

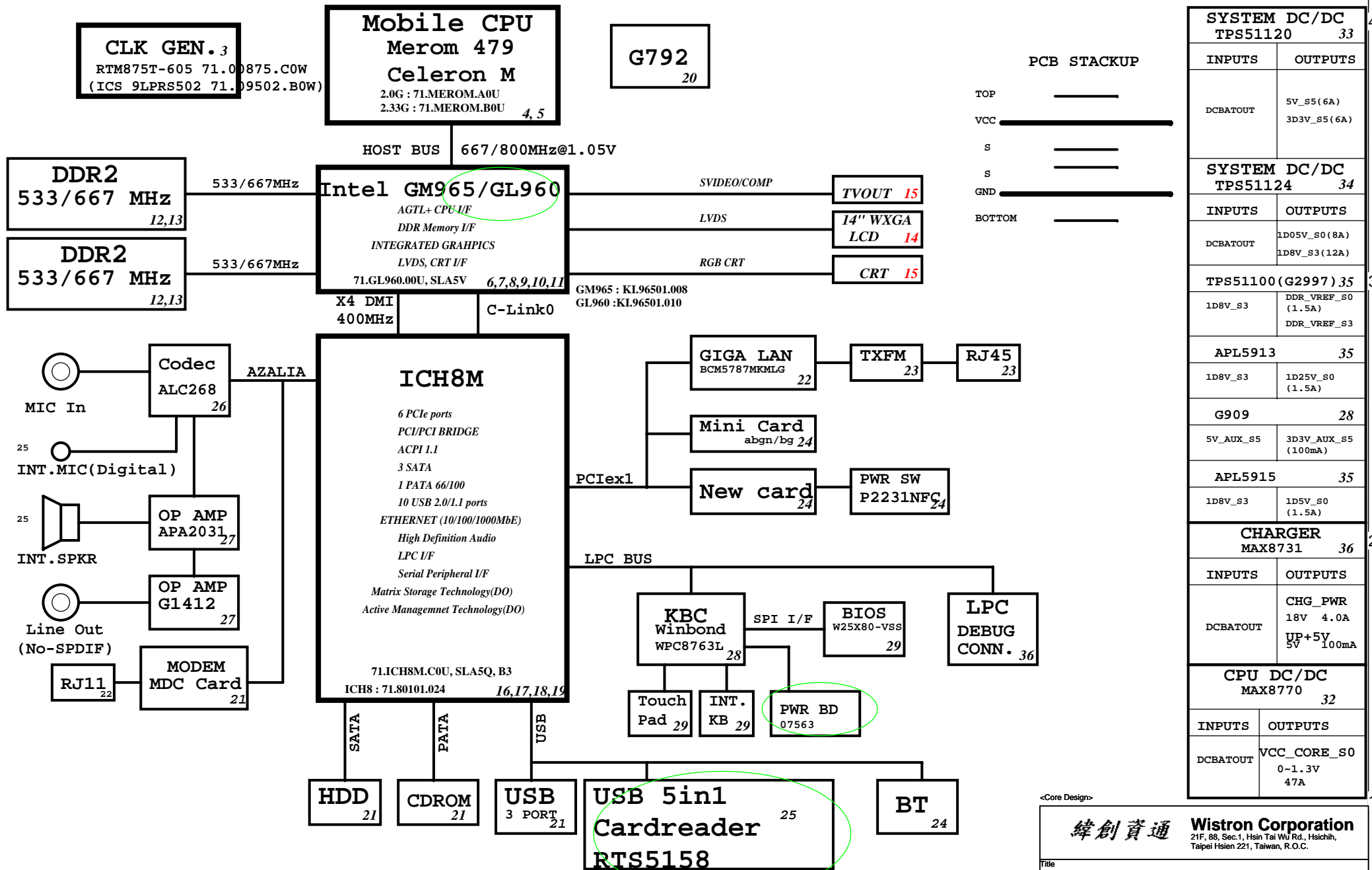
Calado Block Diagram

www.bufanxiu.com

Project code: 91.4X401.001

PCB P/N : 07227

REVISION : -1



<Core Design>

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

BLOCK DIAGRAM			
Size A3	Document Number	Rev	-1
Calado			
Date: Thursday, September 13, 2007	Sheet 1	of	39

ICH8M Functional Strap Definitions

ICH8-M EDS 21762 2.0V1 page 16

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)
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#	PCIE config2 bit0, 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#	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#	Boot BIOS Destination Selection. 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.
INTVRMEN	Integrated VccSus1_05, VccSus1_5 and VccCL1_5 VRM Enable/Disable. Always sampled.	Enables integrated VccSus1_05, VccSus1_5 and VccCL1_5 VRM's when sampled high
LAN100_SLP	Integrated VccLAN1_05 and VccCL1_05 VRM Enable/Disable. Always sampled.	Enables integrated VccLAN1_05 and VccCL1_05 VRM's when sampled high
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(ICH8 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	This signal has a weak internal pull-up. Sampled low:the Flash Descriptor Security will be overridden. If high,the security measures will be in effect.This should only be used in manufacturing environments.

ICH8M IDE Integrated Series Termination Resistors

DD[15:0], D1OW#, DIOR#, DREQ, DDACK#, IORDY, DA[2:0], DCS1#, DCS3#, IDEIRQ	approximately 33 ohm
--	----------------------

PCIE Routing

LANE1	LAN Marvell
LANE2	MiniCard WLAN
LANE3	NewCard WLAN

USB Table

USB	
Pair	Device
0	USB1
1	NC
2	USB2
3	NC
4	USB3
5	BT
6	Cardreader
7	MINICARD
8	CCD
9	NEW1

ICH8M Integrated Pull-up

and Pull-down Resistors

ICH8-M EDS 21762 2.0V1

SIGNAL	Resistor Type/Value
HDA_BIT_CLK	PULL-DOWN 20K
HDA_RST#	NONE
HDA_SDIN[3:0]	PULL-DOWN 20K
HDA_SDOUT	PULL-DOWN 20K
HDA_SYNC	PULL-DOWN 20K
GNT[3:0]	PULL-UP 20K
GPIO[20]	PULL-DOWN 20K ?
LDA[3:0]#/FHW[3:0]#	PULL-UP 20K
LAN_RXD[2:0]	PULL-UP 10K
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#	PULL-UP 20K
SPI_CLK	PULL-UP 20K
SPI_MOSI	PULL-UP 20K
SPI_MISO	PULL-UP 20K
TACH_[3:0]	PULL-UP 20K ?
SPKR	PULL-DOWN 20K
TP[3]	PULL-UP 20K
USB[9:0][P,N]	PULL-DOWN 15K
CL_RST#	PULL-UP 13K

History

Crestline Strapping Signals and Configuration

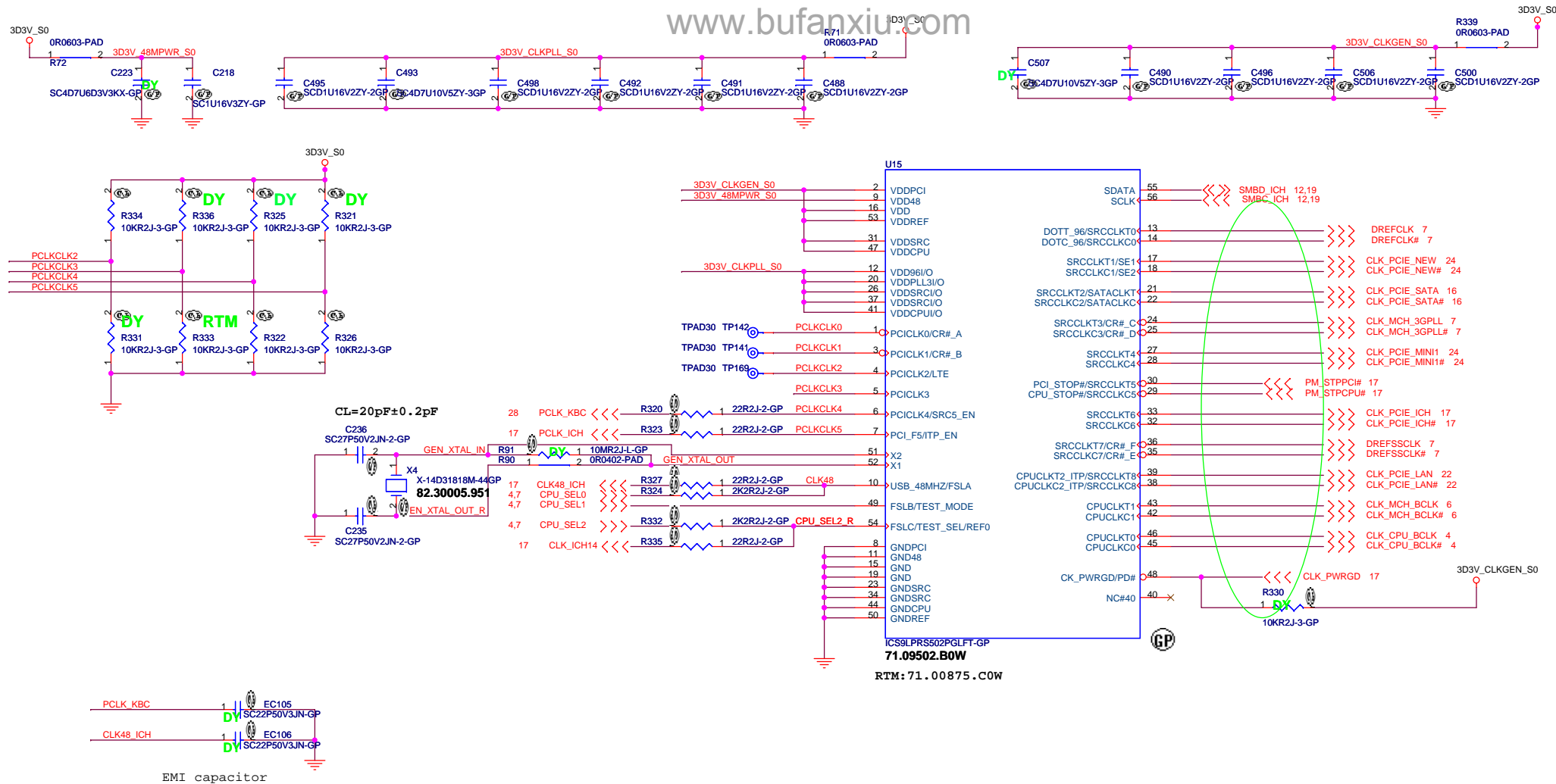
Crestline EDS 20954 1.0 page 7

Pin Name	Strap Description	Configuration
CFG[2:0]	FSB Frequency Select	001 = FSB533 011 = FSB667 010 = FSB800 others = Reserved
CFG[4:3]	Reserved	
CFG5	DMI x2 Select	0 = DMI x2 1 = DMI x4 (Default)
CFG[8:6]	Reserved	
	Low Power PCI Express	0 = Normal mode 1 = Low Power mode (Default)
CFG9	PCI Express Graphics Lane Reversal	0 = Reverse Lanes,15->0,14->1 ect.. 1= Normal operation(Default):Lane Numbered in order
CFG[11:10]	Reserved	
CFG[13:12]	XOR/ALL Z test straps	00 = Reserved 01 = XOR mode enabled 10 = All Z mode enabled 11 = Normal Operation (Default)
CFG[15:14]	Reserved	Reserved
CFG16	FSB Dynamic ODT	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled (Default)
CFG[18:17]	Reserved	
CFG19	DMI Lane Reversal	0 = Normal operation (Default):lane Numbered in order 1 =Reverse Lane,4->0,3->1 ect...
CFG20	SDVO/PCIE Concurrent	0 = Only SDVO or PCIE x1 is operational (Default) 1 =SDVO and PCIE x1 are operating simultaneously via the PEG port
SDVOCRTL _DATA	SDVO Present	0 = No SDVO Card present (Default) 1= SDVO Card present

NOTE: All strap signals are sampled with respect to the leading edge of the Crestline GMCH PWORK in signal.

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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Reference			
Size A3	Document Number	Rev -1	
Date: Monday, September 10, 2007		Sheet 2 of	39



ICS9LPR502HGLFT-GP 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
PCI4/SRC5_EN	0 = Pin29 as CPU_STOP#, pin 30 as PCI_STOP#. 1 = Pins29,30 as SRC-5 differential pair.
PCI_F5/ITP_EN	0 = SRC8/SRC8# 1 = ITP/ITP#

RTM875T-605 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/SRC-5_EN	0 = Pin29 as CPU_STOP#, pin 30 as PCI_STOP#. 1 = Pins29,30 as SRC-5 differential pair.
PCI4/27M_SEL	0 = Pin17 as SRC-1, Pin18 as SRC-1#, Pin13 as DOT96, Pin14 as DOT96# 1 = Pin17 as 27MHz, Pin 18 as 27MHz_SS, Pin13 as SRC-0, Pin14 as SRC-0#
PCI_F5/ITP_EN	0 = SRC8/SRC8# 1 = ITP/ITP#

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

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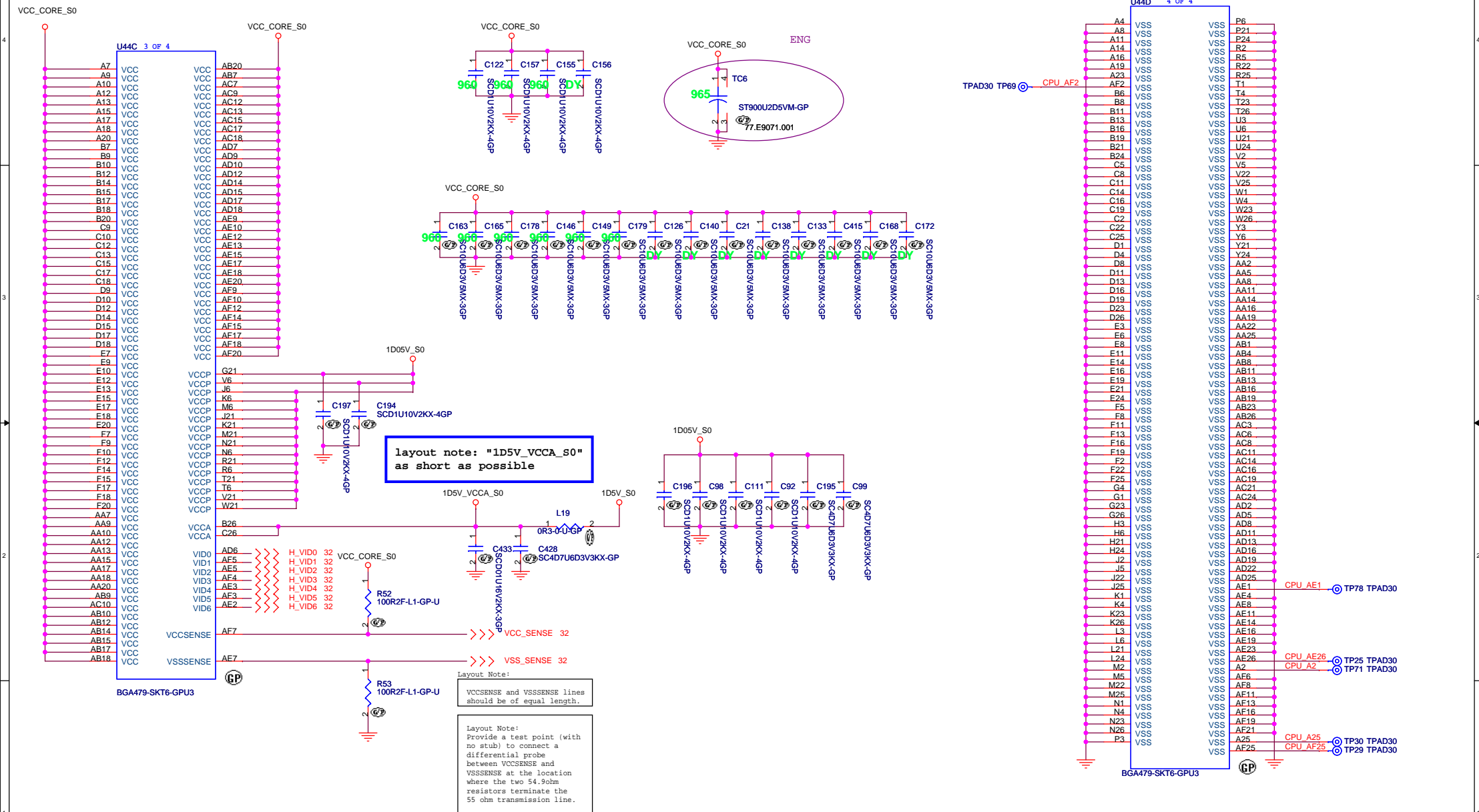
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Title			Rev
Clock Generator			
Size	Document Number		
Calado			-1
Date:	Wednesday, September 12, 2007	Sheet 3 of 39	

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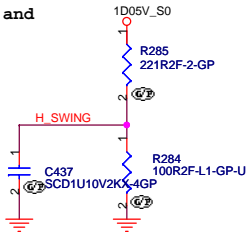
<p>緯創資通</p>	<p>Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</p>
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Title			
CPU (1 of 2)			
Size	Document Number		Rev
	Calado		-1
Date:	Wednesday, September 12, 2007		Sheet 4 of 39

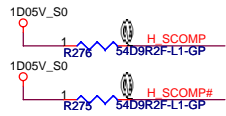


H_SWING routing Trace width and
Spacing use 10 / 20 mil

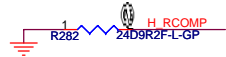
H_SWING Resistors and
Capacitors close MCH
500 mil (MAX)



H_SCOMP and H_SCOMP# Resistors and
Capacitors close MCH 500 mil (MAX)

