

MODEL NAME : *KIU20*
PCB NO : *LA-5091P (DA60000BR10)*
BOM P/N : *43169831L02*

Compal Confidential

Bear Schematics Document

Intel Diamondville Processor with Calistoga(945GSE) + DDRII + ICH7M

2009-3-31

REV: 1.0

@ : Nopop Component

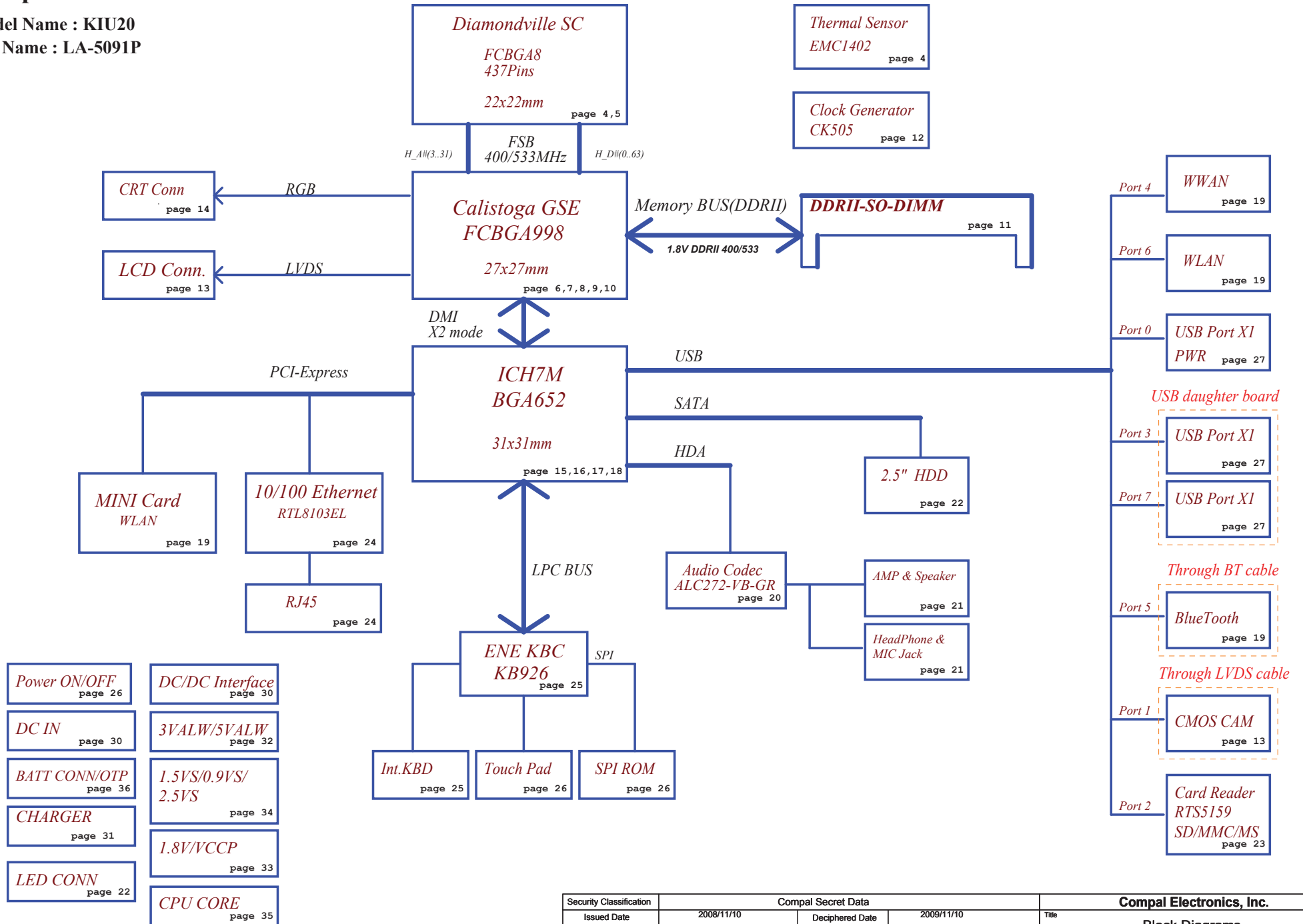
1@ : For N280 only

2@ : For N270 only

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				Date: Wednesday, April 22, 2009	Rev 1.0
				Sheet 1 of 39	

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Model Name : KIU20
File Name : LA-5091P



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Size	Custom	Document Number	LA-5091P	Rev	1.0
Date:	Wednesday, April 22, 2009	Sheet	2	of	39

Voltage Rails

Power Plane	Description	S1	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit.	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+0.9VS	0.9V switched power rail for DDR terminator	ON	OFF	OFF
+VCCP	VCCP switched power rail	ON	OFF	OFF
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8V	1.8V power rail for DDR	ON	ON	OFF
+2.5VS	2.5V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+VS	VS always on power rail	ON	ON	ON*
+RTCBATT	RTC power	ON	ON	ON

Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.

STATE \ SIGNAL	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS	Clock
Full ON	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1 (Power On Suspend)	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3 (Suspend to RAM)	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4 (Suspend to Disk)	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 (Soft OFF)	LOW	LOW	LOW	ON	OFF	OFF	OFF

BOARD ID Table(Page 25)

ID	BRD ID	Ra	Rb	Vab
0	R01 (SSI)	NC	0	0V
1	R02 (ST)	100K	8.2K	0.25V
2	R10 (X build)	100K	18K	0.50V
3	R10A (MP)	100K	NC	3.3V

External PCI Devices

DEVICE	IDSEL #	REQ/GNT #	PIRQ
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No PCI Device

EC SM Bus1 address

Device	Address
Smart Battery	0001 011X b
EEPROM(24C16/02)	1010 000X b

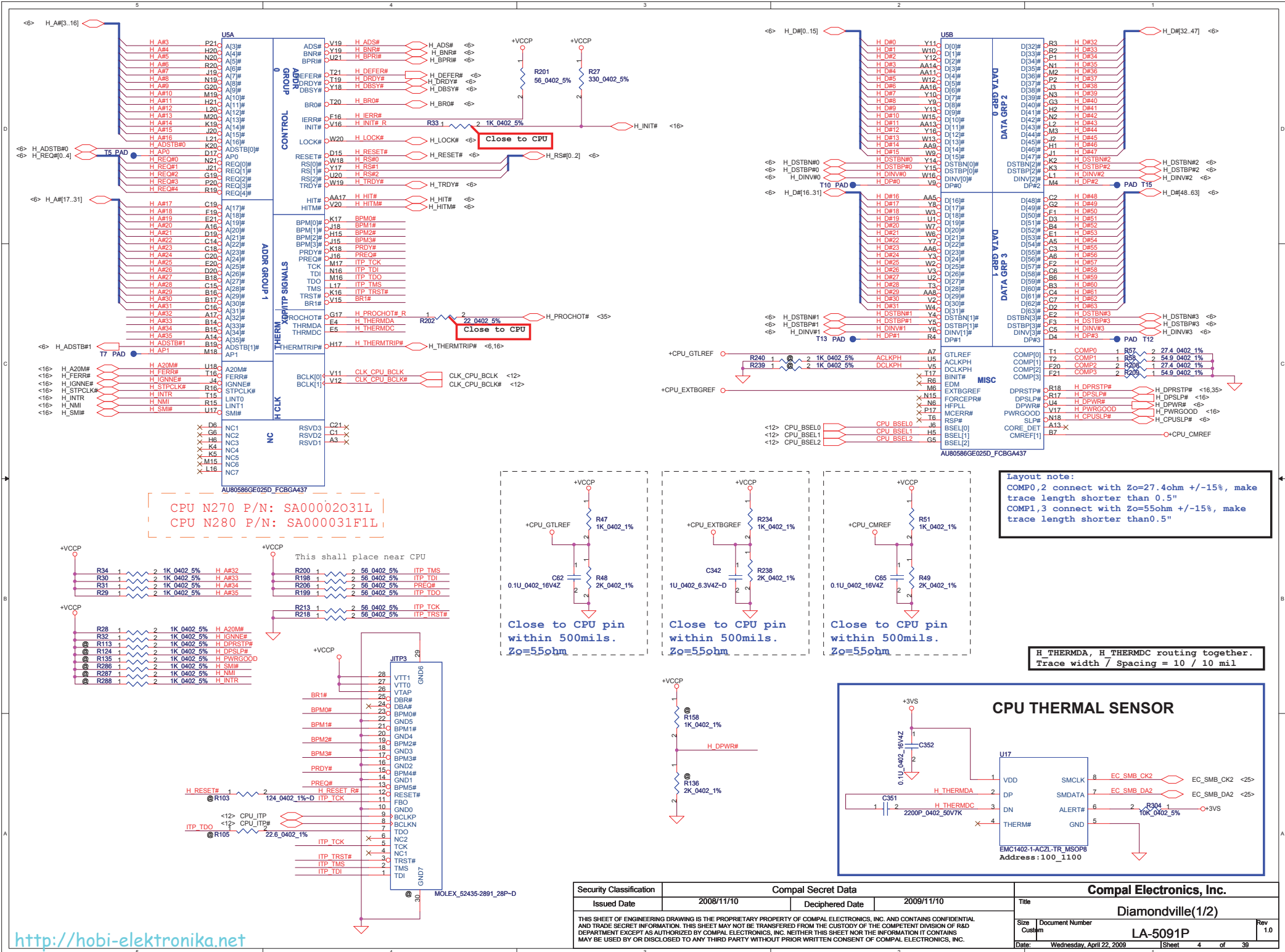
EC SM Bus2 address

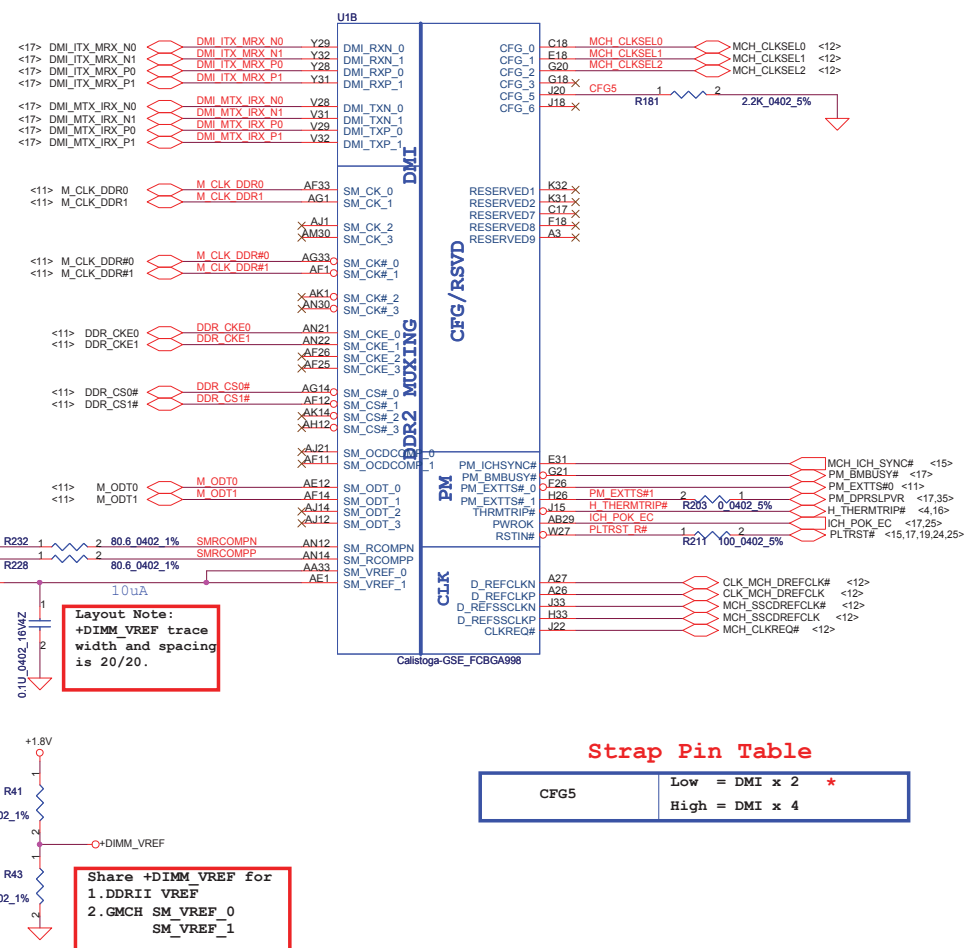
Device	Address
EMC1402	1001 100X b

ICH7M SM Bus address

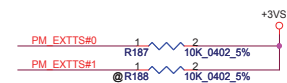
Device	Address
Clock Generator (SLG8SP556VTR)	1101 001Xb
DDR DIMMA	1010 000Xb

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				Date: Wednesday, April 22, 2009	Sheet 3 of 39	



