

3

Scala2-R

CPU : Sandy Bridge PGA
Chip Set : Intel Cougar Point
GFX : N12P-GV/N12M-GE
Remarks : Huron River Platform

Model Name : Scala2-R
PBA Name : MAIN
PCB Code : BA41-01609A (GCE)
BA41-01608A (NY)
BA41-01610A (HAN)
BA41-01XXXA (GBM)

Dev. Step : ADV
Revision : 0.1
T.R. Date : 2011.01.20

Design	CHECK	APPROVAL
GU HUI	SJ WU	BC LEE

■ Owner : SRDC PD3

Signature : GUHUI

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DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG
CHECK	SJ Wu	DEV. STEP	ADV	MAIN		ELECTRONICS
APPROVAL	BC LEE	REV	rev. 0.1	COVER		PART NO.
MODULE CODE		LAST EDIT	January 20, 2011 18:59:20 PM	PAGE	1	OF 48
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BOARD INFORMATION

SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

Voltage Rails

Active in

VDC P3.3V_MICOM P5.0V_STB P5.0V_ALW P3.3V_ALW P12.0V_ALW	Primary DC system power supply (7 to 21V) 3.3V always power rail (for Micom) 5.0V always power rail 5.0V always power rail 3.3V always power rail 12.0V always power rail	S4 - S5
P5.0V_AUX P3.3V_AUX P1.5V_AUX	5.0V switched on power rail (off in S4-S5) 3.3V switched on power rail (off in S4-S5) 1.5V power rail for DDR3 (off in S4-S5)	S3
P5.0V P3.3V P1.8V P1.5V P0.75V P0.8V	5.0V switched power rail (off in S3-S5) 3.3V switched power rail (off in S3-S5) 1.8V switched power rail (off in S3-S5) 1.5V switched power rail (off in S3-S5) 0.75V power rail for DDR3 (off in S3-S5) 0.8V switched power rail (off in S3-S5)	S0
VCC_CORE EGFX_CORE P1.05V (VCCP)	Core Voltage for CPU Core Voltage for GPU VCC for COUGARPOINT	S0
P3.3V_D P1.5V_D P1.05V_D	3.3V discrete power rail for N12X 1.5V discrete power rail for N12X 1.05V discrete power rail for N12X	

USB PORT Assign		PCI Express Assign	
PORT #	ASSIGNED TO	PORT #	ASSIGNED TO
0	NC	1	Mini Card 1 (WLAN)
1	SYSTEM PORT 0	2	NC
2	Mini PCI Express	3	NC
3	Multi Memory Card Controller	4	LAN CONTROLLER
4	NC	5	USB 3.0
5	NC	6	NC
6	NC (N/A WITH HM55)	7	NC
7	NC (N/A WITH HM55)	8	NC
8	Camera		
9	SYSTEM PORT 1		
10	NC		
11	Camera(LCD Cable)		
12	NC		
13	NC		

SATA PORT Assign	
PORT #	ASSIGNED TO
0	HDD
1	ODD
2	(N/A WITH HM65)
3	(N/A WITH HM65)
4	
5	

Crystal / Oscillator

TYPE	FREQUENCY	DEVICE	USAGE
Crystal	32.768KHz	HM65	Real Time Clock
Crystal	25MHz	LAN	Intel LAN
Crystal	24MHz	USB 3.0	
Crystal	25MHz	HM65	INTEL
Crystal	27MHz	N12P-LP	NVIDIA

LCD Pannel Detect (TBD)

Devices	Resolution	PANNEL_DETECT_0

IC / SMB Address

Devices	Address	Hex	Bus
HM65	Master	-	SMBUS Master
CPU Thermal Sensor	0111 101x	7Ah	-
SODIMM0	1010 000x	A0h	Thermal Sensor
SODIMM1	1010 010x	A4h	-
Thermal Sensor on SODIMM0	0011 000x	30h	-
Thermal Sensor on SODIMM1	0011 010x	34h	-
Thermal Sensor on board	1101 100x	98h	
Power thermal management TS	1101 011x	96h	

DRAW

Gu Hui

DATE

1/03/2011

TITLE

Scala2-R

MAIN

BOARD INFO

CHECK

SJ Wu

DEV. STEP

ADV

APPROVAL

BC LEE

REV

rev. 0.1

MODULE CODE

undefined

LAST EDIT

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SAMSUNG

ELECTRONICS

PART NO.