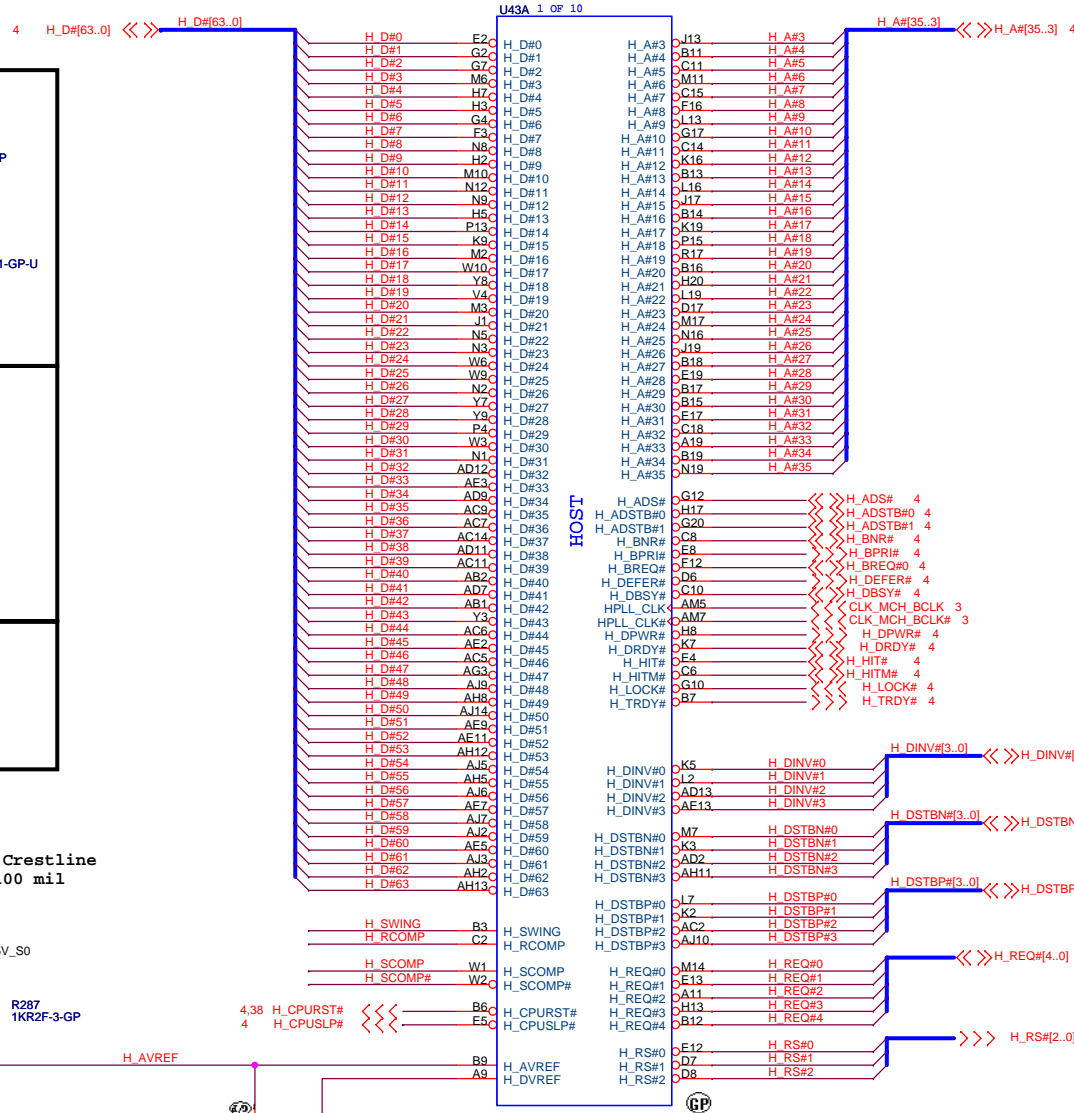
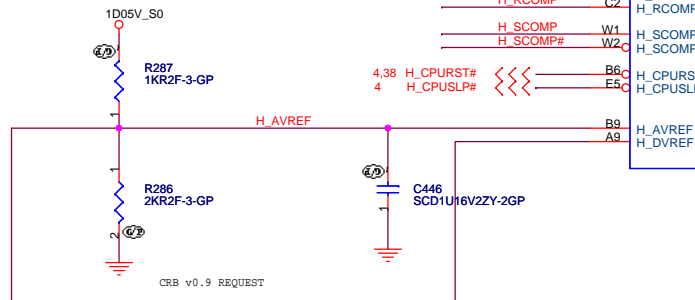


H_RCOMP routing Trace width and
Spacing use 10 / 20 mil



Place them near to the chip (< 0.5")

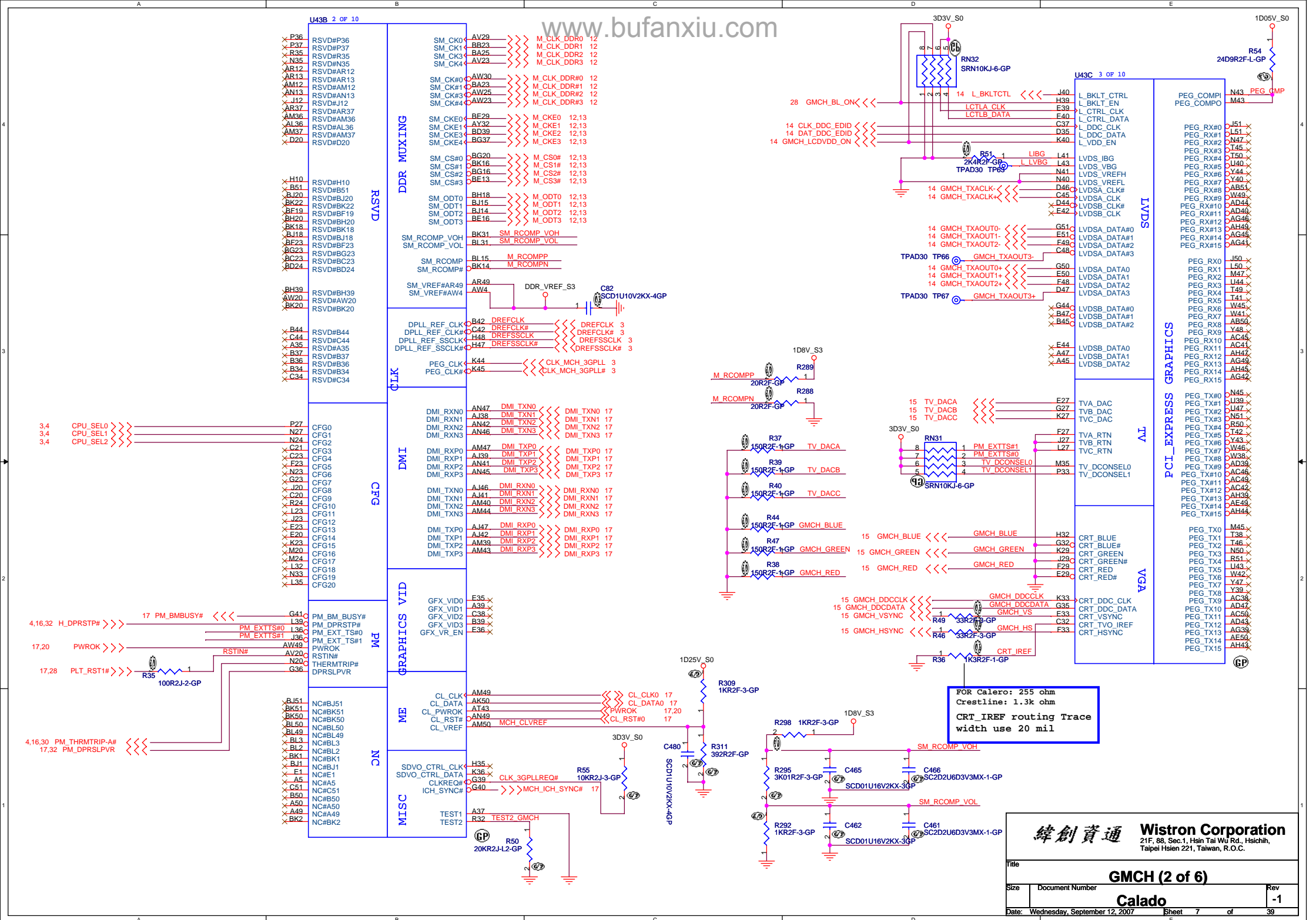
H_REF Decoupling Crestline
close Crestline 100 mil

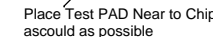


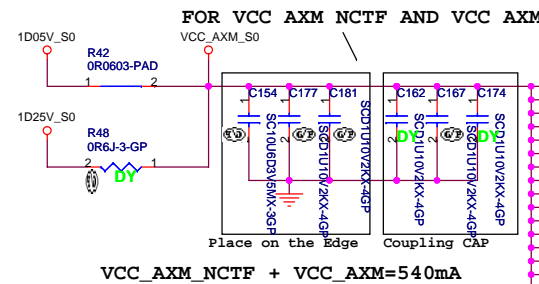
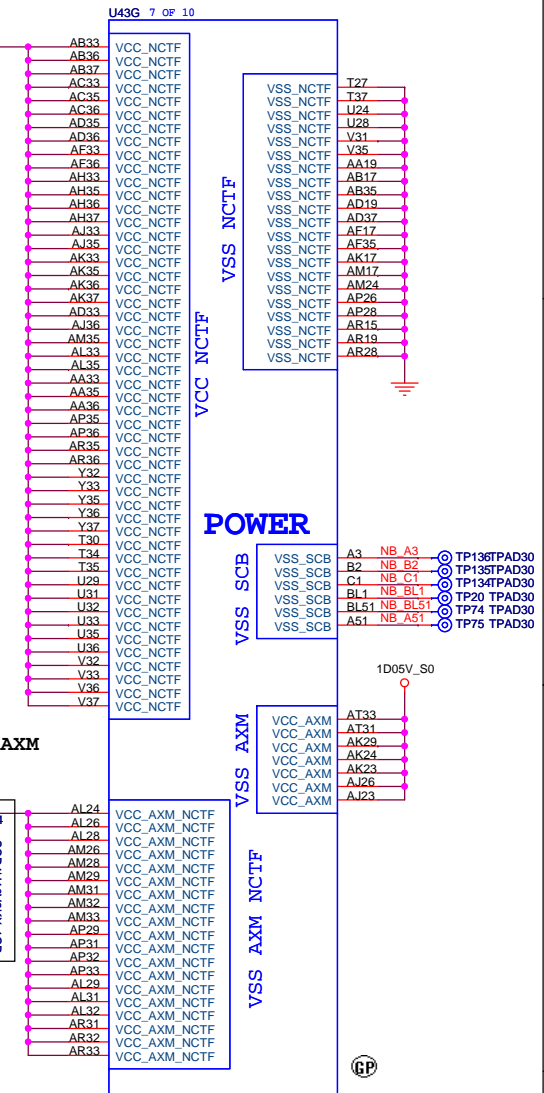
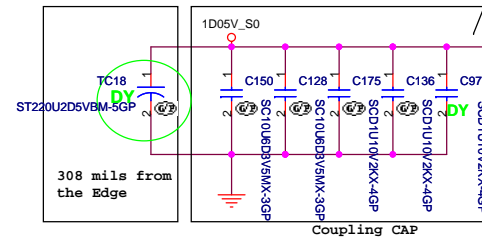
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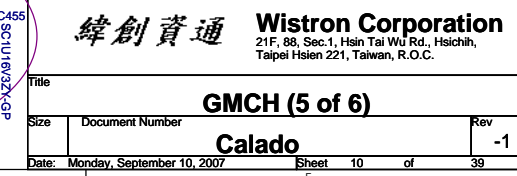
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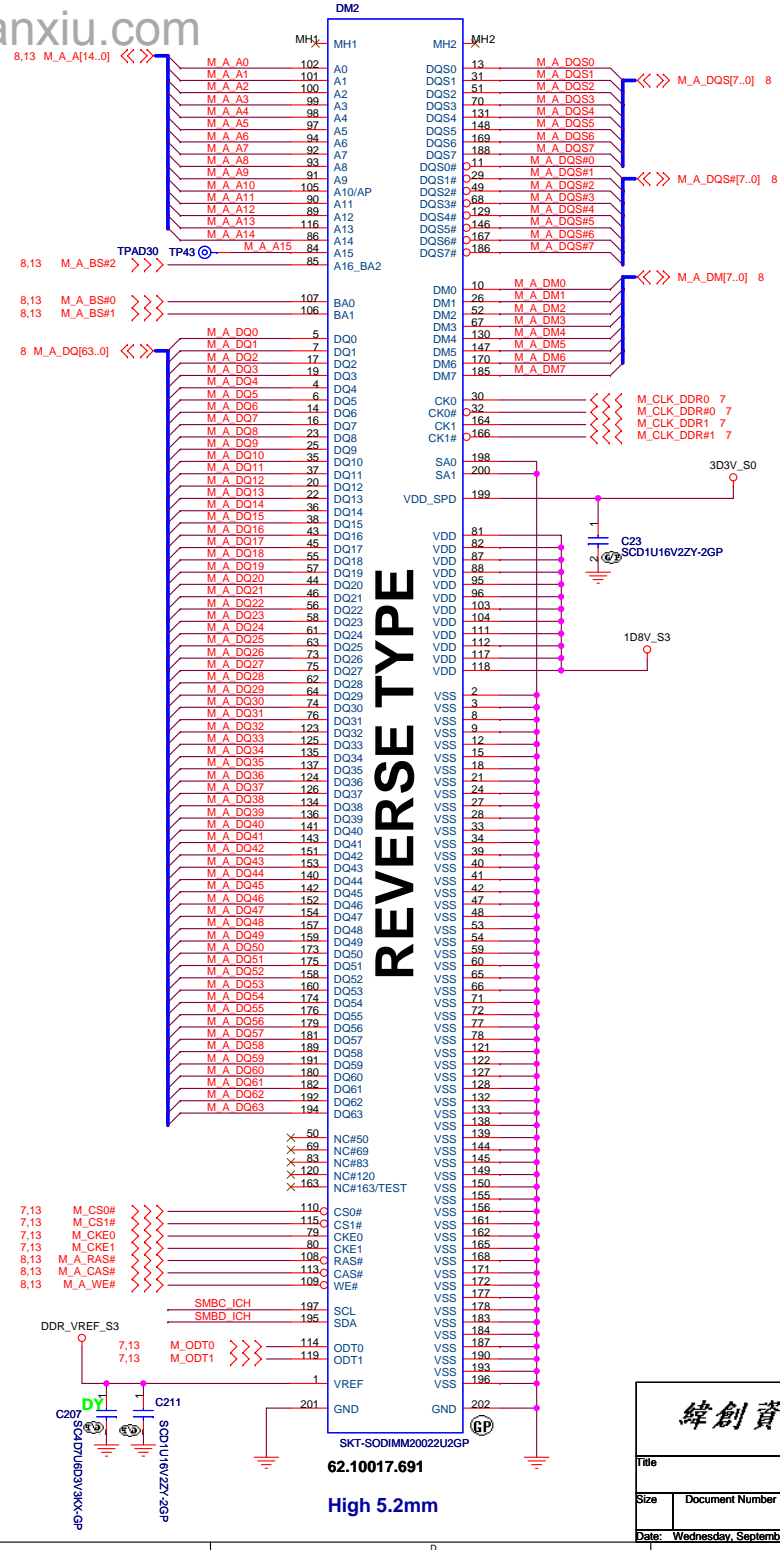
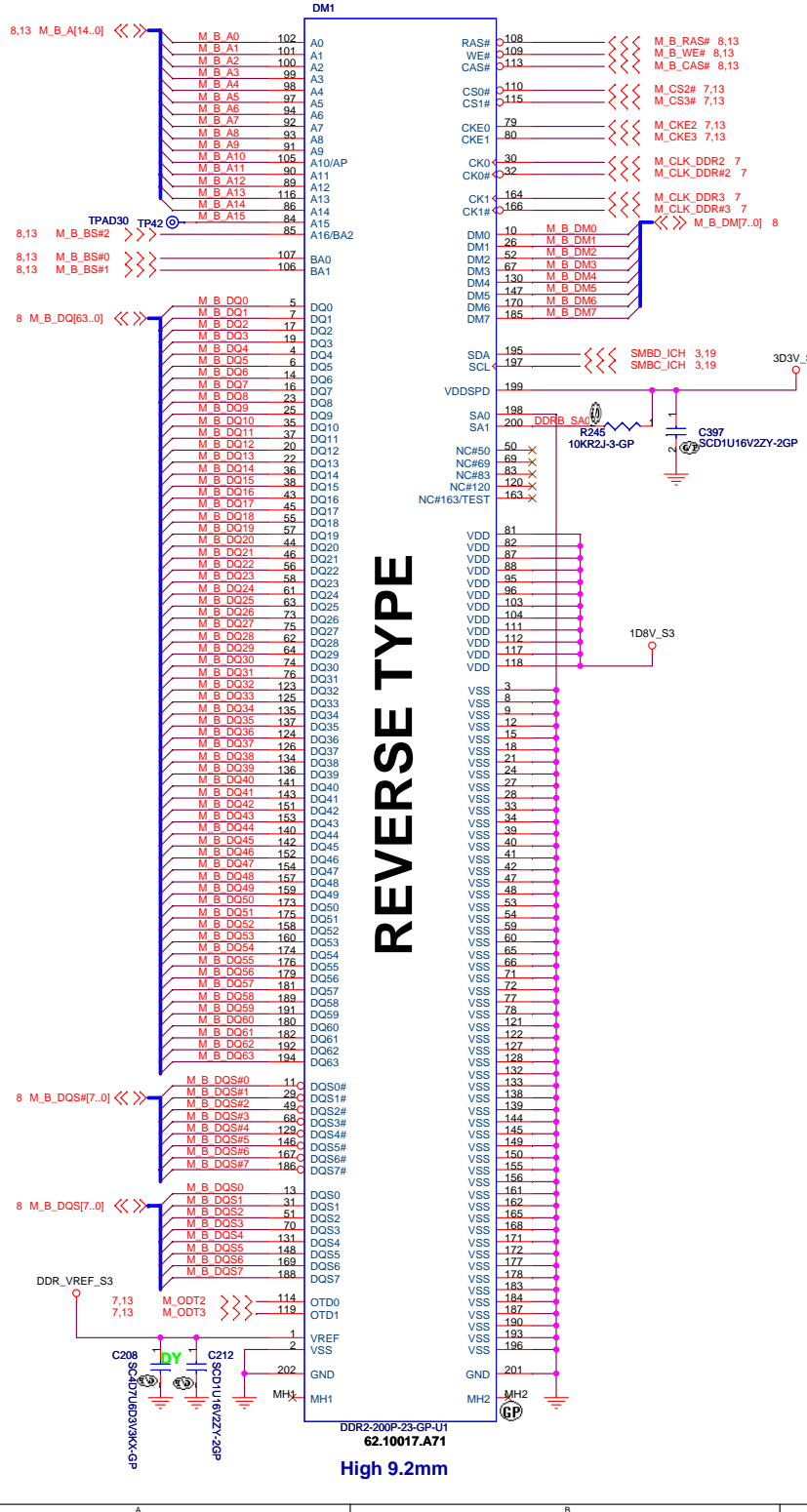
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Size	Document Number	Rev	
Calado		-1	
Date: Wednesday, September 12, 2007	Sheet 6 of 39		