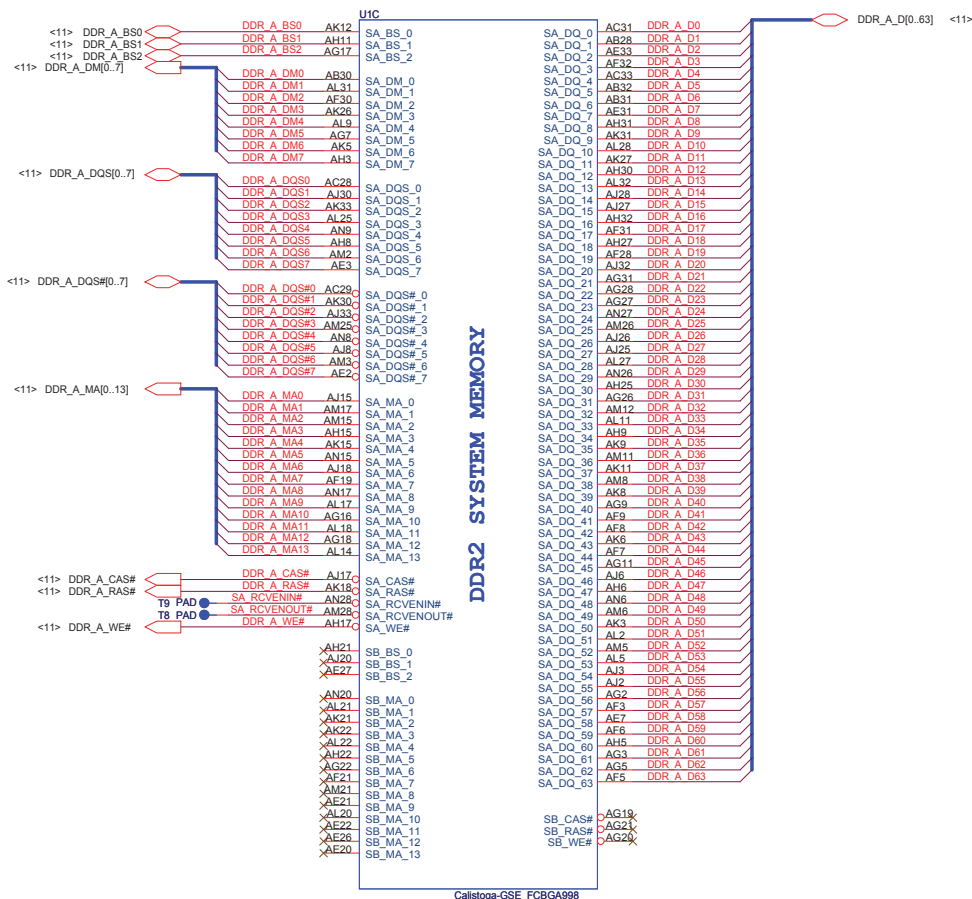


CFG5	Low = DMI x 2 *
	High = DMI x 4

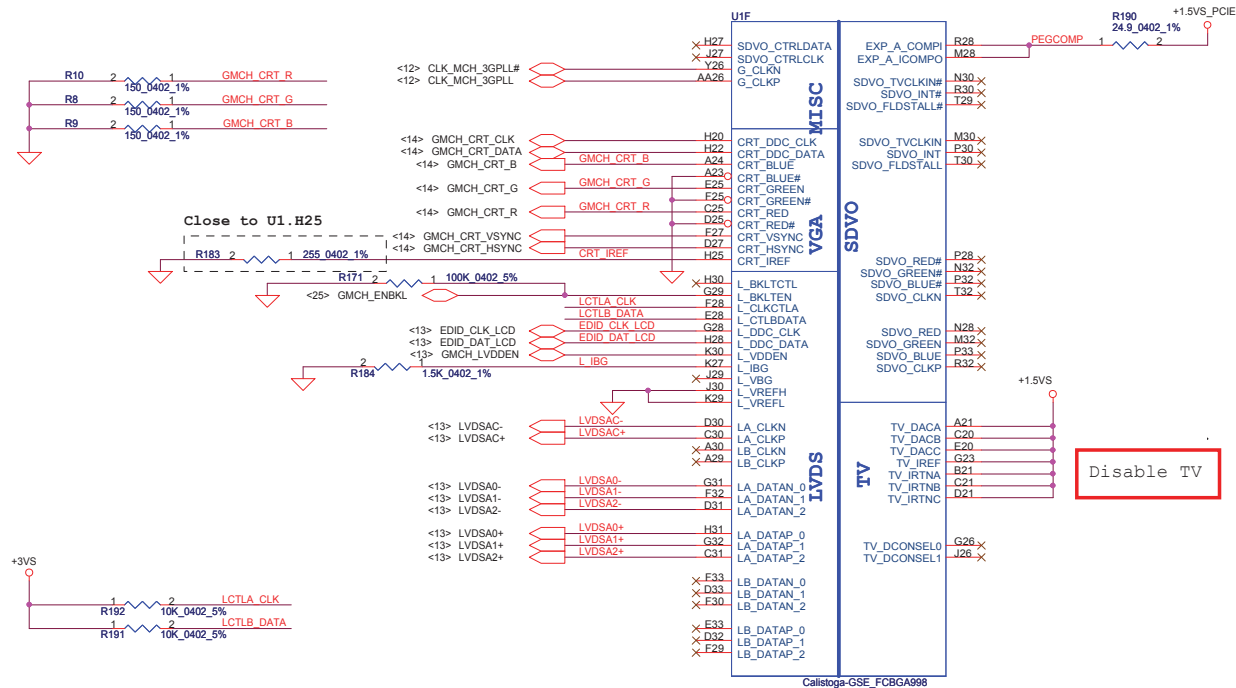


C50 be placed <100mils
from GMCH pin

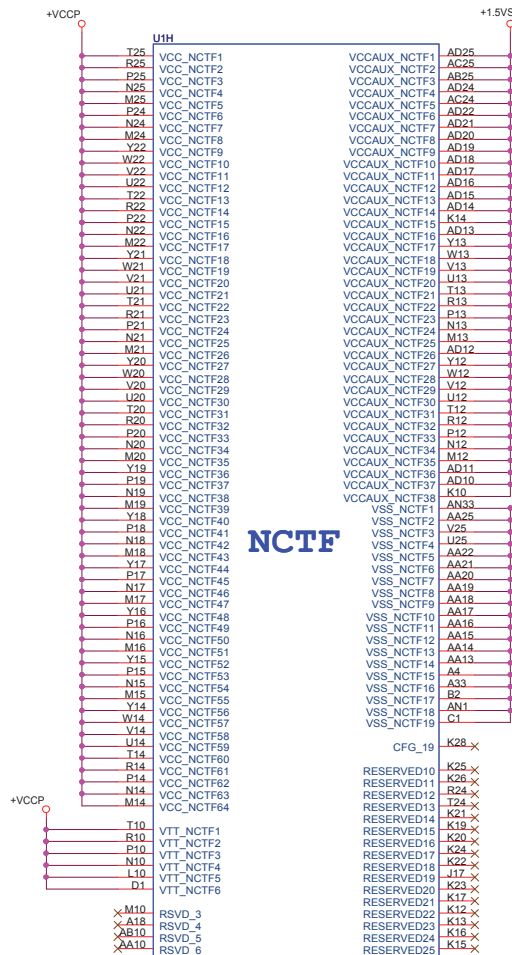
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				Date: Wednesday, April 22, 2009	Rev 1.0 Sheet 6 of 39



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				Size	Rev
				Custom	1.0
				LA-5091P	
				Date:	Wednesday, April 22, 2009
				Sheet	7 of 39

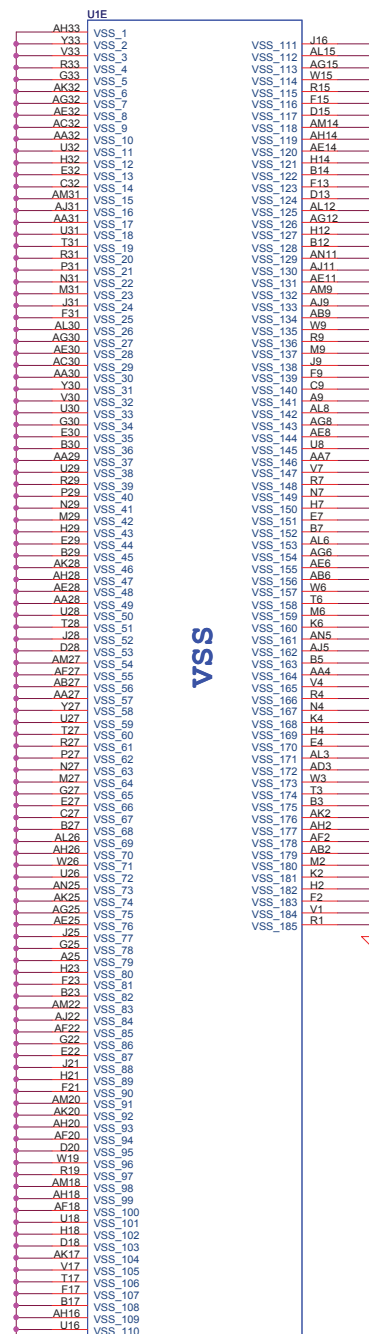


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Size	Custom	Document Number	LA-5091P	Rev	1.0
Date:	Wednesday, April 22, 2009	Sheet	8	of	39



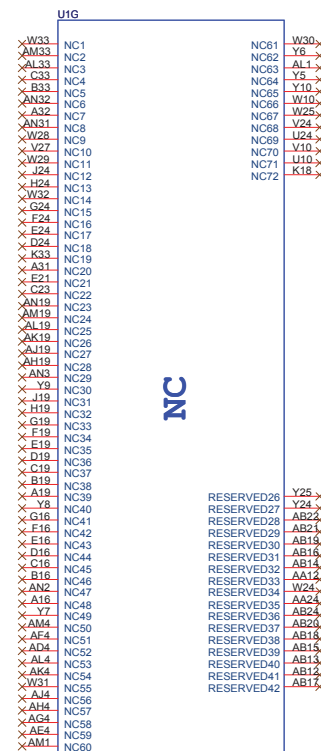
NCTF

Callistoga-GSE_FCBGA998



SSF

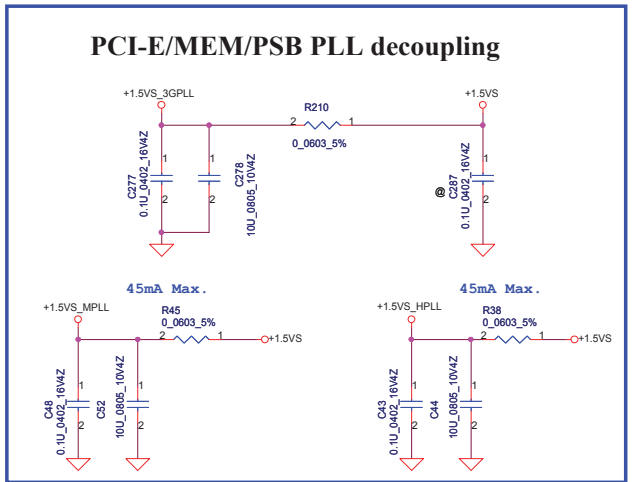
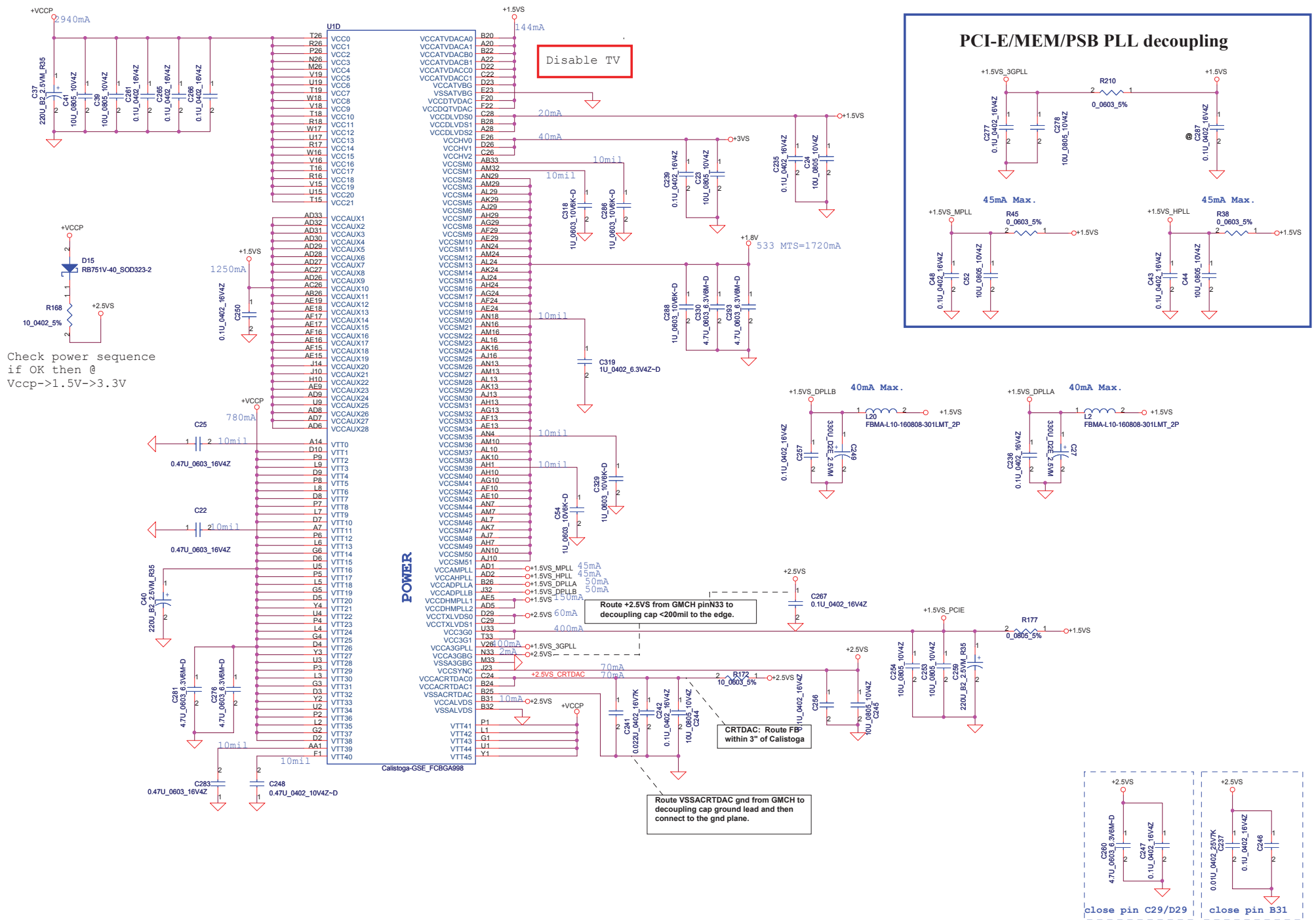
Callistoga-GSE_FCBGA998





NC

Callistoga-GSE_FCBGA998

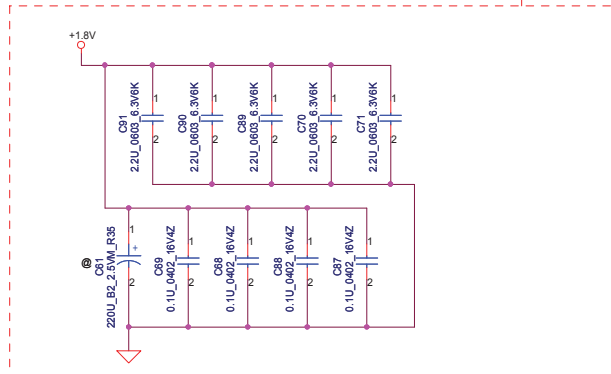
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Size		Document Number		Rev	
Custom		LA-5091P		1.0	
Date:		Wednesday, April 22, 2009		Sheet 9 of 39	



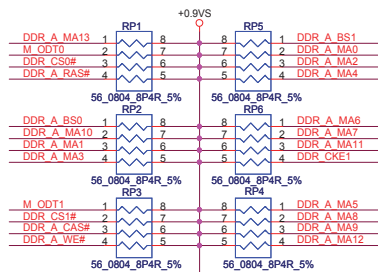
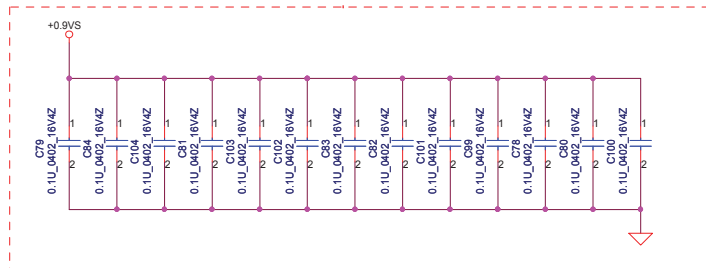
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				Date	Wednesday, April 22, 2009
				Sheet	10 of 39

<7> DDR_A_DQS#[0..7] 
 <7> DDR_A_D[0..63] 
 <7> DDR_DM[0..7] 
 <7> DDR_A_DQS[0..7] 
 <7> DDR_MA[0..13] 

