

Compal confidential

JBK00 LA-4092P Schematics Document

Mobile AMD S1G2 CPU with ATI
RX781 & SB700 core logic with M82-S

2008-02-20

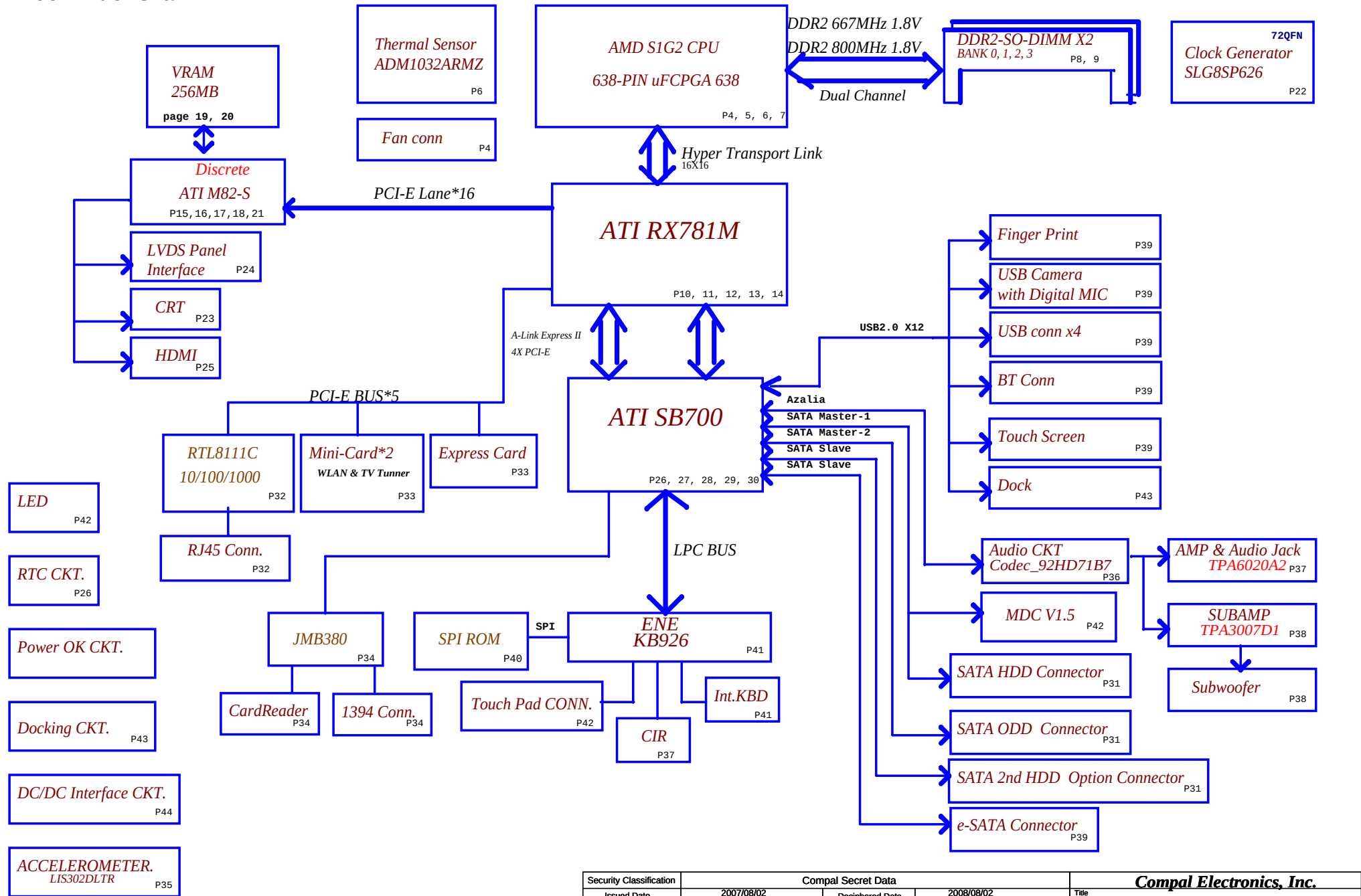
REV:0.4



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Consumer AMD UMA/DISCRETE 17"



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Voltage Rails

power plane	State				
		+B +3VL +5VL	+5VALW +3VALW +1.2VALW +3V_LAN	+1.8V +0.9V	+5VS +3VS +2.5VS +1.8VS +1.5VS +1.1VS +VGA_CORE +1.2V_HT +CPU_CORE_NB +CPU_CORE_0 +CPU_CORE_1
S0	0	0	0	0	0
S1	0	0	0	0	0
S3	0	0	0	0	X
S5 S4/AC	0	0	X	X	X
S5 S4/ Battery only	0	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X

0 MEANS ON X MEANS OFF

I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
DDR SO-DIMM 0	A0	1 0 1 0 0 0 0 0
DDR SO-DIMM 1	A4	1 0 1 0 0 1 0 0
CLOCK GENERATOR (EXT.)	D2	1 1 0 1 0 0 1 0
ACCELEROMETER	3A	0 0 1 1 1 0 1 0

EC SM Bus1 address

EC SM Bus2 address

Device	HEX	Address	Device	HEX	Address
Smart Battery	16H	0001 011X b	ADI1032-2 CPU	9AH	1001 101X b
24C16	A0H	1010 000X b	ADI1032-1 VGA	98H	1001 100X b
CPU SIC interface	98H	1001 100X b			

Symbol Note :



: means Digital Ground



: means Analog Ground

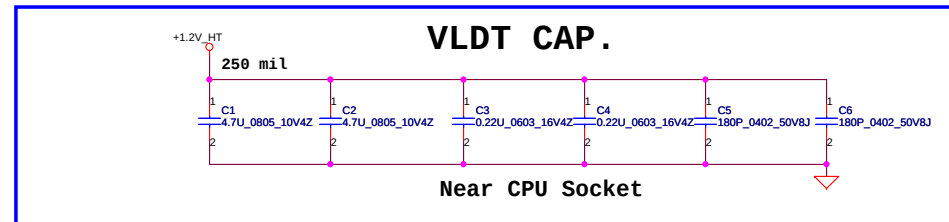
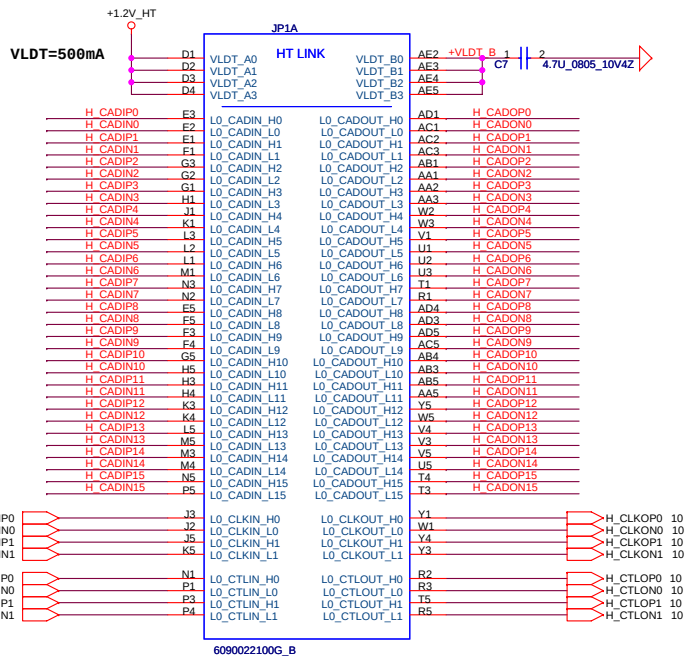
@ : means just reserve , no build
DEBUG@ : means just reserve for debug.

Layout Notes

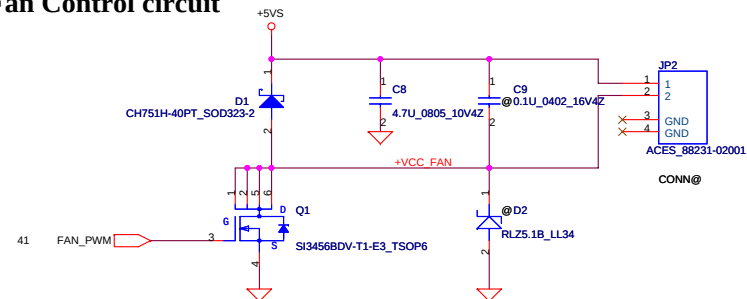
SMBUS Control Table

	SOURCE	INVERTER	BATT	SERIAL EEPROM	THERMAL SENSOR CPU & ADM1032	SODIMM I / II	CLK CHIP	MINI CARD Slot 2	LCD	HDMI	G-Sensor
SMB_EC_CK1 SMB_EC_DA1	KB926	X	V	V	X	X	X	X	X	X	X
SMB_EC_CK2 SMB_EC_DA2	KB926	X	X	X	V	X	X	X	X	X	X
I2C_CLK I2C_DATA	RS780M	X	X	X	X	X	X	X	V	X	X
DDC_CLK0 DDC_DATA0	RS780M	X	X	X	X	X	X	X	X	V	X
DDC_CLK1 DDC_DATA1	RS780M	X	X	X	X	X	X	X	X	X	X
SCL0 SDA0	SB700	X	X	X	X	V	V	X	X	X	V
SCL1 SDA1	SB700	X	X	X	X	X	X	V	X	X	X
SCL2 SDA2	SB700	X	X	X	X	X	X	X	X	X	X
SCL3 SDA3	SB700	X	X	X	X	X	X	X	X	X	X

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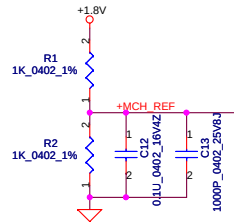


PWM Fan Control circuit

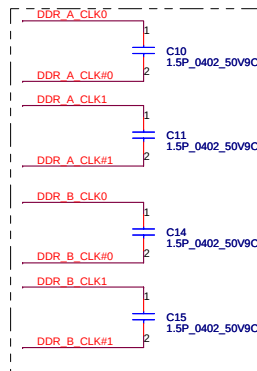


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Processor DDR2 Memory Interface



PLACE CLOSE TO PROCESSOR
WITHIN 1.5 INCH



9 DDR_B_D[63..0]

JP1C

MEM:DATA

DDR_A_D[63..0] 8

Place them close to CPU within 1"



9 DDR_B_DM[7..0]

DDR_B_MA[15..0] 9

9 DDR_B_DQS0
9 DDR_B_DQS1
9 DDR_B_DQS2
9 DDR_B_DQS3
9 DDR_B_DQS4
9 DDR_B_DQS5
9 DDR_B_DQS6
9 DDR_B_DQS7

DDR_B_DQS0
DDR_B_DQS1
DDR_B_DQS2
DDR_B_DQS3
DDR_B_DQS4
DDR_B_DQS5
DDR_B_DQS6
DDR_B_DQS7

MB_DQS0
MB_DQS1
MB_DQS2
MB_DQS3
MB_DQS4
MB_DQS5
MB_DQS6
MB_DQS7

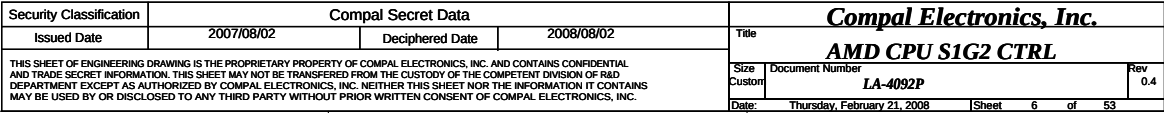
MA_DQS0
MA_DQS1
MA_DQS2
MA_DQS3
MA_DQS4
MA_DQS5
MA_DQS6
MA_DQS7

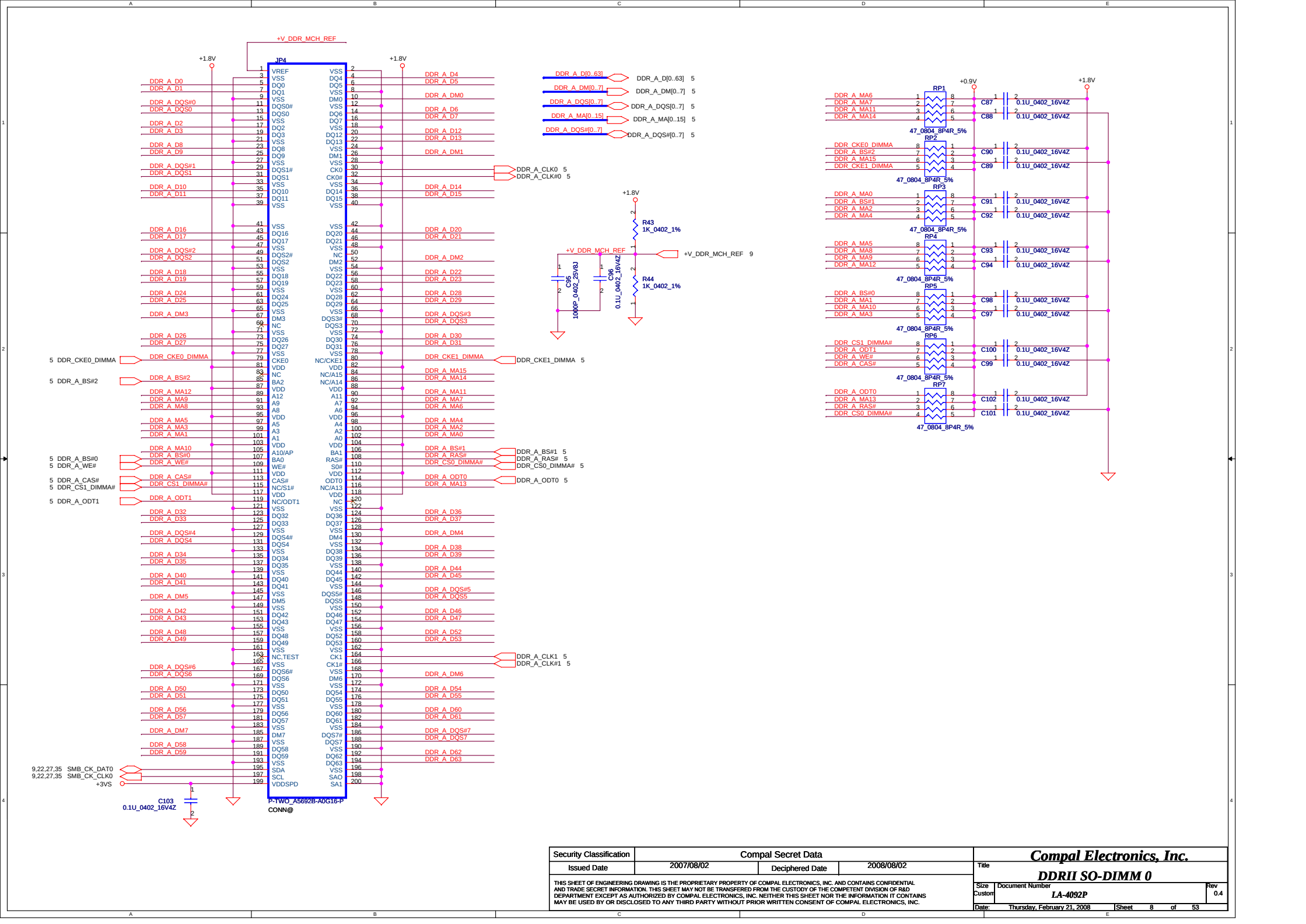
DDR_A_DQS0
DDR_A_DQS1
DDR_A_DQS2
DDR_A_DQS3
DDR_A_DQS4
DDR_A_DQS5
DDR_A_DQS6
DDR_A_DQS7

DDR_A_DQS0
DDR_A_DQS1
DDR_A_DQS2
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DDR_A_DQS5
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DDR_A_DQS7

6090022100G_B

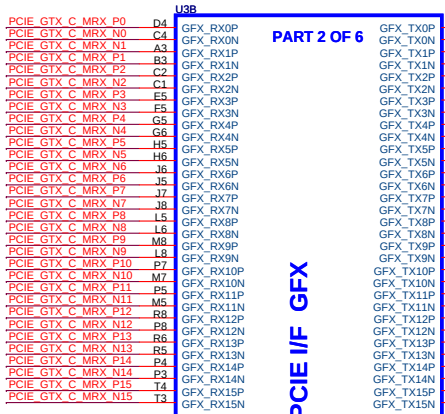
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Issued Date				Deciphered Date				7			
2007/08/02				2008/08/02				AMD CPU S1G2 DDRII I/F			
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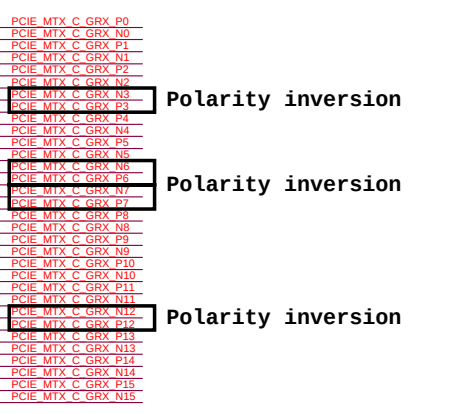
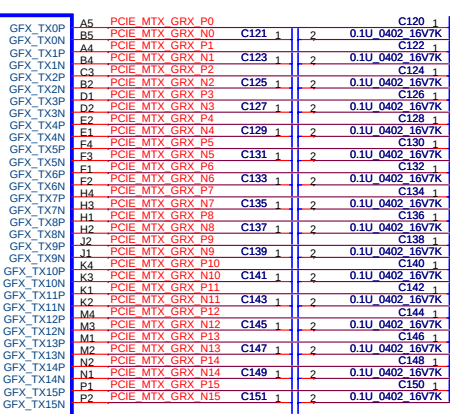
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15 PCIE_GTX_C_MRX_N0[0..15] PCIE GTX_C_MRX_N0[0..15]

PCIE_MTX_C_GRX_P0[0..15] PCIE_MTX_C_GRX_P0[0..15] 15
PCIE_MTX_C_GRX_N0[0..15] PCIE_MTX_C_GRX_N0[0..15] 15



PART 2 OF 6

PCIE I/F GFX

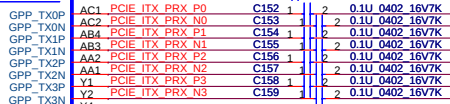
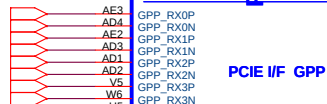


Polarity inversion

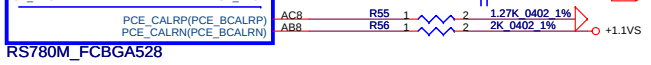
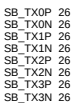
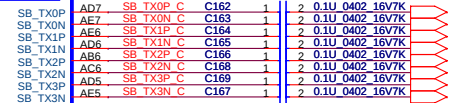
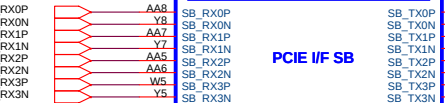
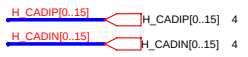
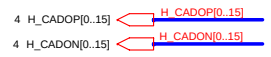
Polarity inversion