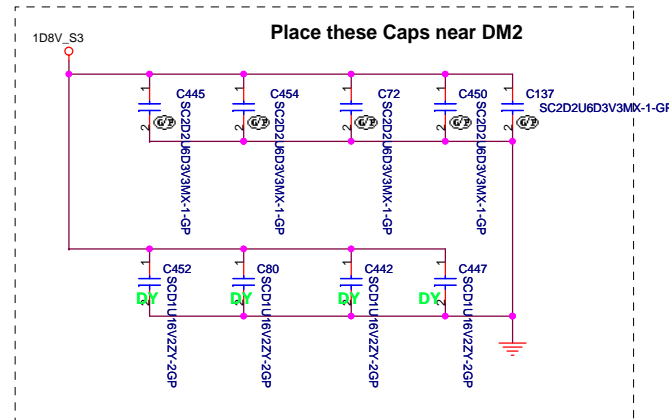
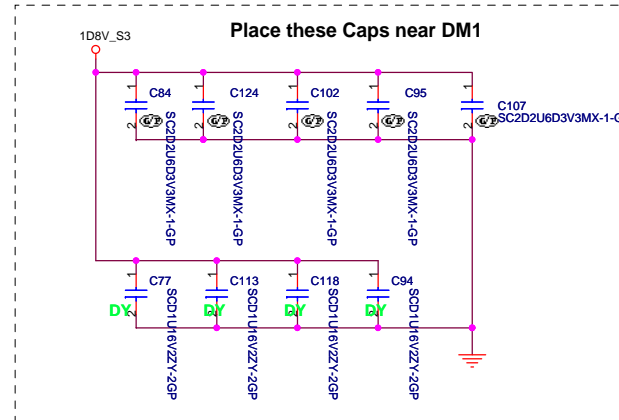
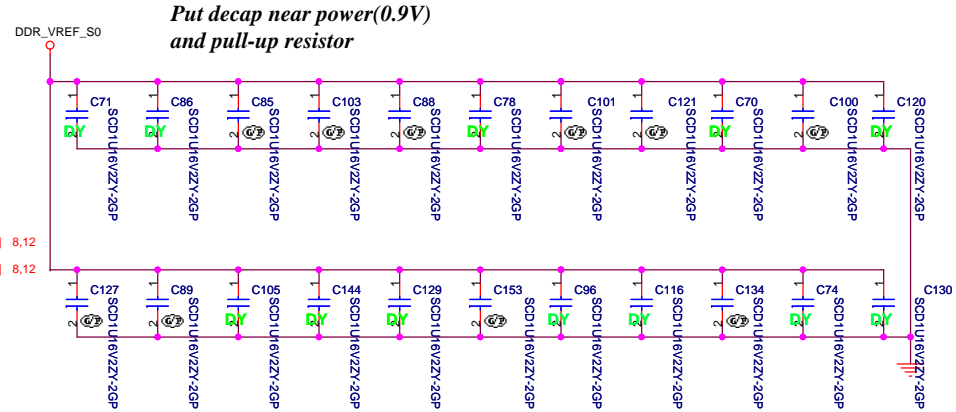
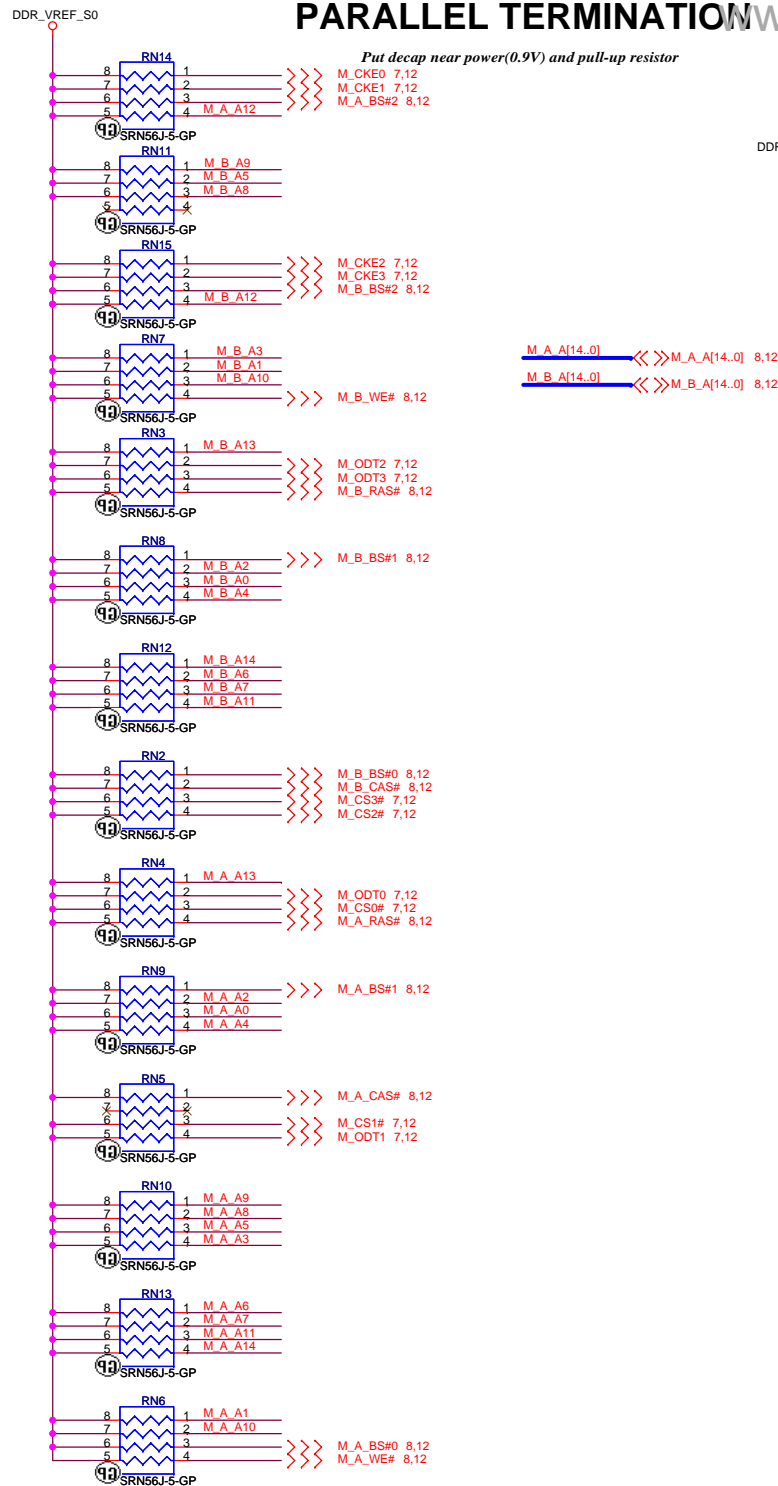




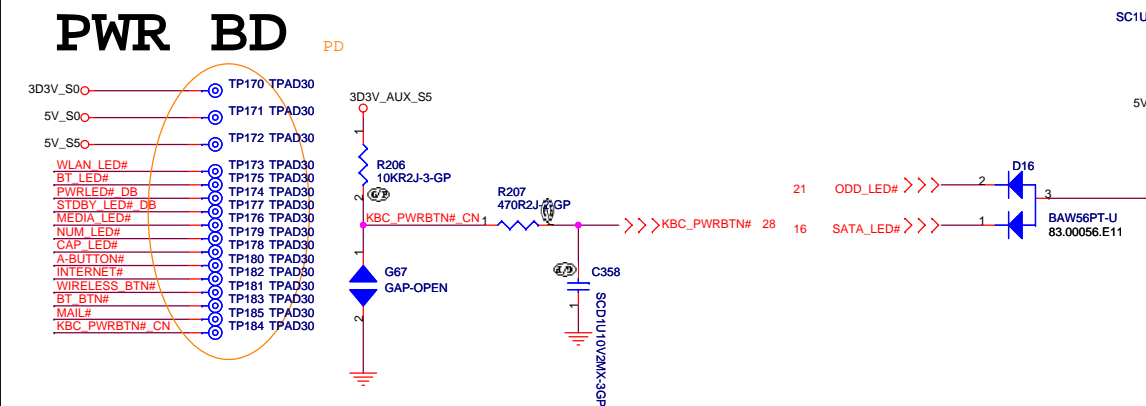
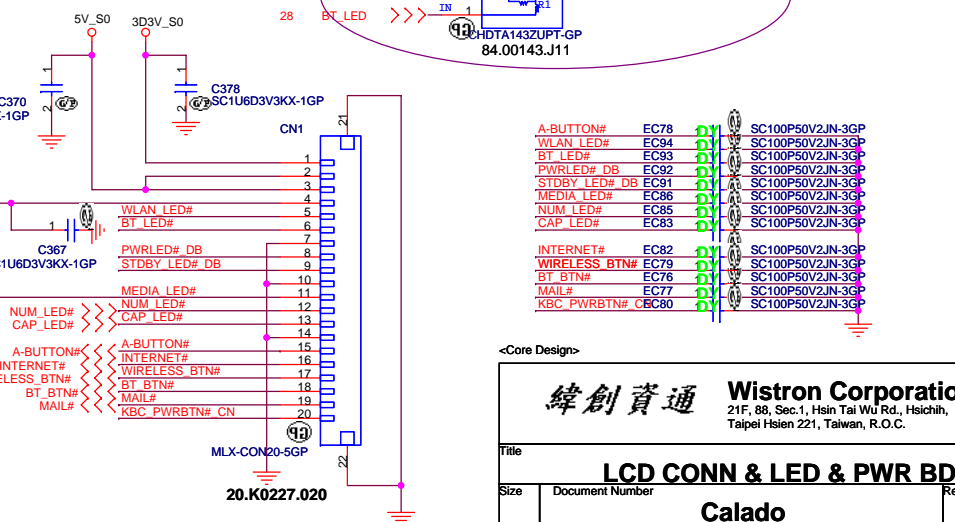
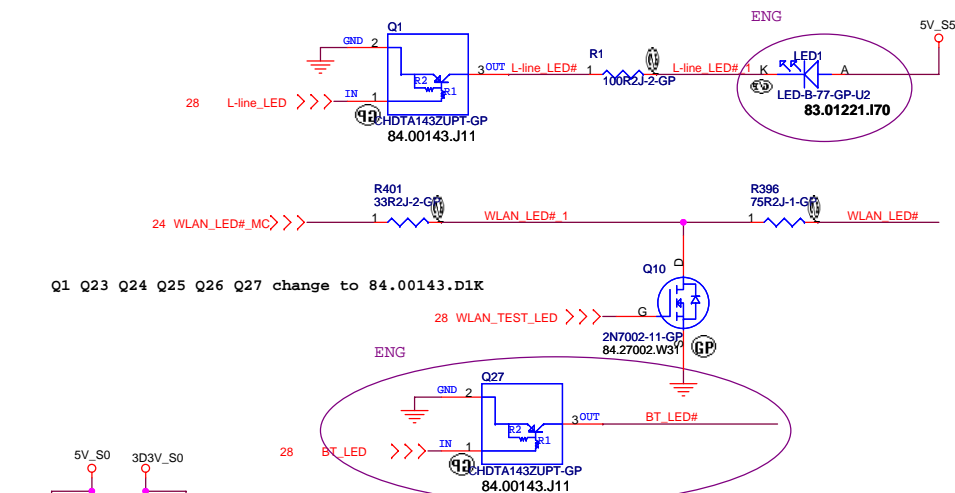
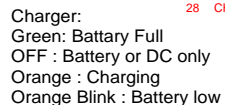
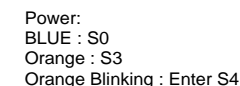




Decoupling Capacitor



LED



A-BUTTON#	EC78	BY	SC100P50V2JN-3GP
WLAN_LED#	EC94	BY	SC100P50V2JN-3GP
BT_LED#	EC93	BY	SC100P50V2JN-3GP
PWRLED# DB	EC92	BY	SC100P50V2JN-3GP
SDBY_LED# DB	EC91	BY	SC100P50V2JN-3GP
MEDIA_LED#	EC86	BY	SC100P50V2JN-3GP
NUM_LED#	EC85	BY	SC100P50V2JN-3GP
CAP_LED#	EC83	BY	SC100P50V2JN-3GP
INTERNET#	EC82	BY	SC100P50V2JN-3GP
WIRELESS_BTN#	EC79	BY	SC100P50V2JN-3GP
BT_BTN#	EC76	BY	SC100P50V2JN-3GP
MAIL#	EC77	BY	SC100P50V2JN-3GP
KBC_PWRBTN#	EC80	BY	SC100P50V2JN-3GP

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

Title **LOD CONN & LED & BWP BP**

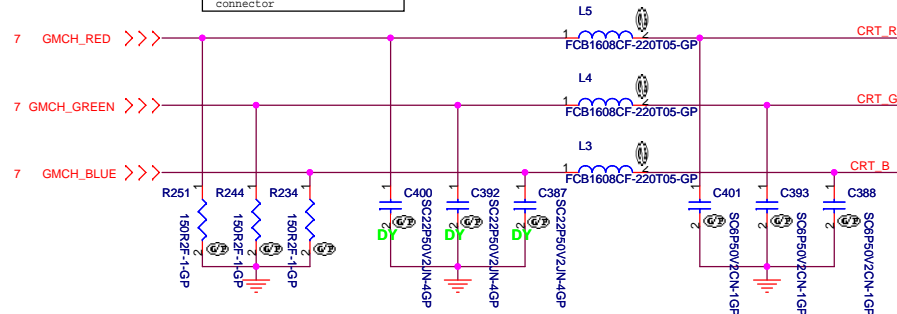
LCD CONN & LED & PWR BD		
Size	Document Number	Rev

Calado -1

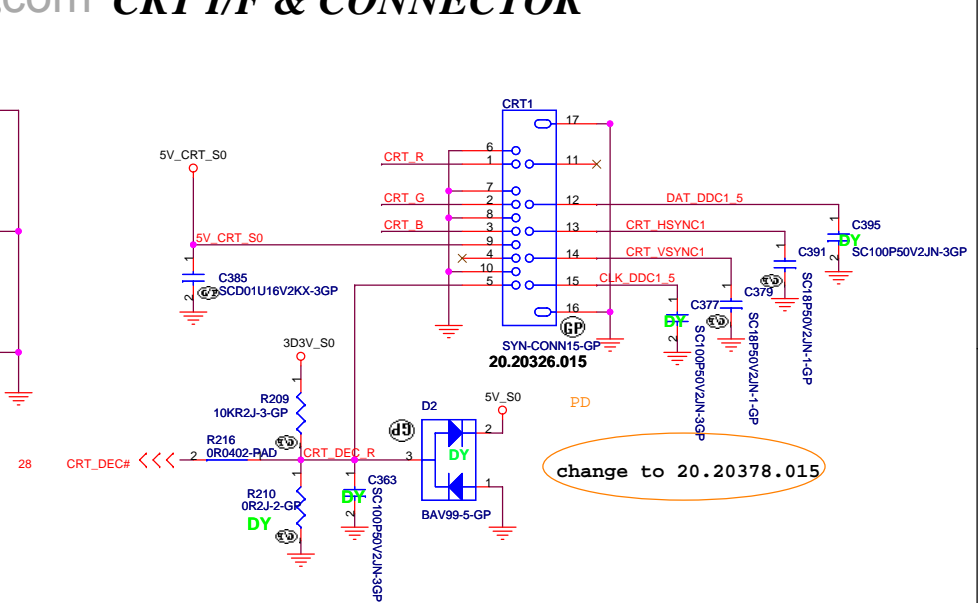
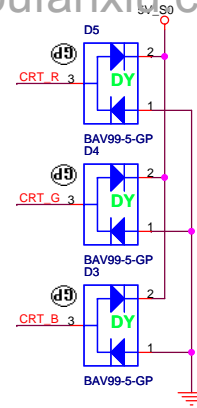
Date: Wednesday, September 12, 2007 Sheet 14 of 20

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

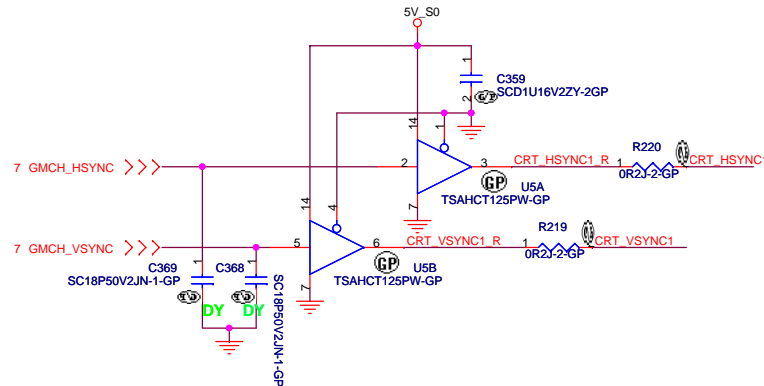
Ferrite bead impedance: 22 ohm@100MHz
from 10 ohm change to 22 ohm for EMI



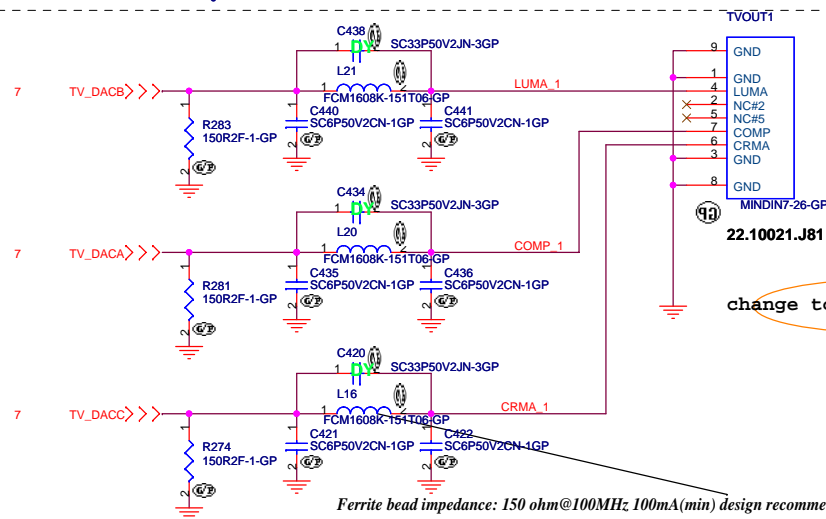
Layout Note:
* Must be a ground return path between this ground and the ground on the VGA connector.
Pi-filter & 150 Ohm pull-down resistors should be as close as to CRT CONN. RGB will hit 75 Ohm first, pi-filter, then CRT CONN.