BA41-01XXXXA

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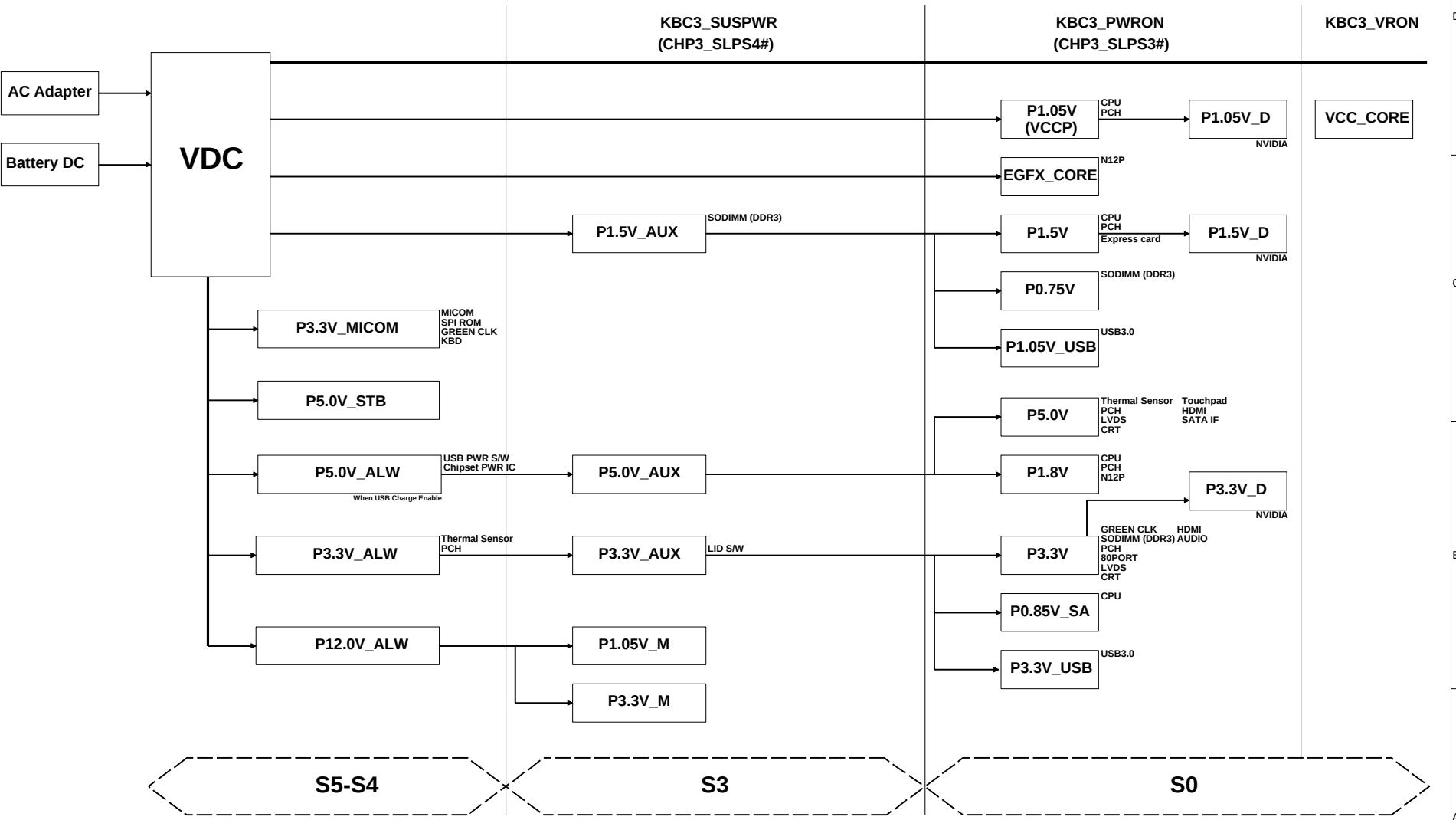