Polarity inversion

33 PCIE_PTX_C_IRX_P0
33 PCIE_PTX_C_IRX_N0
33 PCIE_PTX_C_IRX_P1
33 PCIE_PTX_C_IRX_N1
33 PCIE_PTX_C_IRX_P2
33 PCIE_PTX_C_IRX_N2
32 PCIE_PTX_C_IRX_P3
32 PCIE_PTX_C_IRX_N3



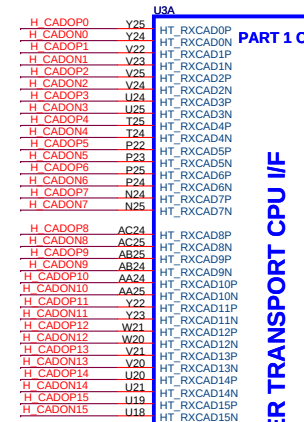
New Card
Cardreader
WLAN
GLAN
TV Tuner



RS780M_FCBGA528

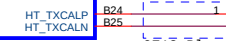
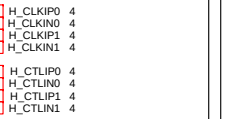
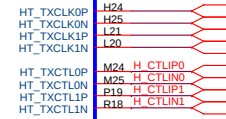
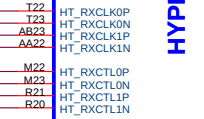
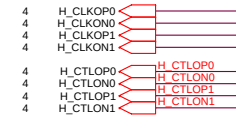
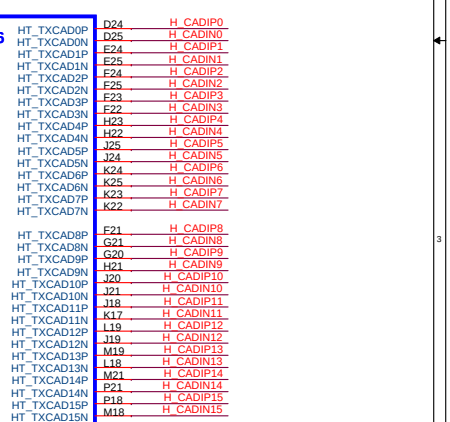
RS780M Display Port Support (muxed on GFX)

DP0	GFX_TX0,TX1,TX2 and TX3 AUX0 and HPD0
DP1	GFX_TX4,TX5,TX6 and TX7 AUX1 and HPD1



PART 1 OF 6

HYPER TRANSPORT CPU I/F

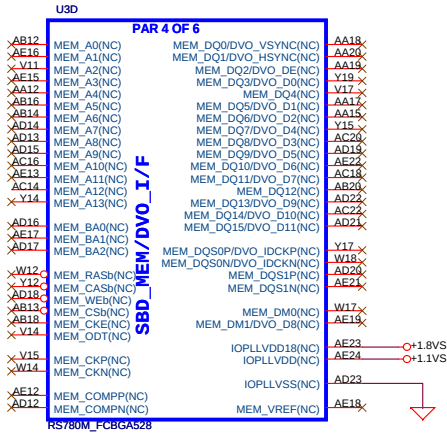


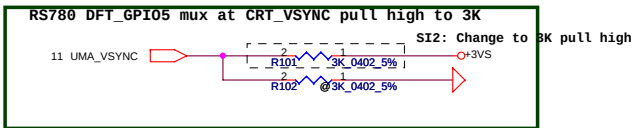
0718 Place within 1" layout 1:2

0718 Place within 1" layout 1:2

NEED CHECK R68 & R69 WITH AMD

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DFT_GPI05:STRAP_DEBUG_BUS_GPIO_ENABLED

Enables the Test Debug Bus using GPIO.

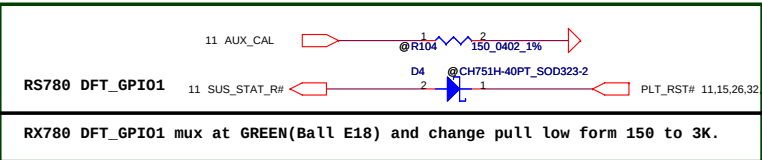
1 : Enable (RX780, RS780)
0 : Disable (RX780, RS780)
PIN: RS740-->RS780_AUX_CAL; RX780-->NB_TV_C; RS780--> VSYNC#

RS780 use register to control PCI-E configure

DFT_GPIO[4:2]: STRAP_PCIE_GPP_CFG[2:0]

These pin straps are used to configure PCI-E GPP mode.

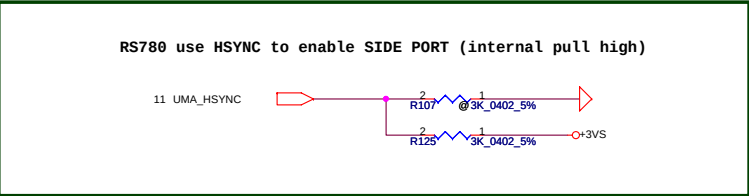
000 : 00001
001 : 00010
010 : 01011
011 : 00100
100 : 01010
101 : 01100
111 : 01011



DFT_GPIO1: LOAD_EEPROM_STRAPS

Selects Loading of STRAPS from EPROM

1 : Bypass the loading of EEPROM straps and use Hardware Default Values
0 : I2C Master can load strap values from EEPROM if connected, or use default values if not connected
RS740/RX780: DFT_GPI01 RS780:SUS_STAT



DFT_GPIO0: STRAP_DEBUG_BUS_PCIE_ENABLED

RX780: Enables the Test Debug Bus using PCIE bus

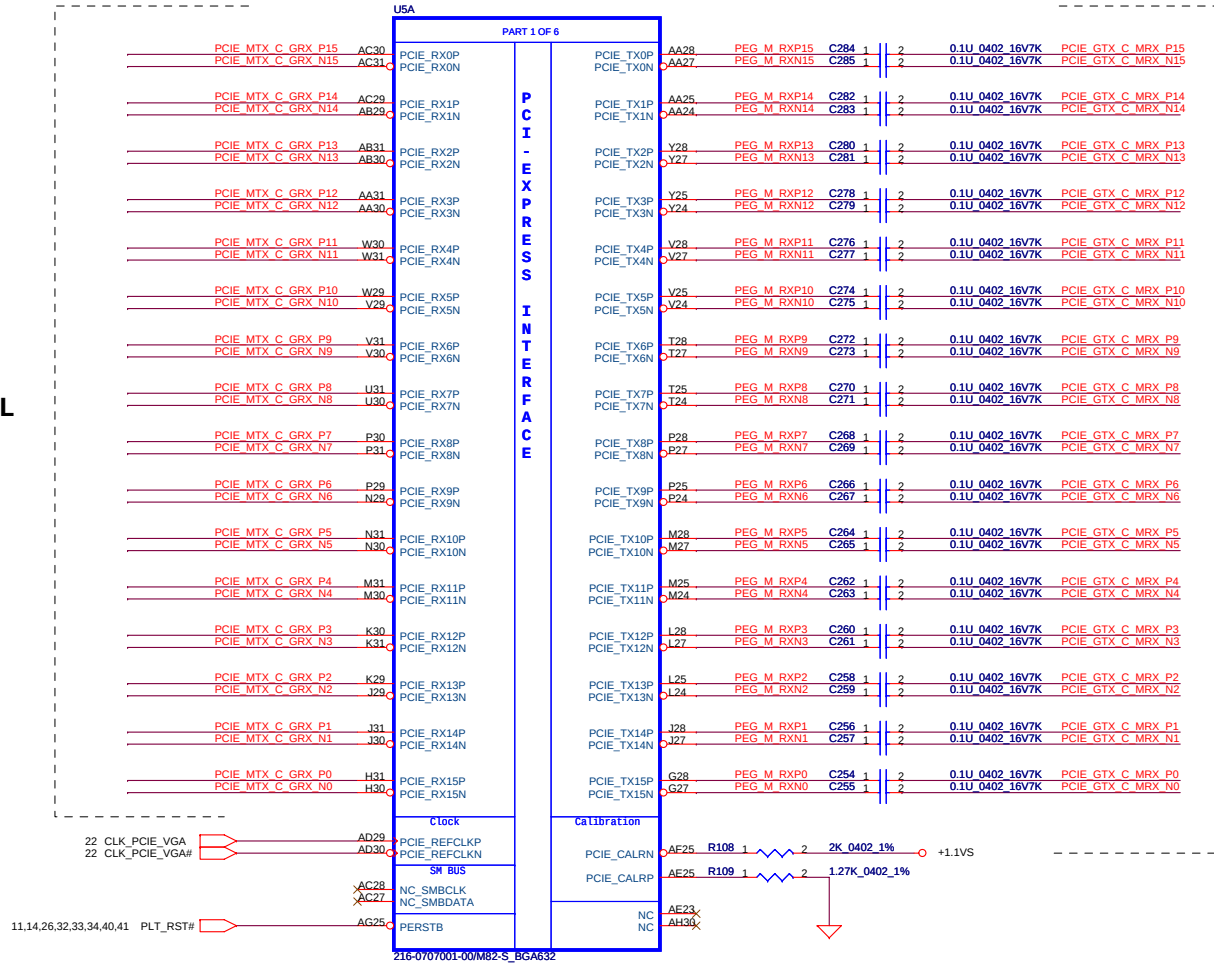
1 : Disable (Can still be enabled using nbcfg register access)
0 : Enable

RS780: Enables Side port memory (RS780 use HSYNC#)

1. Disable (RS780)
0 : Enable (RS780)

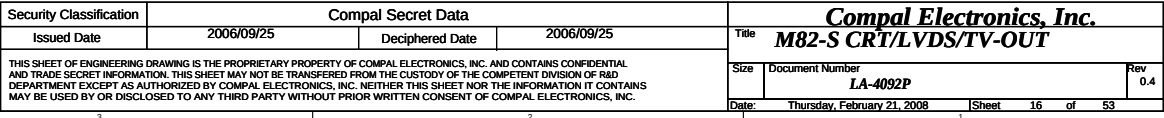
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10 PCIE_GTX_C_MRX_N[0..15] < PCIE GTX C MRX N[0..15]
10 PCIE_MTX_C_GRX_P[0..15] < PCIE MTX C GRX P[0..15]
10 PCIE_MTX_C_GRX_N[0..15] < PCIE MTX C GRX N[0..15]

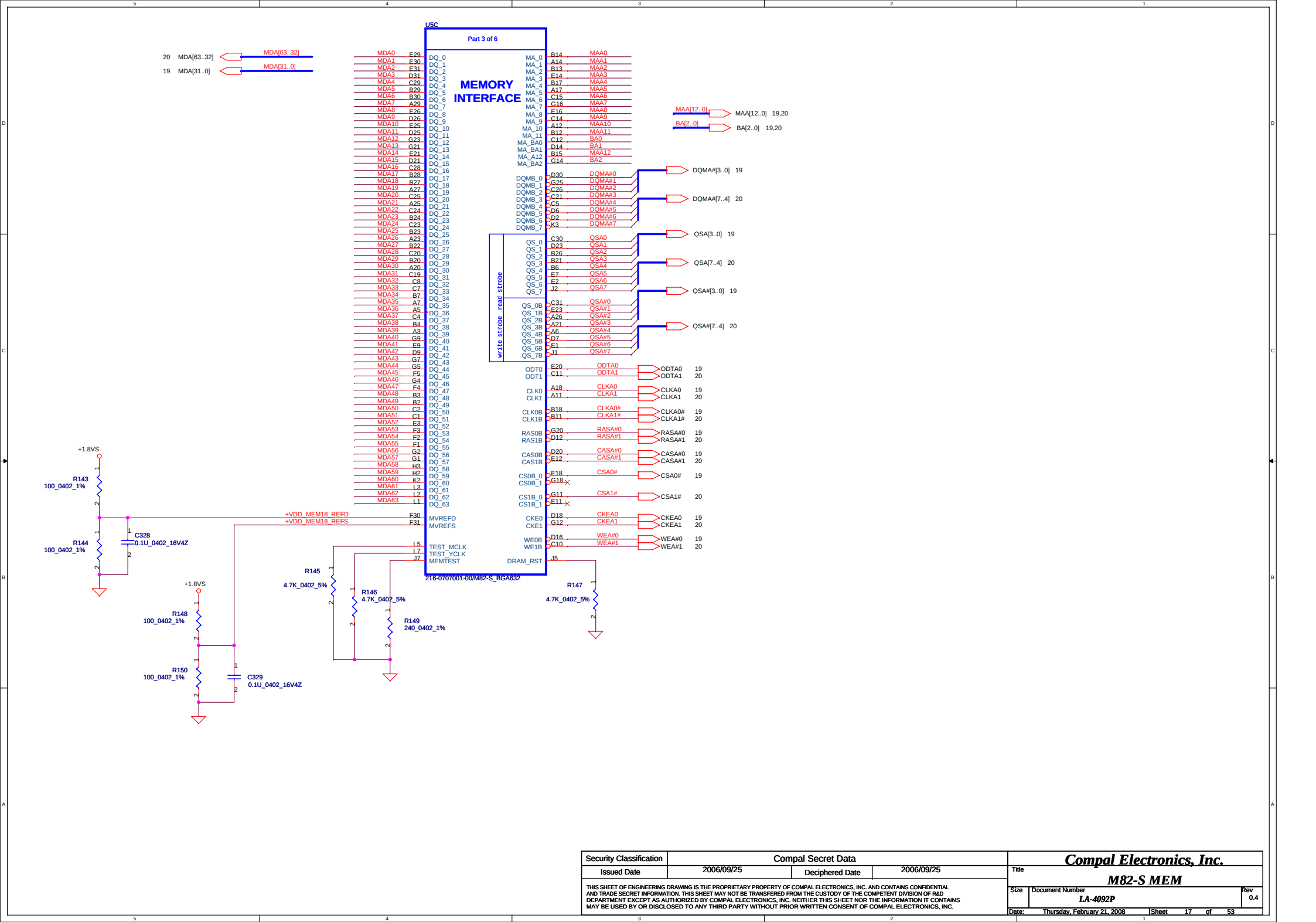
PCIE LANE REVERSAL

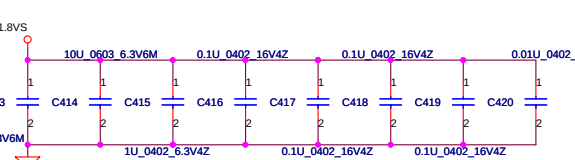
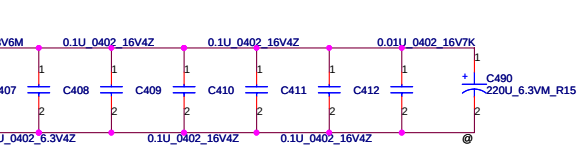
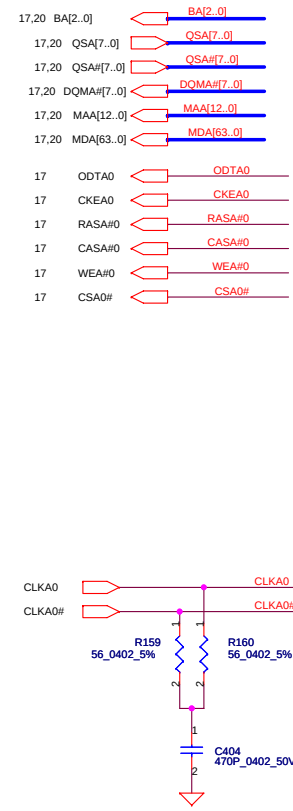
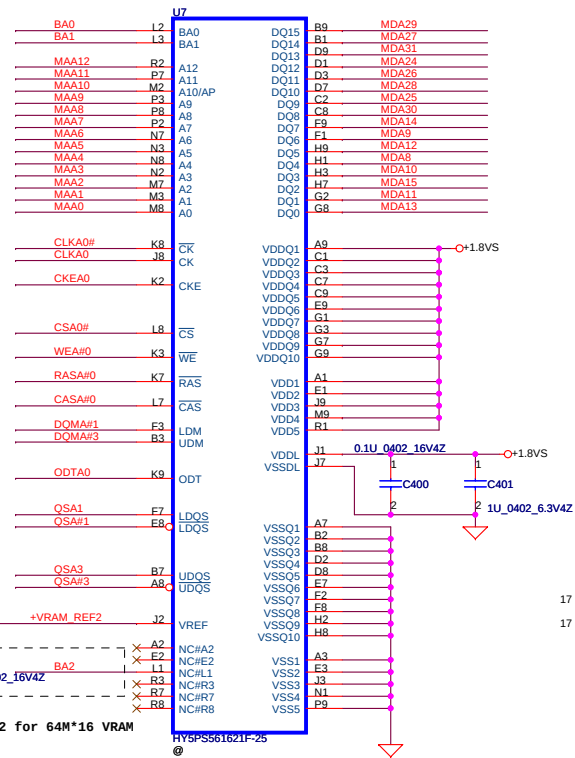
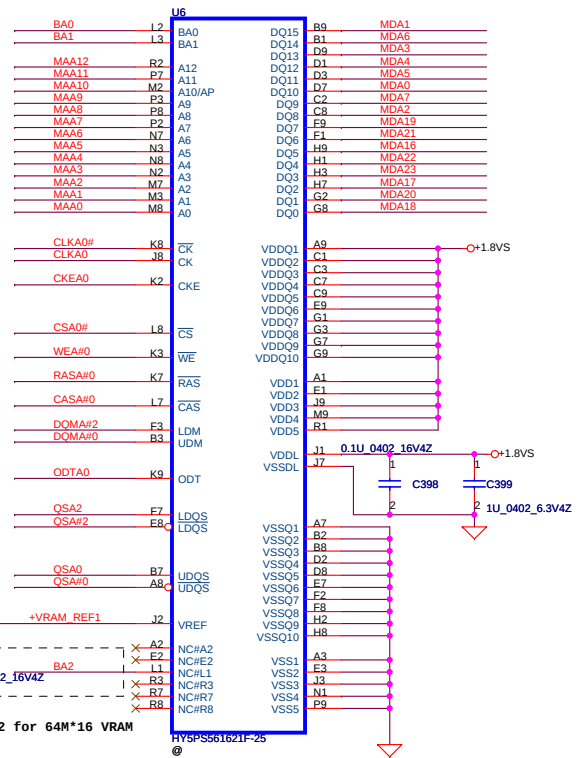