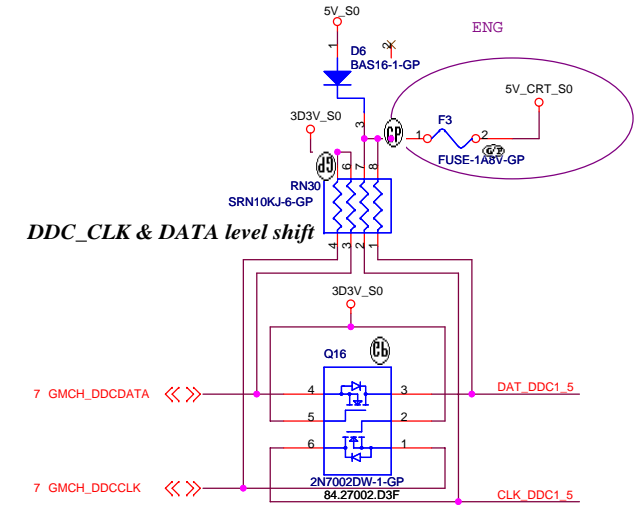
Hsync & Vsync level shift



TV CONN

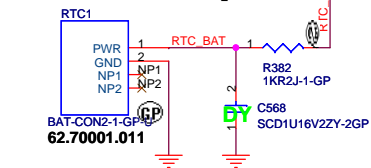


Ferrite bead impedance: 150 ohm@100MHz; 100mA(min) design recommend



DDC_CLK & DATA level shift

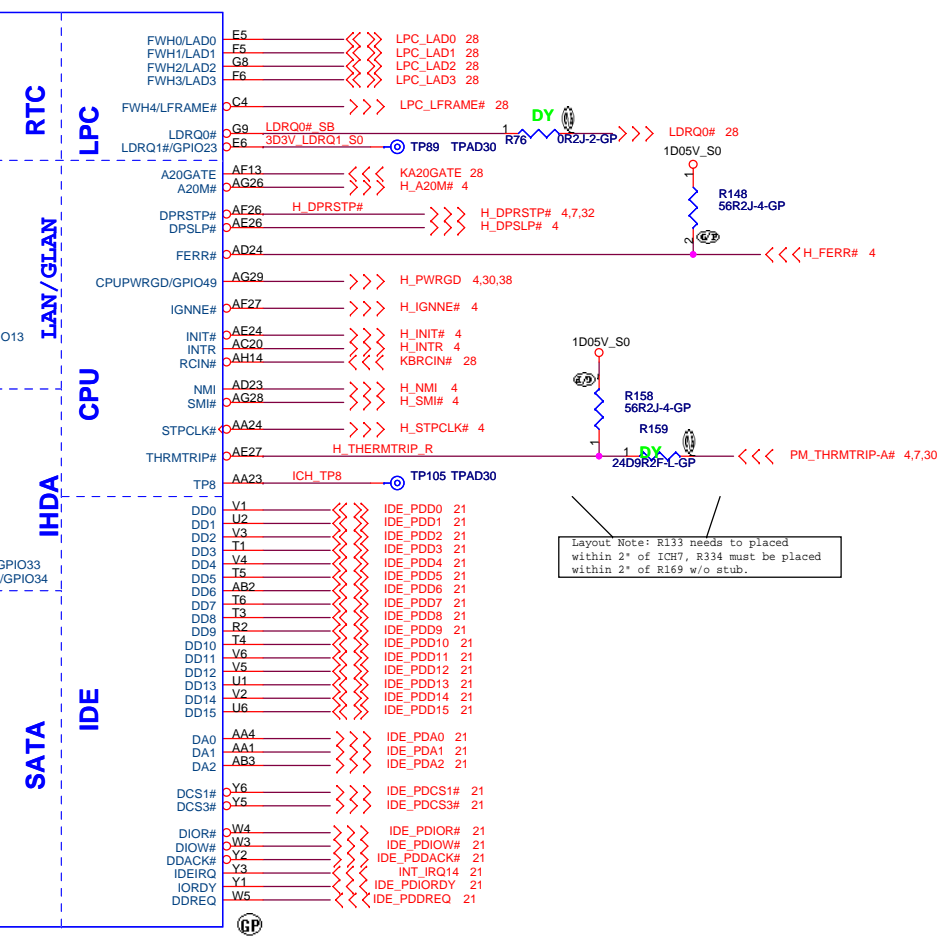
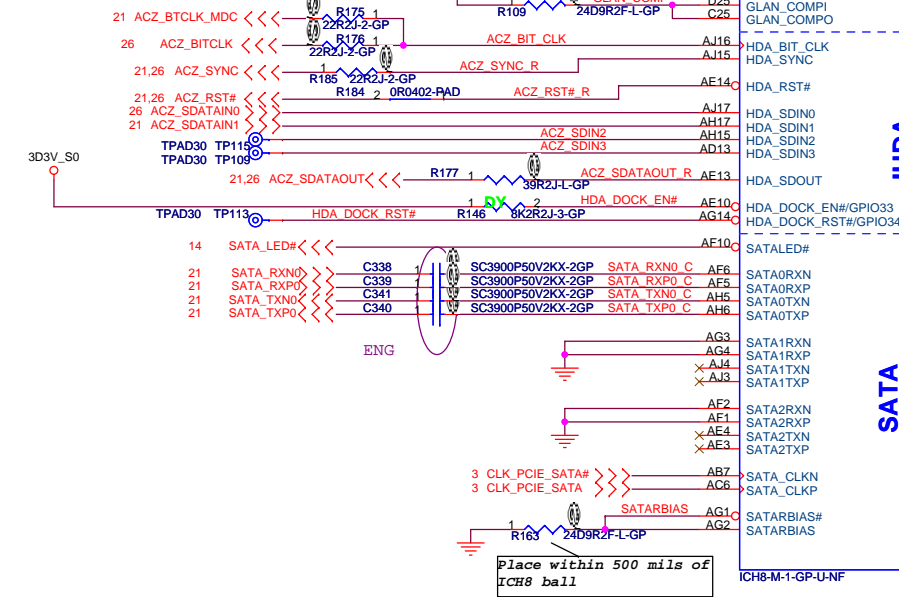
RTC circuitry



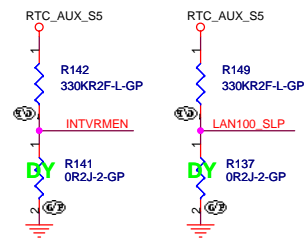
EMI capacitor



GLAN_COMP place within 500 mil of ICH8M



Layout Note: R133 needs to be placed within 2" of ICH7, R334 must be placed within 2" of R169 w/o stub.



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

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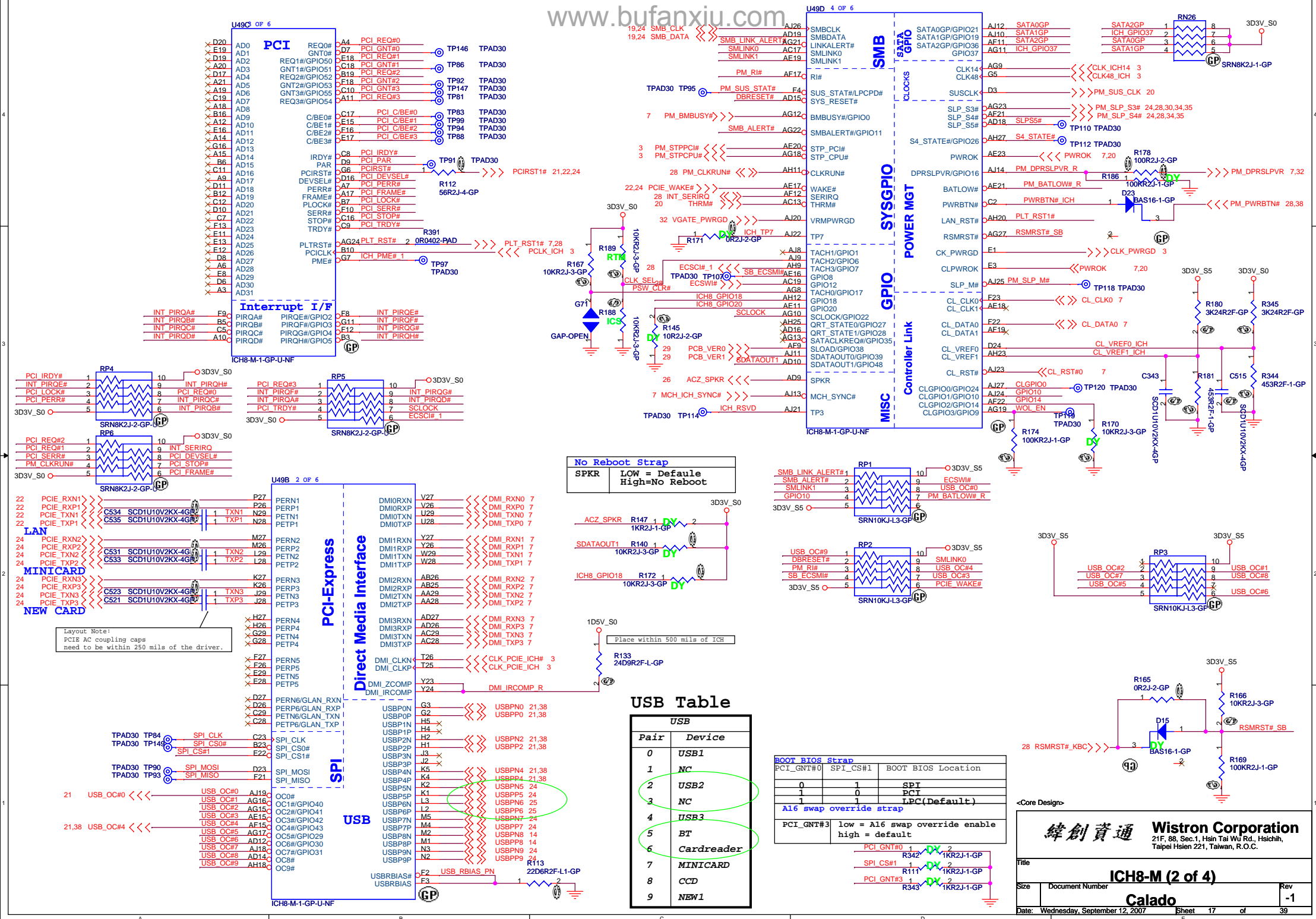
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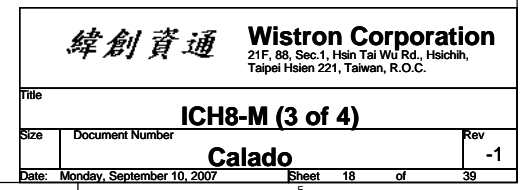
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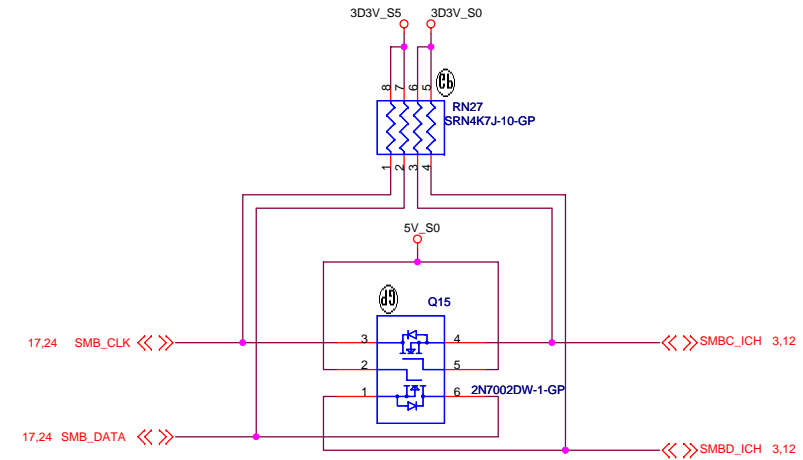
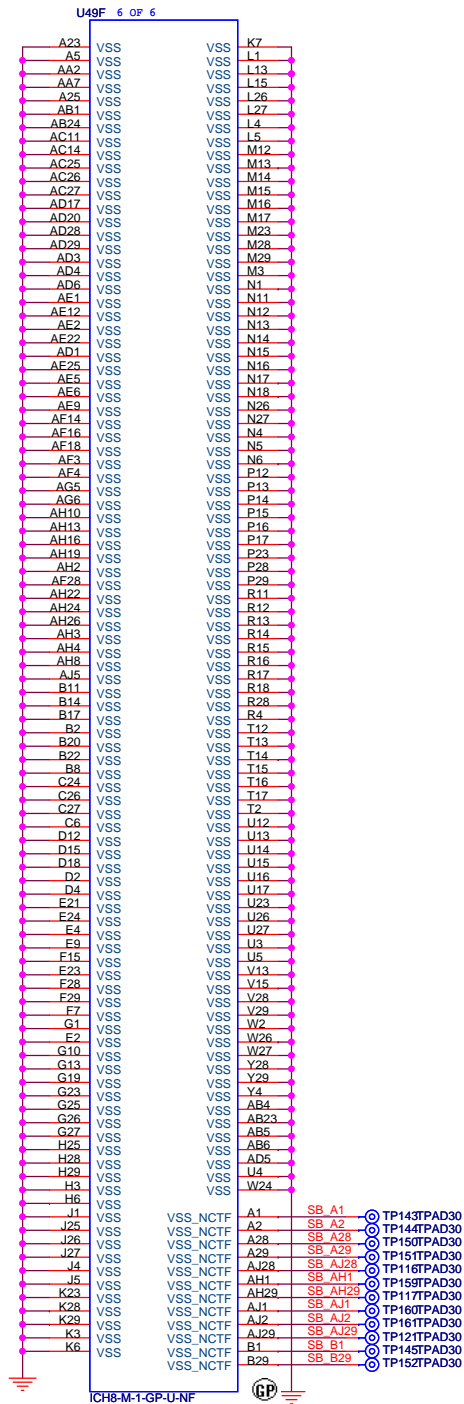
Size Document Number

