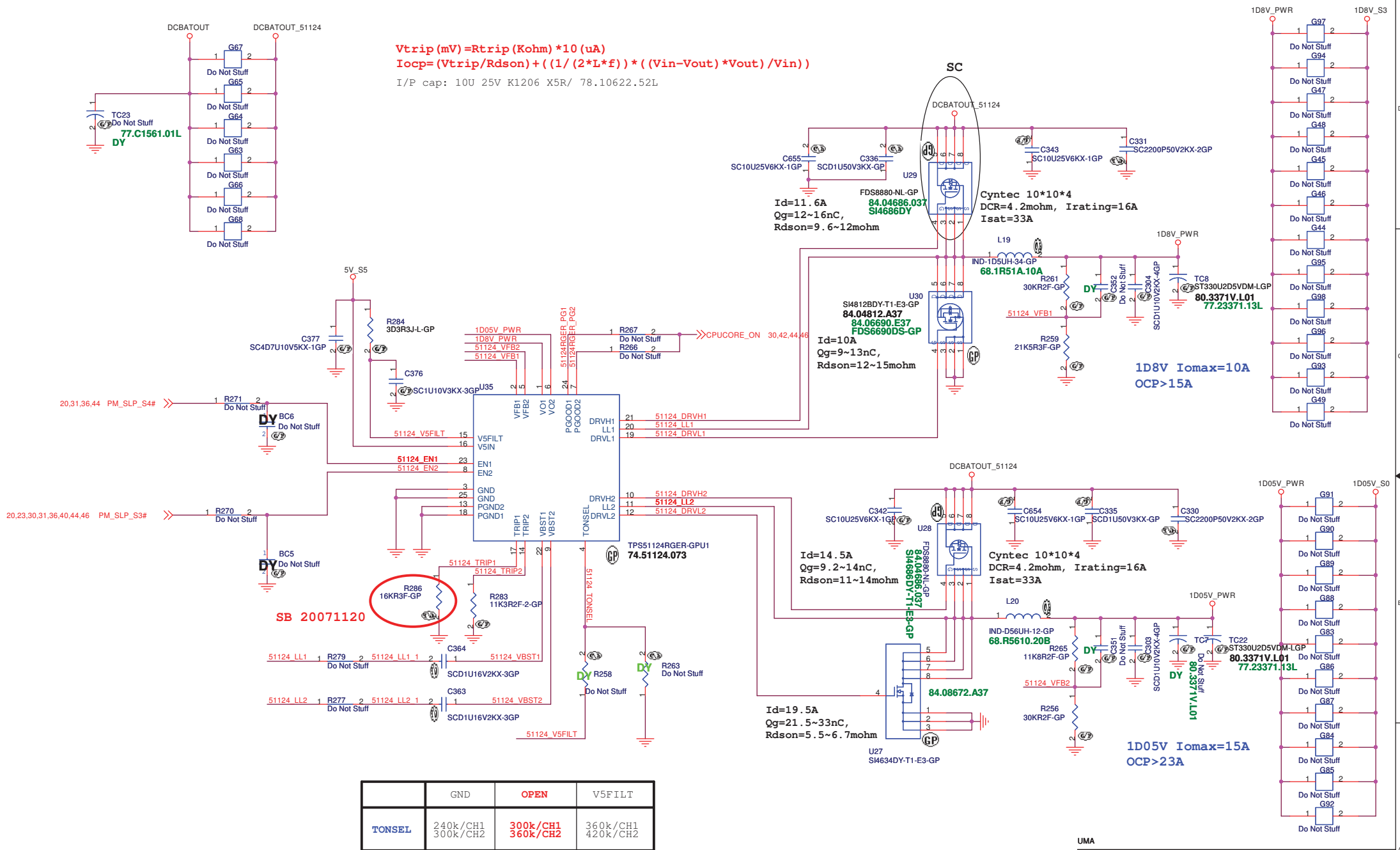


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Title	RUN POWER and 3D3V_AUX_S5
Size	Document Number
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Eiger -1	