Layout Note:
Place near JDIM1



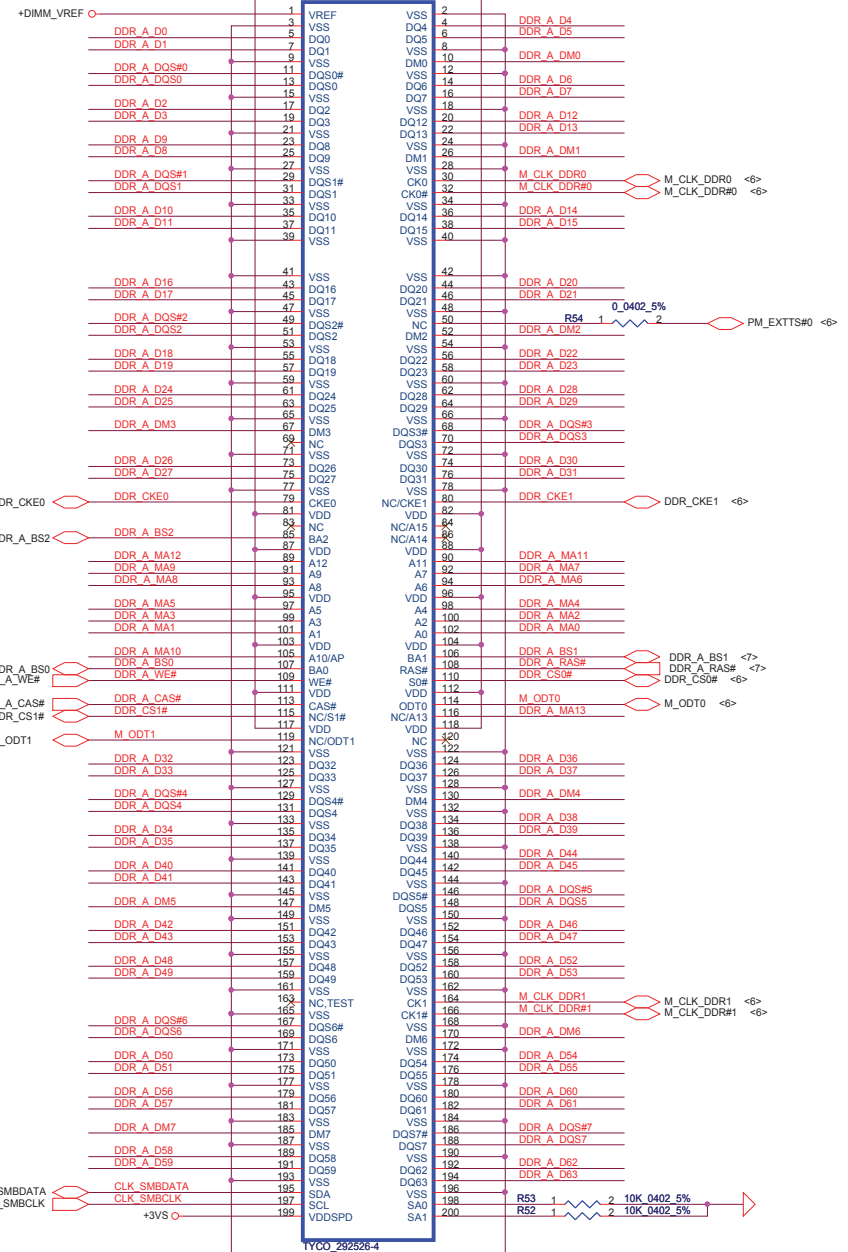
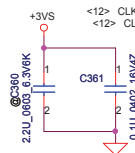
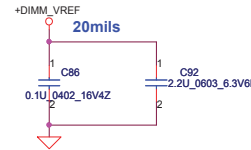
Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS



Layout Note:
Place these resistor closely DIMMA, all trace length < 750 mil



Layout Note:
Place these resistor closely DIMMA, all trace length Max=1.3"



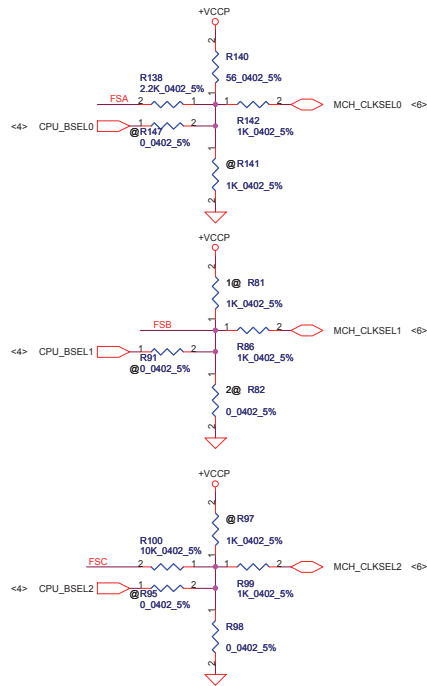
DIMMA

2/10: Change from 5.2mm to 4mm height CPN:SP07000CK00

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Size	Custom	Document Number	LA-5091P	Rev	1.0
Date	Wednesday, April 22, 2009	Sheet	11	of	39

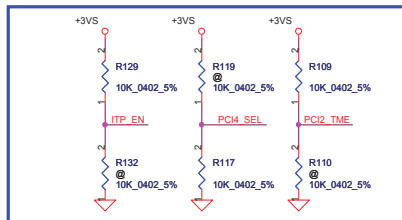
FSC CLKSEL2	FSB CLKSEL1	FSA CLKSEL0	CPU MHz	SRC MHz	PCI MHz	REF MHz	DOT_96 MHz	USB MHz
0	0	0	266	100	33.3	14.318	96.0	48.0
0	0	1	133	100	33.3	14.318	96.0	48.0
0	1	0	200	100	33.3	14.318	96.0	48.0
0	1	1	166	100	33.3	14.318	96.0	48.0
1	0	0	333	100	33.3	14.318	96.0	48.0
1	0	1	100	100	33.3	14.318	96.0	48.0
1	1	0	400	100	33.3	14.318	96.0	48.0
1	1	1	Reserved					

*

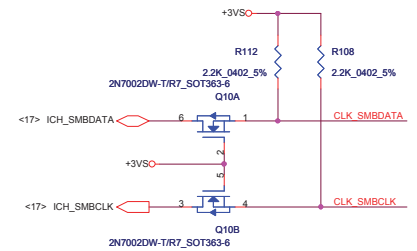
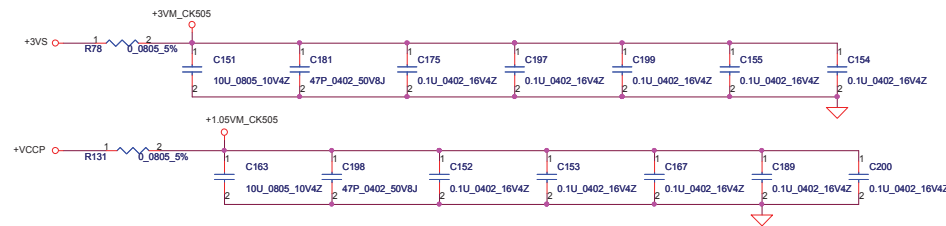


For ITP_EN, 0 = SRC8/SRC8#; 1 = ITP/ITP#
For PCI4_SEL, 0 = Pin24/25 : DOT96 / DOT96#
Pin28/29 : LCDCLK / LCDCLK#
1 = Pin24/25 : SRC_0 / SRC_0#
Pin28/29 : 27M/27M_SS

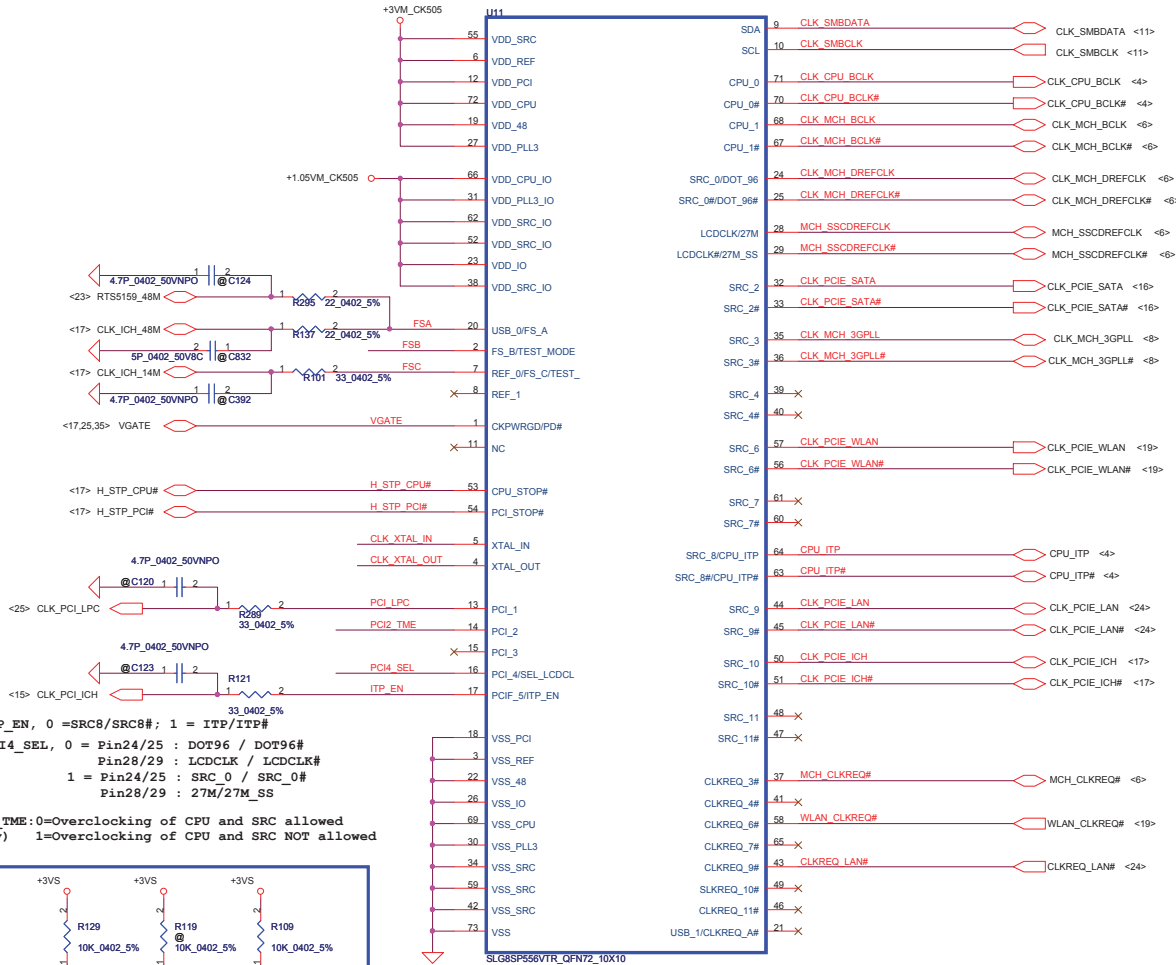
For PCI2_TME:0=Overclocking of CPU and SRC allowed
(ICS only) 1=Overclocking of CPU and SRC NOT allowed



Routing the trace at least 10mil



SA000020K00 (Silago : SLG8SP556VTR) SA000020H10 (ICS : ICS9LPRS387AKLFT)



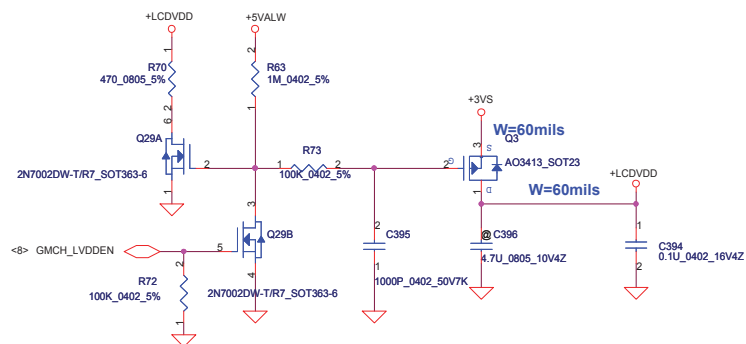
SRC PORT LIST

PORT	DEVICE
SRC0	MCH_DREFCLK
SRC2	PCIE SATA
SRC3	MCH_3GPLL
SRC4	
SRC6	PCIE_WLAN
SRC7	
SRC8	
SRC9	PCIE_LAN
SRC10	PCIE_ICH
SRC11	

REQ PORT LIST

PORT	DEVICE
REQ_3#	MCH_DREFCLK
REQ_4#	
REQ_6#	PCIE_WLAN
REQ_7#	
REQ_9#	PCIE_LAN
REQ_10#	
REQ_11#	
REQ_A#	

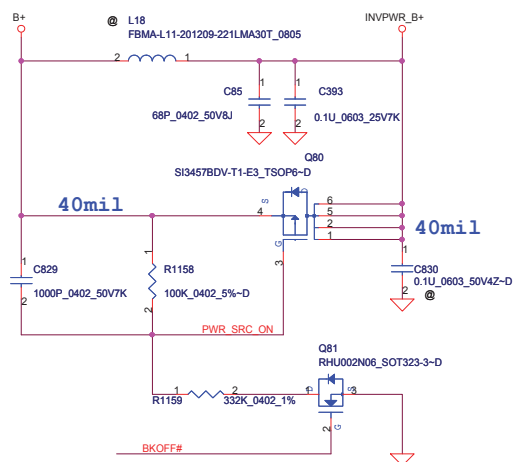
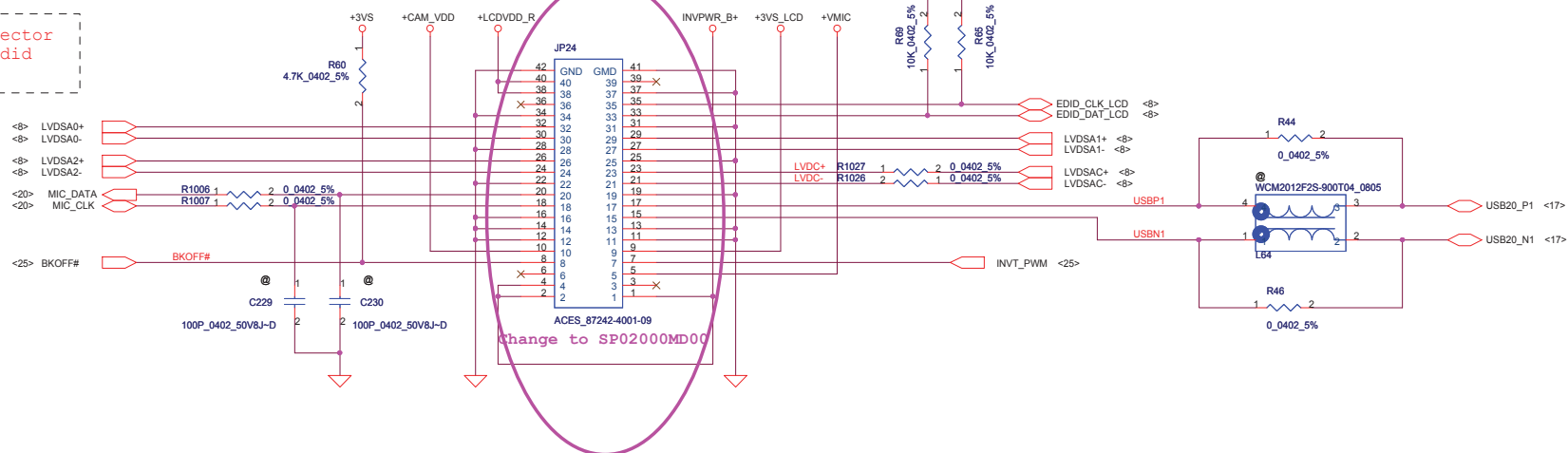
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								Size	Document Number						Rev	
								LA-5091P						1.0		
								Date:		Wednesday, April 22, 2009			Sheet		12 of 39	