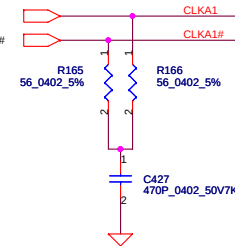
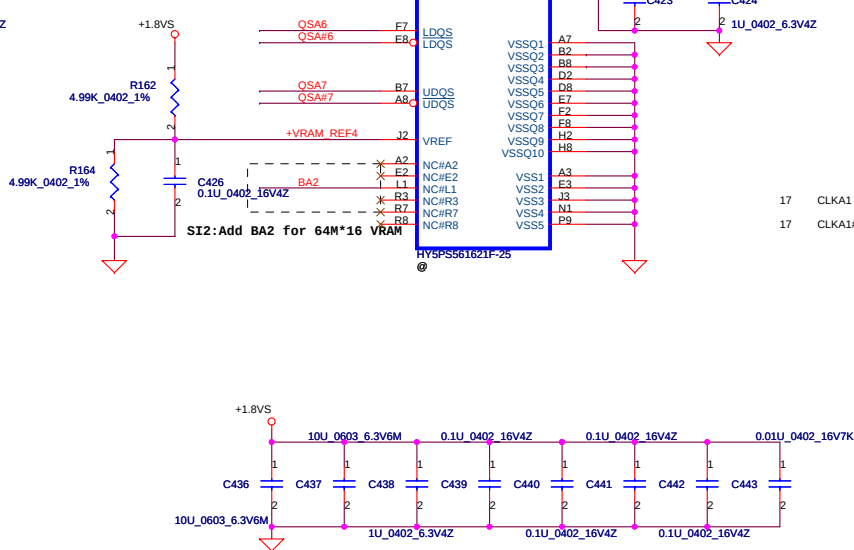
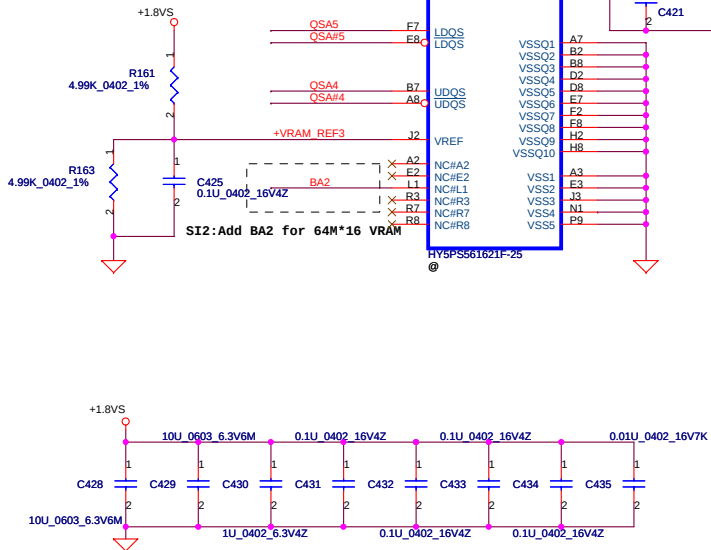
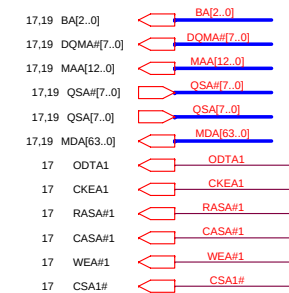
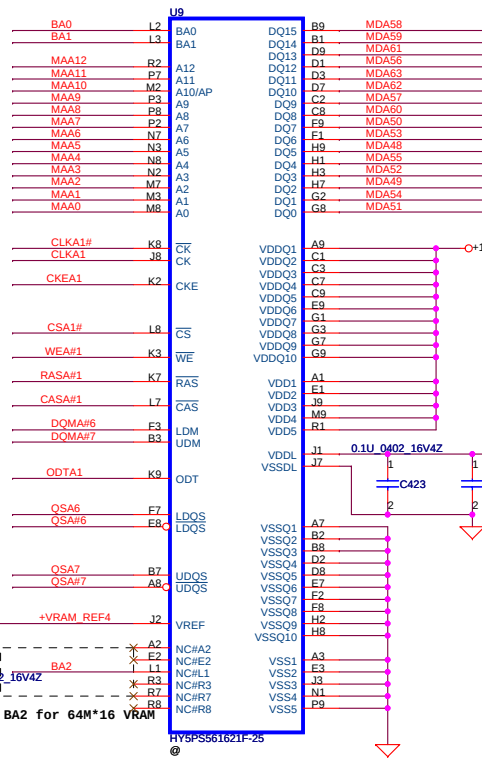
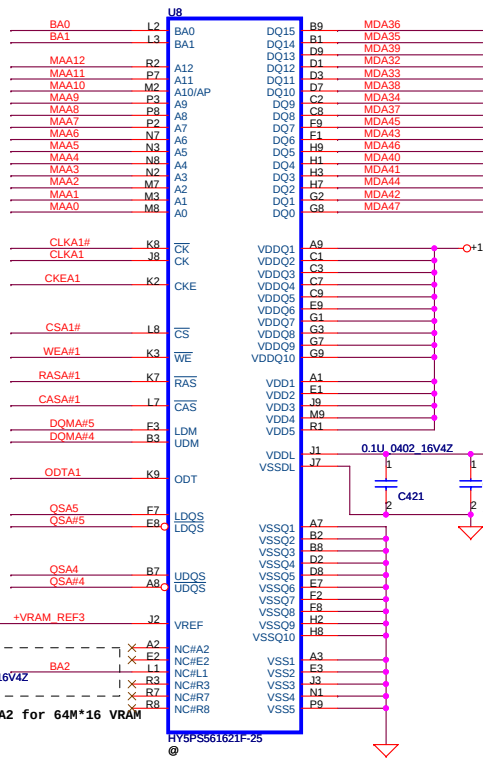
PCIE LANE REVERSAL

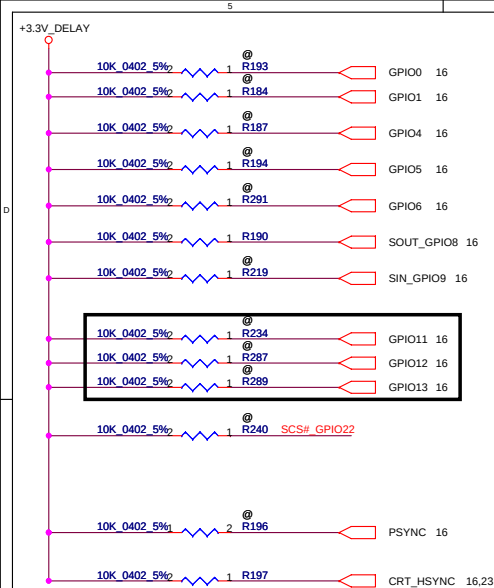
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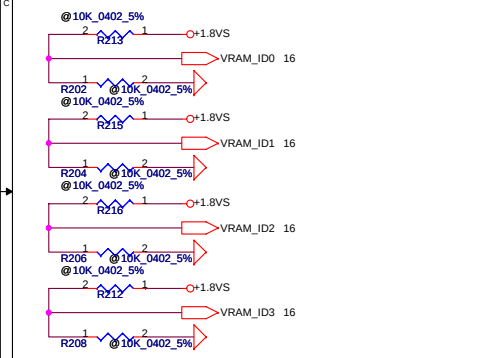






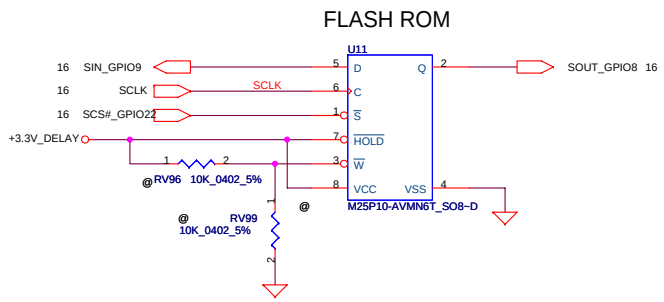
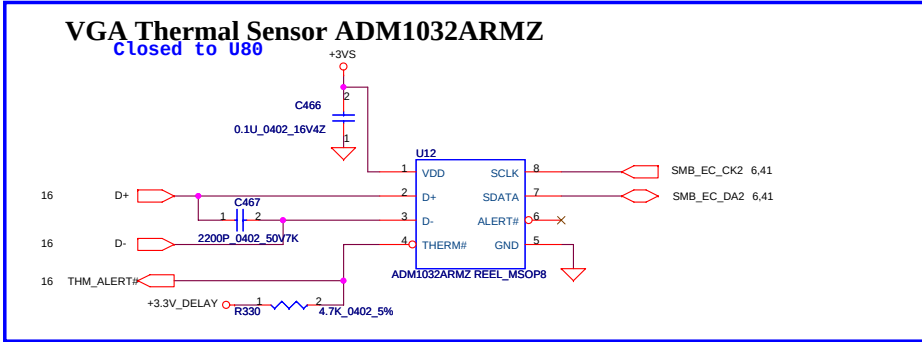


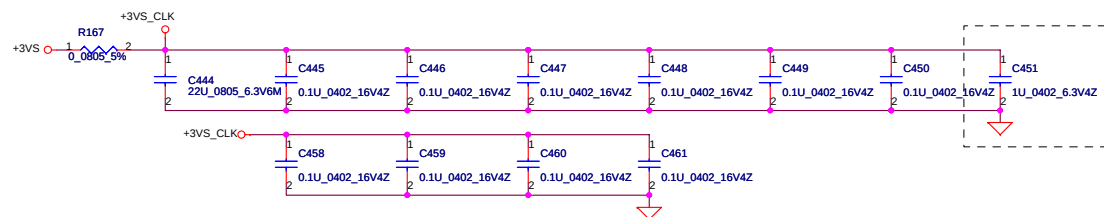
GPIO9 = 0 (BIOS_ROM_EN = 0)		
GPIO[13:11]	MEMORY SIZE	
0 0 0	128MB	
0 0 1	256MB	
0 1 0	64MB	
1 0 0	512MB	



STRAPS	PIN	DESCRIPTION OF RECOMMENDED SETTING	RECOMMENDED M8X
TX_PWRS_ENB	GPIO0	PCIE FULL TX OUTPUT SWING	0
TX_DEEMPH_EN	GPIO1	PCIE TRANSMITTER DE-EMPHASIS ENABLES	0
BIF_DEBUG_ACCESS	GPIO4	DEBUG SIGNALS MUXED OUT	0
BIF_GEN2_EN_A	GPIO5	PCI-E 5.0GT/s or 2.5 GT/s select	0
DEBUG_I2C_ENABLE	GPIO6	Internal use only	0
BIF_AUDIO_EN	GPIO8	ENABLE HD AUDIO(M8X)	1
ROMIDCFG[3:0]	GPIO [9,13,12,11]	SERIAL ROM TYPE OR MEMORY APERTURE SIZE SELECT	0 1 0 1
BIOS_ROM_EN	GPIO_22_ROMCSB	DISABLE EXTERNAL BIOS ROM	0
BIF_VGA_DIS	PSYNC	VGA ENABLED===0 is enable	0
BIF_HDMI_EN	HSYNC	HDMI ENABLE	1
VRAM_ID[3:0]	DVDPDATA (23,22,21,20)		VRAM_ID 3,2,1,0
		Samsung 64Mx16 1.8V	0 0 0 0
		Samsung 32Mx16 1.8V	0 0 0 1
		Hynix 64Mx16 1.8V	0 0 1 0
		Hynix 32Mx16 1.8V	0 0 1 1
		Qimonda 32Mx16 1.8V	0 1 0 0
		Qimonda 64Mx16 1.8V	0 1 0 1

ATI RESERVED CONFIGURATION STRAPS			
ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESE			
GPIO2	GPIO3	GPIO5	GPIO6
DVALID	H2SYNC	V2SYNC	
PULLUP PADS ARE NOT REQUIRED FOR THESE STRAPS BUT IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET			
GENERICC	GPIO21_BB_EN	GPIO_28_TDO	





	OSC_14M_NB
RS780	1.1V 158R/90.0

SEL_SATA	1	configure as SATA output
	0 *	configure as normal SRC(SRC_6) output

27M_SEL	1 *	configure as 27M and 27M_SS output
	0	configure as SRC_7 output

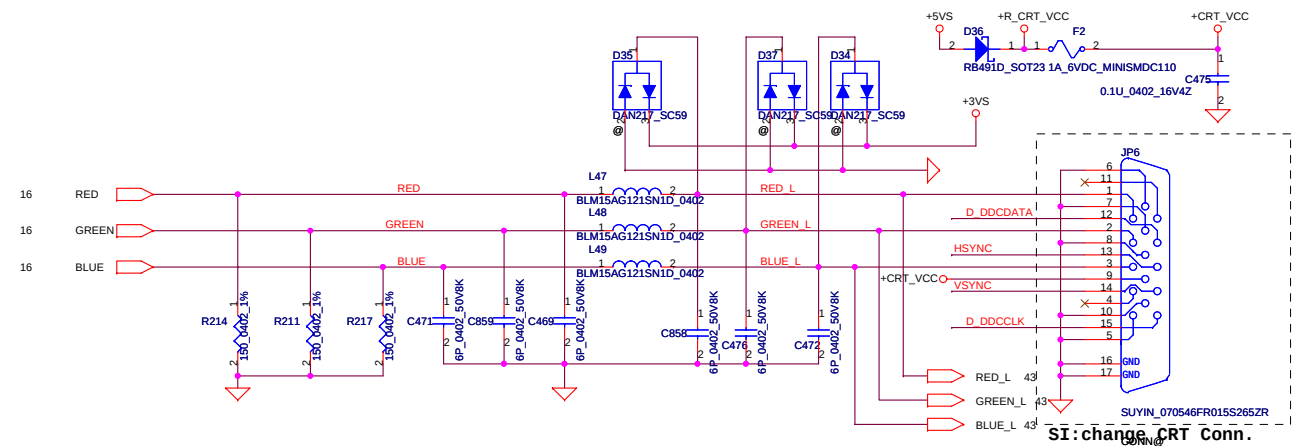
* default

Use voltage divider resistor R379 & R380 to pull low

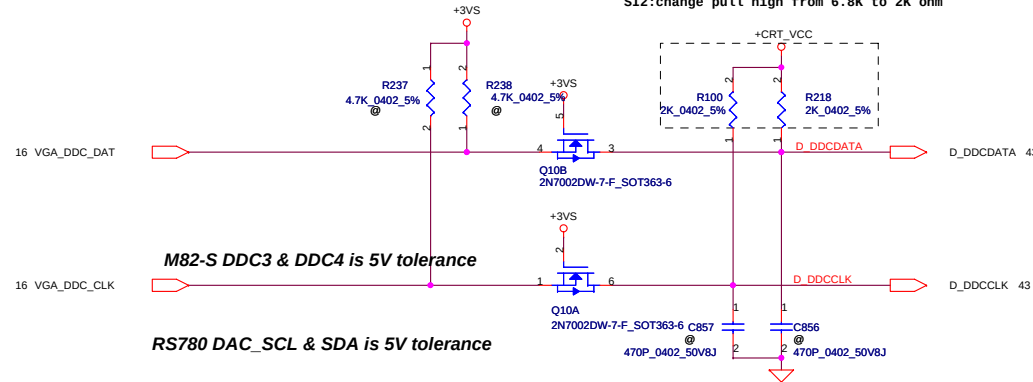
NB_OSC_14.318M	1	configure as single-ended 66MHz output
	0*	configure as differential 100MHz output

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				Custom	0
				Document Number	
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CRT CONNECTOR

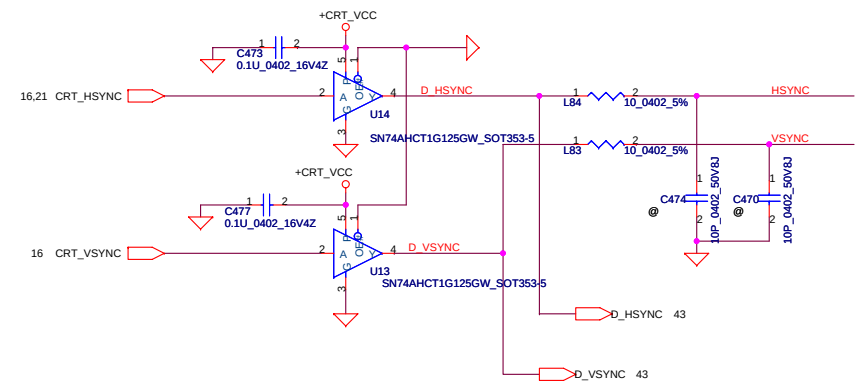


SI2:change pull high from 6.8K to 2K ohm

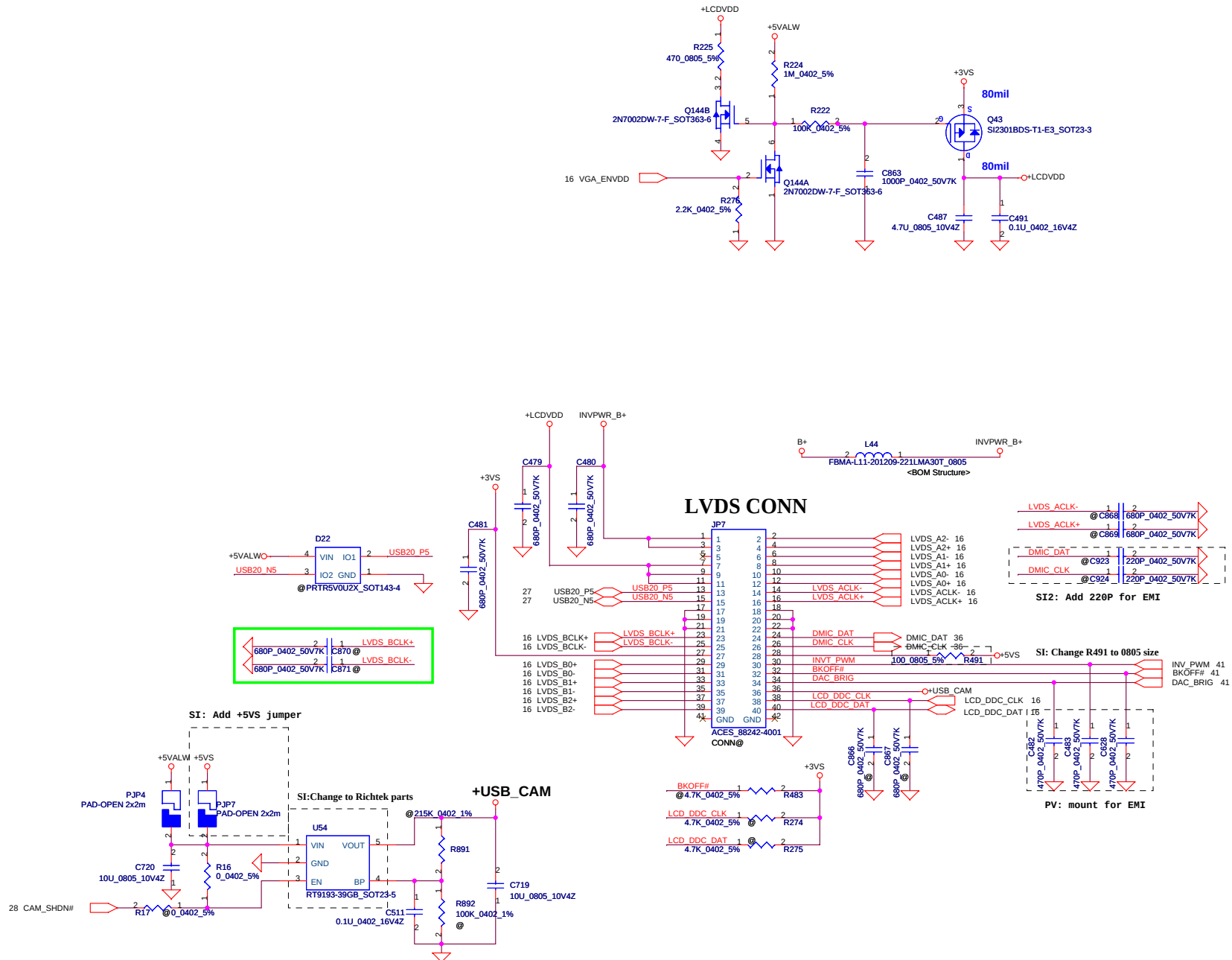


M82-S DDC3 & DDC4 is 5V tolerance

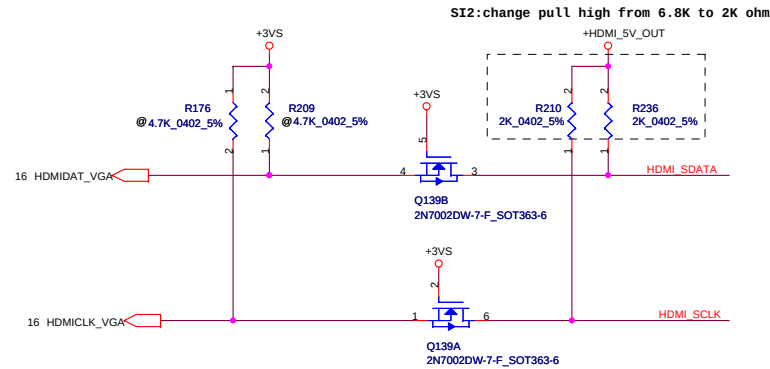
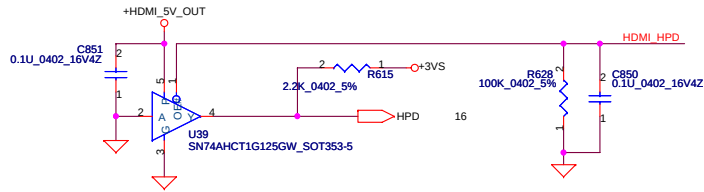
RS780 DAC_SCL & SDA is 5V tolerance