Date: Wednesday, September 12, 2007 Sheet 16 of 39

Rev -1

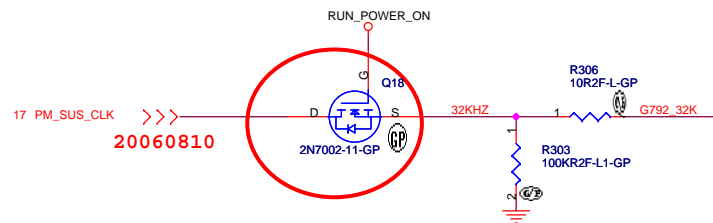
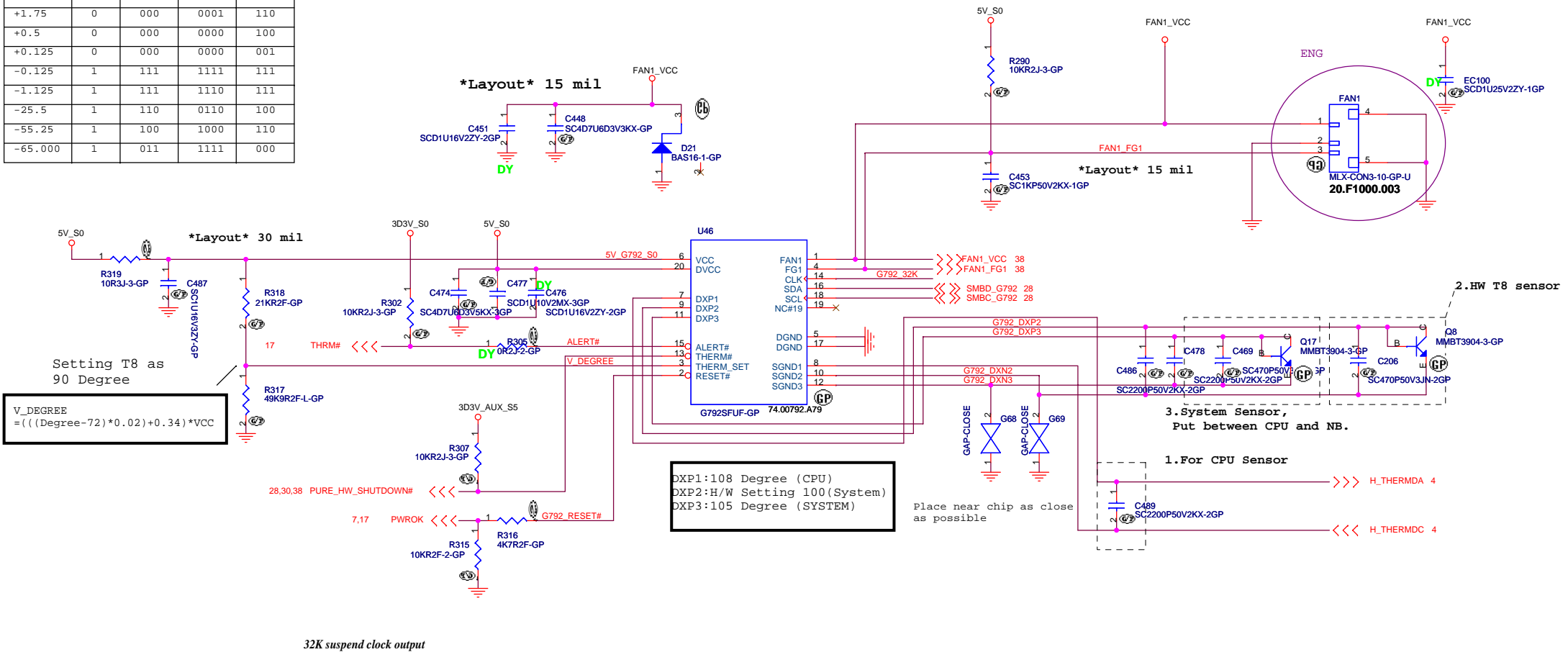


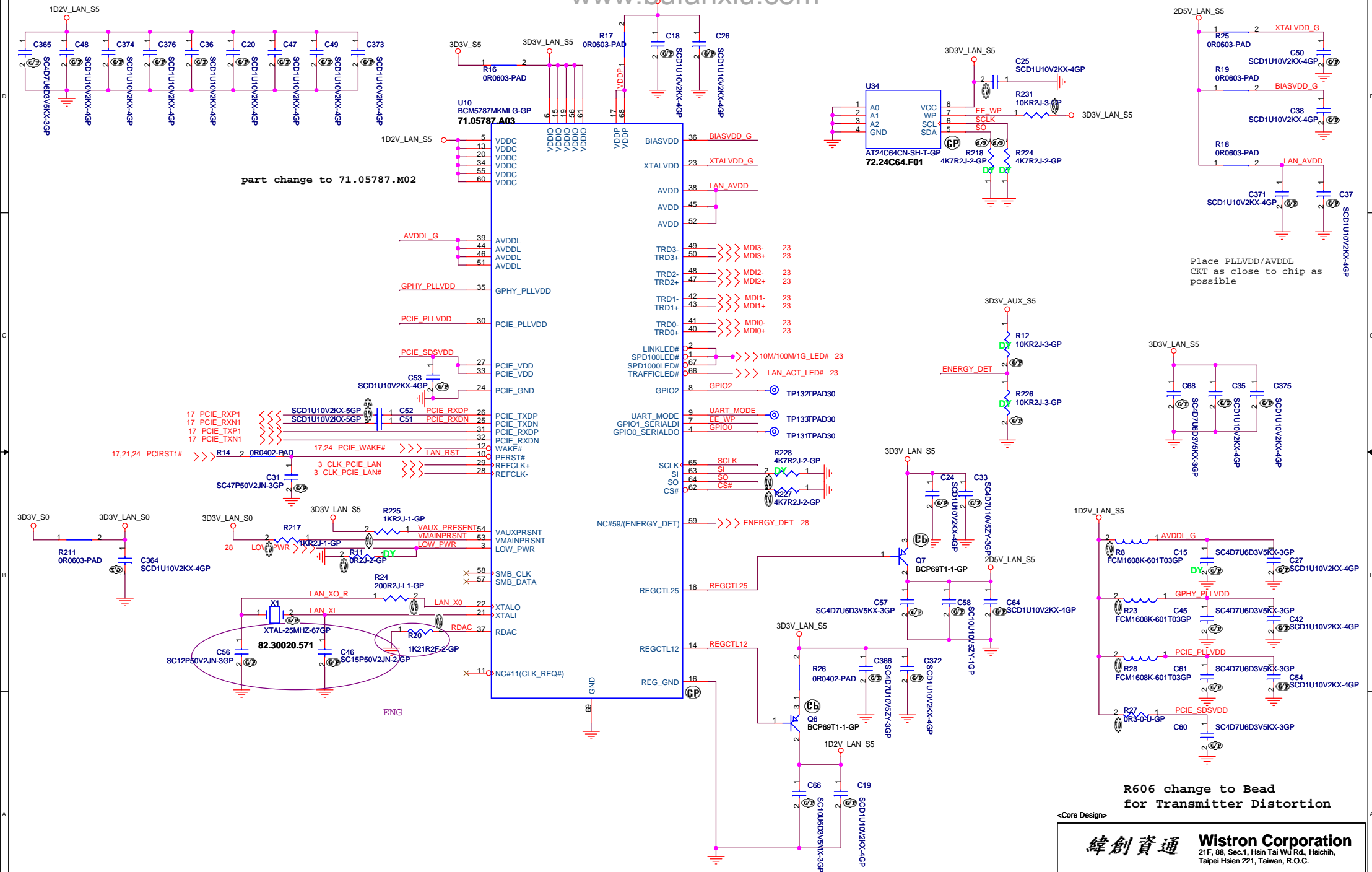




SMBUS

TEMP.	Digital Output Data Bits			
	Sign	MSB	LSB	EXT
+127.875	0	111	1111	111
+126.375	0	111	1110	011
+25.5	0	001	1001	100
+1.75	0	000	0001	110
+0.5	0	000	0000	100
+0.125	0	000	0000	001
-0.125	1	111	1111	111
-1.125	1	111	1110	111
-25.5	1	110	0110	100
-55.25	1	100	1000	110
-65.000	1	011	1111	000



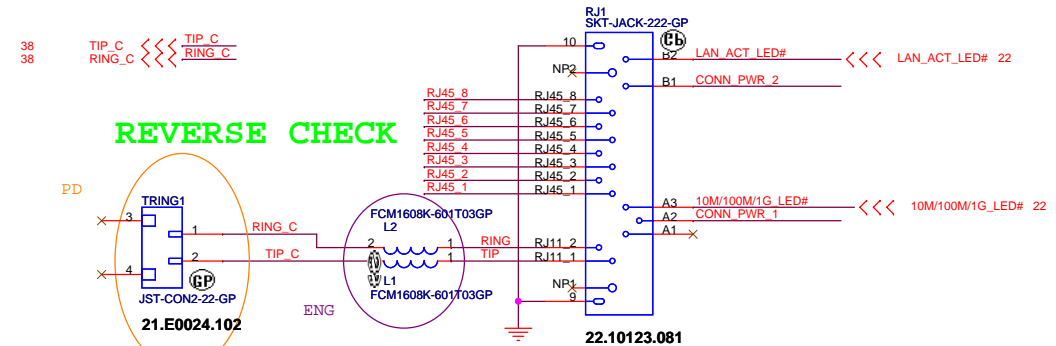


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Taipei Hsien 221, Taiwan, R.O.C.

Title		
LAN BCM5787		
Size A3	Document Number	Rev -1
Calado		
Date: Wednesday, September 12, 2007	Sheet 22	of 39

Voltage Rail	4401E	5789	5787
VDDIO_PCI	3D3V_LAN_S5	3D3V_S0	Don't Care
VDDC	1D8V_LAN_S5	1D2V_LAN_S5	
VDDIO	3D3V_LAN_S5	3D3V_LAN_S5	
VESD	3D3V_LAN_S5	3D3V_S0	Don't Care
VDDP	Don't Care	2D5V_S5	
3D3V_2D5V_S5	3D3V_S5	2D5V_S5	
1D8V_1D2V_S5	1D8V_LAN_S5	1D2V_S5	

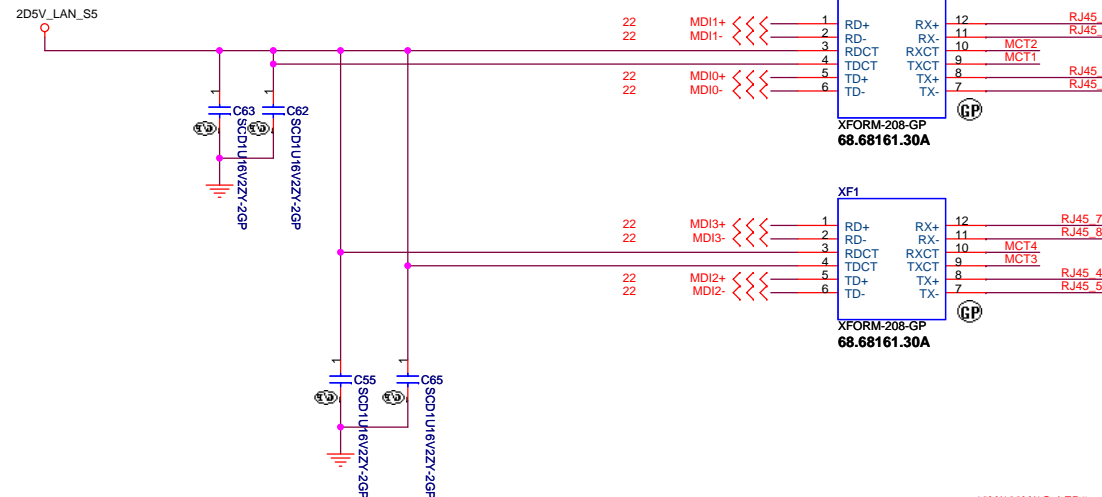


A3 : Green

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

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

GIGA Lan Transformer

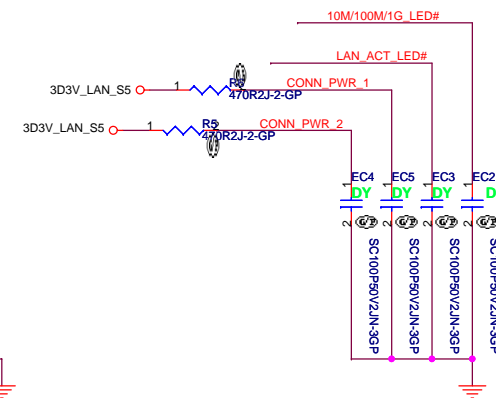


1. route on bottom as differential pairs.
2. Tx+/Tx- are pairs. Rx+/Rx- are pairs.
3. No vias, No 90 degree bends.
4. pairs must be equal lengths.
5. 6mil trace width, 12mil separation.
6. 36mil between pairs and any other trace.
7. Must not cross ground moat, except RJ-45 moat.

RJ11 signal must leave the other signal or power plane 100mil.

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

10/100 LAN Transformer	RJ45 PIN
TD+ --> TX+	RJ45-1
TD- --> TX-	RJ45-2
RD+ --> RX+	RJ45-3
RD- --> RX-	RJ45-6



<Core Design>

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Title

LAN Connector

Size
A3

Document Number

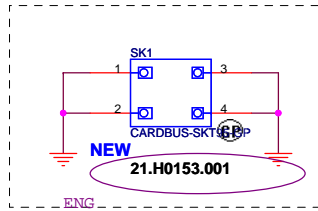
Calado

Date: Wednesday, September 12, 2007

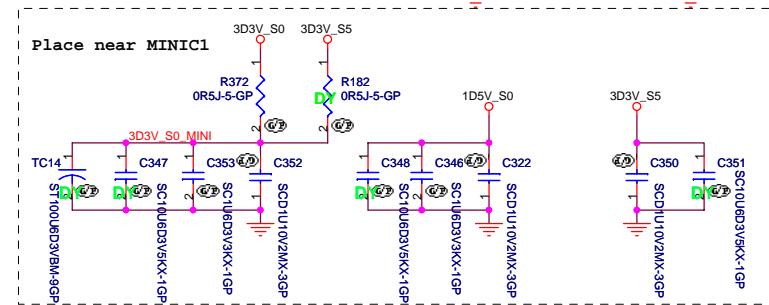
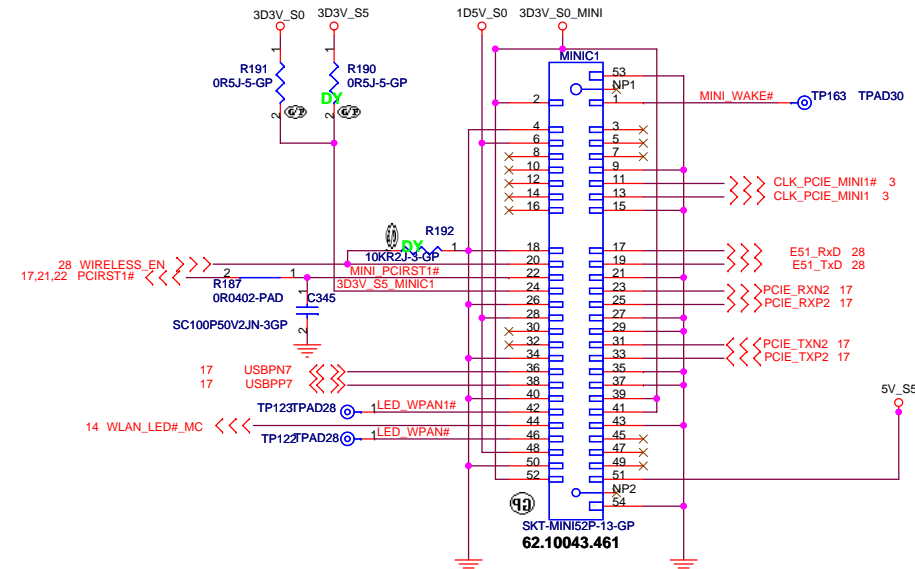
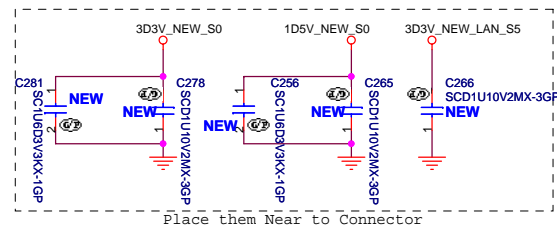
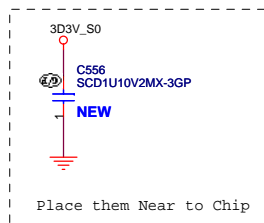
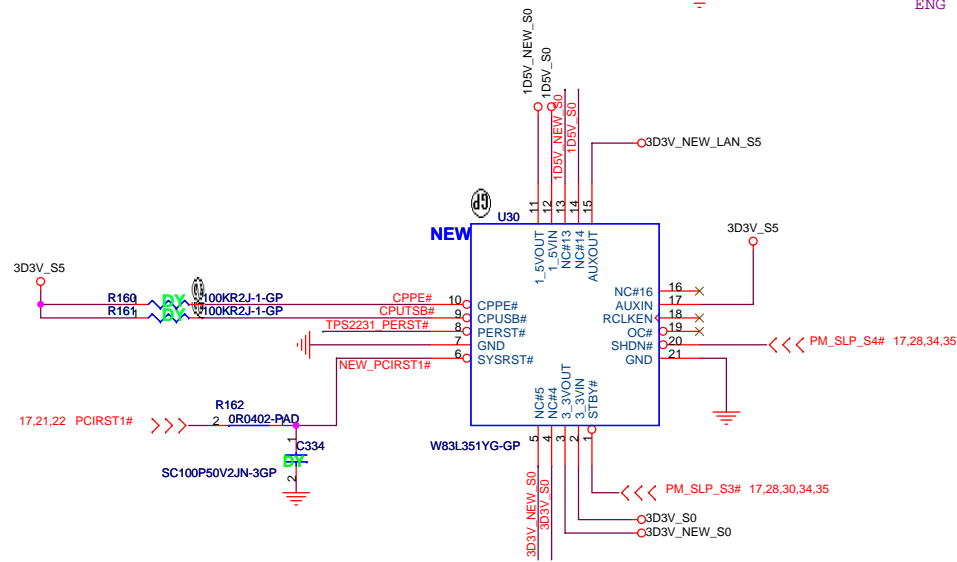
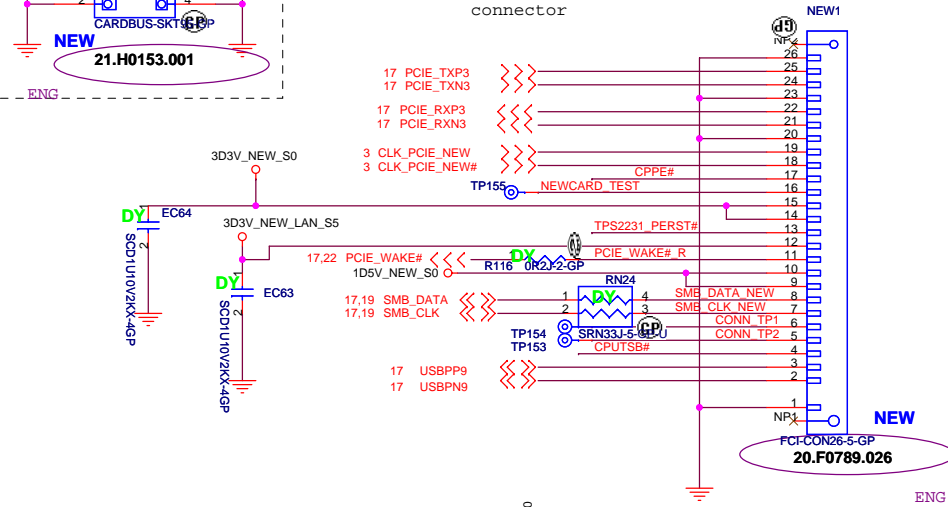
Sheet 23 of 39