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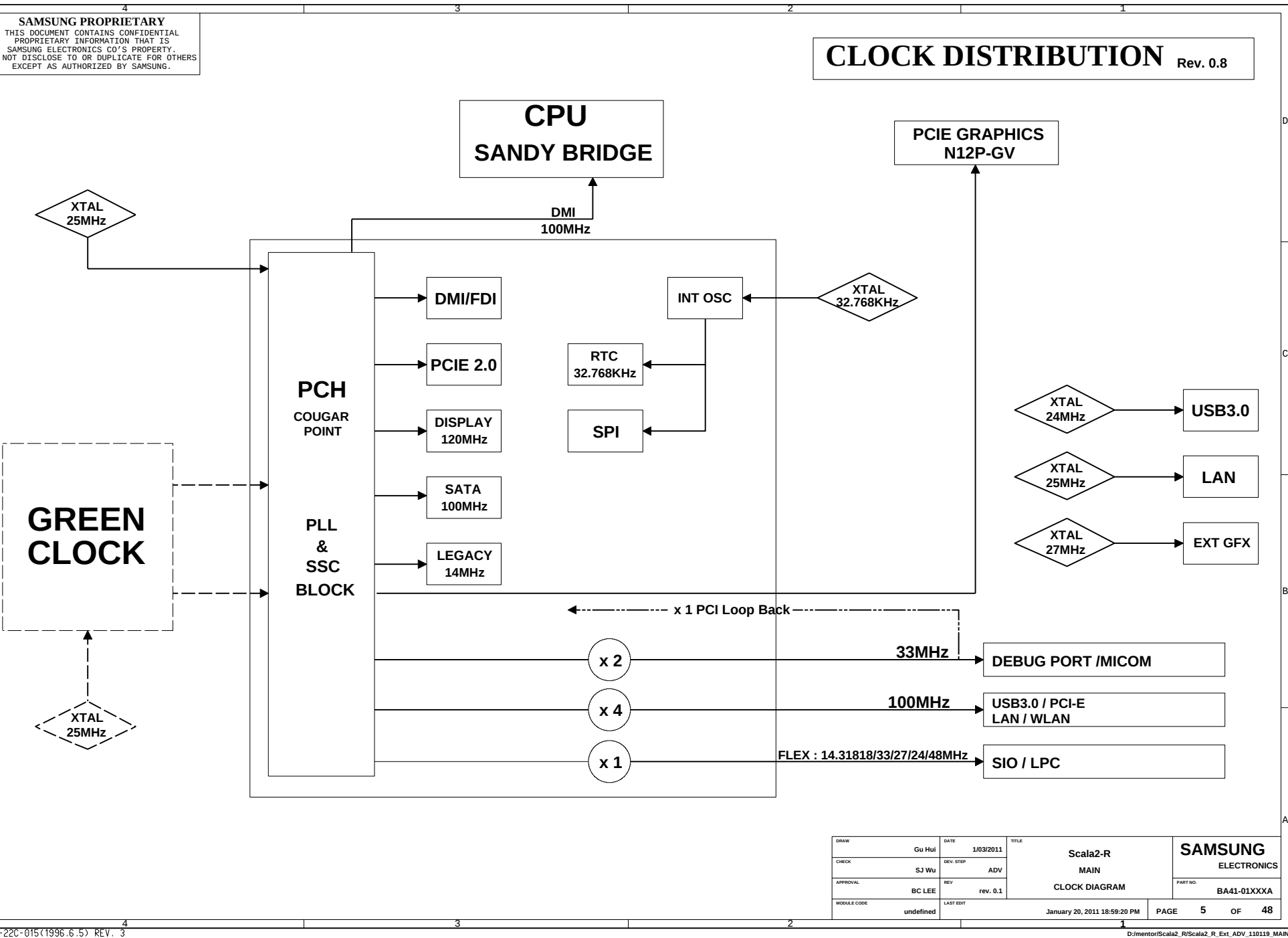
22C-015(1996.6.5) REV. 3