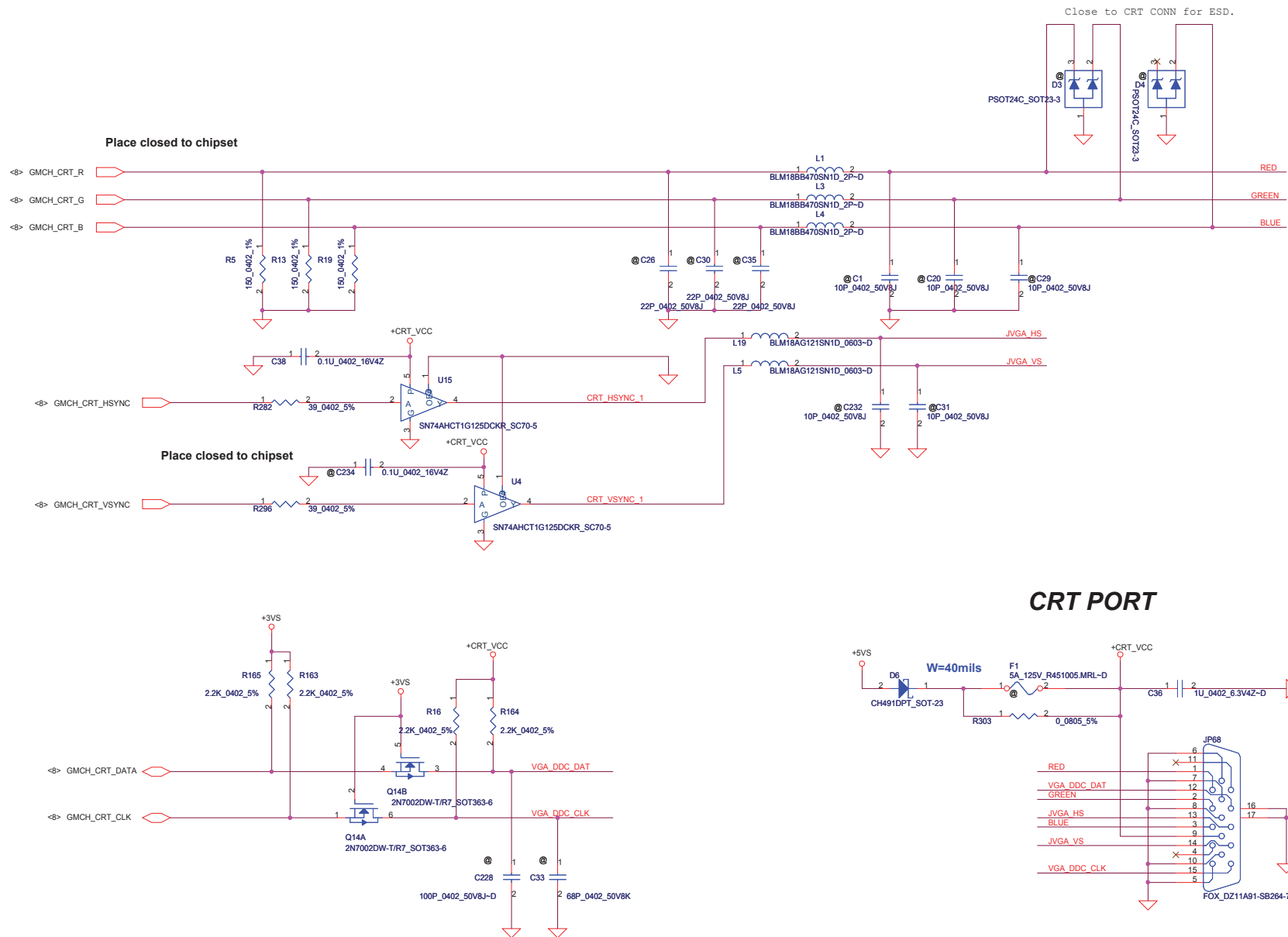
LCD POWER CIRCUIT



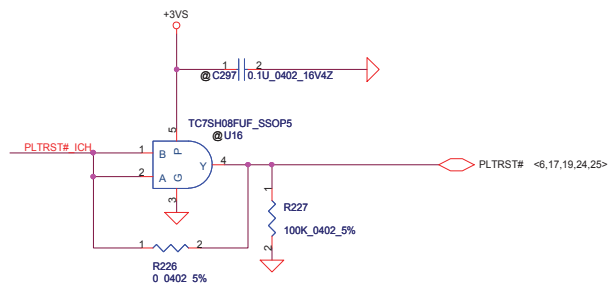
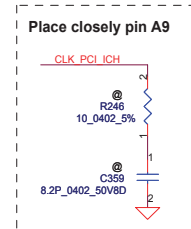
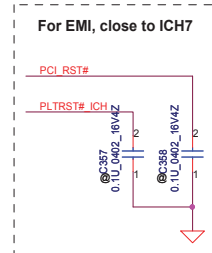
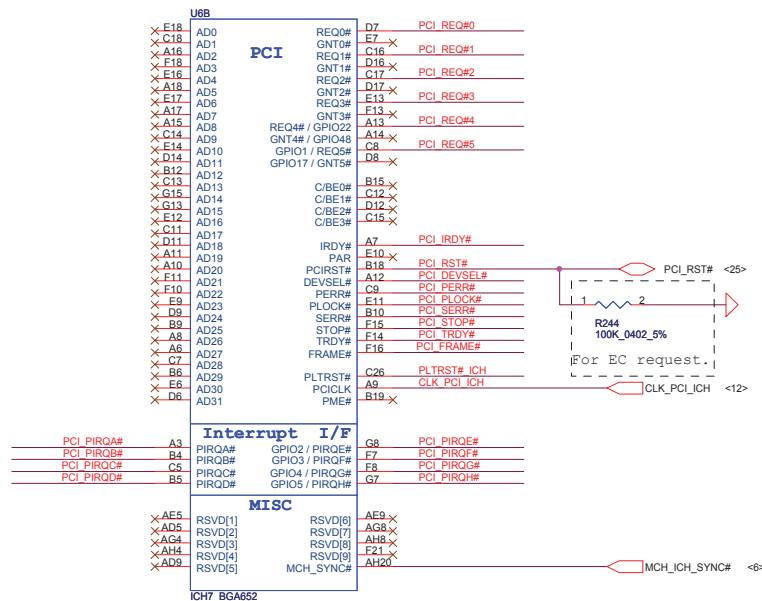
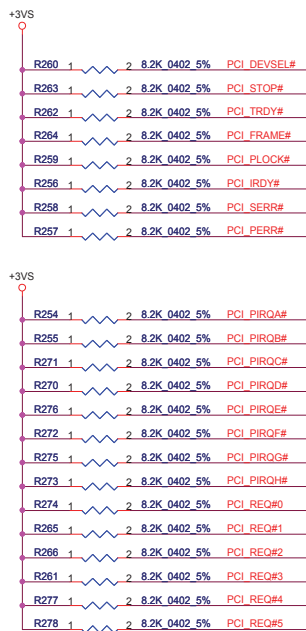
LCD/PANEL BD. Conn.



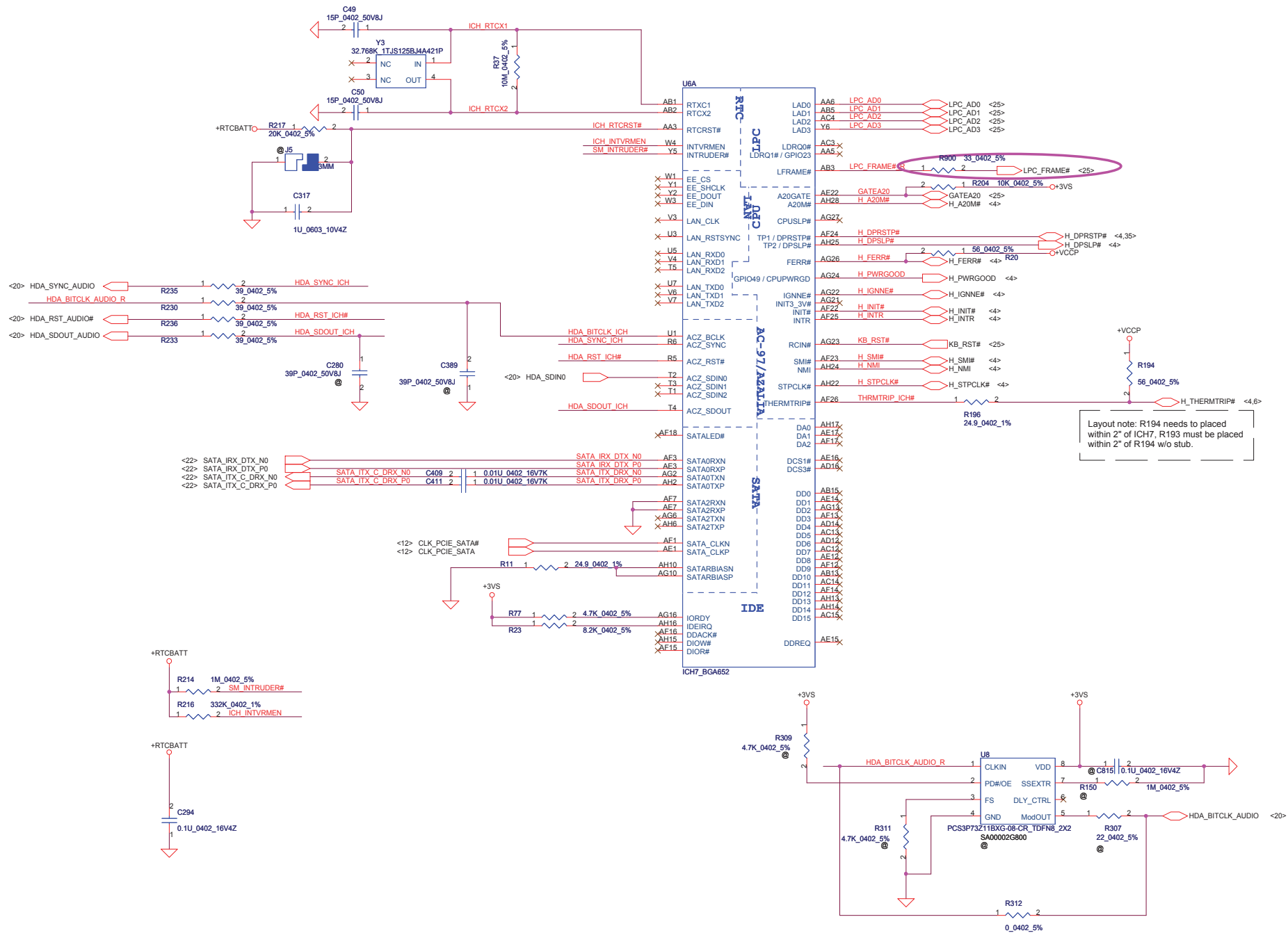
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				Size	Document Number
				LA-5091P	
Date: Wednesday, April 22, 2009		Sheet 13 of 39		Rev 1.0	



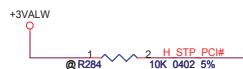
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				Size	Document Number
				Custom	LA-5091P
Date: Wednesday, April 22, 2009		Sheet 14 of 39		Rev 1.0	



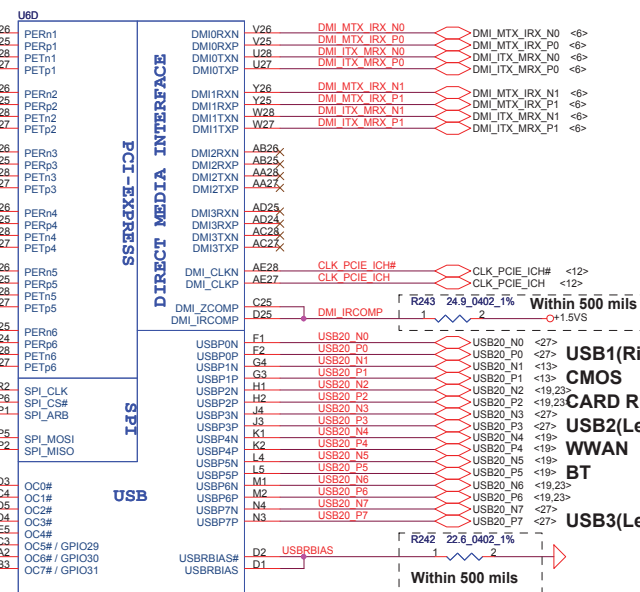
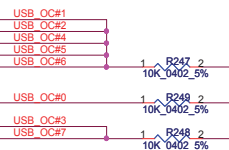
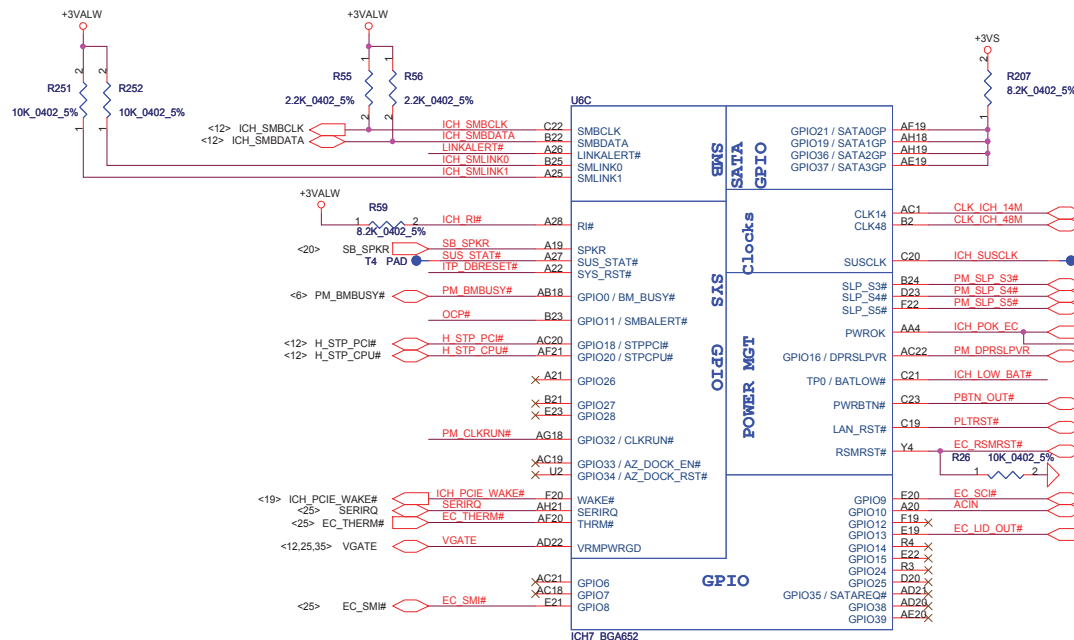
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				LA-5091P	
				Date	Wednesday, April 22, 2009
				Sheet	15 of 39