Rev	1
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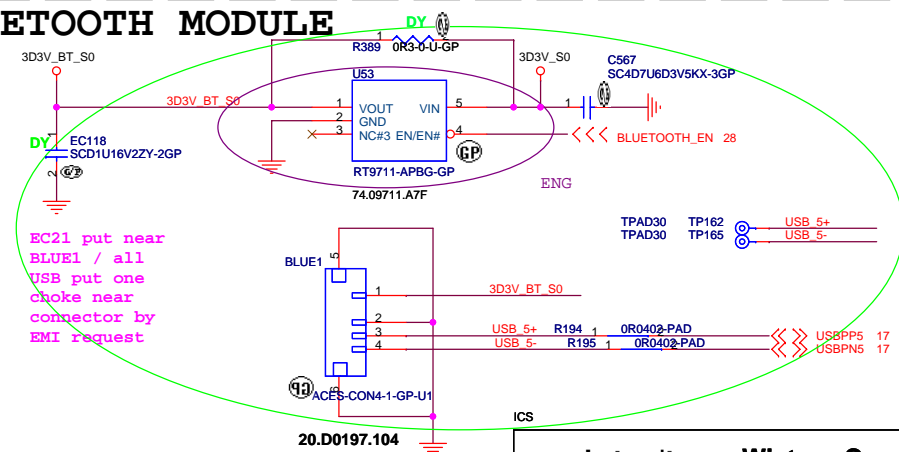
NEWCARD Connector



Reserve the symbol
for bottom side
connector



BLUETOOTH MODULE



1st source:20.D0197.104
2nd source:20.F0984.004

4 IN1 CARD-READER (SD/SD IO/MMC/MMC4.0/MS/MS PRO/XD)

RTS5158-GP
71.05158.00G

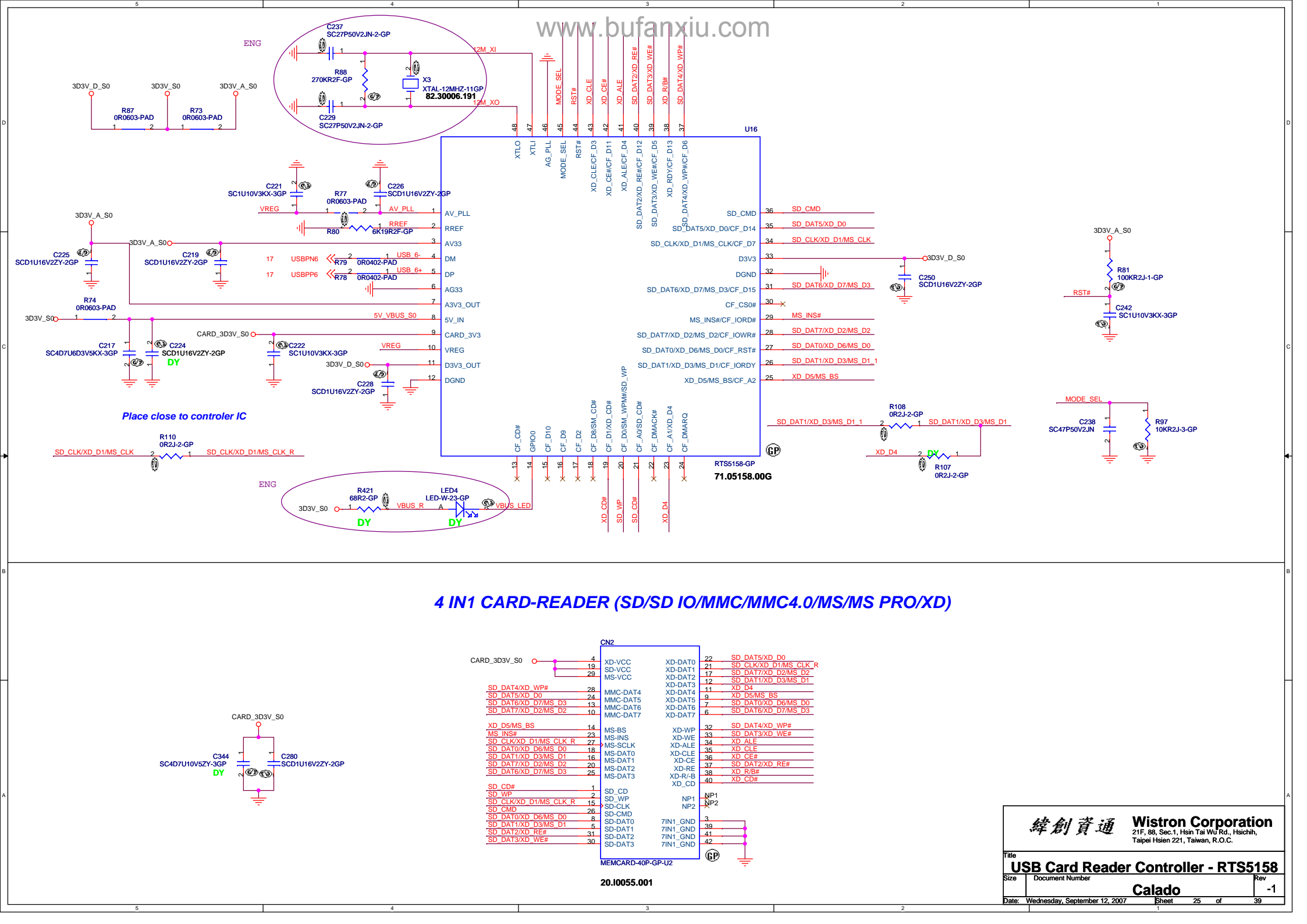
MEMCARD-40P-GP-U2
20.10055.001

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USB Card Reader Controller - RTS5158

Size: Document Number: Calado Rev: -1

Date: Wednesday, September 12, 2007 Sheet: 25 of 39



4 IN1 CARD-READER (SD/SD IO/MMC/MMC4.0/MS/MS PRO/XD)

RTS5158-GP
71.05158.00G

MEMCARD-40P-GP-U2
20.10055.001

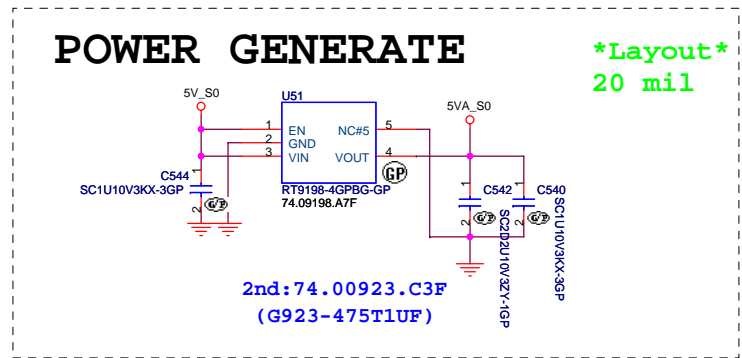
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

USB Card Reader Controller - RTS5158

Size: Document Number: Calado Rev: -1

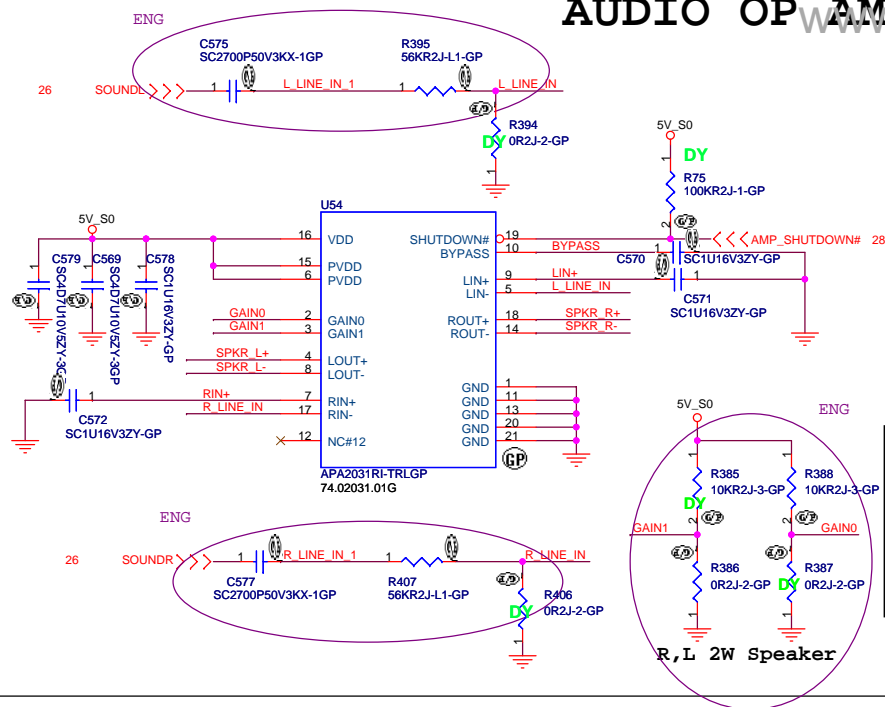
Date: Wednesday, September 12, 2007 Sheet: 25 of 39

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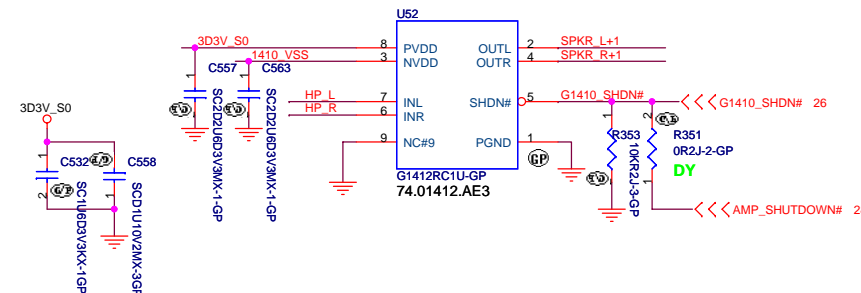
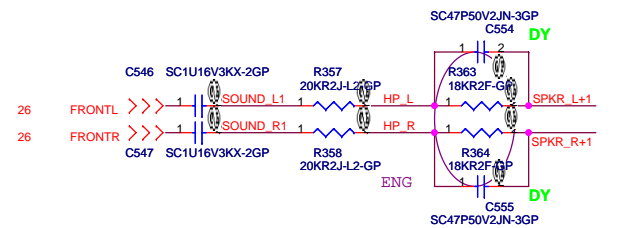
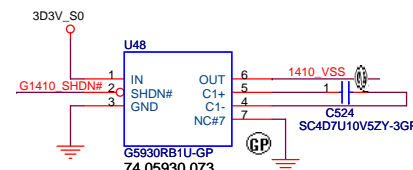


AUDIO OP AMPLIFIER

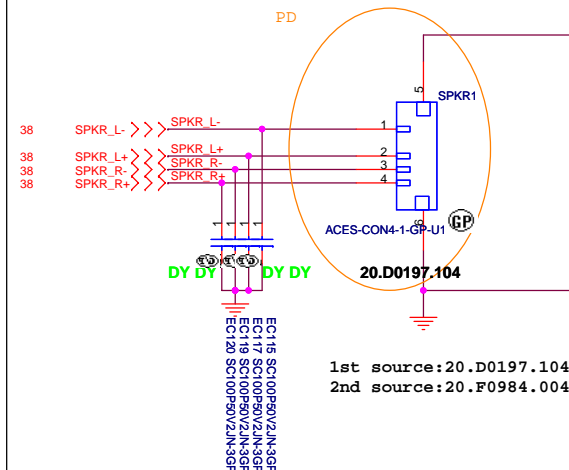
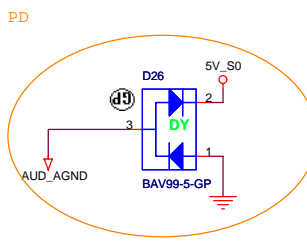
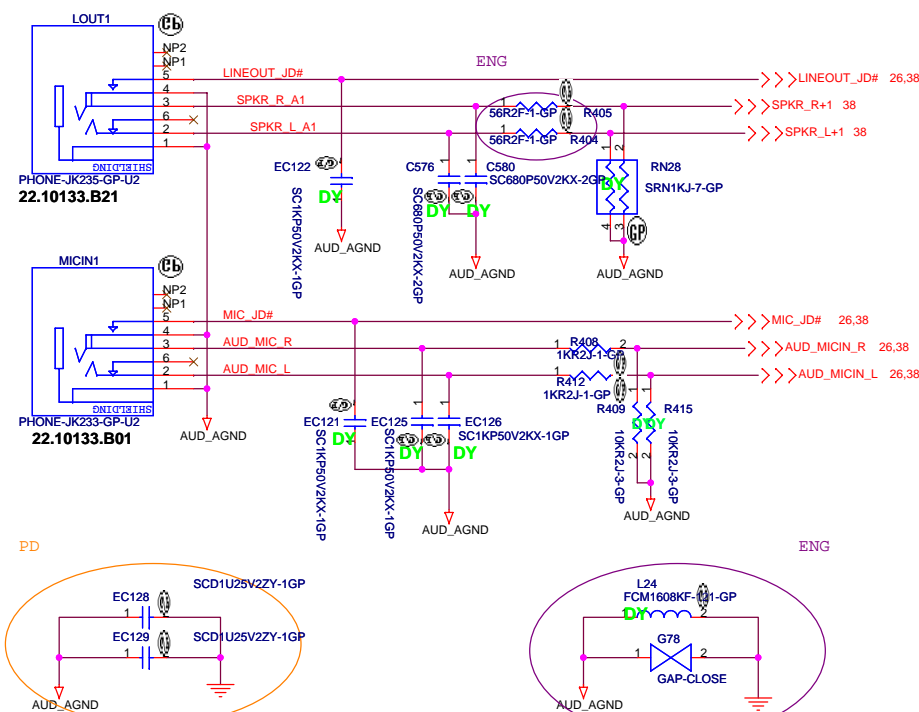
www.cadsoft.com



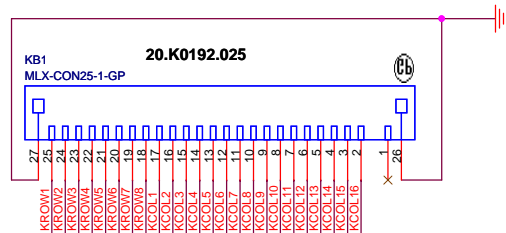
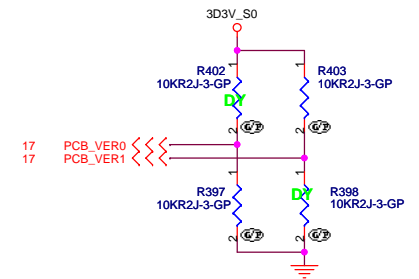
	GAIN0	GAIN1	Av (dB)
0	0	6	
0	1	10	
1	0	15.6	
1	1	21.6	



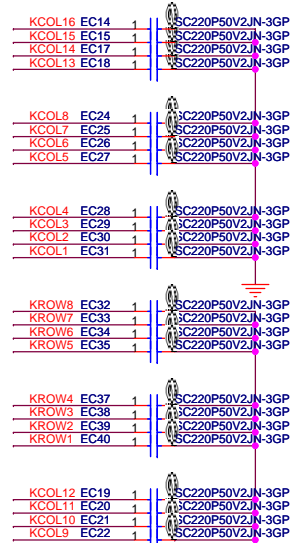
Internal Speaker



1st source: 20.D0197.104
2nd source: 20.F0984.004

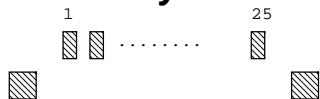


EMI Bypass cap.