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				Date: Thursday, February 21, 2008	Rev 0.4
				Sheet 23	of 53

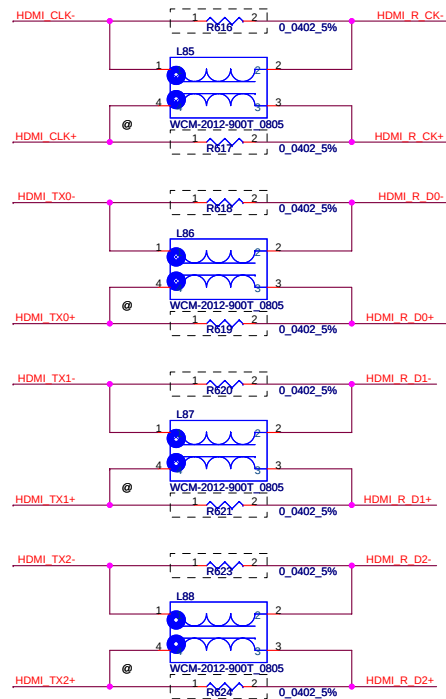


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				Rev	0.4
				LCD CONN.	

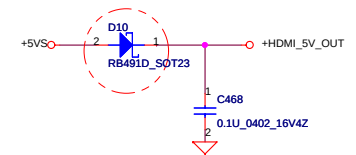


C:Chg. PN to SB770020010.

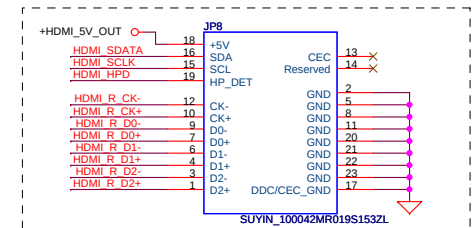
SI:Add R6161-R624 for EMI request



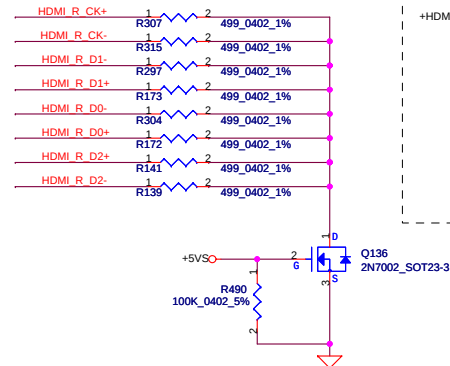
MP:Update D10 to meet HDMI.



HDMI Connector

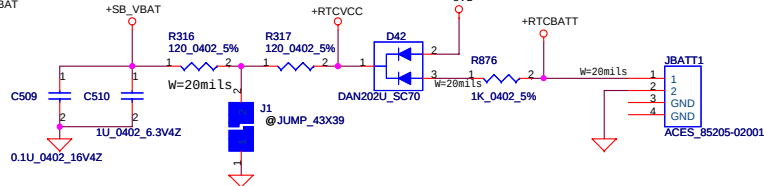
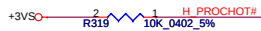
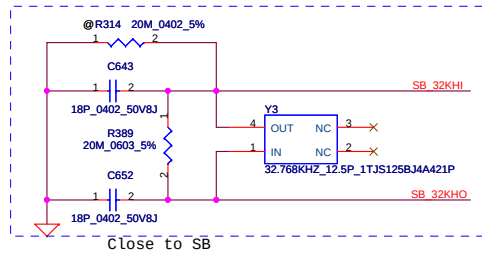
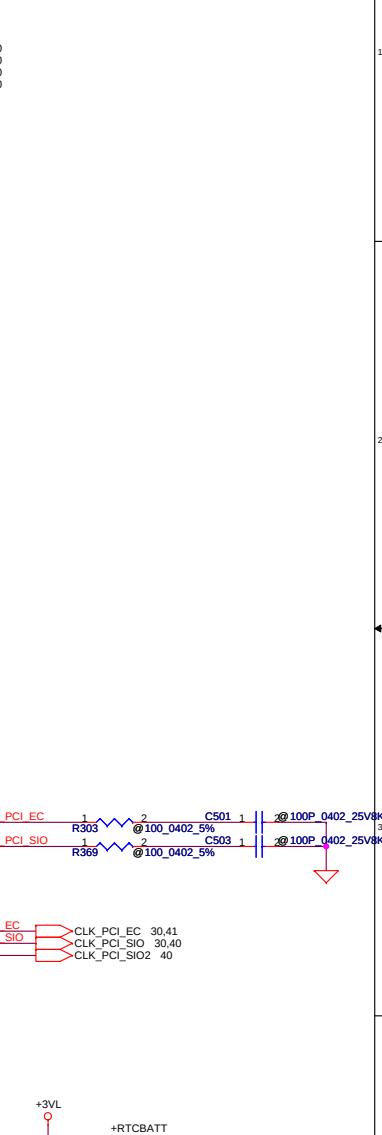
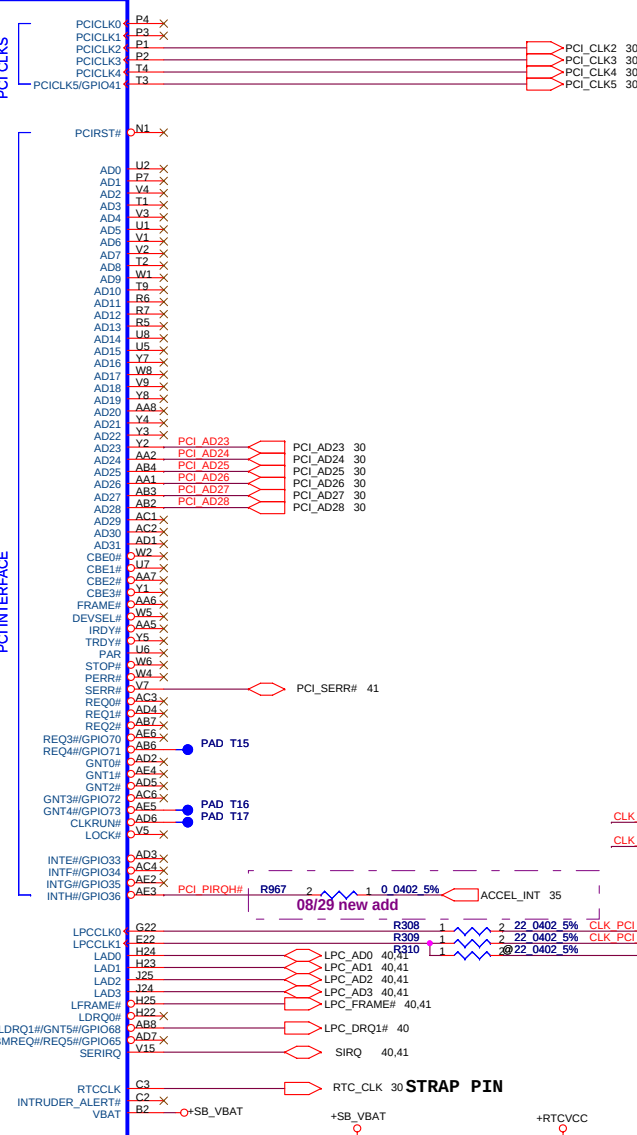
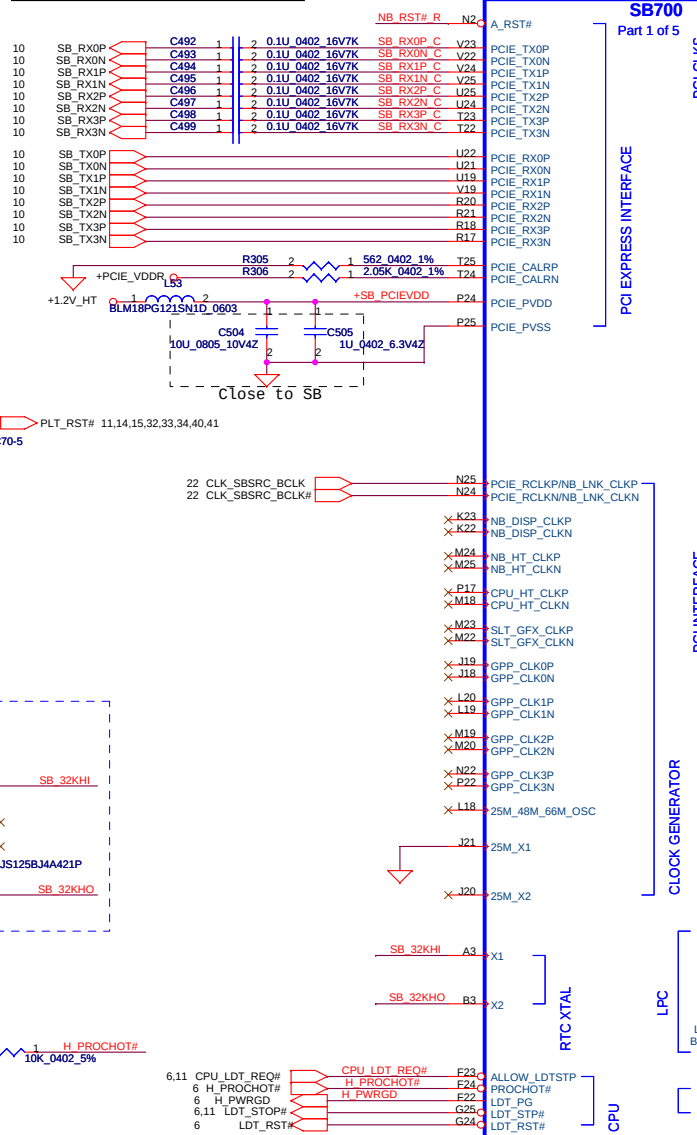
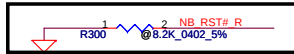


SI:Update HDMI footprint

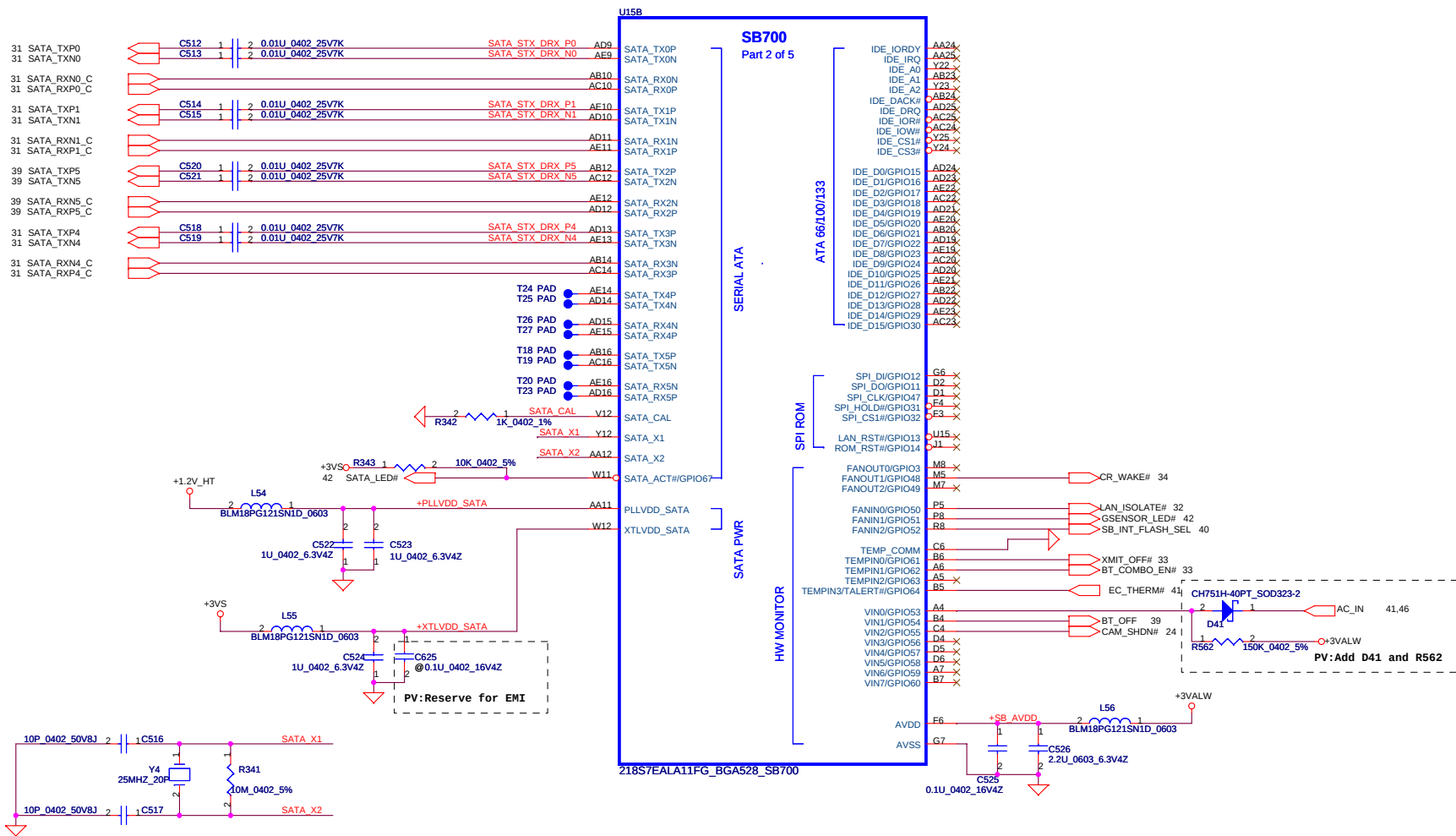


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Check AMD need pull low or not



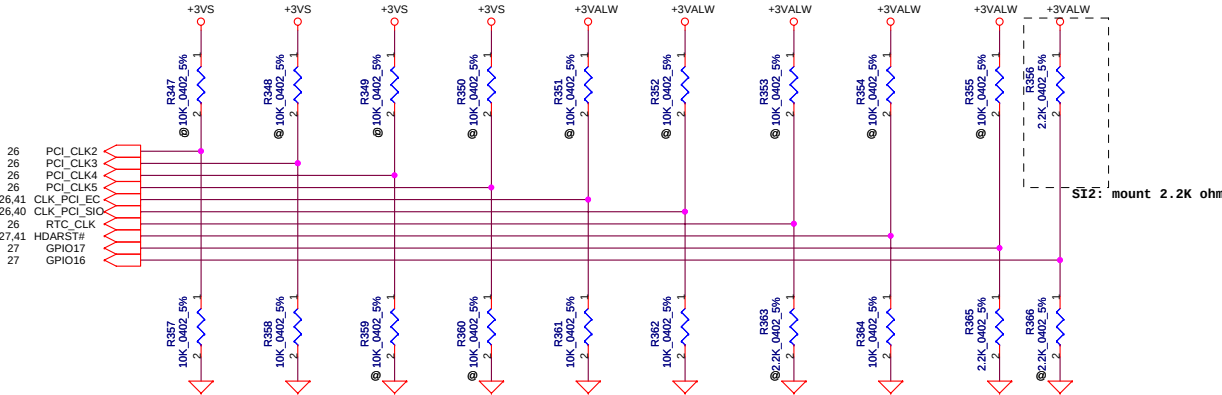
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Issued Date				Deciphered Date				Size			
2007/08/02				2008/08/02				Custom			
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				LA-4092P				0.4			
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				53							



REQUIRED STRAPS

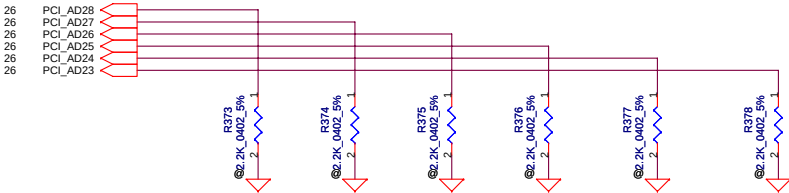
NOTE: SB700 HAS INTERNAL 15K PULL UP RESISTOR FOR RTC_CLK

	PCI_CLK2	PCI_CLK3	PCI_CLK4	PCI_CLK5	LPC_CLK0	LPC_CLK1	RTC_CLK	AZ_RST_CD#	GP17	GP16
PULL HIGH	BOOTFAIL TIMER ENABLED	USE DEBUG STRAPS	RESERVED	RESERVED	ENABLE PCI MEM BOOT	CLKGEN ENABLED	INTERNAL RTC DEFAULT	EC ENABLED	Internal pull up H,H = Reserved L,L = SPI ROM	
PULL LOW	BOOTFAIL TIMER DISABLED DEFAULT	IGNORE DEBUG STRAPS DEFAULT			DISABLE PCI MEM BOOT DEFAULT	CLKGEN DISABLED DEFAULT	EXT. RTC (PD on X1, apply 32KHz to RTC_CLK)	EC DISABLED DEFAULT		L,H = LPC ROM (Default) L,L = FWH ROM