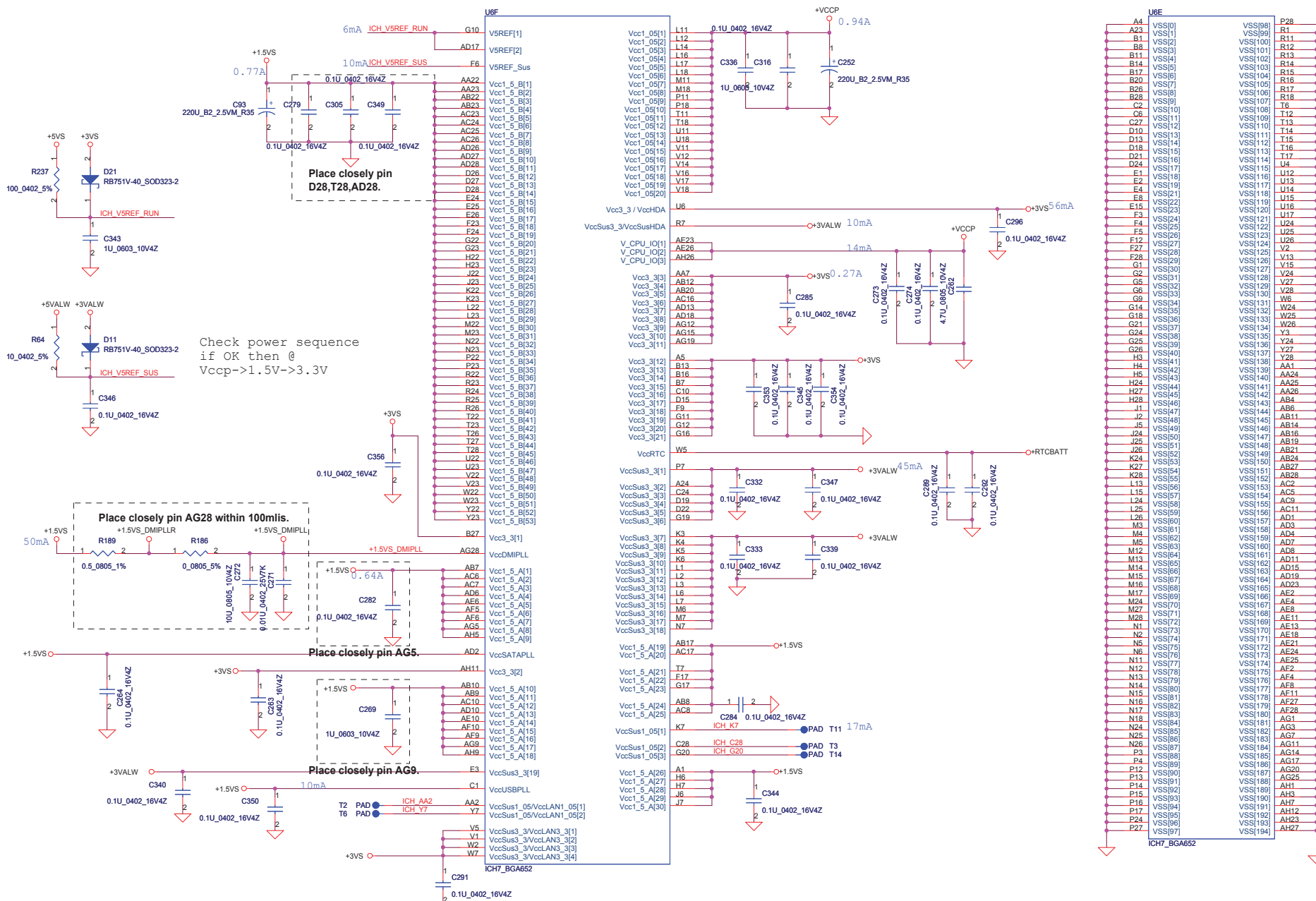
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Size	Custom	Document Number	LA-5091P	Rev	1.0
Date:	Wednesday, April 22, 2009	Sheet	16	of	39



some intel ICH7M
H_STP_PCI# has the
below glitch
that let Silego clk.
gen enter iAMT mode
when power on, but
ICS clk. gen has no
this issue now.

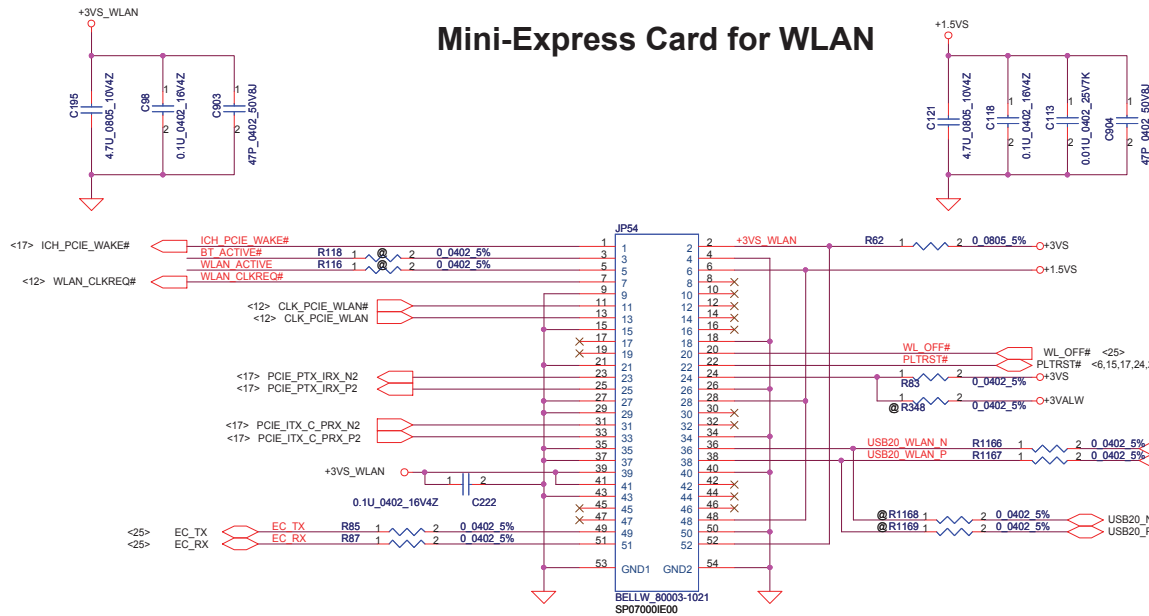


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Issued Date	2008/11/10	Deciphered Date	2009/11/10	Title ICH7M(3/4)-USB/GPIO/PCIE		
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				Date: Wednesday, April 22, 2009	Sheet 17 of 30	

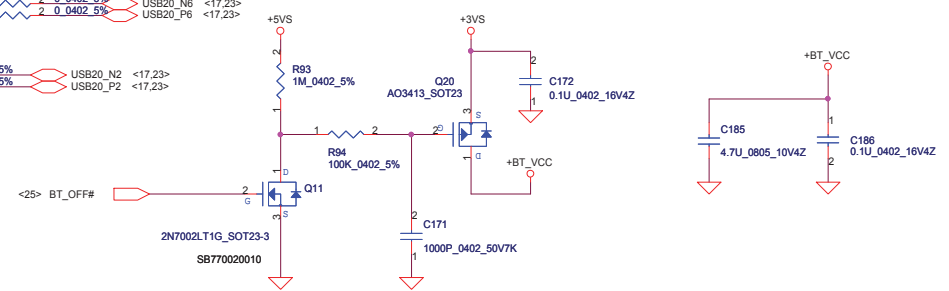


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Size	Custom	Document Number	LA-5091P		Rev
Date	Wednesday, April 22, 2009	Sheet	18	of	39

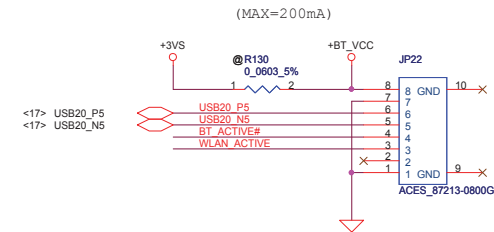
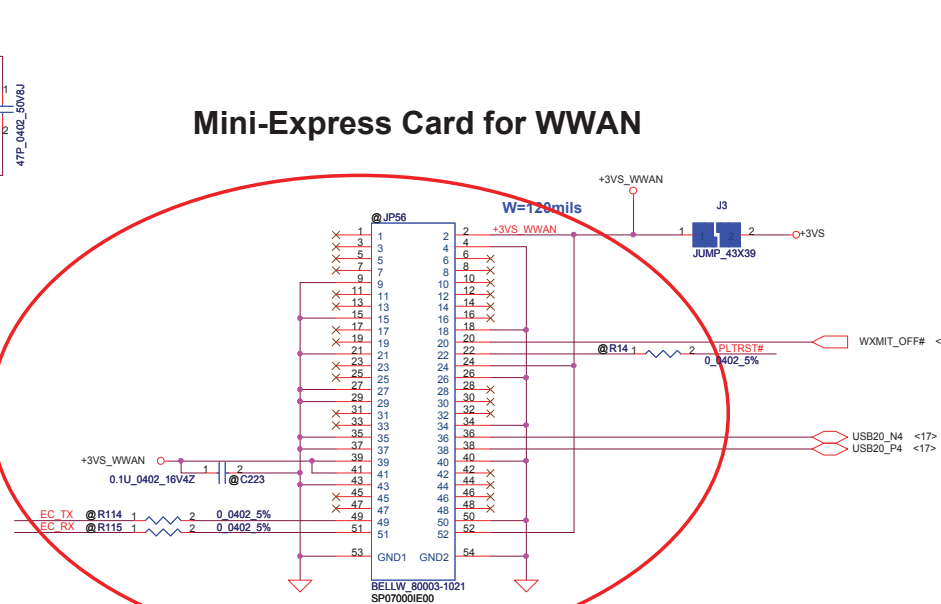
Mini-Express Card for WLAN



BlueTooth Interface

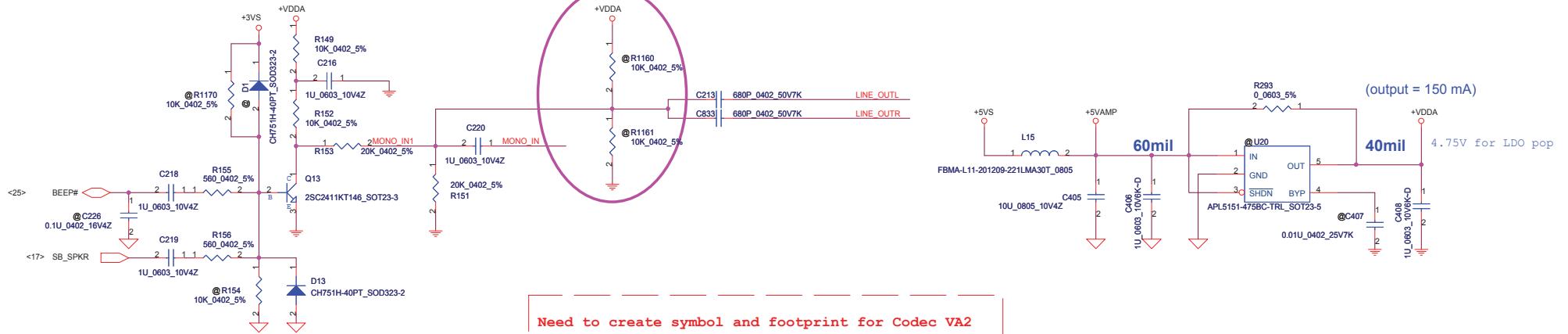


Mini-Express Card for WWAN

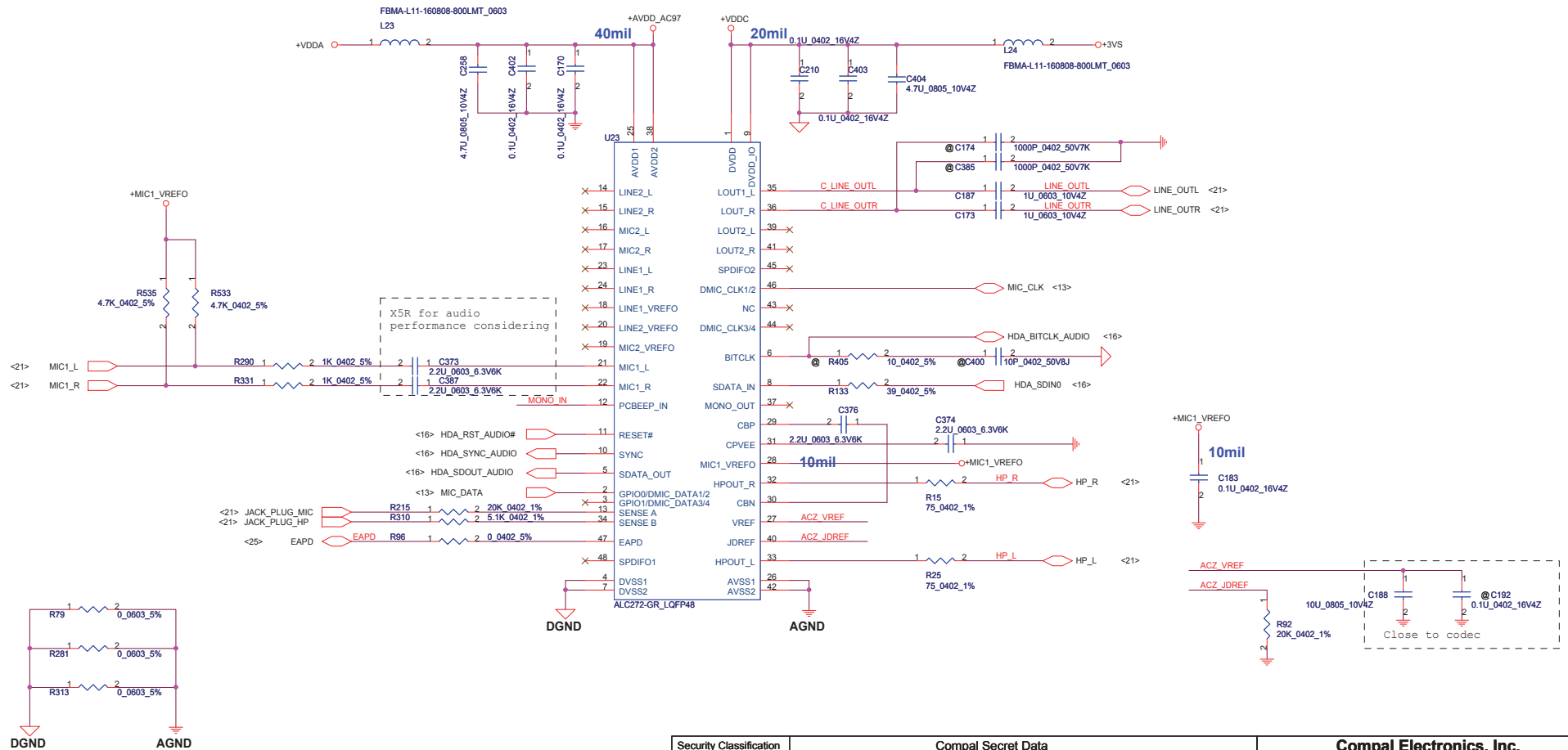


Tiger FW update for S3 issue.