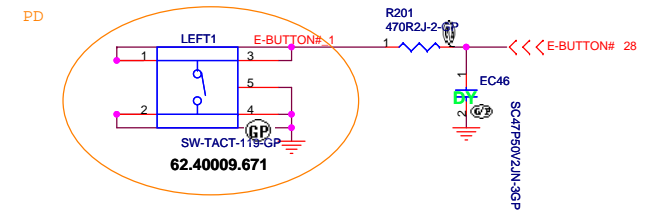
KROW[1..8] >>> KROW[1..8] 28,38
KCOL[1..16] >>> KCOL[1..16] 28,38

Internal KeyBoard CONN

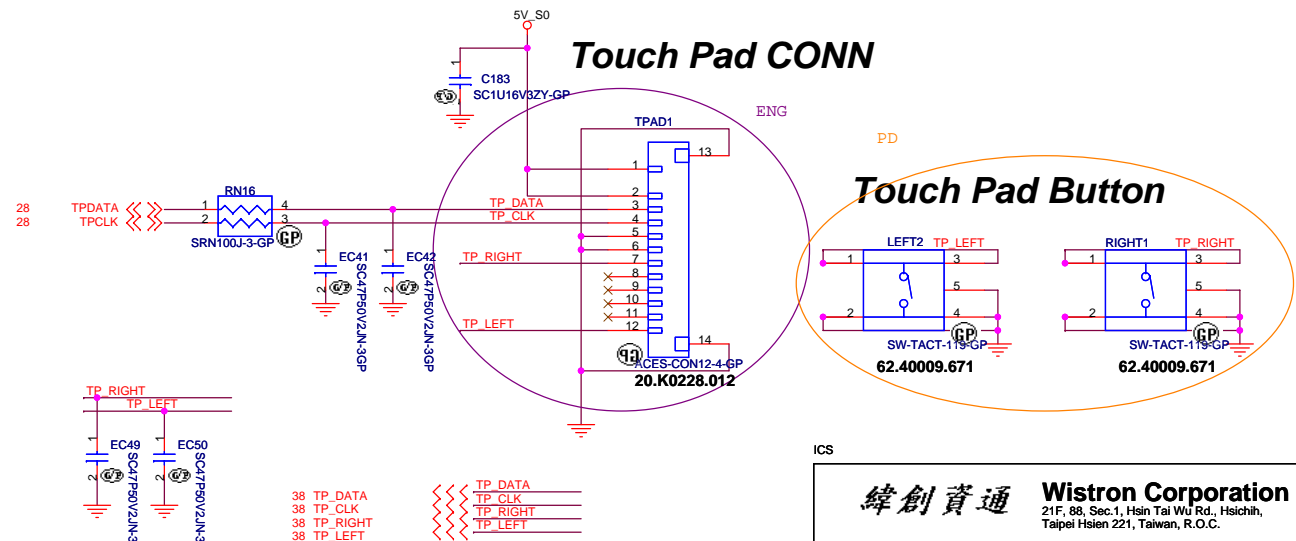


CHECK KB SPEC. AND PIN DEFINE

E-key



Touch Pad CONN



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Title

BUTTONs / KB / TOUCHPAD / BIOS

Size

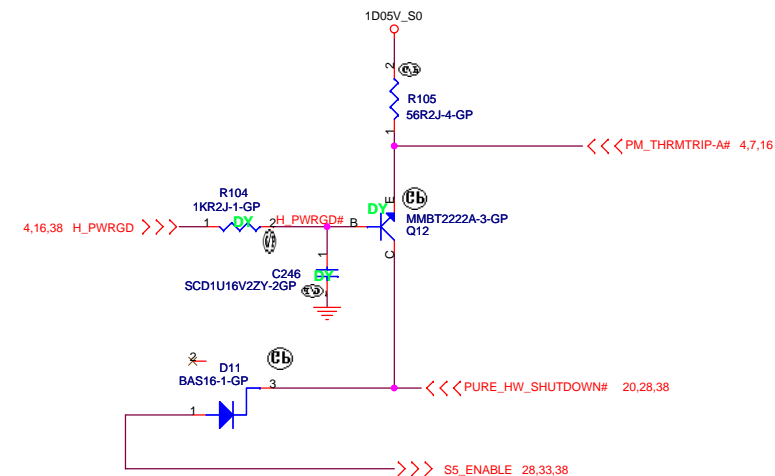
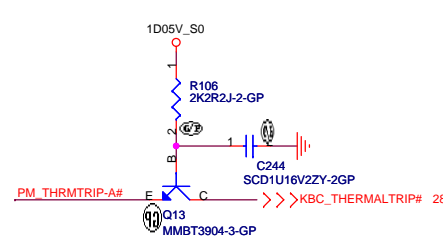
Document Number

Calado

	REV
	-

Date: Wednesday, September 12, 2007

Sheet 29 of 39



Run Power



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Title	RUN POWER and 3D3V_AUX_S5
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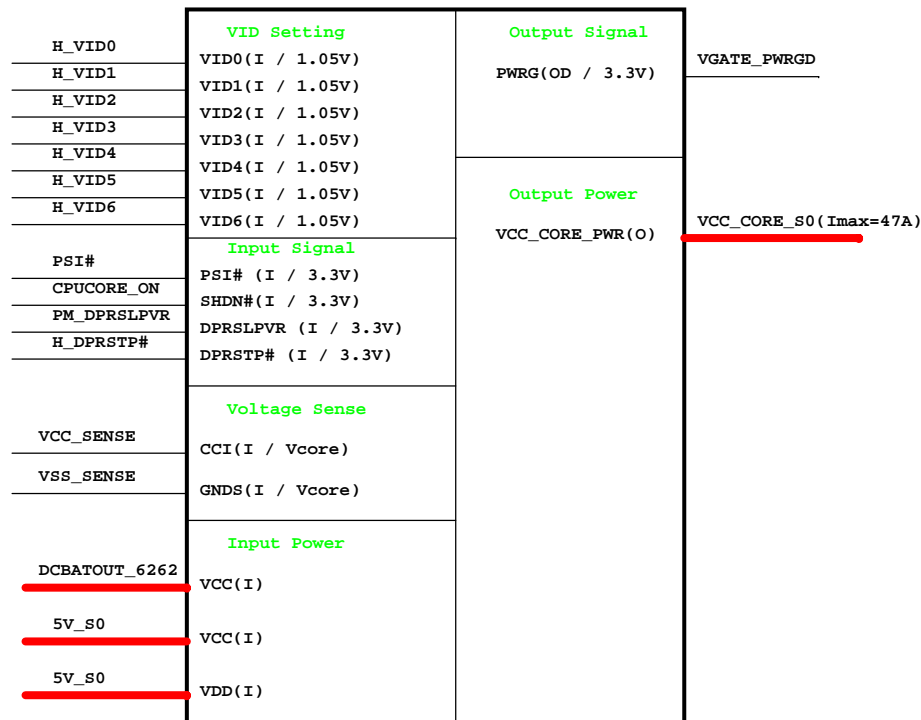
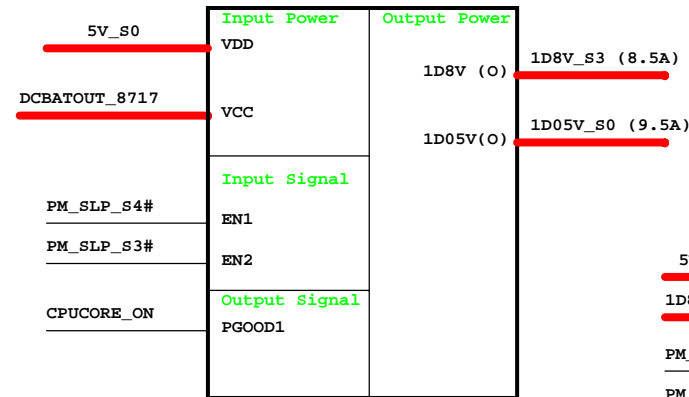
Size	Document Number
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Calado

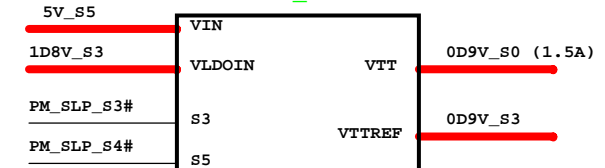
1

Date: Wednesday, September 12, 2007

Sheet 30 of 39

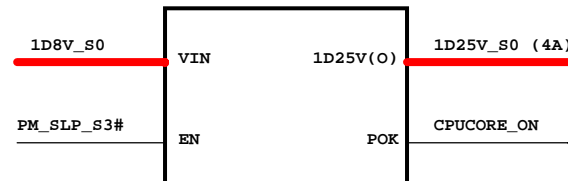
CPU_CORE
MAX8770TPS51124
1D8V/1D05V

0D9V_S0

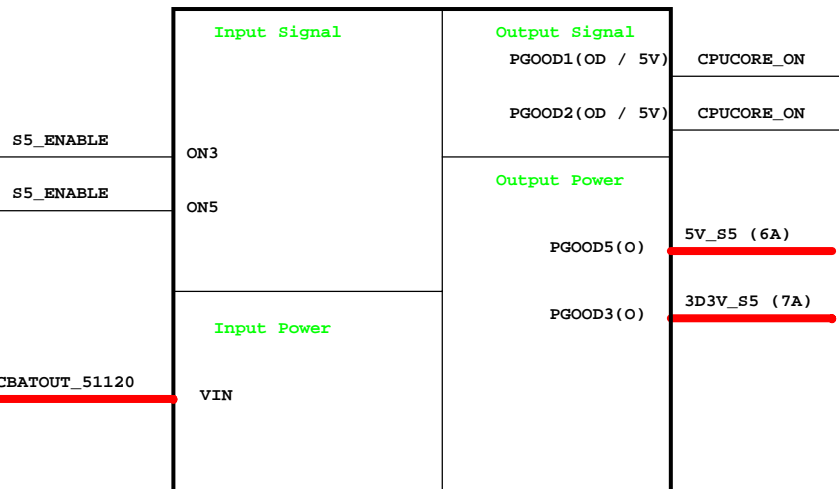


TPS51100

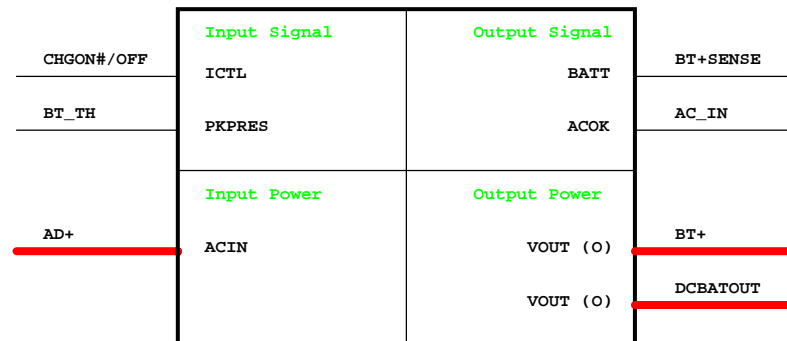
1D25V_S0



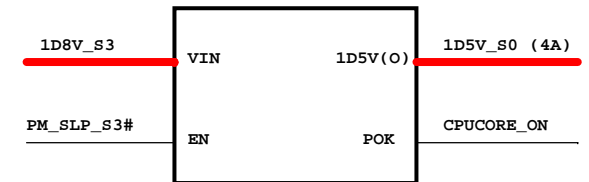
APL5913

TPS51120
5V/3D3V

Charger MAX8731

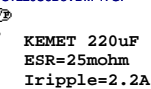
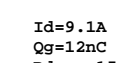
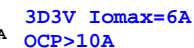
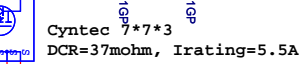
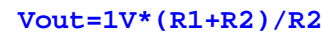
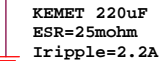
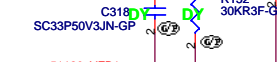
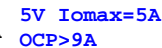


1D5V_S0



APL5915

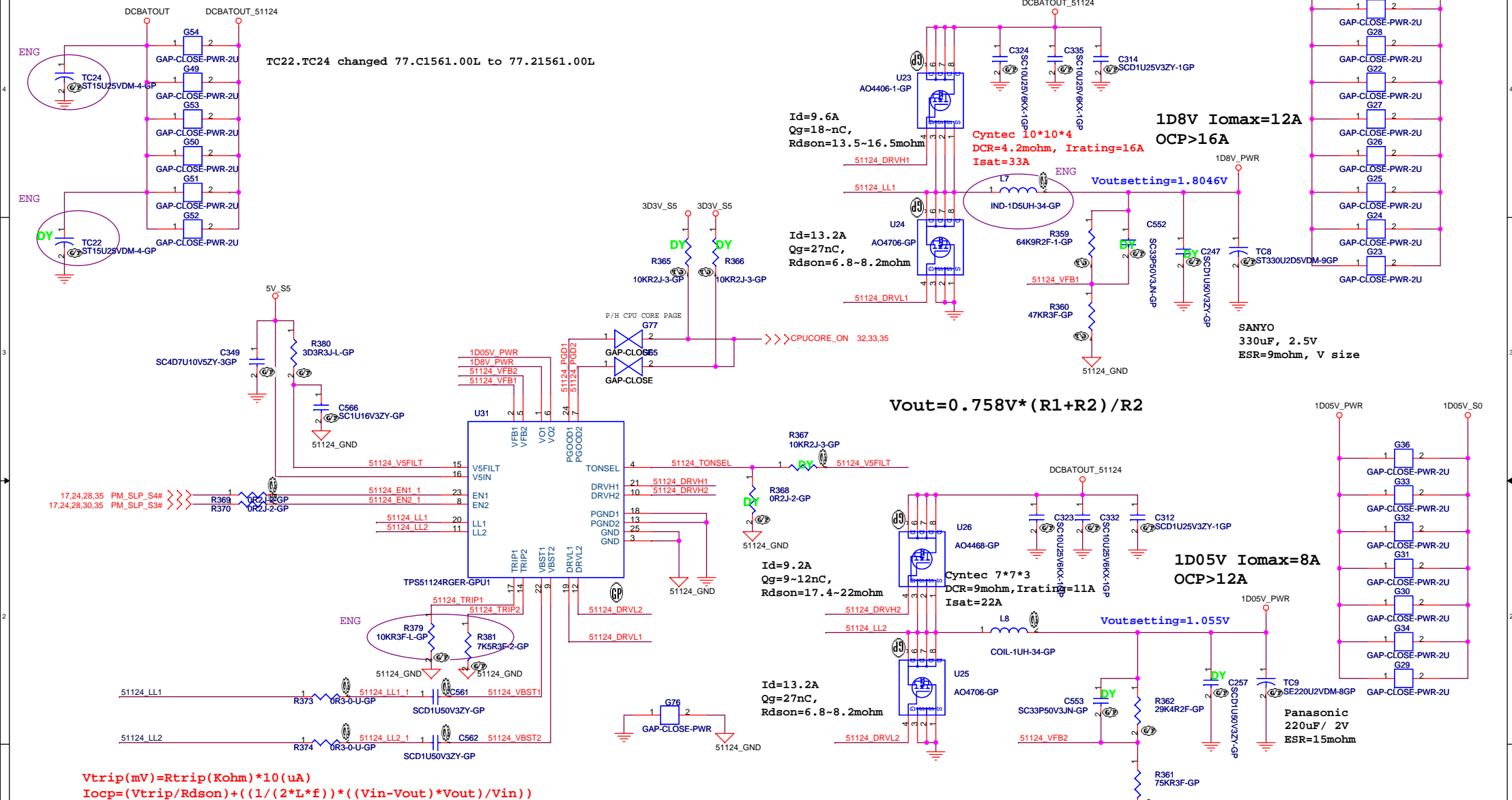
[illegible]



1. If you use a 4.7uH inductor, the minimum ESR is 51m ohm.
2. If you use a 3.3uH inductor, the minimum ESR is 36m ohm.
3. If you use a 2.5uH inductor, the minimum ESR is 27m ohm.

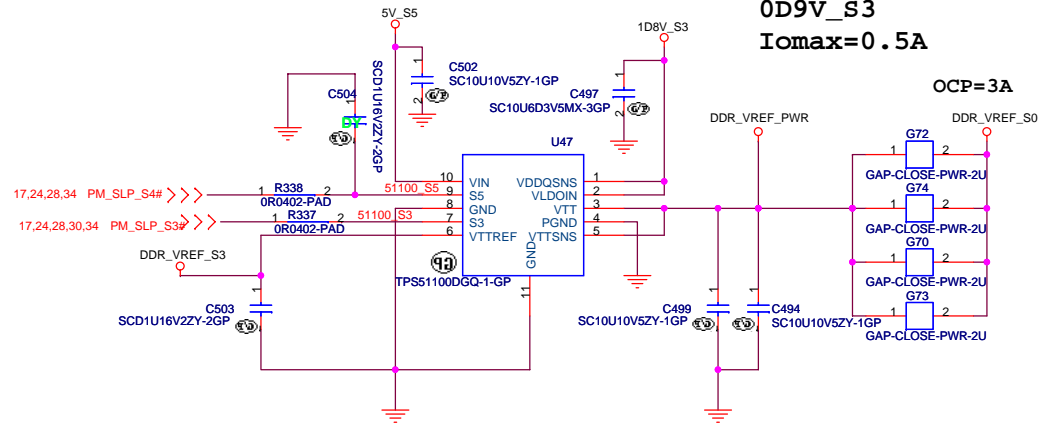
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Rev