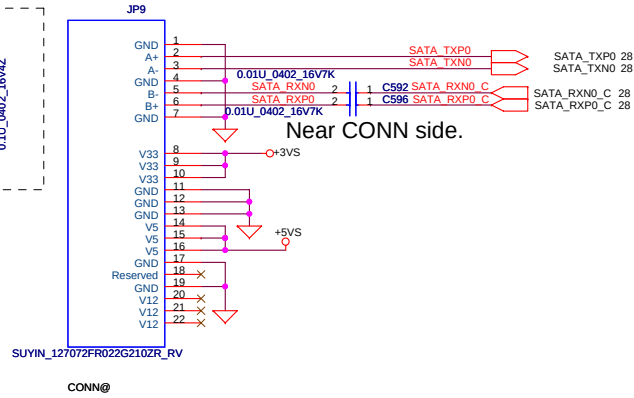
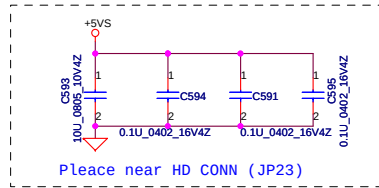


DEBUG STRAPS
SB700 HAS 15K INTERNAL PU FOR PCI_AD[28:23]

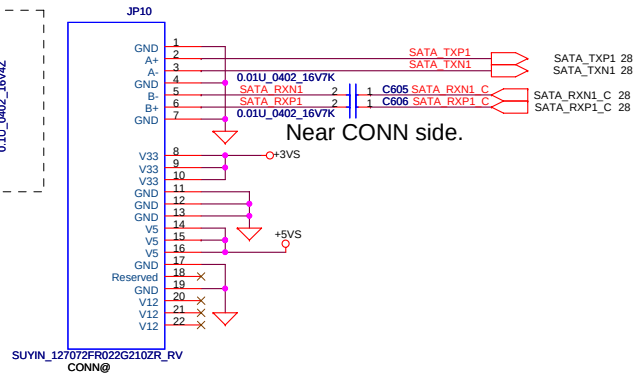
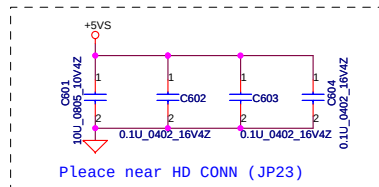
	PCI_AD28	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE LONG RESET DEFAULT	USE PCI PLL DEFAULT	USE ACPI BCLK DEFAULT	USE IDE PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	RESERVED
PULL LOW	USE SHORT RESET	BYPASS PCI PLL	BYPASS ACPI BCLK	BYPASS IDE PLL	USE EEPROM PCIE STRAPS	



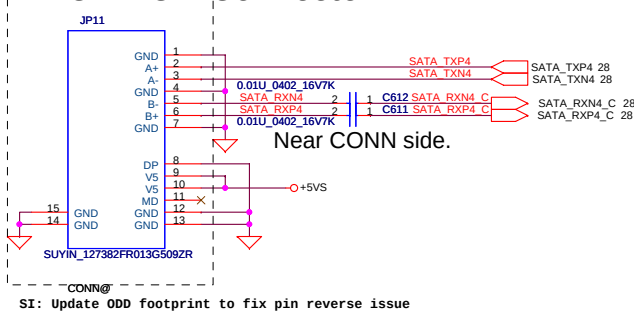
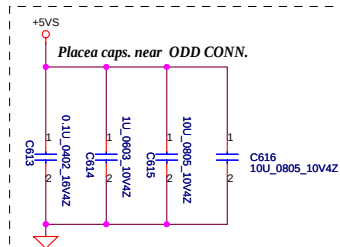
HDD Connector



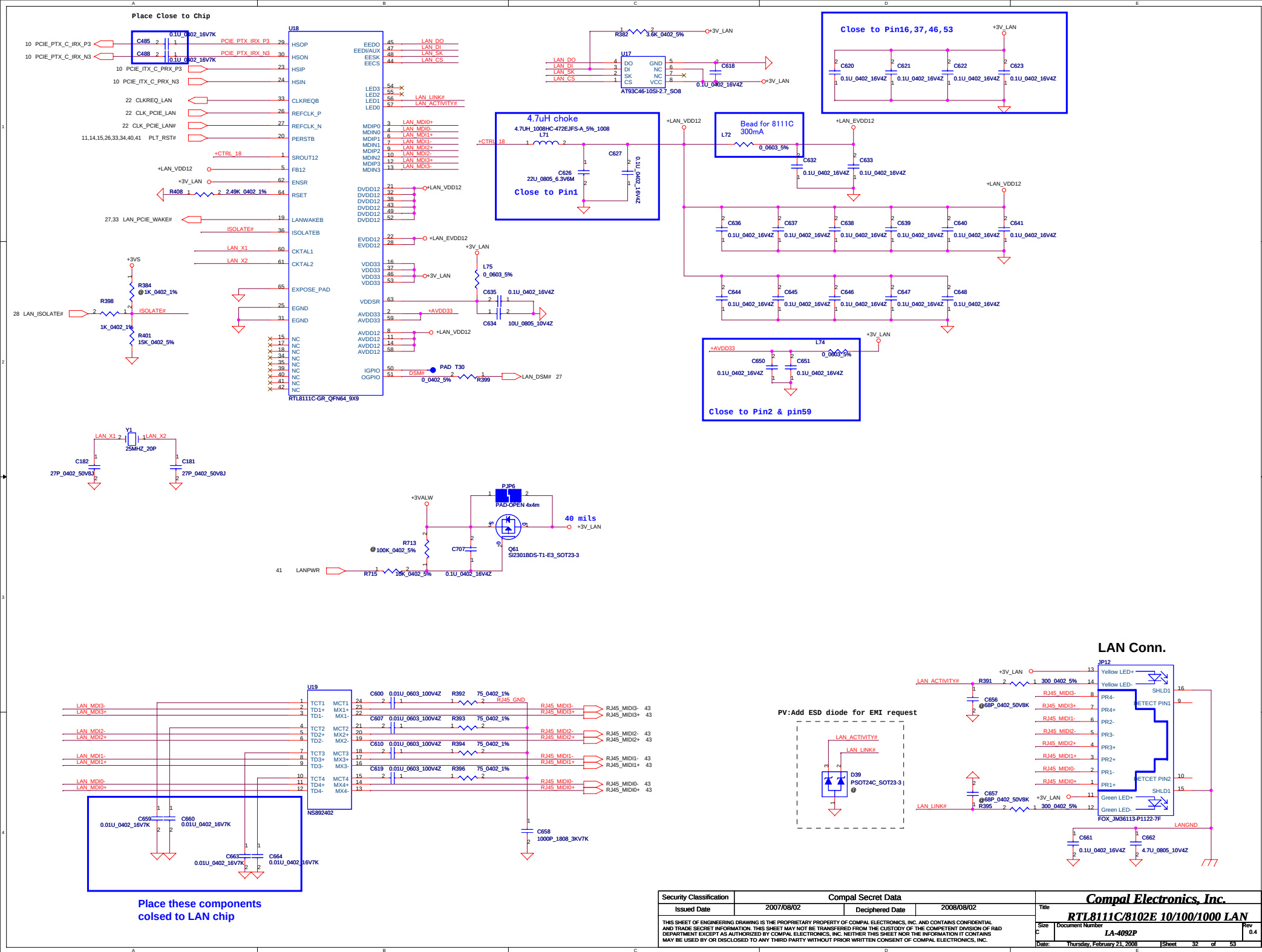
2nd HDD Connector-option



CD-ROM Connector

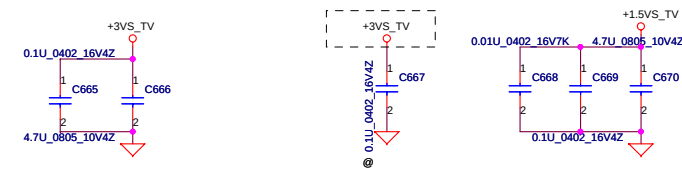


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				HDD/CDROM		
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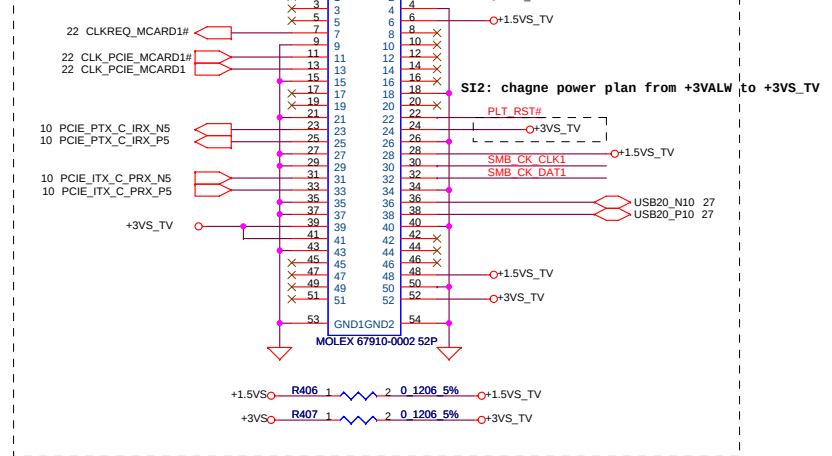


Mini Card---TV tuner

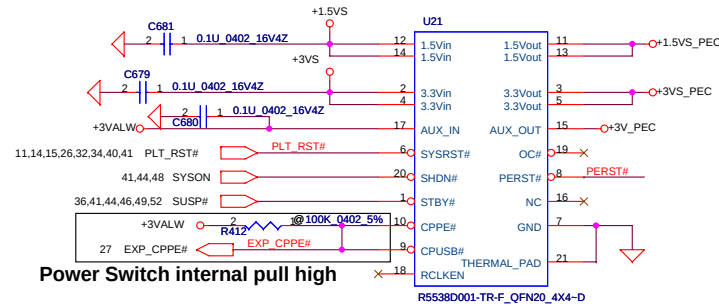
SI2: chagne power plan from +3VALW to +3VS_TV



SI: Exchange TV & WLAN minicard location



New Card

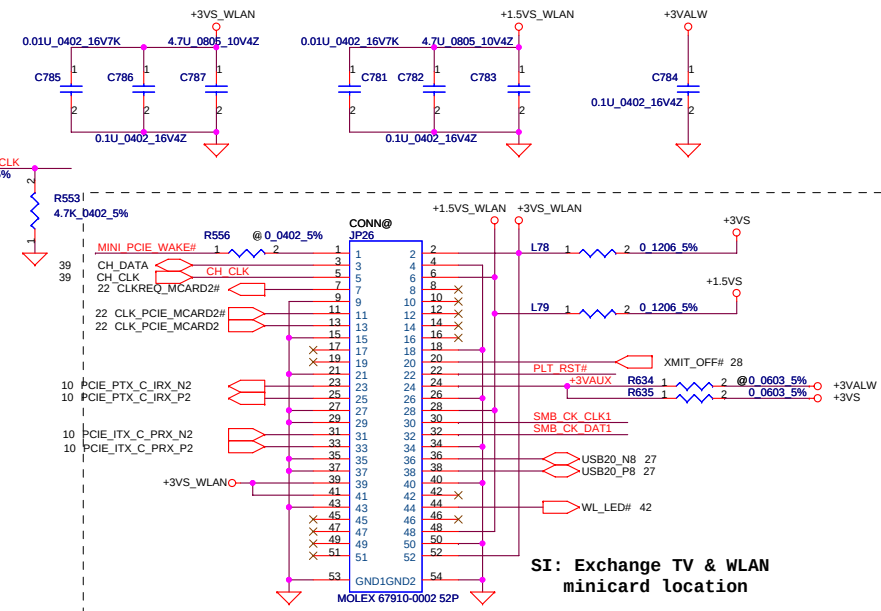


Power Switch internal pull high

USE TI TPS2231MRGPR

Mini-Express Card---WLAN

Near to Express Card slot.

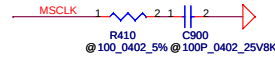
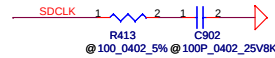
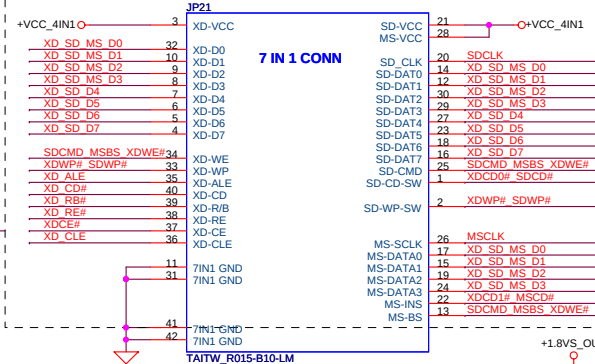


SI: Exchange TV & WLAN minicard location

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Issued Date	2007/08/02	Deciphered Date	2008/08/02	Mini-Card/Mini-PCI/Express Card	
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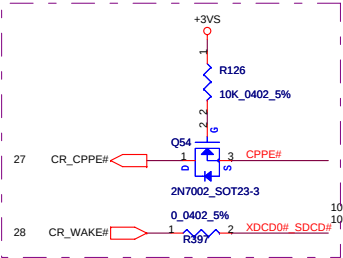
SI:Per ME request change
JP21 to new one

Card Reader Connector

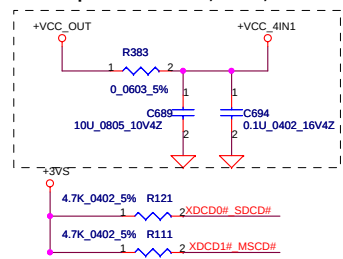


SI:Per Jmicro request change
R405 & R122 from 200K to 10K

SI2:Support D3E function

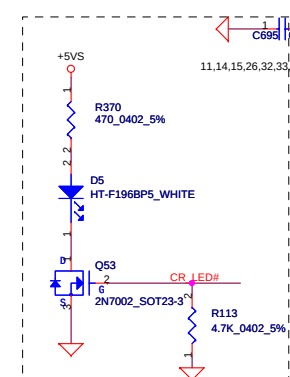


SI:Use build in Regulator
Chip mount R383,C689,C694

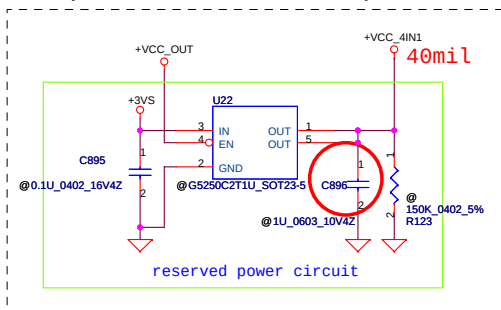


SI:Per Jmicro request change
R114 from 10K to 8.2K

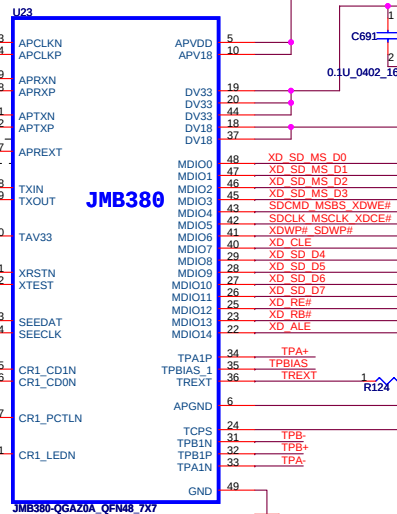
R114 from 10K to 8.2K



SI:Use build in Regulator
Chip unmount U22 and relation parts

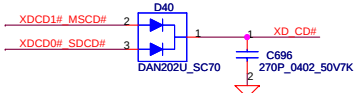
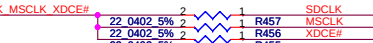
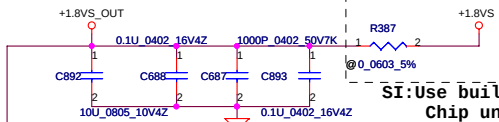


Power Circuit

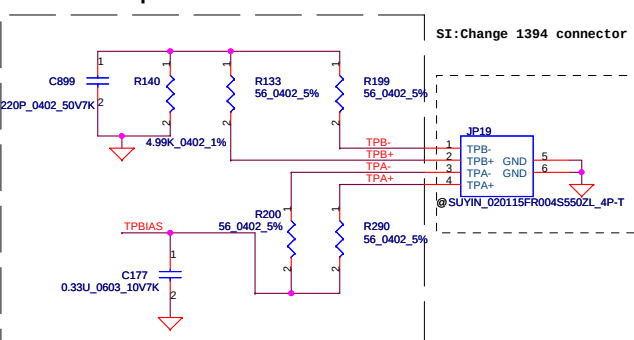


SI2: Use B version chip

SI:Use build in Regulator
Chip unmount R387



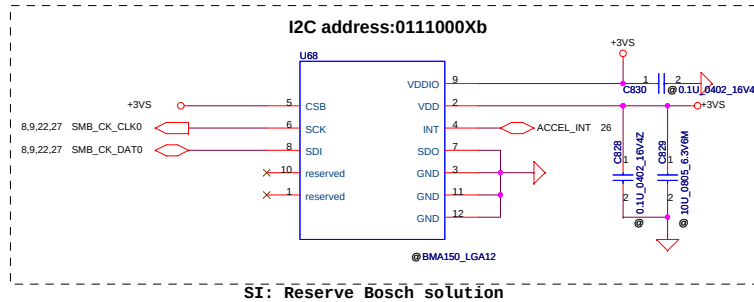
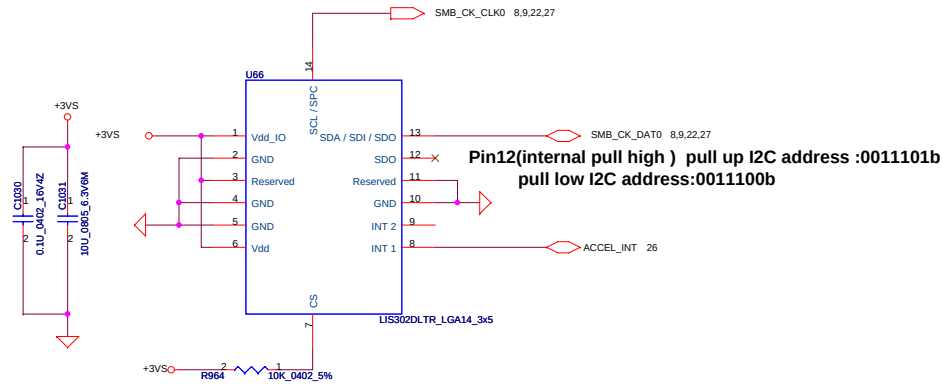
Close to Chip