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				Date	Wednesday, April 22, 2009
				Sheet	19 of 39

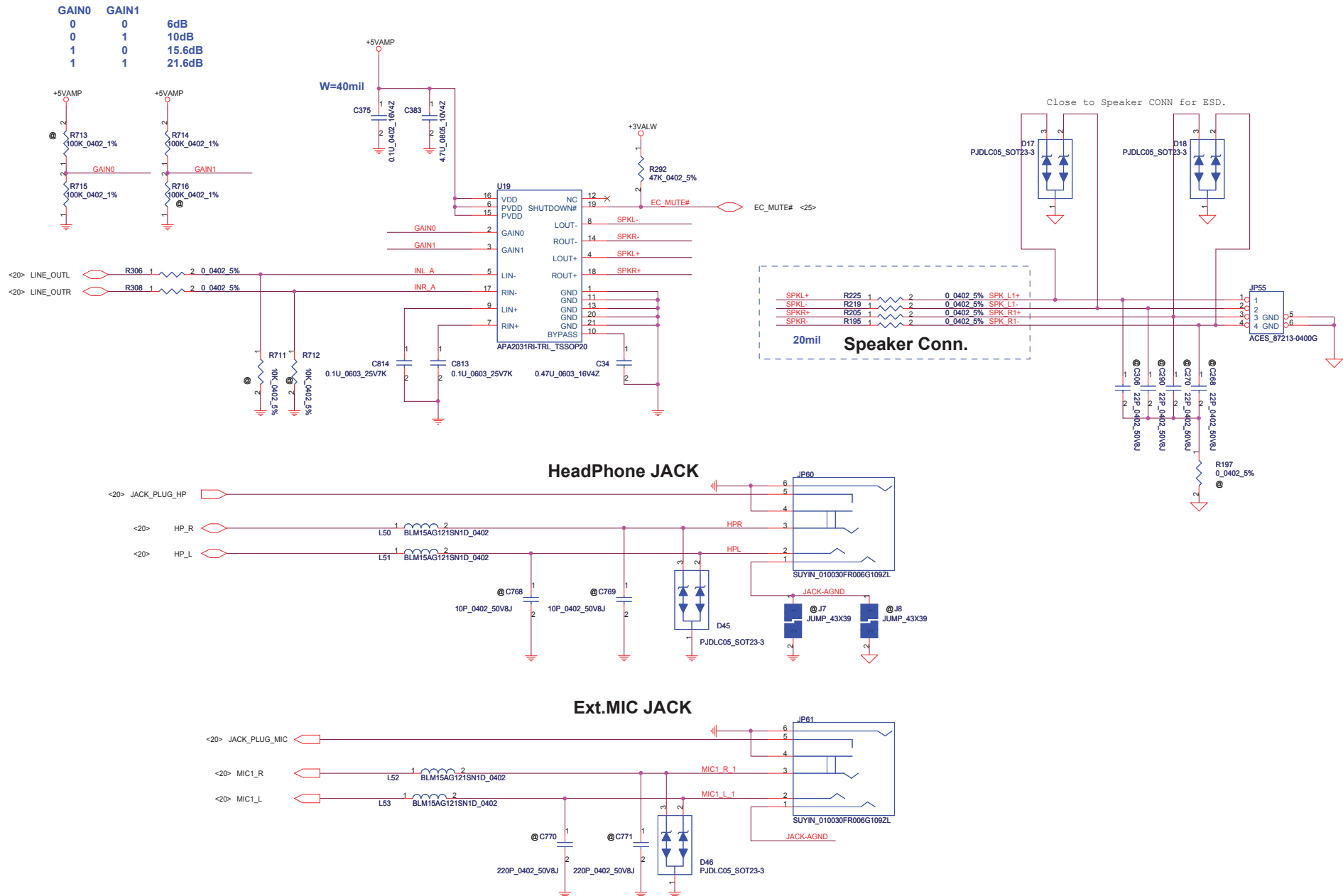


HD Audio Codec

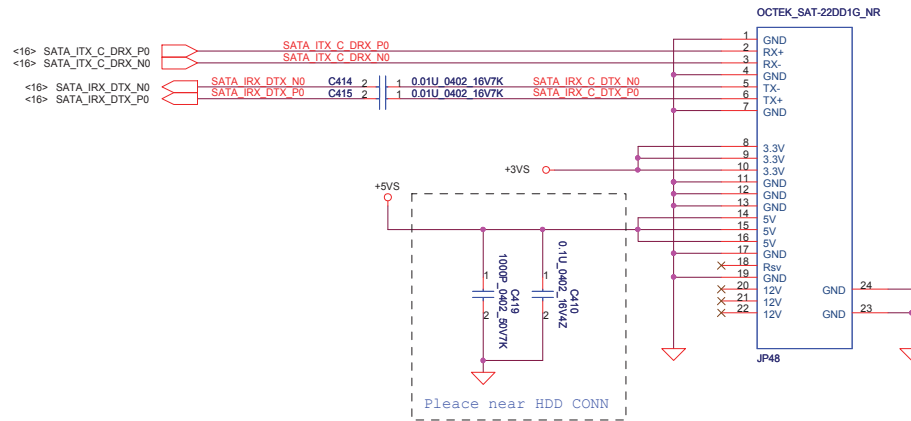


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Size Custom	Document Number	LA-5091P		Rev	1.0
Date:	Wednesday, April 22, 2009	Sheet	20	of	39

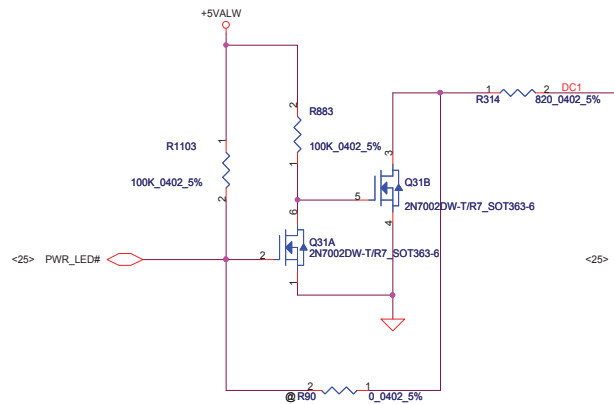
APA2031A SPK Amplifier



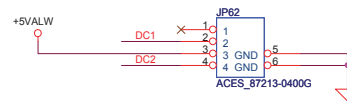
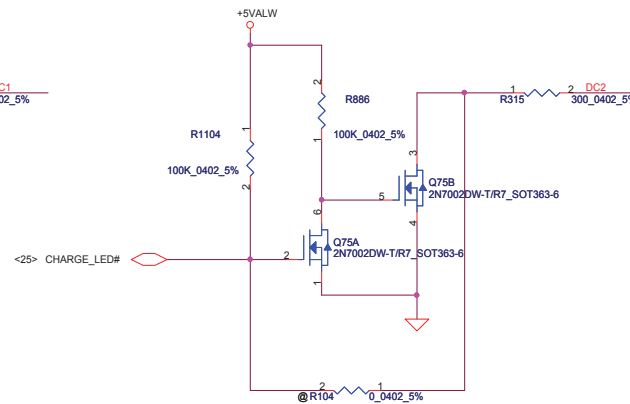
For HDD



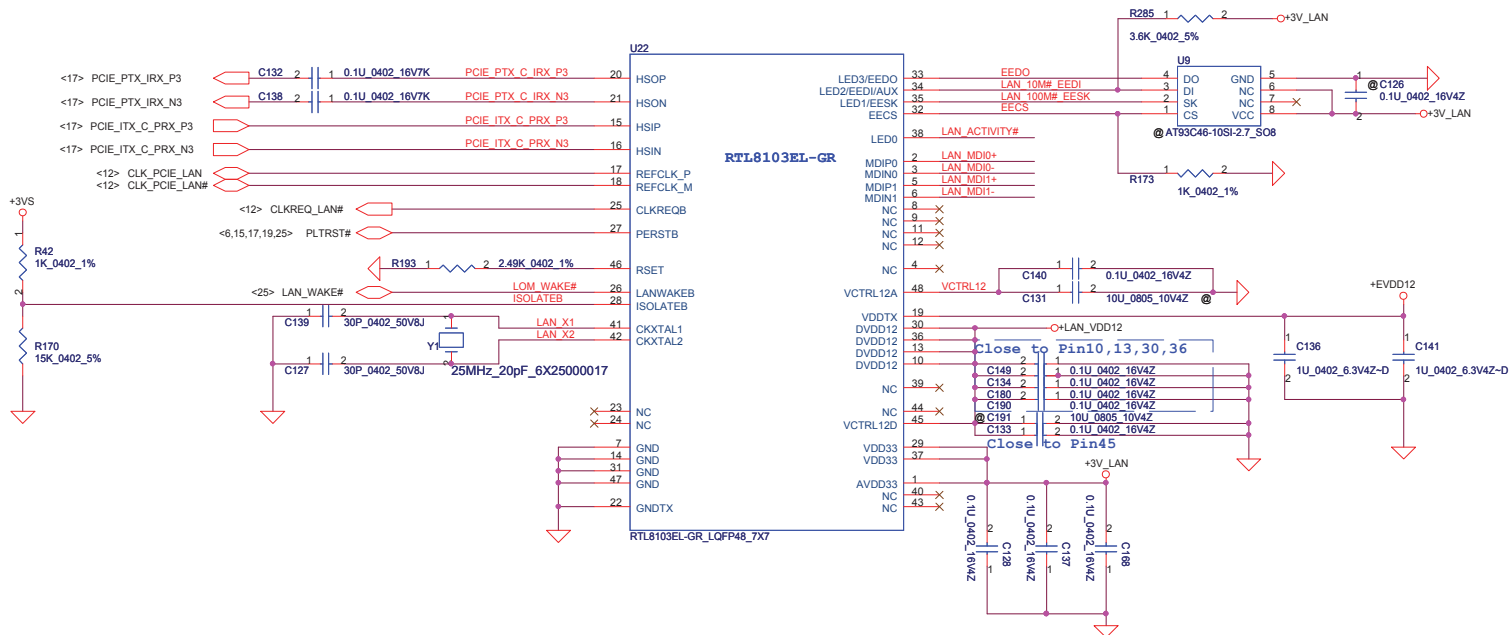
POWER LED



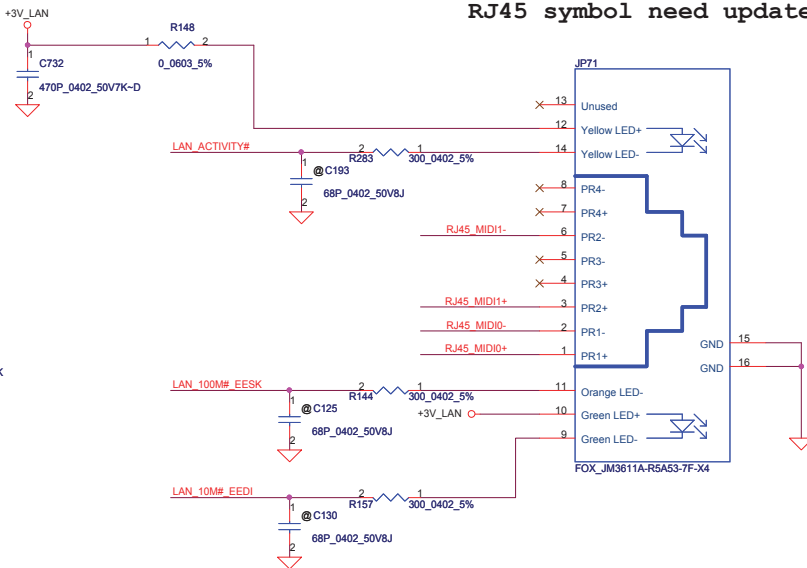
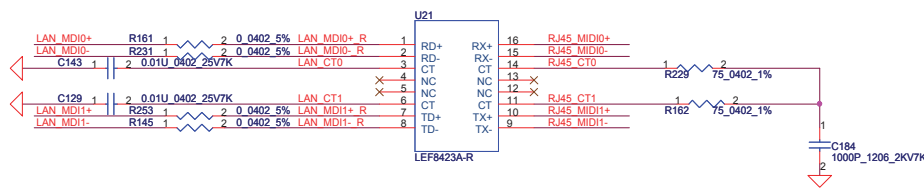
BATT CHARGE LED



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				Size Custom	Document Number LA-5091P
				Date: Wednesday, April 22, 2009	Sheet 22 of 39

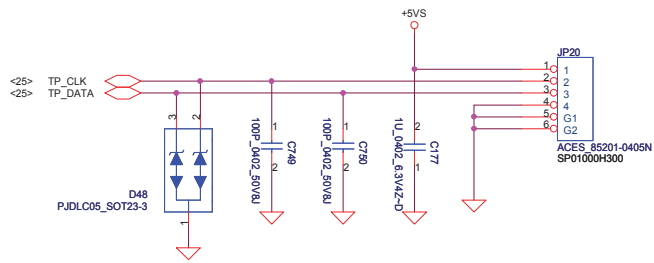


RJ45 symbol need update

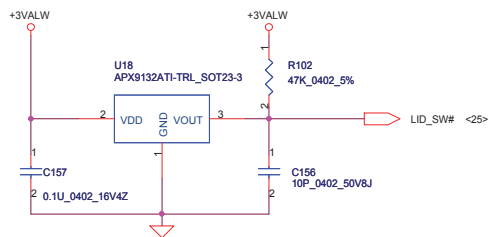


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								Document Number		LA-5091P		1.0	
								Custom					
								Date:		Wednesday, April 22, 2009		Sheet 24 of 39	

Touch/B Connector

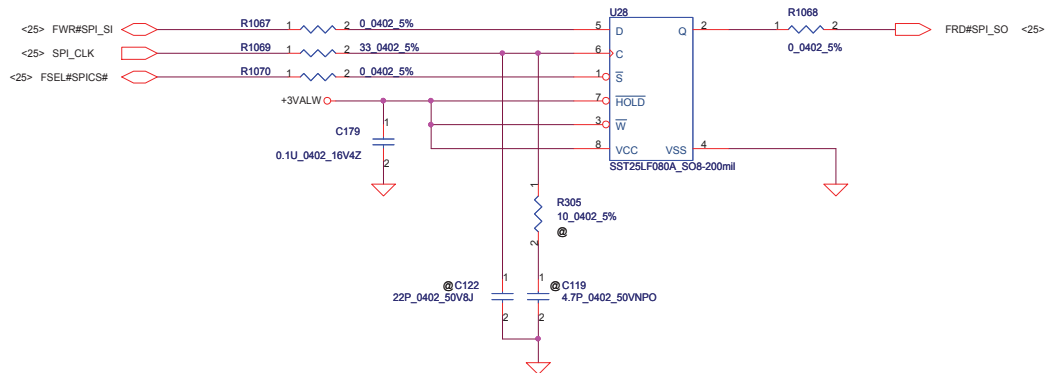


LID Switch

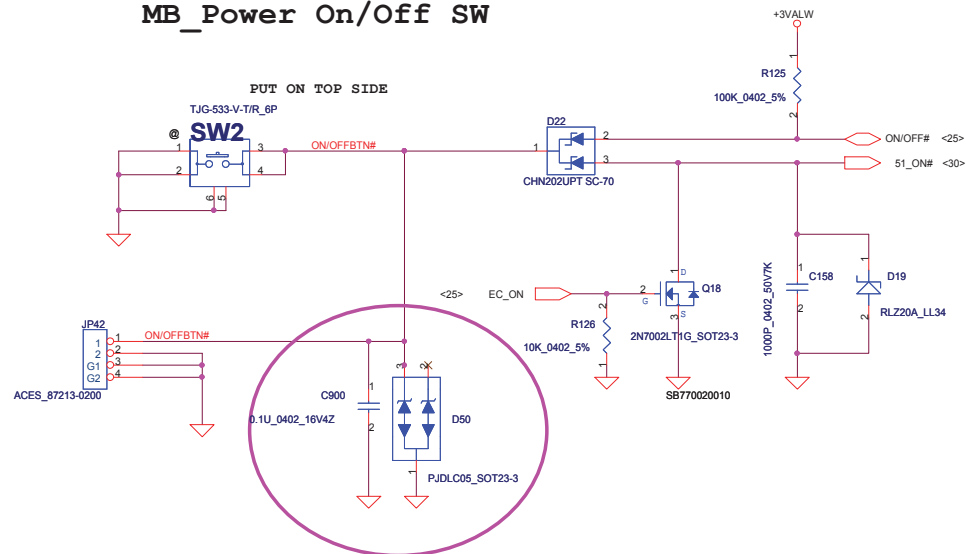


Need to create symbol and footprint for MX SPI ROM

System SPI Flash ROM (8Mb)