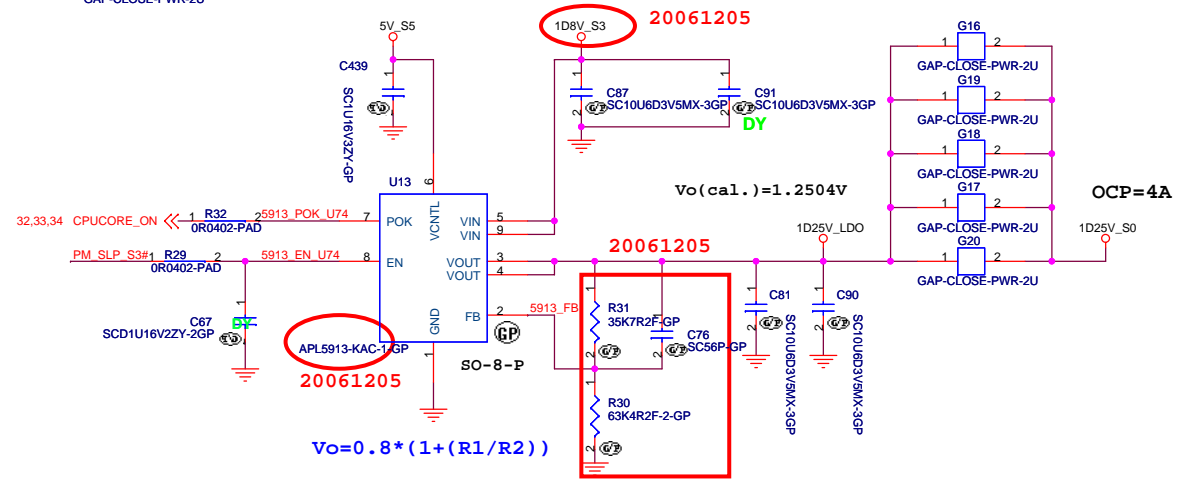


	GND	OPEN	V5FILT
TONSEL	240k/CH1 300k/CH2	300k/CH1 360k/CH2	360k/CH1 420k/CH2

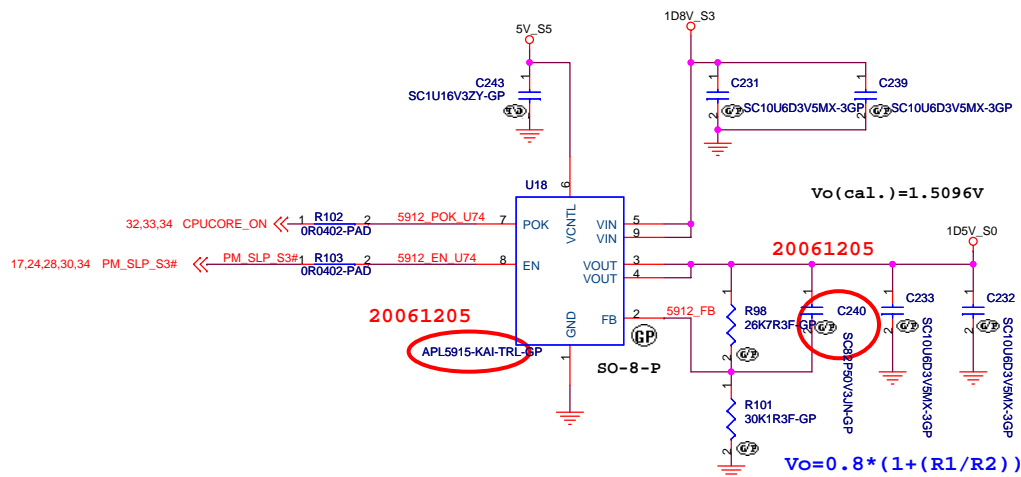
0D9V_S3
I_{omax}=0.5A



1D25V_S0
I_{omax}=2A



1D5V_S0
I_{omax}=1.5A
OCP>1.8A



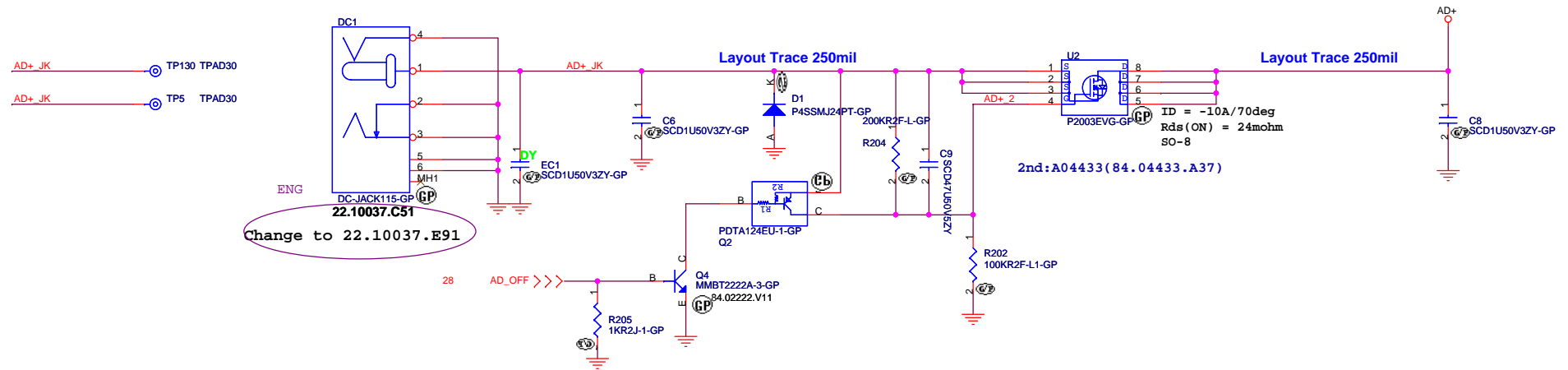
ICS

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

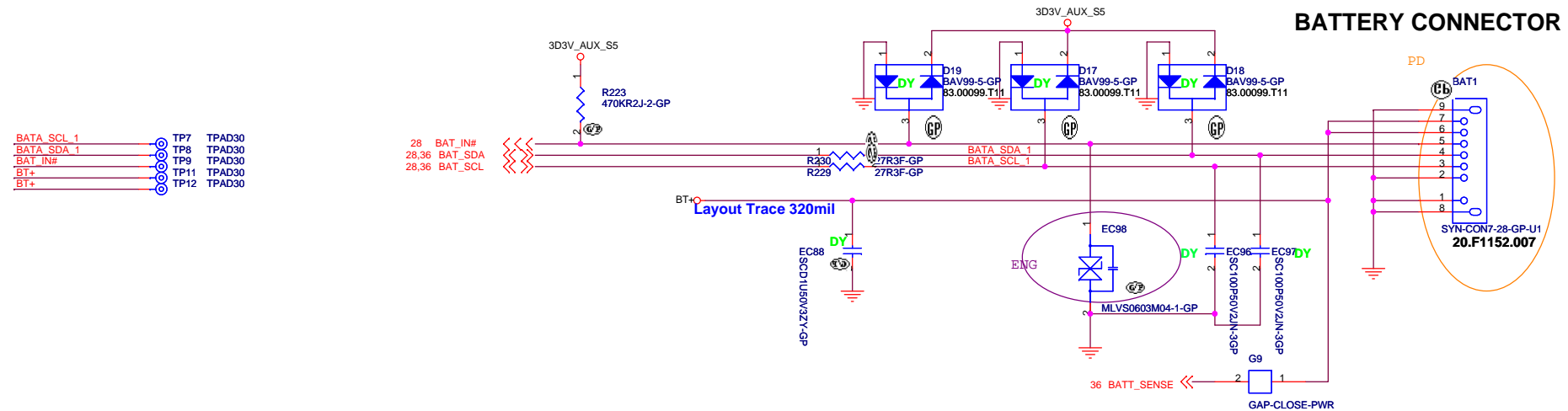
Title		
0D9V/1D25V/1D5V		
Size	Document Number	Rev
A3	Calado	-1
Date: Wednesday, September 12, 2007		
Sheet 35 of 39		



Adaptor in to generate DCBATOUT



BATTERY CONNECTOR



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Title

AD/BATT CONN

Size

Document Number

Calado

Rev

-1

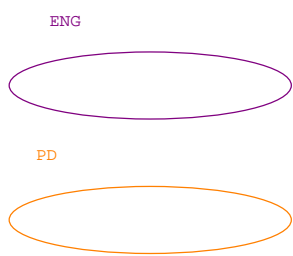
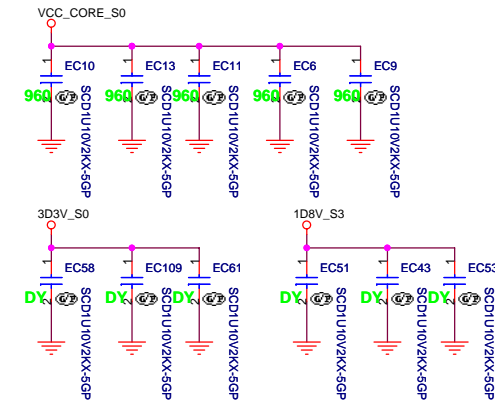
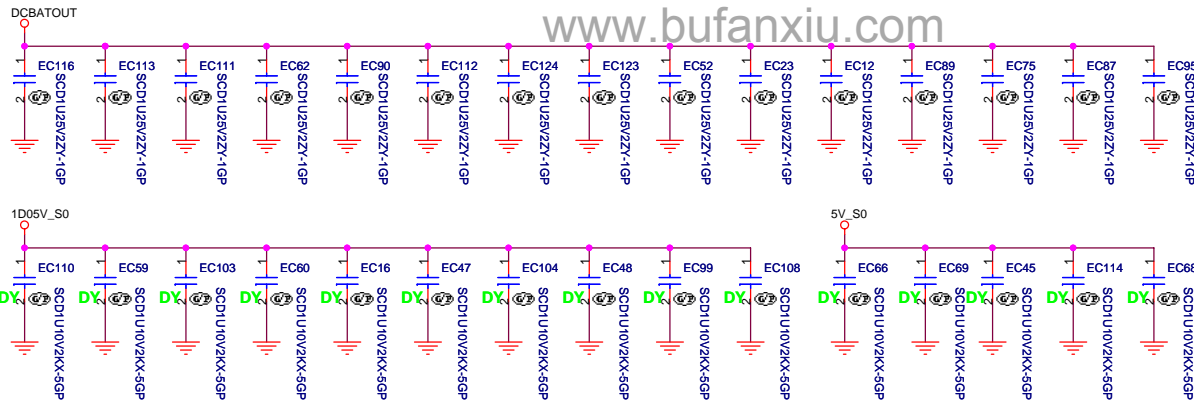
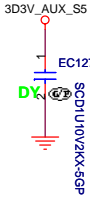
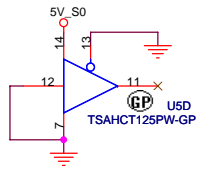
Date: Wednesday, September 12, 2007

Sheet

37

of

39

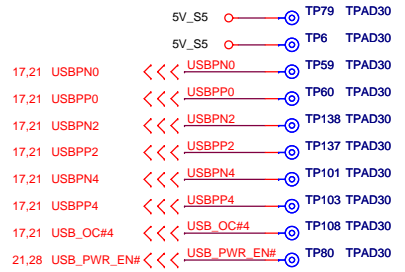


FAN CONN

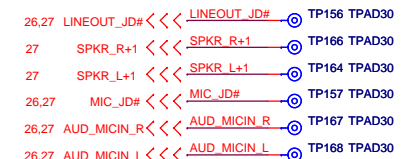


USB ZIF CONN

Test Point

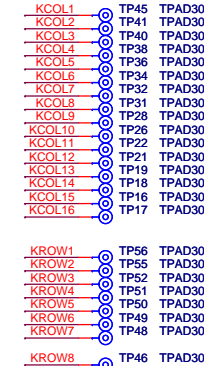


Audio Connector

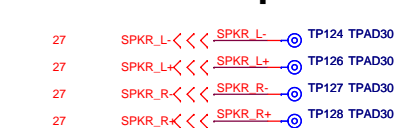


Internal KeyBoard CONN

Test Point



Internal Speaker



TRING CONN

Test Point

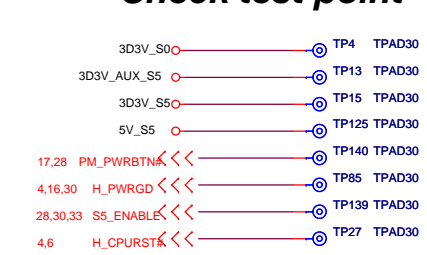


Touch Pad CONN

Test Point near TPAD1

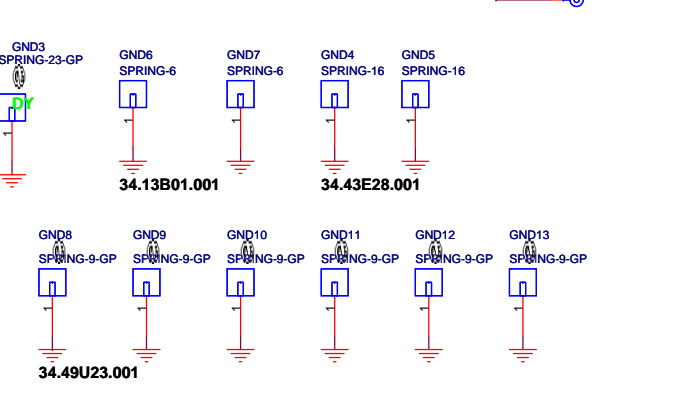
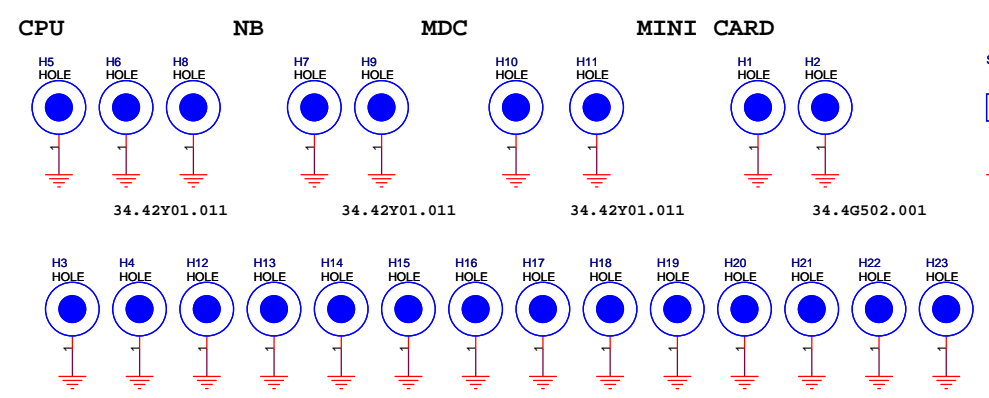


Check test point



Test Point 放在Dimm Door打開可量測處

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Title		
Size		
Date: Thursday, September 13, 2007		
Sheet 38 of 39		
Rev -1		



SA to SB
1.TC6 change to 900U
2.modify U42(change to G913 300mA) add R417 for TV CRT ripple.
3.add Q27 for BT LED signal
4.change LED1 to 83.01221.I70(right angle)
5.add U55 BLON_5V for LED panel
6.change U1 to 74.04280.C9P for source request
7.add polyswitch F3 for safety.
8.C338 C339 C341 C340 change to 0402 size for SATA signal.
9.FAN1 change to 20.F1000.003 for ME.
10.USB1 swap pin3 pin4 signal.
11.USB2 USB3 change to 22.10218.R31 for ME.
12.add polyswitch F4 F5 for safety.
13.change U4 U45 to 74.09711.B7F ,U56 U57 74.05250.C7F for source request.
14.R20 change to 1.21K for IEEE.
15.C56 change to 12P for Oscillation report.
16.U53 change to 74.09711.A7F for source request.
17.NEW1 change to 20.F07890.026.SK1 change to 21.H0153.001 for ME
18.add R421 LED4 for CardReader test.
19.C237 C229 change to 27P for Oscillation report.
20.R350 change to 4.99K for jack detection.
21.R363 R364 change to 18K.R404 R405 change to 56 ohm for audio report.
22.add AUD_AGND.L24 for audio niose.
23.C575 C577 change to 2700p Cut frequency at 500HZ
24.add BT_LED to KBC GPIO50.
25.add TC19 TC20 TC21 TC22 TC23 TC24 for acoustic noise.
26.C419 change to 1000p for power team.
27.U21 change to 84.04712.037.L9 change to 68.3R310.20A for power team.
28.R151 change to 16.5K.R124 change to 13K for OCP.
29.L7 change to 68.1R510.10J for power team.
30.R379 change to 10K.R381 change to 7.5K for OCP.
31.BAT1 change to 20.80977.007 for ME.
32.EC98 add 69.80007.031 for EC damaged.
33.R402 change to 10K.R397 DY for planar ID.
34.ODD1 change to 20.80967.050 for ME.
35.add G79.G80 for power.
36.R385.R386.R388.R387 change for Gain.R395.R407 change to 56K.
37.add EC6.EC9.EC10.EC11.EC13 to 960 for EMI.
38.add EC41.EC42.EC49.EC50.EC127 for EMI.
39.add R423.R422 for EMI.
40.add RN34.RN35.RN36 for EMI.
41.remove Golden finger
42.swap Touchpad pin define.
43.change L1 L2 to 68.00084.371.
44.change DC1 to 22.10037.E91 for ME.
45.change TVOUT1 to 22.10021.F41 for ME.
SB to -1
1.add AFTE test point for power board Conn.
2.add R432.C583 change G47 to R433 for 3D3V_AUX_S5 power option
3.change to 0 ohm pad for R45.R41.R216.R391.R183.R184.R14.R162.
R78.R79.R74.R87.R73.R77.R390.R21.R194.R187
4.change SPKR1 to 20.D0197.104 for ME.
5.change TRING1 to 21.E0024.102 for ME.
6.remove D7.D8.D9 for EMI.
7.add EC116.EC113.EC111.EC62.EC90.EC112.EC124.EC123.EC52.EC23.EC12.EC89.EC75.EC87.EC95.
8.change R422.R423 to 33 ohm.add EC71.EC72 to 33P for EMI.
9.add EC128.EC129 for EMI.
10.change c419 to 78.10234.1BL for source OBSOLETED.
11.change LEFT1.LEFT2.RIGHT1 to 62.40009.671 for ME.
12.change TVOUT1 to 22.10021.H61 for ME.
13.change BAT1 to 20.F1152.007 for ME.
14.add D26 for EMI.
15.change TC17 to 79.22710.3AL for USB droop test fial.
16.change TC2.EC84 to 5V_USB3_S0_1,change TC17.EC101 to5V_USB2_S0_1 for UPT2 fail.
17.add GND6.GND7.GND8.GND9.GND10.GND11.GND12.GND13 fot EMI.
18.change CRT1 to 20.20378.015 for ME.
19.del GND1.GND2.

ICS

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		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Change List			
Size	Document Number		Rev
	Calado		-1
Date: Thursday, September 13, 2007			
Sheet		39	of 39