SI:Change 1394 connector

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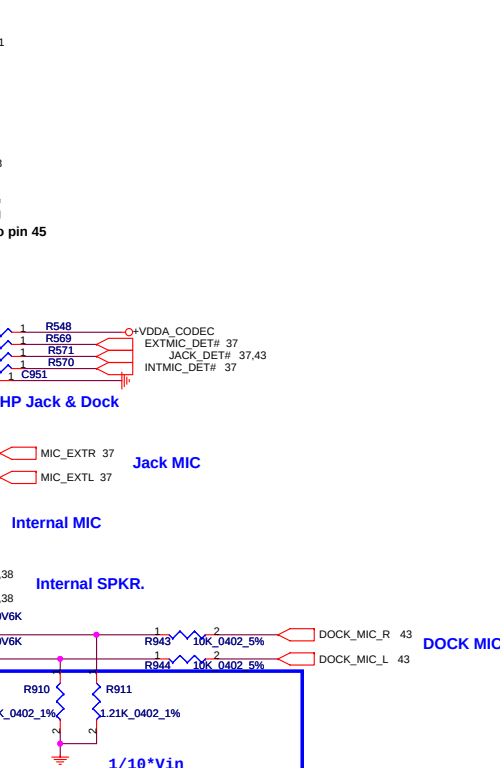
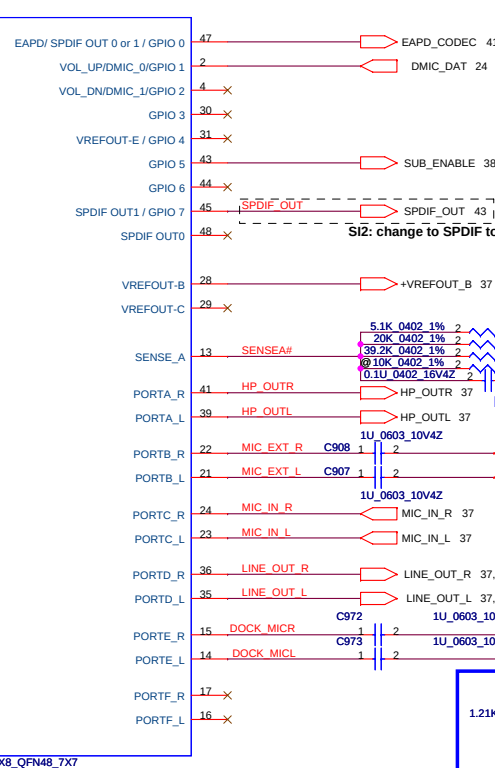
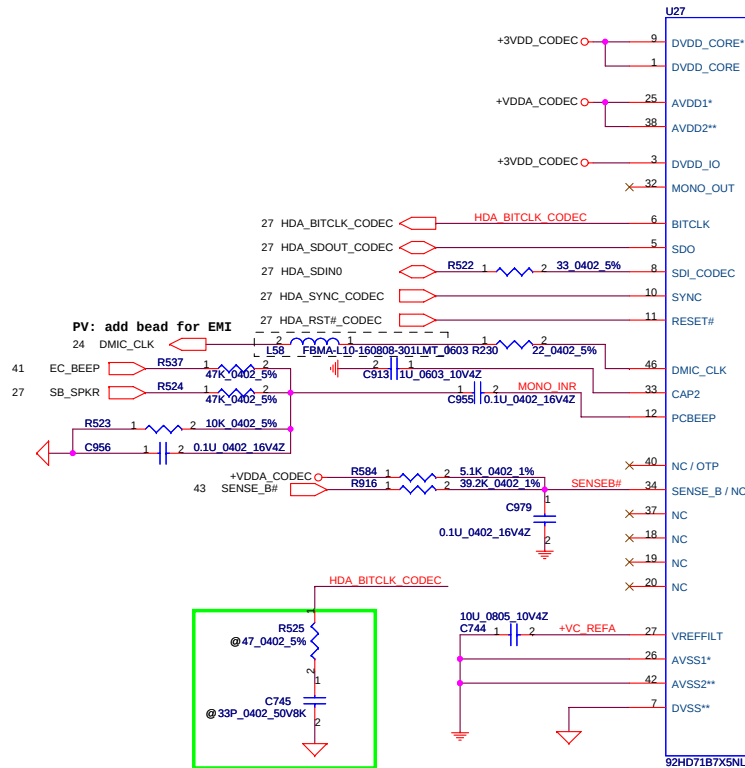
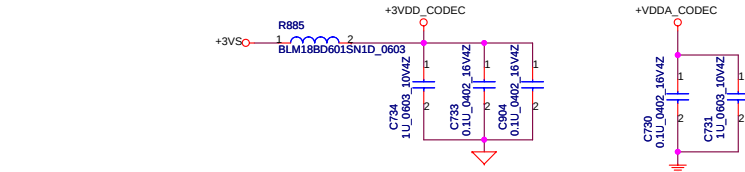
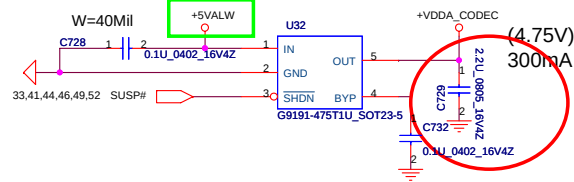
ACCELEROMETER



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				Size Document Number LA-4092P	
				Date: Thursday, February 21, 2008 Sheet 35 of 53	

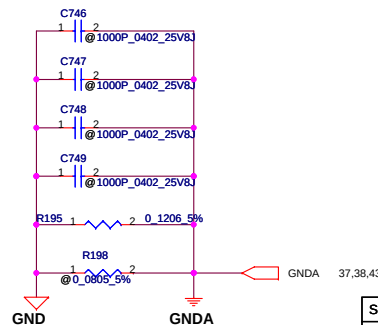
CODEC POWER

0212_Change to +5VALW.



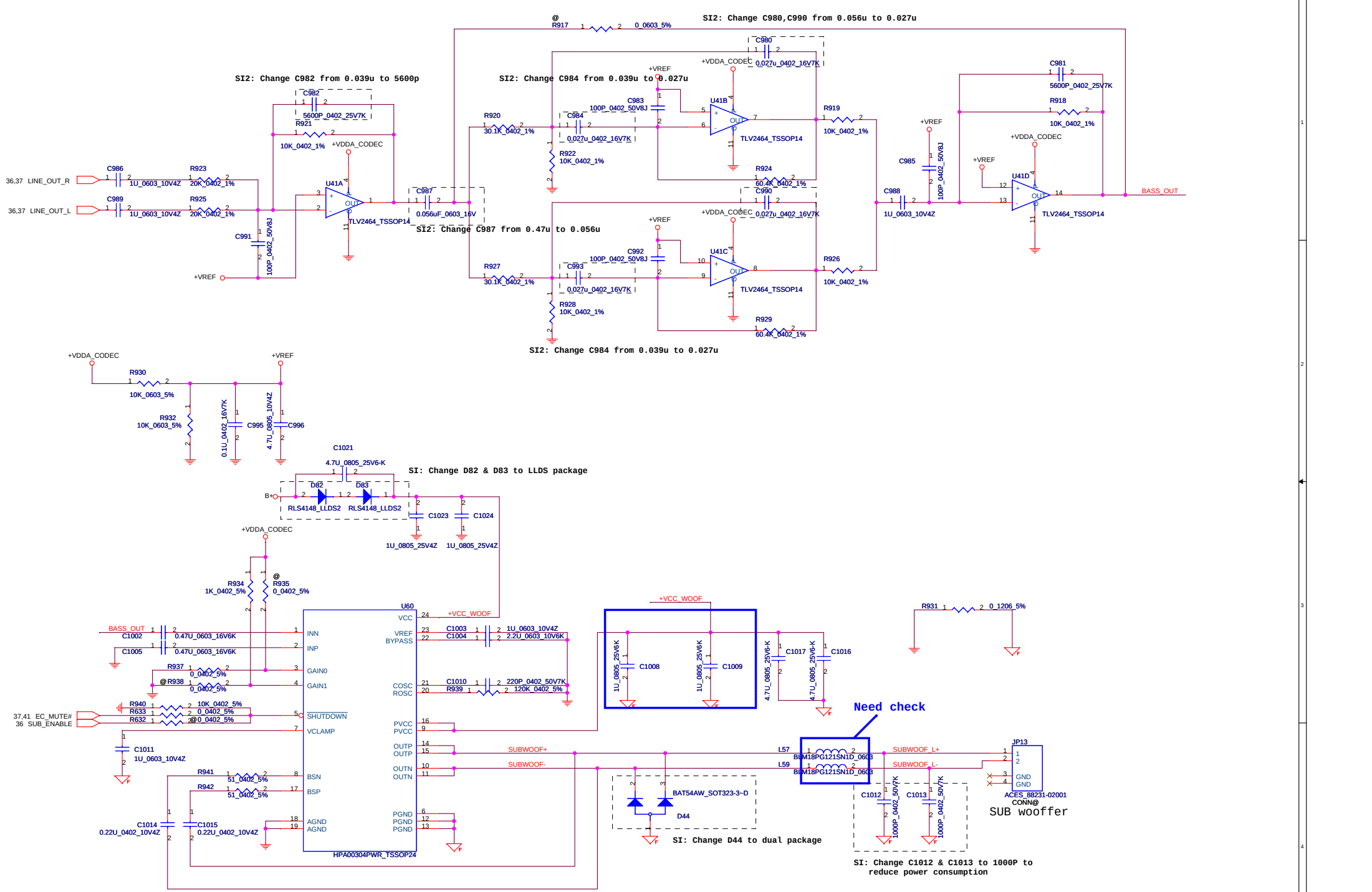
SI2: Use new version Codec

SENSE A		SENSE B	
Port	Resistor	Port	Resistor
A	39.2K	E	39.2K
B	20K	F	20K
C	10K	G	10K
D	5.11K	H	5.11K



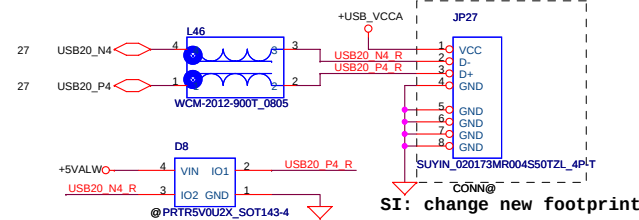
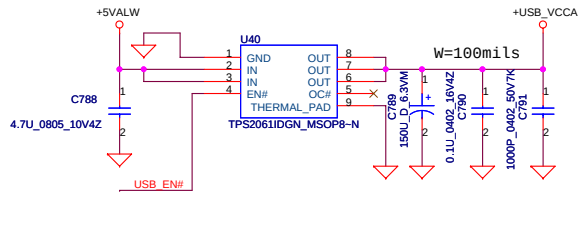
HP_DET#	MIC_DET	LINEOUT	PORT-A <Earphone OUT>	MIC	EQ
0 (LOW)	0 (LOW)	OFF	ON	ON	Disable
0 (LOW)	NC	OFF	ON	OFF	Disable
NC	0 (LOW)	ON	OFF	ON	Enable
NC	NC	ON	OFF	OFF	Enable

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Issued Date	2007/08/02	Deciphered Date	2008/08/02	Compal Electronics, Inc.	
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Size	Document Number	LA-4092P		Rev	0.4
Date:	Thursday, February 21, 2008	Sheet	36	of	53

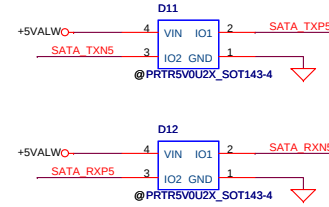
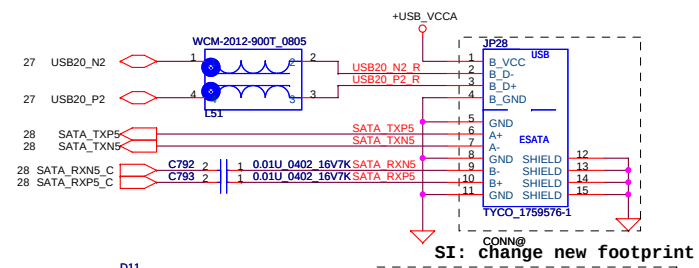


Security Classification		Compal Secret Data		Title	
Issued Date	2006/10/26	Deciphered Date	2006/07/26	EQ & Sub Woofer	
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				Date: Thursday, February 21, 2008	Rev 0.4
				[Sheet 38 of 53]	

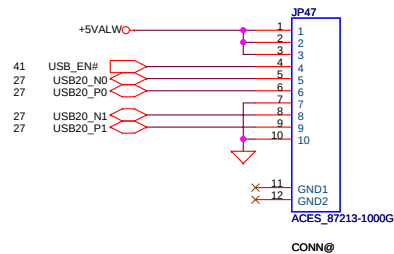
Left side USB CONNECTOR 0



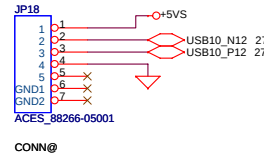
Left side ESATA/USB combination Connector



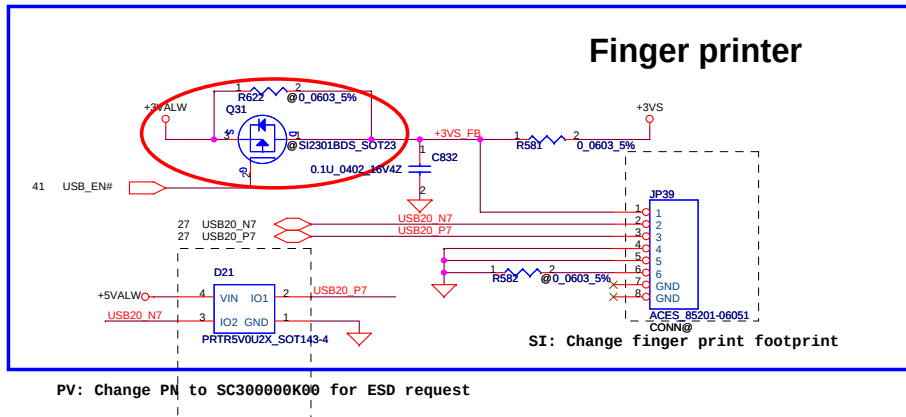
USB Board Conn



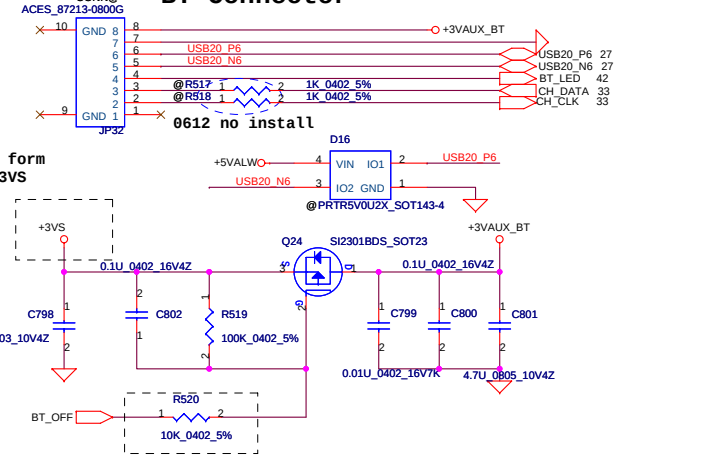
Touch screen



Finger printer



BT Connector

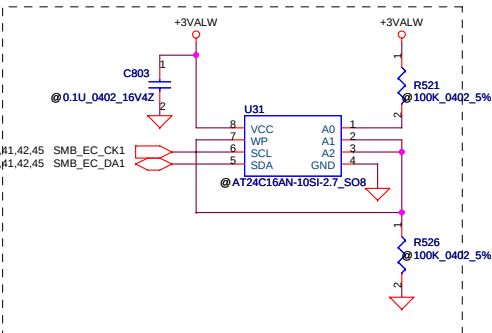


SI: change to 10K ohm to make sure MOS can turn on

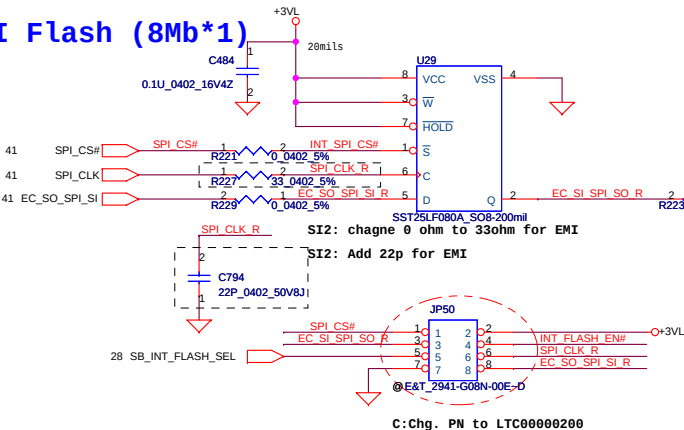
Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date				2007/08/02				Title			
Deciphered Date				2008/08/02				Cover Sheet			
Size				Document Number				Rev			
Custom				LA-4092P				0.4			
Date:				Thursday, February 21, 2008				Sheet 39 of 53			

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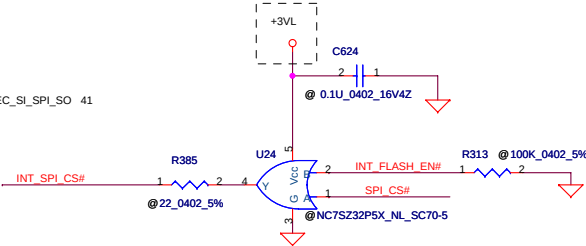
SI2: Change from +3VL to +3VALW and unmount this EEPROM



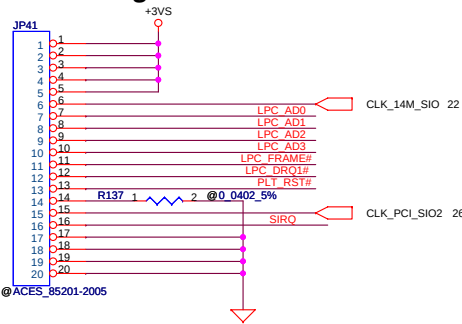
SPI Flash (8Mb*1)



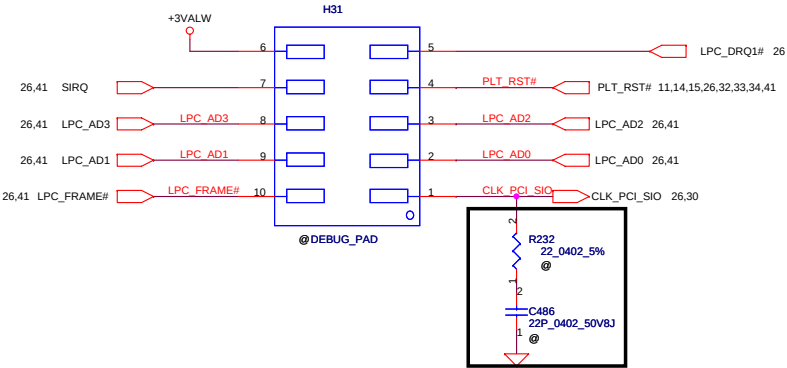
SI2: Change from +3VALW to +3VL



LPC Debug Port



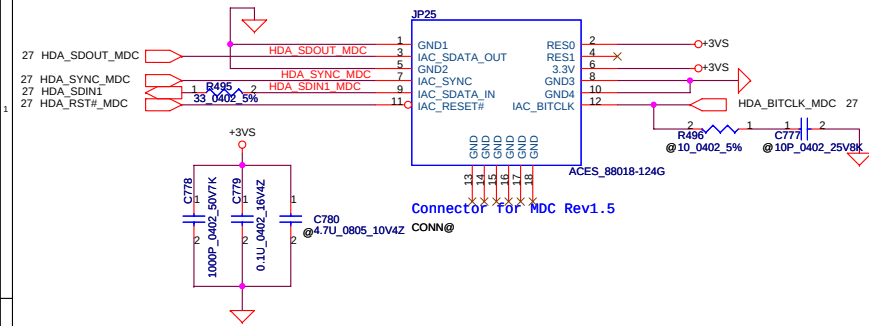
LPC Debug Port



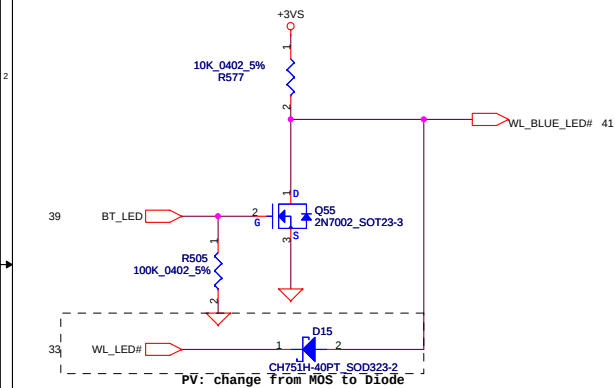
Security Classification	Compal Secret Data			Title		
Issued Date	2007/08/02	Deciphered Date	2008/08/02	TCG/BIOS ROM/PS2/LED/SW		
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				Custom	LA-4092P	0.4
				Date:	Thursday, February 21, 2008	Sheet 40 of 53

MDC 1.5 Conn.