MB_Power On/Off SW

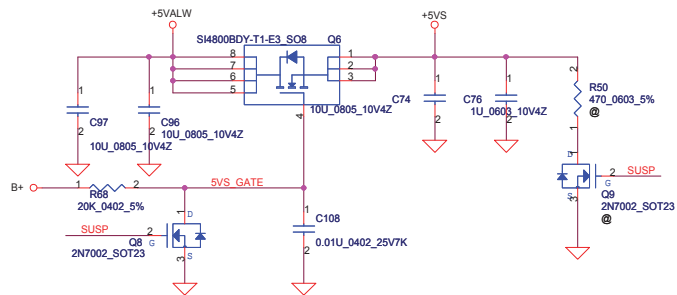


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										LID SW/BIOS/TP	
										LA-5091P	
										Rev 1.0	
										Date: Wednesday, April 22, 2009	
										Sheet 26 of 39	

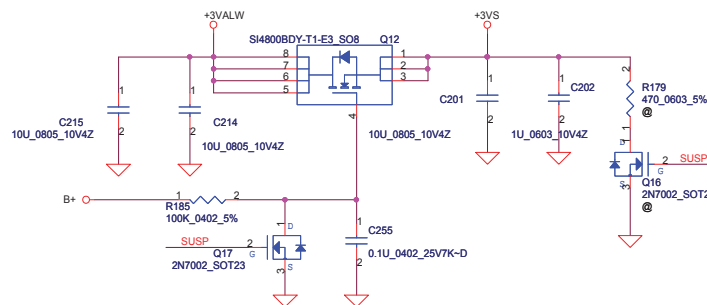
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Document Number: LA-5091P
Date: Wednesday, April 22, 2009
Sheet: 26 of 39

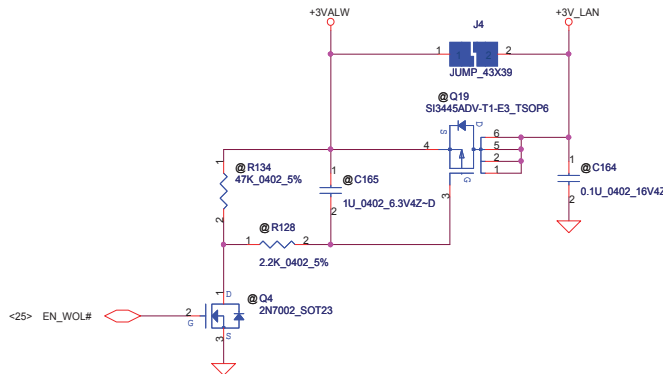
+5VALW TO +5VS



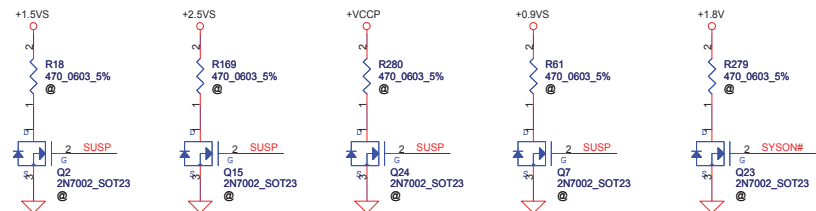
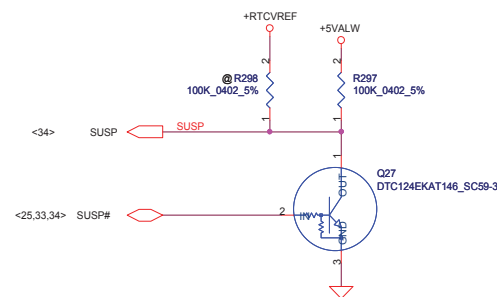
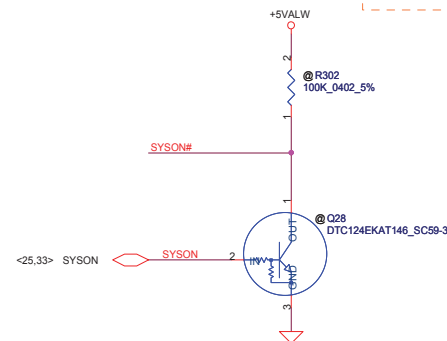
+3VALW TO +3VS



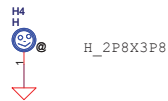
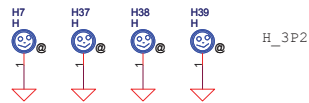
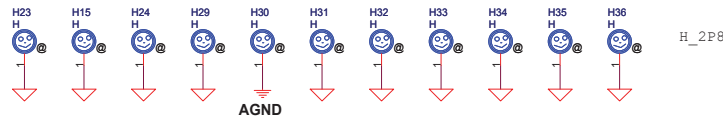
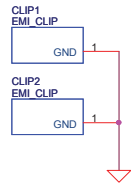
+3VALW to +3V_LAN



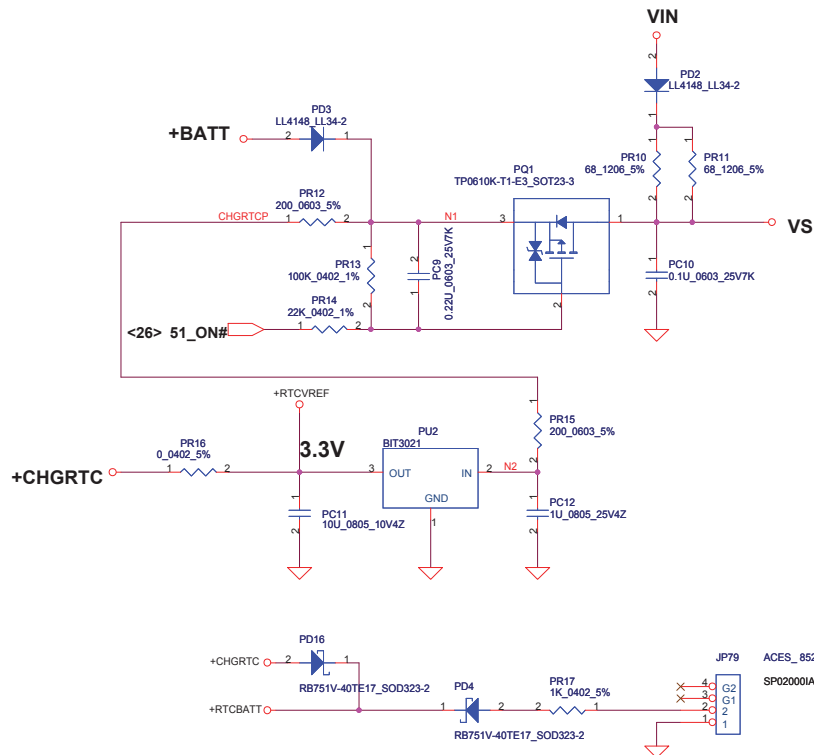
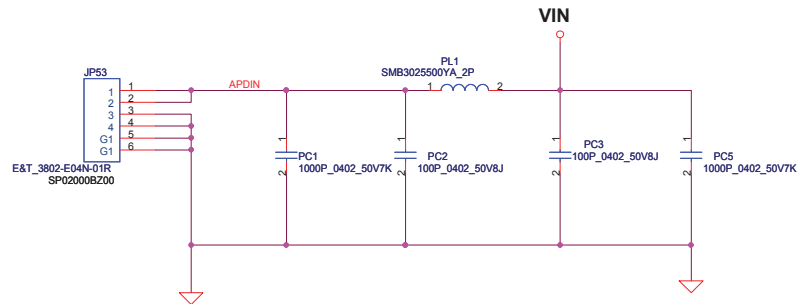
If the +1.8V discharge circuit is pop, R302, Q28 need pop.



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				Size	Document Number			Rev	
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				Date	Wednesday, April 22, 2009	Sheet	28	of	30

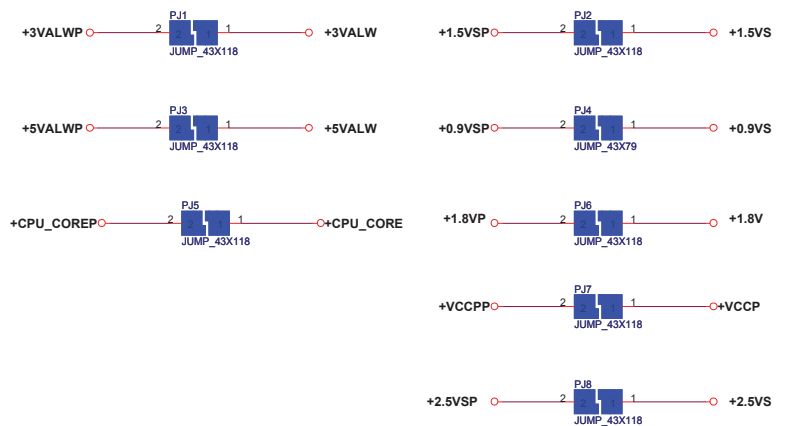
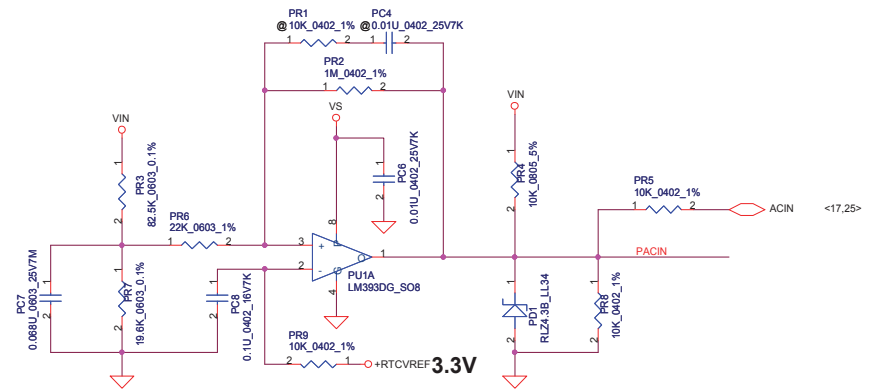


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				Custom	LA-5091P	1.0
				Date:	Wednesday, April 22, 2009	Sheet 29 of 39



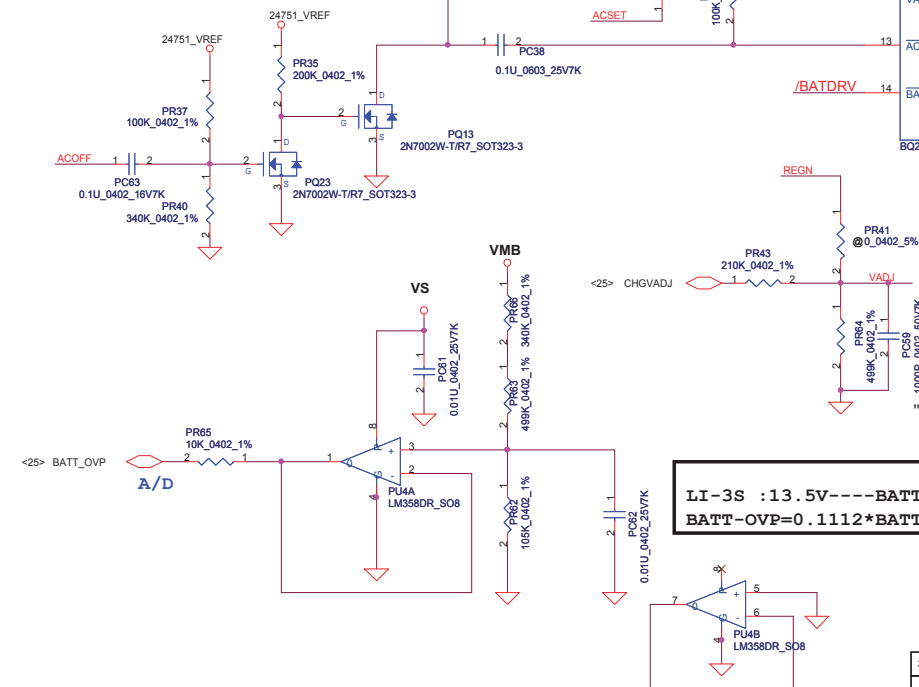
Vin Detector

High	18.059	17.841	17.624
Low	17.418	17.210	16.998



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Size Custom				Document Number
Date: Wednesday, April 22, 2009				LA-5091P
Sheet 30 of 39				Rev 1.0

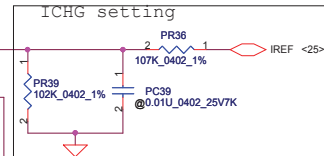
CP Point Setting
 CP point=ladapter*85%
 30W adapter
 $V_{acset}=3.3 \cdot (51K/(205K+51K))=0.657V$
 $CP\ Point=(V_{acset}/V_{dacc}) \cdot (0.1/PR19)=1.328A$
 Input OVP : 22.3V
 ACIN detect : 17.26V
 Fsw : 300KHz



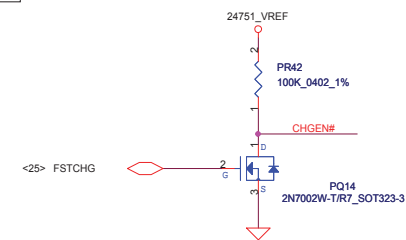
LI-3S :13.5V---BATT-OVP=1.5V
BATT-OVP=0.1112*BATT+