D:\mentor\Scala2_R\Scala2_R_Ext_ADV_110119_MAIN

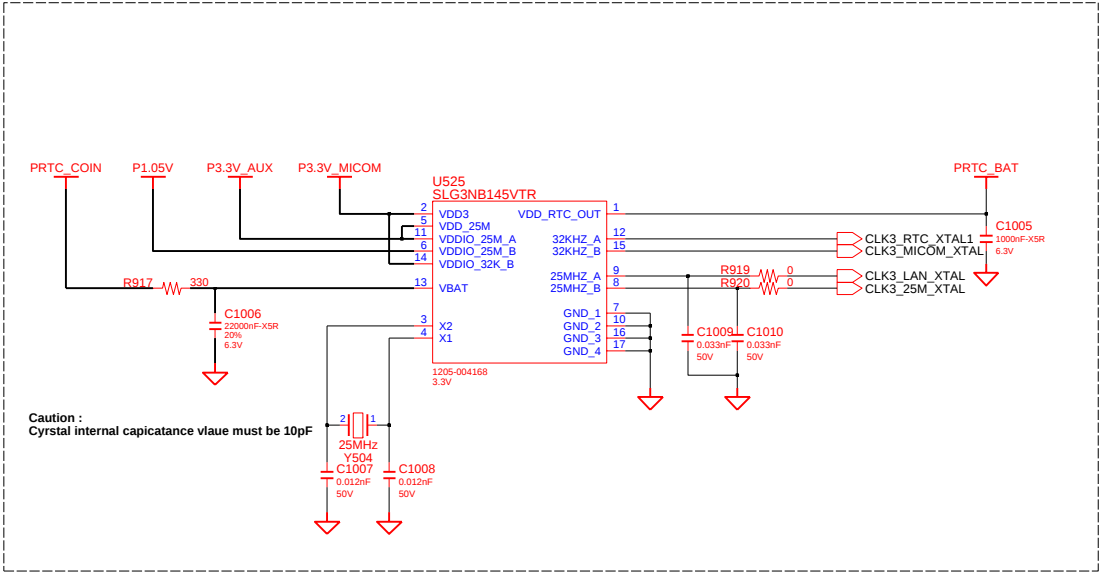
POWER DIAGRAM Rev 0.8



DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG
CHECK	SJ Wu	DEV. STEP	ADV	MAIN	POWER DIAGRAM	ELECTRONICS
APPROVAL	BC LEE	REV	rev. 0.1			PART NO.
MODULE CODE	undefined	LAST EDIT	January 20, 2011 18:59:20 PM			BA41-01XXXA
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CLOCK DISTIBUTOR