Change type 4/25

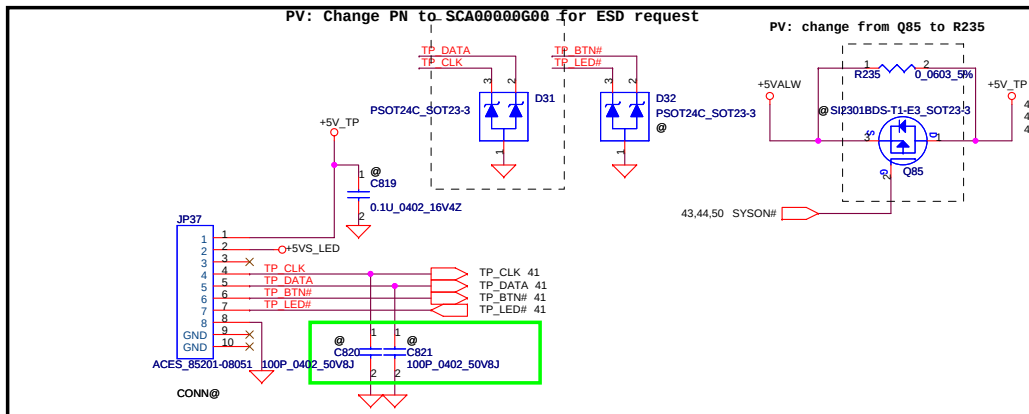


Connector for MDC Rev1.5



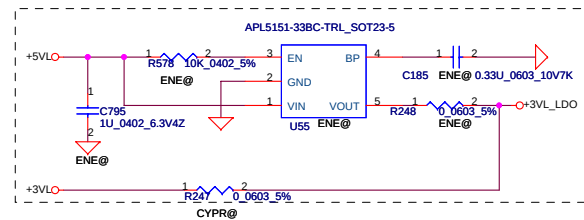
T/P Board (Inculde T/P_ON/OFF)

PV: Change PN to SCA00000600 for ESD request

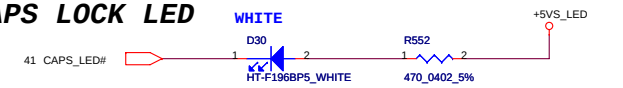


PV: change from Q85 to R235

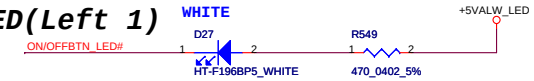
PV: Add LDO for ENE cap board



CAPS LOCK LED



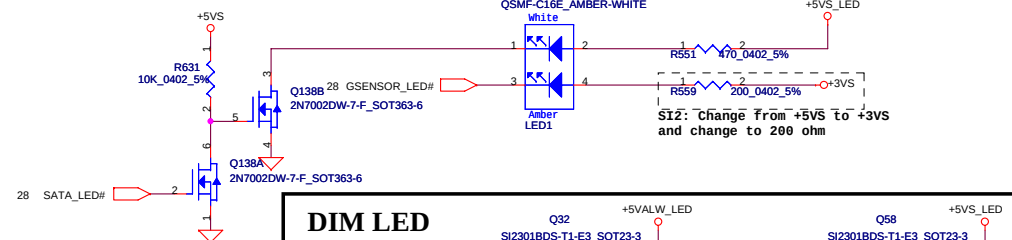
POWER LED(Left 1)



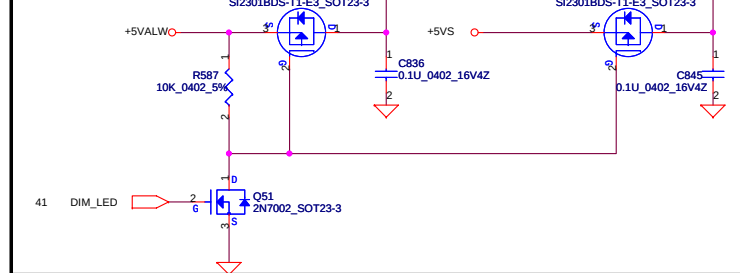
Battery Charge LED(Left 2)



HDD LED(Left 3)

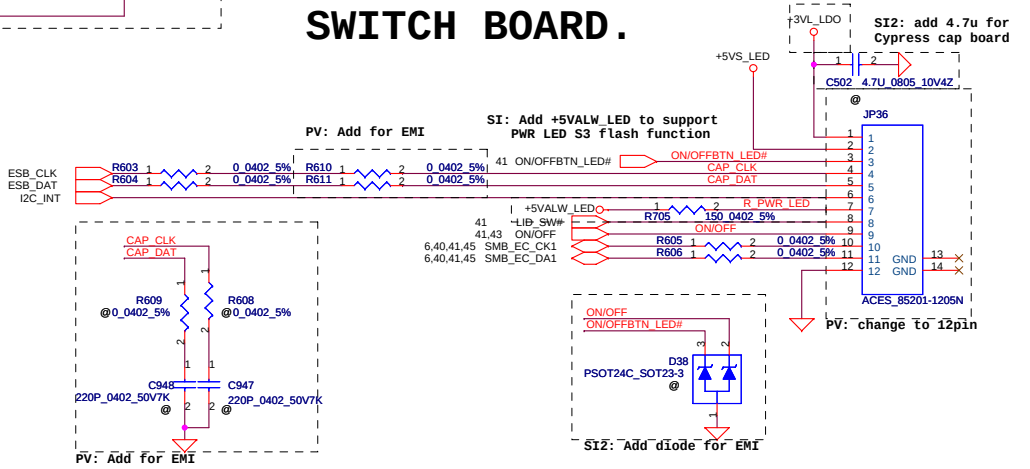


DIM LED



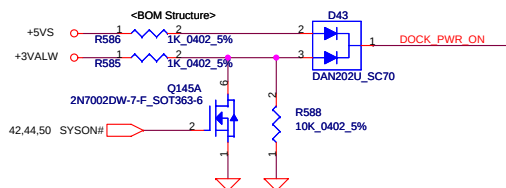
SI: Change to +3VL to support Qplay bottom boot in BATT mode

SWITCH BOARD.



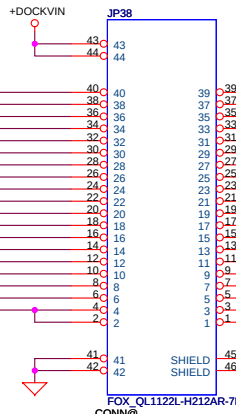
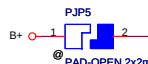
Security Classification		Compal Secret Data		Title	
Issued Date	2007/08/02	Deciphered Date	2008/08/02	MDC/KBD/ON_OFF/LID	
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				Document Number	LA-4092P
				Date	Thursday, February 21, 2008
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Atlas/ Saturn Dock

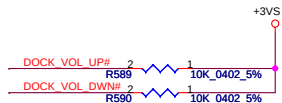


DOCK_PWR_ON Spec
0V = Notebook S4/S5, Dock off
2.5V = Notebook S3, Dock on
4V = Notebook S0, Dock on

23 GREEN_L
23 RED_L
23 BLUE_L
23 D_HSYNC
23 D_DDCCLK
23 USB20_N3
23 D_VSYNC
27 USB20_P3
32 RJ45_MIDI3+
32 RJ45_MIDI3-
32 RJ45_MIDI2+
32 RJ45_MIDI2-
32 RJ45_MIDI1+
32 RJ45_MIDI1-
32 RJ45_MIDI0+
32 RJ45_MIDI0-

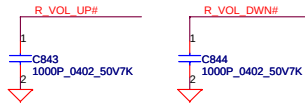
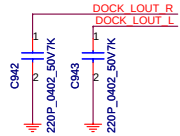
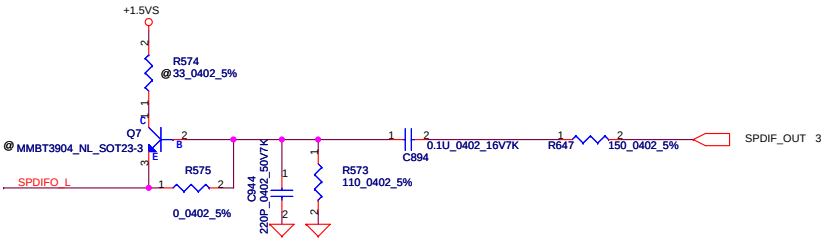
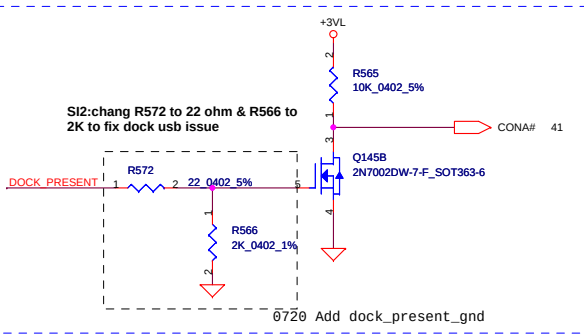


need change to reverse type connector



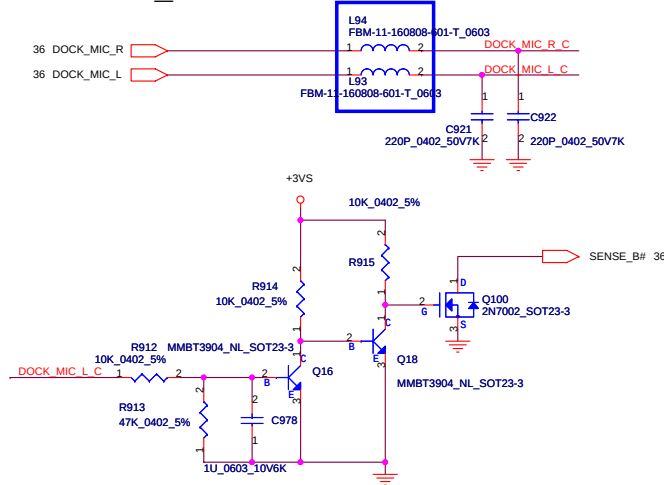
DOCK_VOL_UP# 2
DOCK_VOL_DWN# 2
R589 10K_0402_5%
R590 10K_0402_5%

MUTE_LED 41
DOCK_SLP_BTN# 41,42
JACK_DET# 36,37
DOCK_VOL_UP# 41
DOCK_VOL_DWN# 41



MIC_Dock

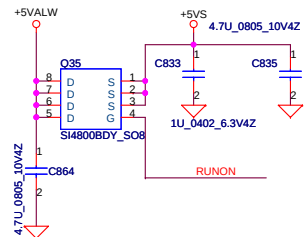
Need 600 Ohm 500 mA



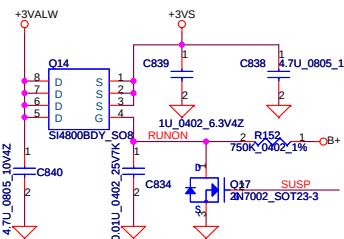
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2007/08/02	Deciphered Date	2008/08/02	Title		
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				Custom	LA-4092P	0.4
				Date:	Thursday, February 21, 2008	Sheet 43 of 53

DOCK CONN

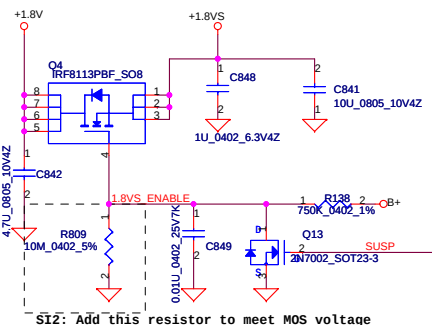
+5VALW TO +5VS



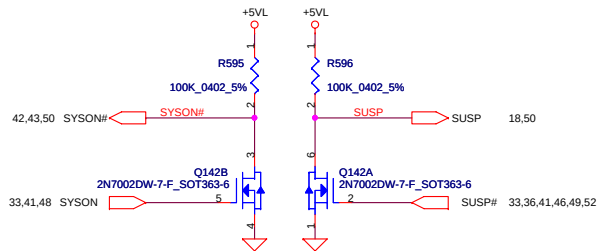
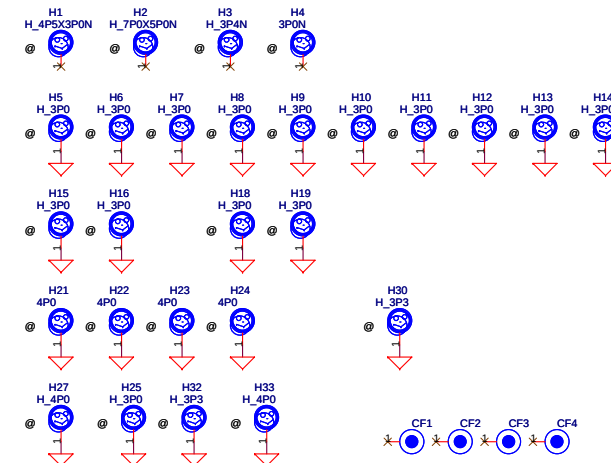
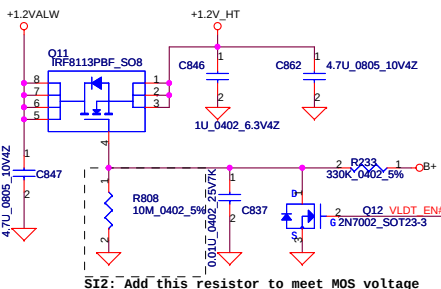
+3VALW TO +3VS



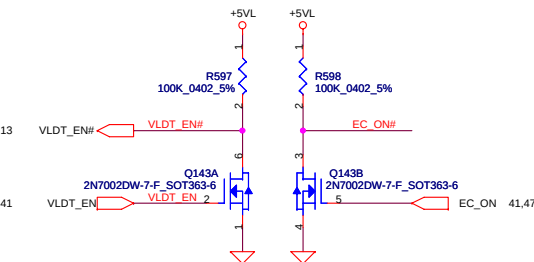
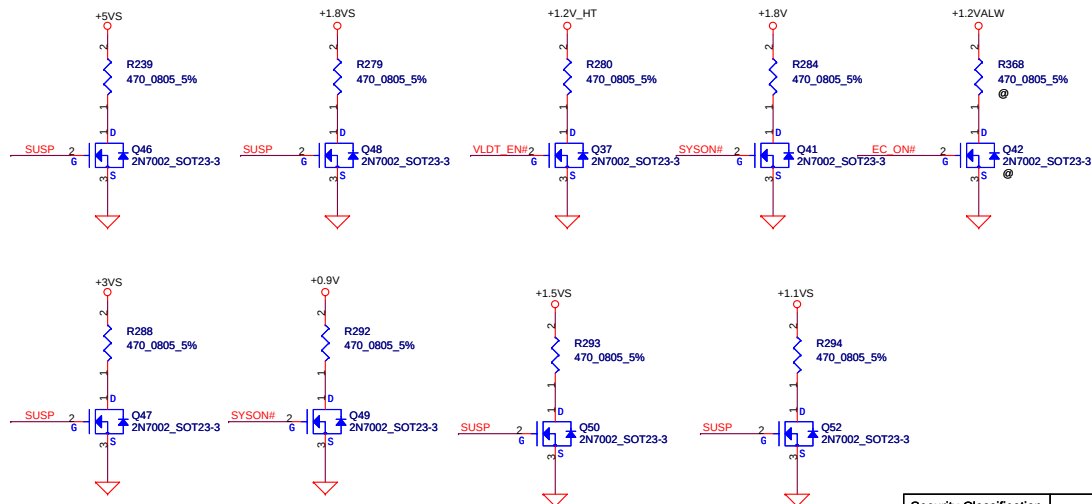
+1.8V TO +1.8VS