Vout=0.758V* (R1+R2) /R2 --> PWM mode
 Vout=0.764V* (R1+R2) /R2 --> Skip Mode

<http://laptop-motherboard-schematic.blogspot.com/>

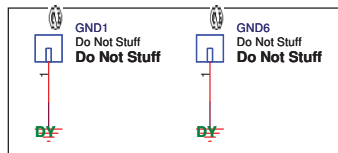
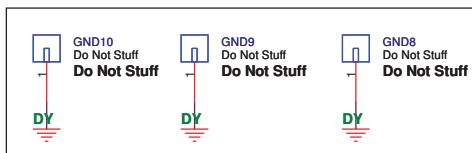
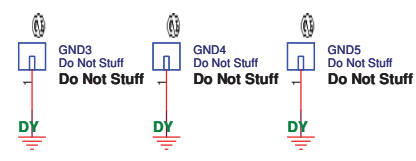
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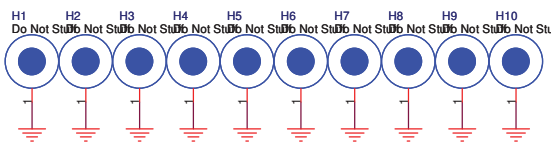
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 Size: A3 Document Number: **Eiger** Rev: **-1**
 Date: Tuesday, April 01, 2008 Sheet: 45 of 50

BATTERY CONNECTOR

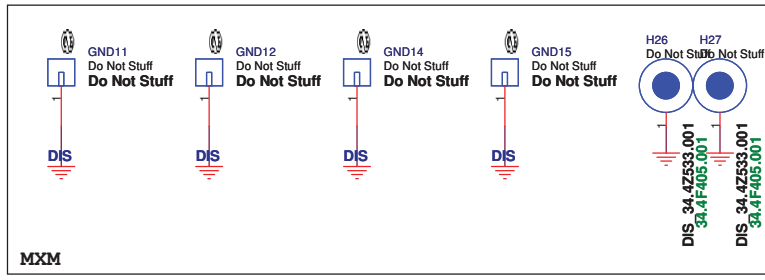
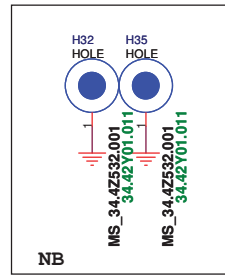
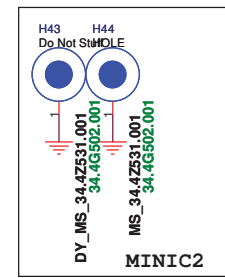
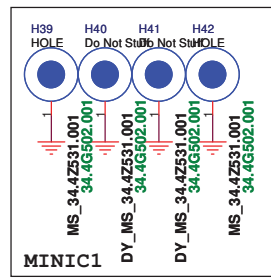
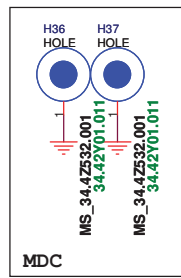
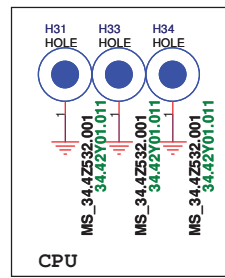
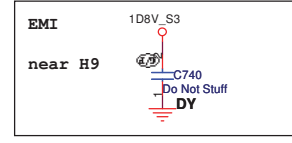
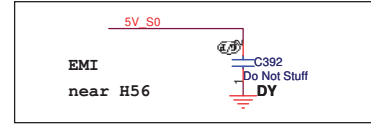
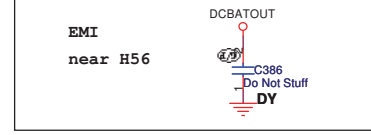
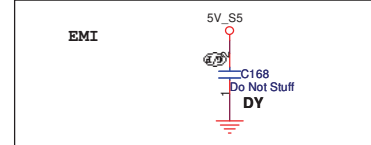
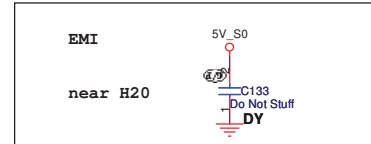
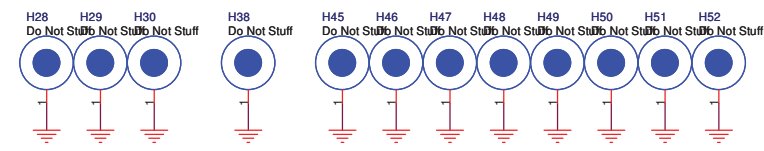
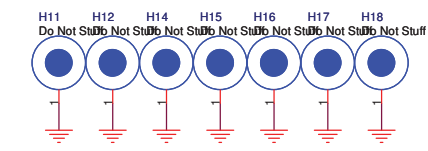