CHGVADJ	Pre Cell
3.3V	4.35V
0V	4V

"CHGVADJ" connect to EC DA pin



IREF	Current	
2.1V	1.54A	3 Cell
2.58V	1.9A	6 Cell

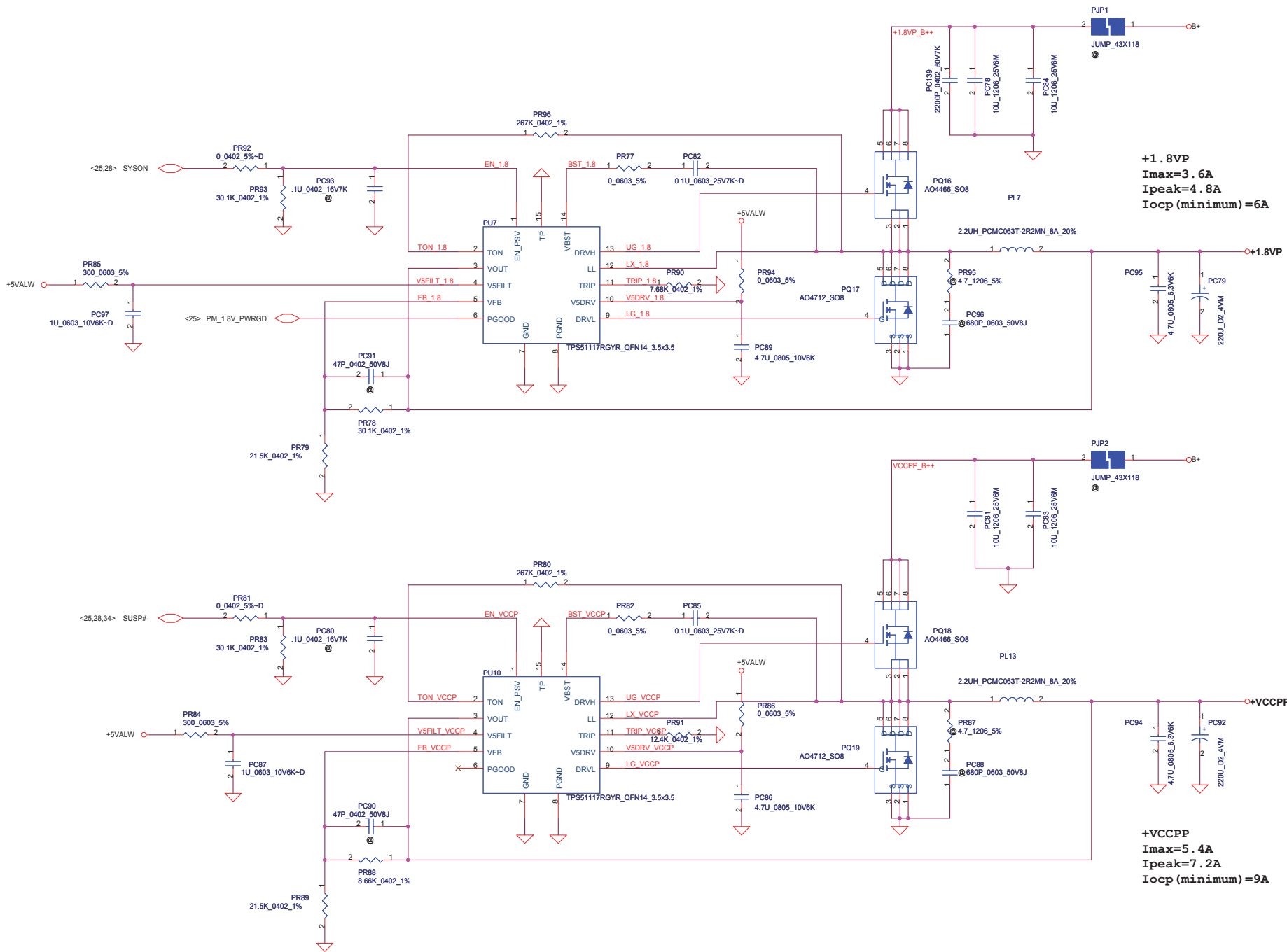


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						CHARGER				
						Size	Document Number	Rev		
						Custom	LA-5091P	1.0		
						Date:	Wednesday, April 22, 2009	Sheet	31	of 39

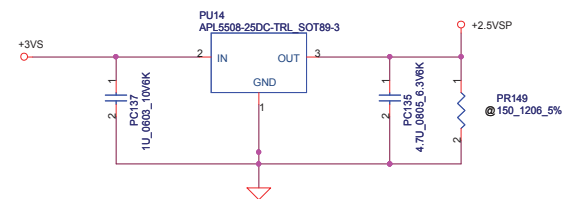
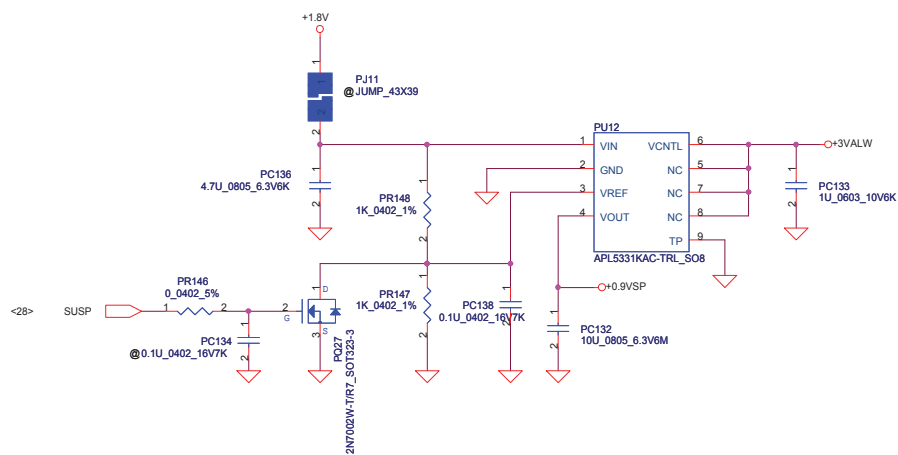
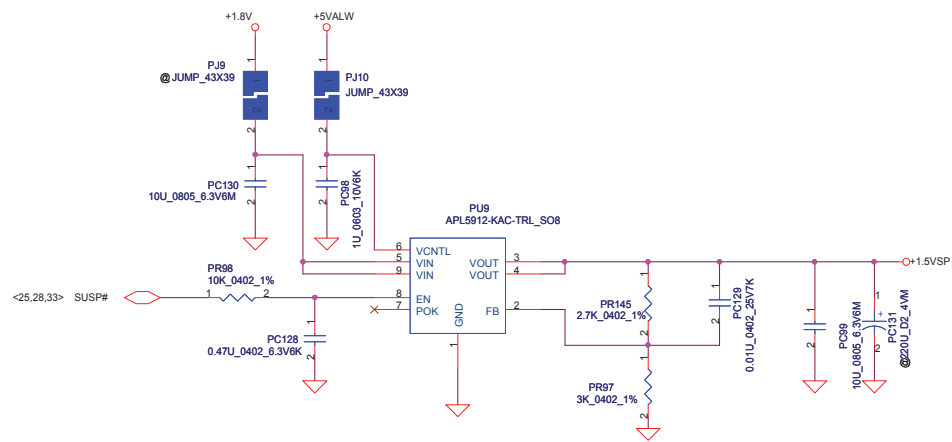
+3VALWP
 $I_{max}=5.5A$
 $I_{peak}=7.2A$
 $I_{ocp}(\text{minimum})=9A$

+5VALWP
 $I_{max}=4.3A$
 $I_{peak}=5.7A$
 $I_{ocp}(\text{minimum})=6.4A$

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				Date	Wednesday, April 22, 2009
				Sheet	32 of 39



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				Custom	LA-5091P	1.0
				Date:	Wednesday, April 22, 2009	Sheet 33 of 39



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				Custom	LA-5091P	1.0
				Date:	Wednesday, April 22, 2009	Sheet 34 of 39

Item	Date	Fixed Issue	Rev.	PG#	Modify List
1	2009/1/12	Circuit issue	0.2	13	Change JP24 pin definition
2	2009/1/12	System can't boot to S0	0.2	12	MCH_CLKREQ# connection move from U11.21 to U11.37
3	2009/1/12	Card reader remove crystal and use 48MHz from CLK generator	0.2	12 23	Pop R295, R137 change from 33 ohm to 22 ohm Pop R440, de-pop C511, C515, Y4
4	2009/1/12	WWAN function de-pop	0.2	19	De-pop C106, C196, C223, R75, R114, R115, JP56
5	2009/1/12	For S5 +3VS back drive issue	0.2	17	De-pop R284
6	2009/1/12	Material change	0.2	27	Change C233 and C363 to small package
7	2009/1/12	Codec can use 5V level for analog power	0.2	20	De-pop U20, C407 and pop R293
8	2009/1/12	LED circuit modify	0.2	22	1. JP62.11 as NC and JP62.3 connects to +5VALW. 2. Remove R294 and R576, and add serial resistors R314 and R315.
9	2009/1/13	Change material	0.2	21	Change Audio jack (JP60,JP61) to DC230005P00
10	2009/1/13	Change material	0.2	27	Change USB (JP16) connector to DC233004Q00
11	2009/1/13	Change material	0.2	26	Change SPI ROM (U28) to SA00000XT00
12	2009/1/14	Change material	0.2	14	Change Bead (L5,L19) to SM01003000L
13	2009/1/14	Swing is too big for SATA eye's diagram	0.2	16	Delete R12, and tied SATARBIASN & SATARBIASP together and connect to GND through a 24.9 ohm resistor
14	2009/1/15	For double place EMI solution	0.2	27	Delete R39,R40,R74,R88,L63,L65,D23,D25
15	2009/1/16	Board ID function	0.2	25	Pop R122, and change R127 to 8.2k
16	2009/1/17	Change pin out for LVDS connector	0.2	13	Swap INVT_PWM from JP24.3 to JP24.7
17	2009/1/17	Add control backlight function	0.2	13	Change Q80 to SB93457008L, pop Q80, C829, R1158, Q81,R1159, and de-pop L18
18	2009/1/17	Current leakage	0.2	28	De-pop R298, pop R297
19	2009/1/19	RGB EA fail	0.2	14	Change L1,L3,L4 to SM01000AO0L
20	2009/1/19	Change material	0.2	24	Change JP71 to DC230901190
21	2009/1/20	add EMI solution	0.2	27	Add R39,R40,R74,R88,@D23,@D25,@L63,@L65
22	2009/1/20	For layout require	0.2	13	change R1006,R1007 to 0402 size
23	2009/1/20	For circuit design	0.2	13	change R1159 to 0402 size
24	2009/1/21	LAN LED reversed	0.2	24	Update JP71 symbol

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				Size	Document Number
				Custom	LA-5091P
Date: Wednesday, April 22, 2009				Sheet	37 of 39

Version change list (P.I.R. List)

Page 1 of 1

Item	Date	Fixed Issue	Rev.	PG#	Modify List
25	2009/1/21	Without beep when unplug RAM	0.2	20	Add C217,R1160,R1161,C213,C833
26	2009/1/21	Speaker pin out reversed	0.2	21	Modify JP55 pin definition
27	2009/1/21	Update SATA symbol	0.2	22	Modify JP48 pin name
28	2009/1/21	Remove WWAN signals	0.2	27	Change JP72 to 10 pin connector
29	2009/2/2	De-pop material	0.2	28	De-pop R302 and Q28
30	2009/2/6	Choose 48M function	0.2	23	Pop R299
31	2009/2/6	card reader INF installation issue	0.2	23	De-pop R436
32	2009/2/10	Fine tune LPC_FRAME# overshoot	0.3	16	Add R900
33	2009/2/18	Move cap to USB board	0.3	27	De-pop C233
34	2009/2/20	Solve "Zi Zi" noise	0.3	20	De-pop R1160,R1161 and remove C217
35	2009/2/20	Reserve for ESD	0.3	26	Add C900,D50 but de-pop
36	2009/2/27	Change CPU form N270 to N280	0.3	4,5,12	Change CPU P/N to N280 and de-pop R82 and pop R81 for FSB frequency to 667MHz
37	2009/2/27	To meet crystal requirement	0.3	25	Change C160 and C161 from 15pF to 27pF
38	2009/3/3	Modify board ID	1.0	25	Change R127 form 8.2k to 18k
39	2009/3/3	remove on board power switch	1.0	26	de-pop SW2
40	2009/3/4	WWAN concern	1.0	12	Add C903,C904,C905 and change C181,C198 from 0.1uF to 47pF
41	2009/3/10	USB modem issue	1.0	23	Reserve USB port 2 to WLAN and reserve USB port 6 to Card reader and add R1162,R1163,R1164,R1165,R1166,R1167,R1168,R1169
42	2009/3/10	For derating concern	1.0	19	Delete R75 and add J3
43	2009/3/11	Modify H4 and H23	1.0	29	Change H4 from H_3P0X4P0 to H_2P8X3P8 and H23 from H_3P0 to H_2P8.
44	2009/3/11	For beep noise	1.0	20	Add D1 and R1170
45	2009/3/31	change X1 part	1.0	10,25	Change C260,C276,C281,C330 to SE107475M0L, change C831 to SE071101J80

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				LA-5091P	Rev 1.0
Date: Wednesday, April 22, 2009				Sheet	38 of 39

Version change list (P.I.R. List)

Page 1 of 1 for PWR

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1	RTC Battery Pin define	RTC Battery can not work	0.1		JP79 connection pin1 exchange pin2	1/13	B
2		Battery connect placement from TOP to Bottom	0.1		JABTT1 footprint change to SUYIN_200070MR007G101ZR_7P-T	1/13	B
3		COST	0.1		PQ5,PQ6,PQ11,PQ12 P/N change from SB00000AU00 to SB00000IA00 PQ16,PQ18 P/N change from SB00000920L to SB00000CG00 PQ17,PQ19 P/N change from SB000004T8L to SB00000AJ00	1/14	B
4		Modify load line setting	0.1		PR116 change from 11.68K to 7.68K PR128 change from 1.82K to 1.37K	1/14	B
5		Modify charger current setting	0.1		PR36 change from 174K to 107K	1/14	B
6		COST	0.1		PU5 P/N change from SA00002D200 to SA00002V40L PU2 P/N change from SA009200010 to SA00002E200 PC24 P/N change from SE071471J80 to SE074471K80	1/17	B
7		For EMI	0.1		Add PC139 2200PF	1/17	B
8		Battery cell setting	0.1		Add PR156 0 Unpop PR32 0	1/17	B
9		Modify P/N for unify	0.2		PR81, PR92 P/N change from SD02800008L to SD028000080 PR142, PR154 P/N change from SD03410018L to SD034100180 PR138 P/N change from SD034215280 to SD03421528L PR133, PR134 P/N change from SD034470280 to SD03447028L PC105, PC113 P/N change from SE000000K80 to SE000000K8L PC82, PC85 P/N change from SE042104K8L to SE042104K80 PC11 P/N change from SE053106Z80 to SE053106Z8L PC87, PC97 P/N change from SE080105K8L to SE080105K80	2/18	C
10		Change P/N for Lead Free	0.3		PR128 P/N change from SD034137100 to SD03413718L PR3 P/N change from SD027825200 to SD027825280	3/18	X build
11		Change drive IC voltage input resister for suqence	0.3		PR84 change from 0 to 300 PR85 change from 0 to 300	3/18	X build
12		Change P/N for approve	0.3		PU5 P/N change from SA00002V40L to SA00002V400	3/19	X build
13		Protect Charger IC burn out for Adapter Inrush Current	0.3		Add NonPop PD9 SC4LZ24B0T1 S ZEN DIO RLZ24B (LL-34) Add PR150 SD00200008L S RES 1/8W 0 +5% 0805	3/27	X build
14	Enter windows hang	Reduce CPU Switch phase ring for High speed trace	0.3		Pop PR115 S RES 1/4W 4.7 +-5% 1206 Pop PC109 S CER CAP 680P 50V J NPO 0603	4/17	X build

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				Size	Document Number	Rev
				Custom	LA-5091P	1.0
				Date:	Wednesday, April 22, 2009	Sheet 39 of 39