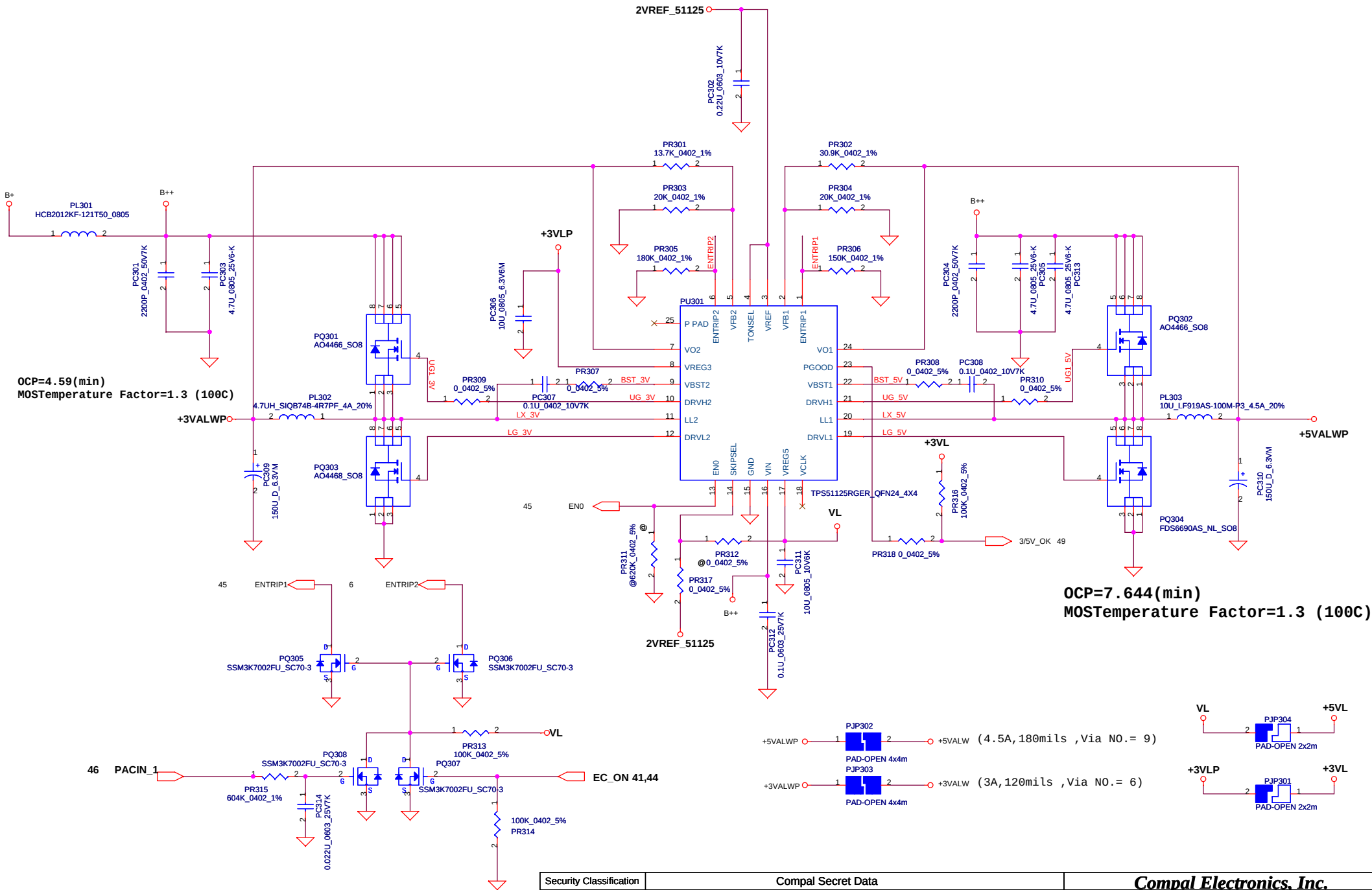
+1.2VALW TO +1.2V_HT



Discharge circuit

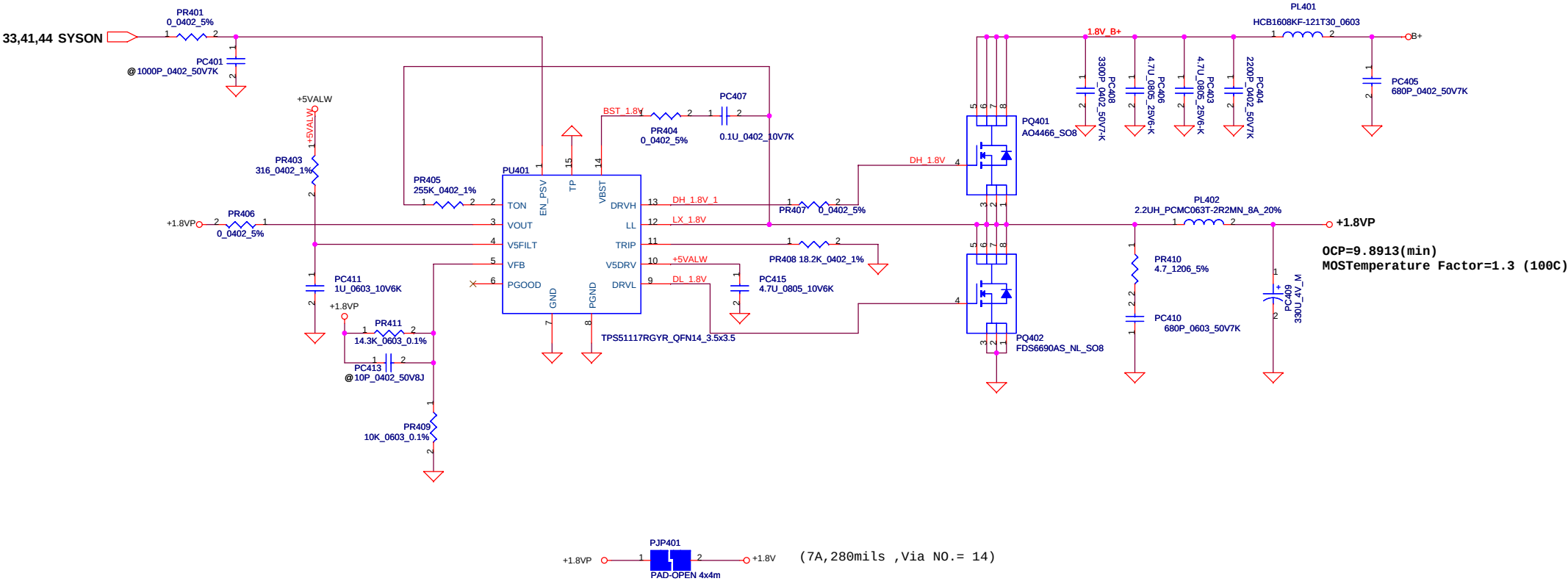


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								DC/DC Circuits			
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						Custom		LA-4092P		0.4	
						Date:		Thursday, February 21, 2008		Sheet 44 of 53	

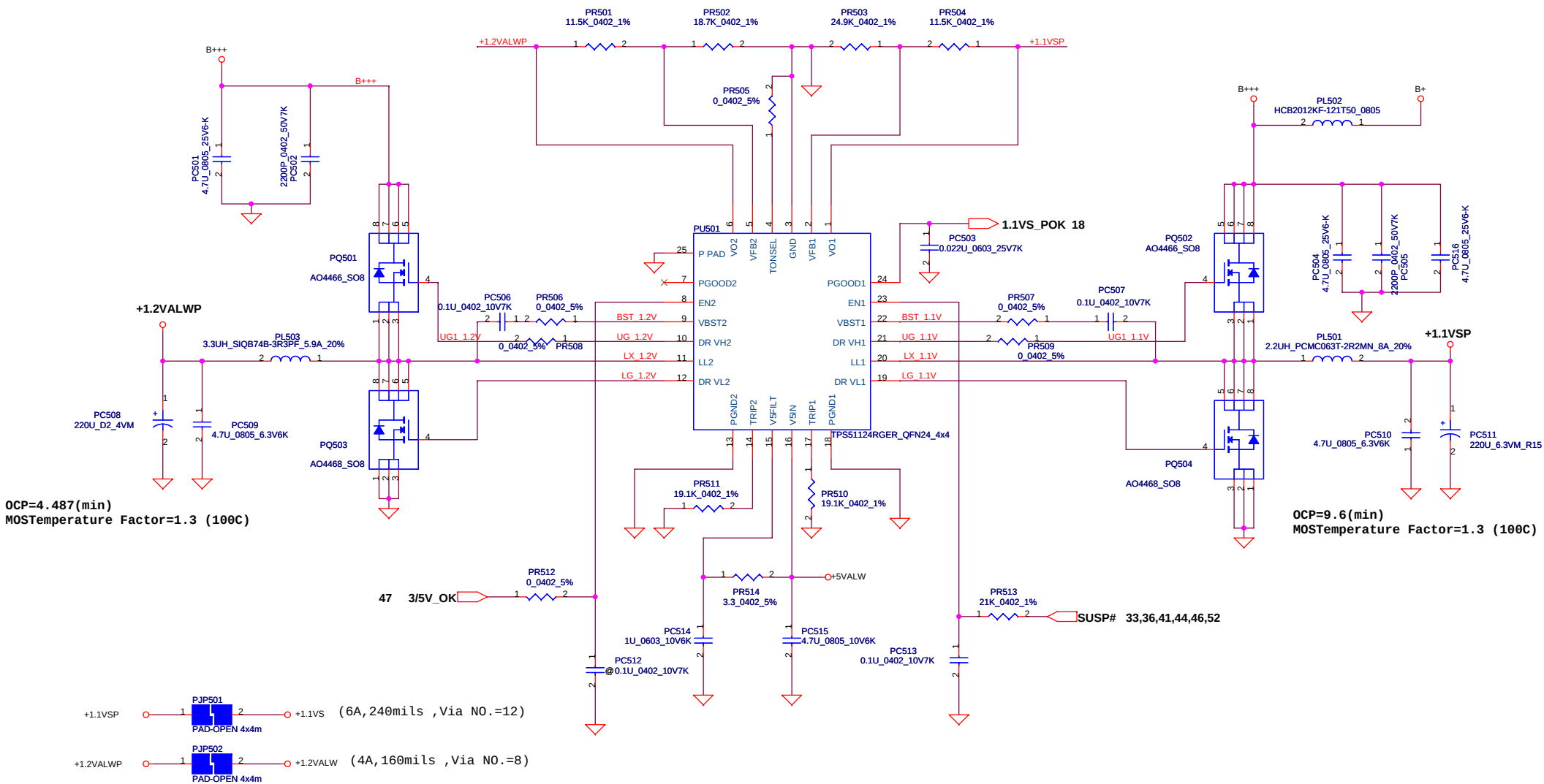


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Issued Date		2007/05/29		Deciphered Date		2008/05/29		Title		3.3VALWP/5VALWP				
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33,41,44 SYSON



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								Size		Document Number		Rev	
										LA-4021P		0.1	
								Date:		Thursday, February 21, 2008		Sheet 48 of 53	



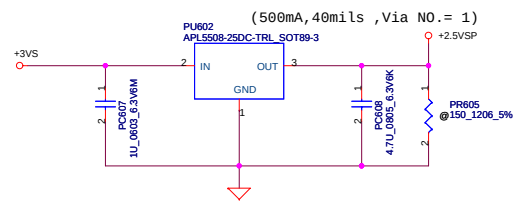
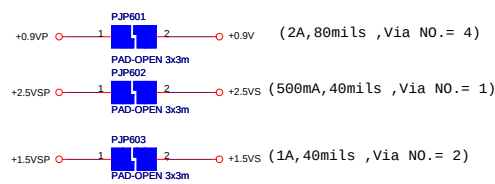
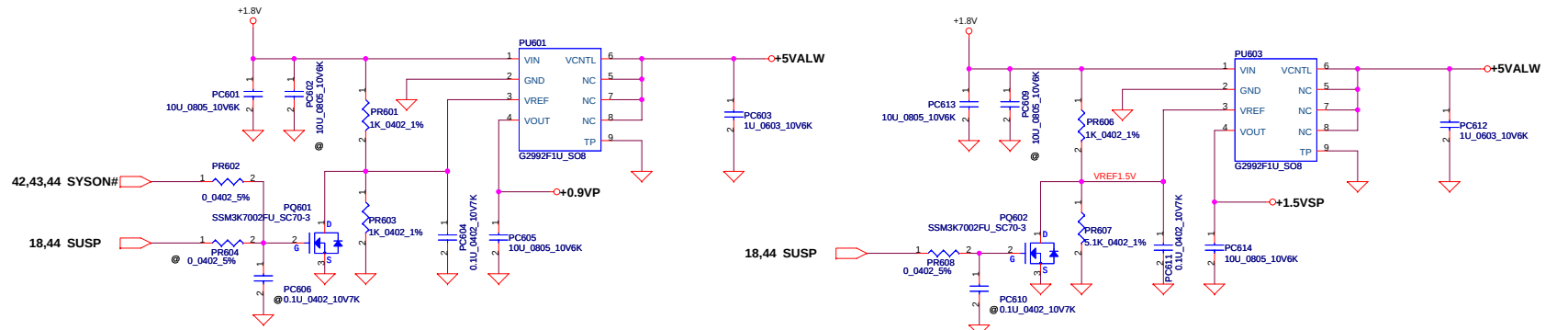
OCP=4.487(min)
MOSTemperature Factor=1.3 (100C)

OCP=9.6(min)
MOSTemperature Factor=1.3 (100C)

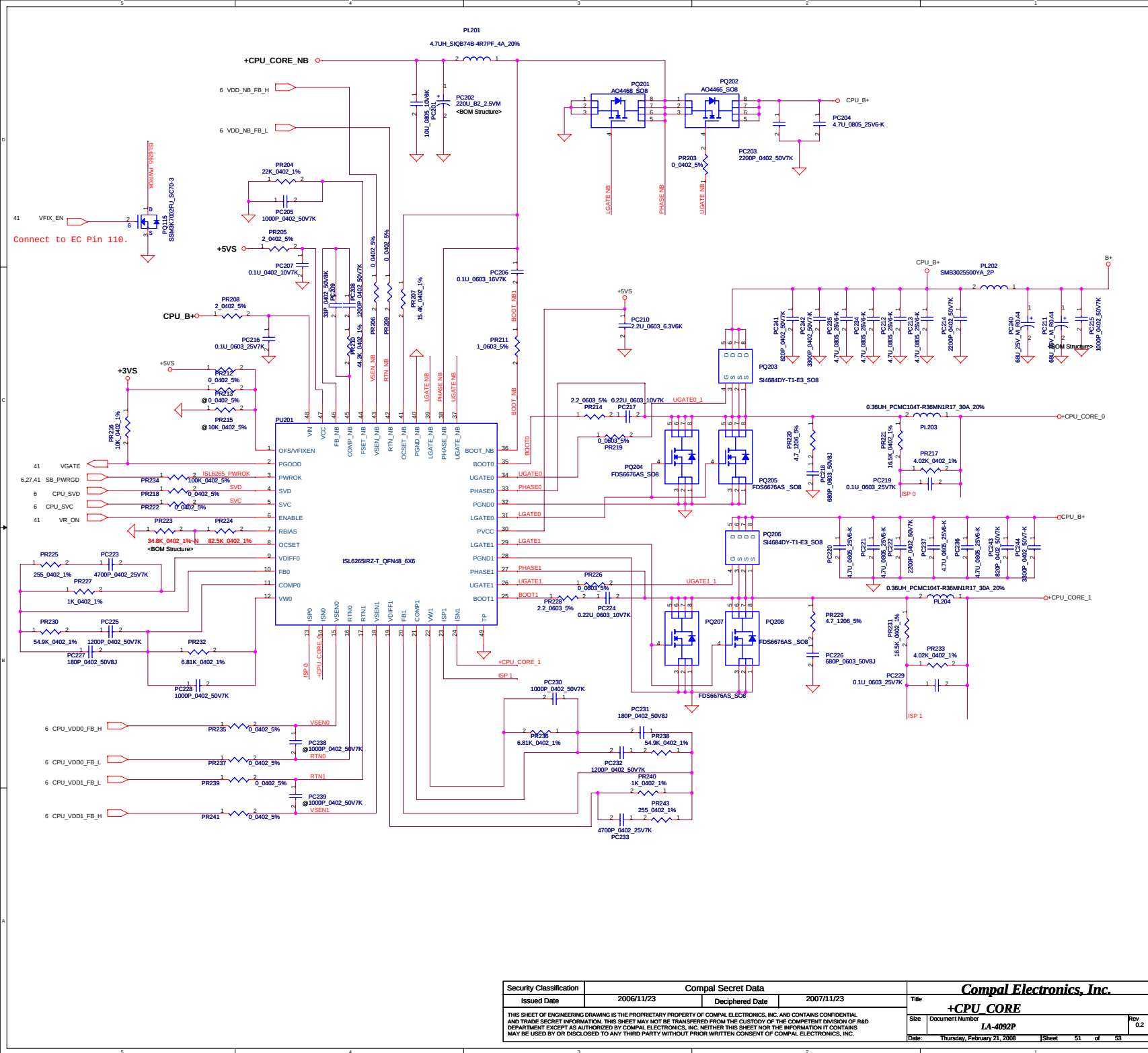
+1.1VSP 1 PJP501 2 +1.1VS (6A,240mils ,Via NO.=12)
PAD-OPEN 4x4m

+1.2VALWP 1 PJP502 2 +1.2VALW (4A,160mils ,Via NO.=8)
PAD-OPEN 4x4m

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Size		Document Number			Rev
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Issued Date		Deciphered Date		Title	
2006/11/23		2007/11/23		0.9VSP/2.5VSP/1.5VSP	
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		Document Number		LA-4092P	
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Security Classification	Compal Secret Data			Title	
Issued Date	2006/11/23	Deciphered Date	2007/11/23	+CPU CORE	
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Version Change List (P. I. R. List)for Power Circuit

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	48	1.8VP	10/23	Compal	for power request	PU401 change the IC from "S IC RT8204PQW WQFN 16P" to "S IC TPS51117RGYR QFN 14P".	
2	46	Charger	10/30	Compal	for power request	PQ104 swap the PQ104 1,3 Pin	
3	47	3V/5V	10/30	Compal	for power request	Change PR301 to 13.7K modify output voltage	
4	47	3V/5V	10/30	Compal	for power request	Change PR305 to 180K modify OCP	
5	47	3V/5V	10/30	Compal	for power request	Change PR306 to 150K modify OCP	
6	47	3V/5V	10/30	Compal	for power request	Change PR311 to 620K	
7	47	3V/5V	10/30	Compal	for power request	Change PR315 to 604K modify sequence	
8	49	+1.1VSP	10/30	Compal	for power request	Change PR510 to 19.1K modify OCP	
9	49	+1.2VALWP	10/30	Compal	for power request	Change PR511 to 19.1K modify OCP	
10	46	Charger	10/30	Compal	for power request	Del PR119	
11	51	CPU_CORE	10/30	Compal	for power request	Change PC202 to B2 type for ME limit	
12	51	CPU_CORE	10/30	Compal	for power request	Change PR223 to 17.8K and PR224 to 100K modify OCP	
13	51	CPU_CORE	10/30	Compal	for power request	Change PR221,PR231 to 16.5K and PR217,PR233 to 4.02K for CPU_CORE compensation	
14	45	DC connector	10/30	Compal	for power request	Add PR3,PD4,PC12 for ADP_ID function	
15	47	3V/5V	10/30	Compal	for power request	Add PR317,PR318	
16	46	Charger	10/30	Compal	for power request	Change net from +3VLP to +3VL	
17	49	+1.1VSP	10/30	Compal	for power request	Change PR513 to 21K for HW power scquence.	
18	46	Charger	11/09	Compal	for power request	Pop PR119 Unpop PR9	
19	50	0.9VSP	11/09	Compal	for power request	Change PC601,PC605,PC611,PC603,PC613,PC614,PC612, PC201 for common part	
20	46	Charger	11/09	Compal	for power request	Change PR112 to 0.015 Ohm	
21	49	+1.2VALWP	11/09	Compal	for power request	Change PC508 to D2 size for ME limit	
22	51	CPU_CORE	12/05	Compal	for EMI request	Add PR220,PR229 for EMI	
23	49	CPU_CORE	12/05	Compal	for EMI request	Add PC218,PC226 for EMI	

Version Change List (P. I. R. List) for Power Circuit

[illegible]

HW4 Product Improvement Record (P.I.R.)

- 1. Change R538 Pull high from +3VL to +3VALW
- 2. New add R563,R571 Pull high +3VS
- 3. Unmount BKOFF# Pull high R483
- 4. Unmount CPU_LDT_REQ# Pull high R318
- 5. Change LED1 P/N to SC500004C00
- 6. Change JP36 Pin2 from +5VS_LED to +5VALW_LED
- 7. Change C1012 & C1013 from 4700P to 1000P
- 8. Change R186 size from 0603 to 0402
- 9. Delete TV function and relation component
- 10. Add R554 for CIR pull high
- 11.Add C327 on BATT_OVT
- 12.Change L57 & L59 to 0603 BLM18PG121SN1D
- 13. exchange TV & WLAN mini card location
- 14.add LAN cable detect circuit
- 15.update ODD CONN footporint and symbol
- 16.delete Lid switch baord Conn
- 17.Change Cap sensor board power to +3VL to support Qplay boot

RTC

ZZZZ



45@ RTC

PCB

ZZZ



PCB 03X LA-4092P REV0 M/B

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