SB



HDD



SB

Check test point

3D3V_S0	TP92	Do Not Stuff
3D3V_AUX_S0	TP223	Do Not Stuff
3D3V_S0	TP173	Do Not Stuff
5V_S0	TP224	Do Not Stuff
20,36 PM_PWRBTN#	TP222	Do Not Stuff
4,19,40 H_PWRGD	TP221	Do Not Stuff
36,40,43 S5_ENABLE	TP166	Do Not Stuff
4,6 H_CPURST#	TP133	Do Not Stuff

Test Point 放在 Dimm Door 打開可量測處

Eiger Schematic EC Tracking Record LAB Dec.10 , 2007
EC #/ Page / Description / Part Affected

- EC SB01/07/ DY R175 (fix can not boot)
- EC SB02/07/ change R184 (intel spec change)
- EC SB03/10/ mount L2,C221 (intel spec change)
- EC SB04/15/ modify LCD2 pin define(add dig-MIC,backlight)
- EC SB05/17/ DOCK_IN_CRT# logic change
- EC SB06/18/ change HDMI level shift IC setting
- EC SB07/19/ change R606(meet HDA SPEC)
- EC SB08/23/ change PURE_HW_SHUTDOWN# ,PM_THRMTRIP-A# schematic
- EC SB09/26/ change C648 ,deltree poly switch
- EC SB10/27/ change R555,R557,R559 (vendor request)
- EC SB11/30/ change R612 (vendor request)
- EC SB12/34/ add C711 (fix audio noise)
- EC SB13/36/ add SPL_WP# (BIOS wirte protect)
- EC SB14/38/ add CRT_DEC# (Acer change spec)
- EC SB15/38/ add dock/no dock option schematic
- EC SB16/40/ D7(power sequencing)
- EC SC01/16/ R595,R596,R597,R598(LED)
- EC SC02/18/ HEMI level shift & switch solution change
- EC SC03/19/ ESATA function
- EC SC04/23/ H/W Thermal shut down,power off Sequence
- EC SC05/24/ Add ESATA circuit
- EC SC06/30/ Add R116(MXM aczrst# Acer request)
- EC SC07/33/ Add audio gound
- EC SC08/34/ Change audio AMP circuit
- EC SC09/38/ Add RC circuit to reduce audio noise
- EC SC10/40/ 3D3V_AUX_S5 from U32 internal LDO
- EC SC11/43/ Change 5V to 5.1V
- EC SC12/47/ Isolate Change IC switching high side MOS input power
- EC SC13/48/ Isolate AD19V in and Dock19V in

UMA

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Title

EC Tracking Record

Size

Document Number

Rev

Eiger

-1

Date: Tuesday, April 01, 2008

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