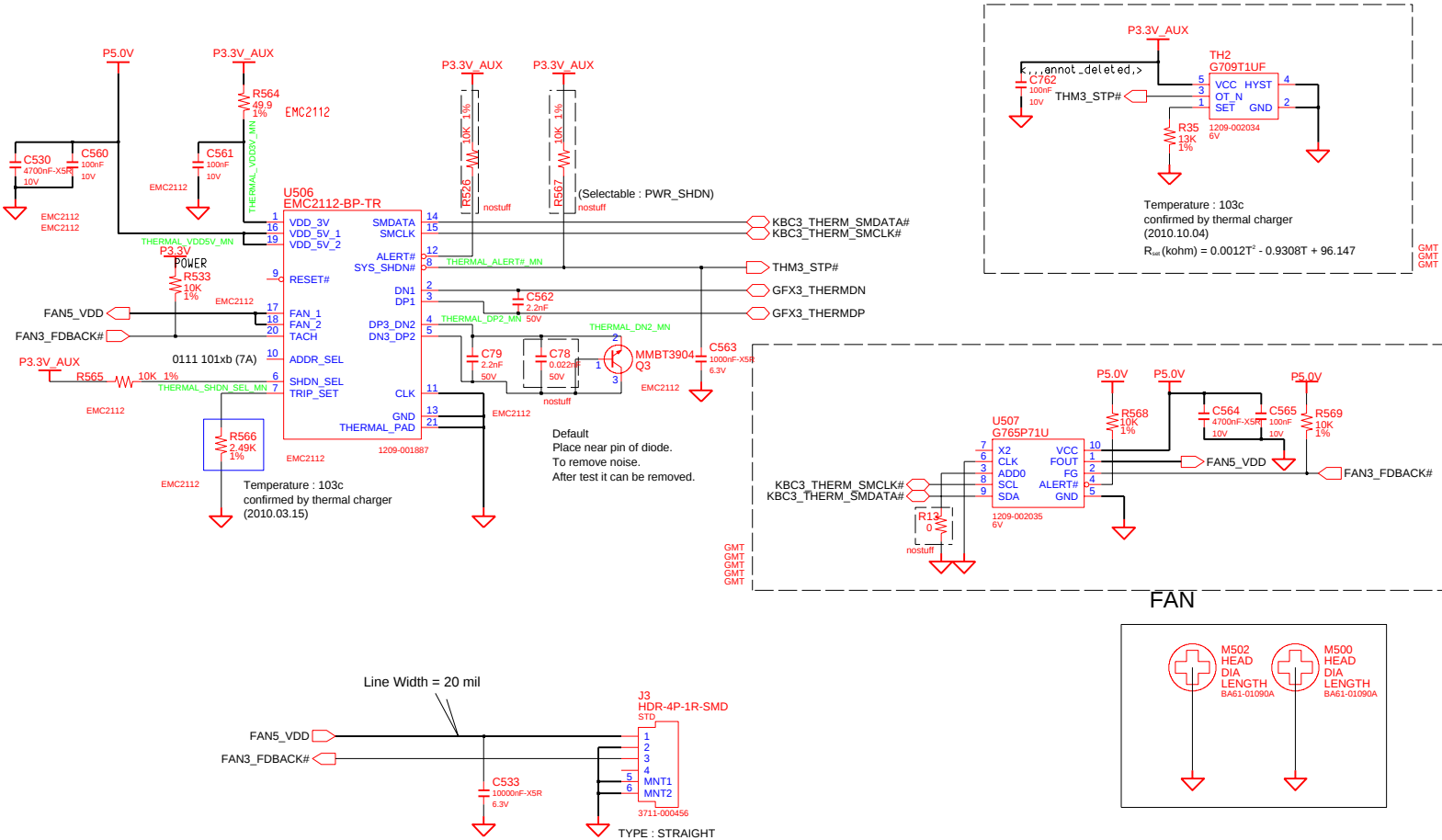
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK
GREENCLK

ENGINEER	DATE	TITLE	SAMSUNG ELECTRONICS PART NO. BA41-XXXXXX
DESIGNED BY	short_date	SCALA2-R_PV_MAIN	
CHANGED BY	DEV. STEP	Module Name	
FIG. CHK	REV	1.0	
LAST EDIT		last_edit	PAGE 6 OF XX

THERMAL SENSOR & FAN CONTROL

ADDRESSSEL MODE	
0	0101 111xb
✓ HIGH Z	0111 101xb (7A)
1	0101 110xb

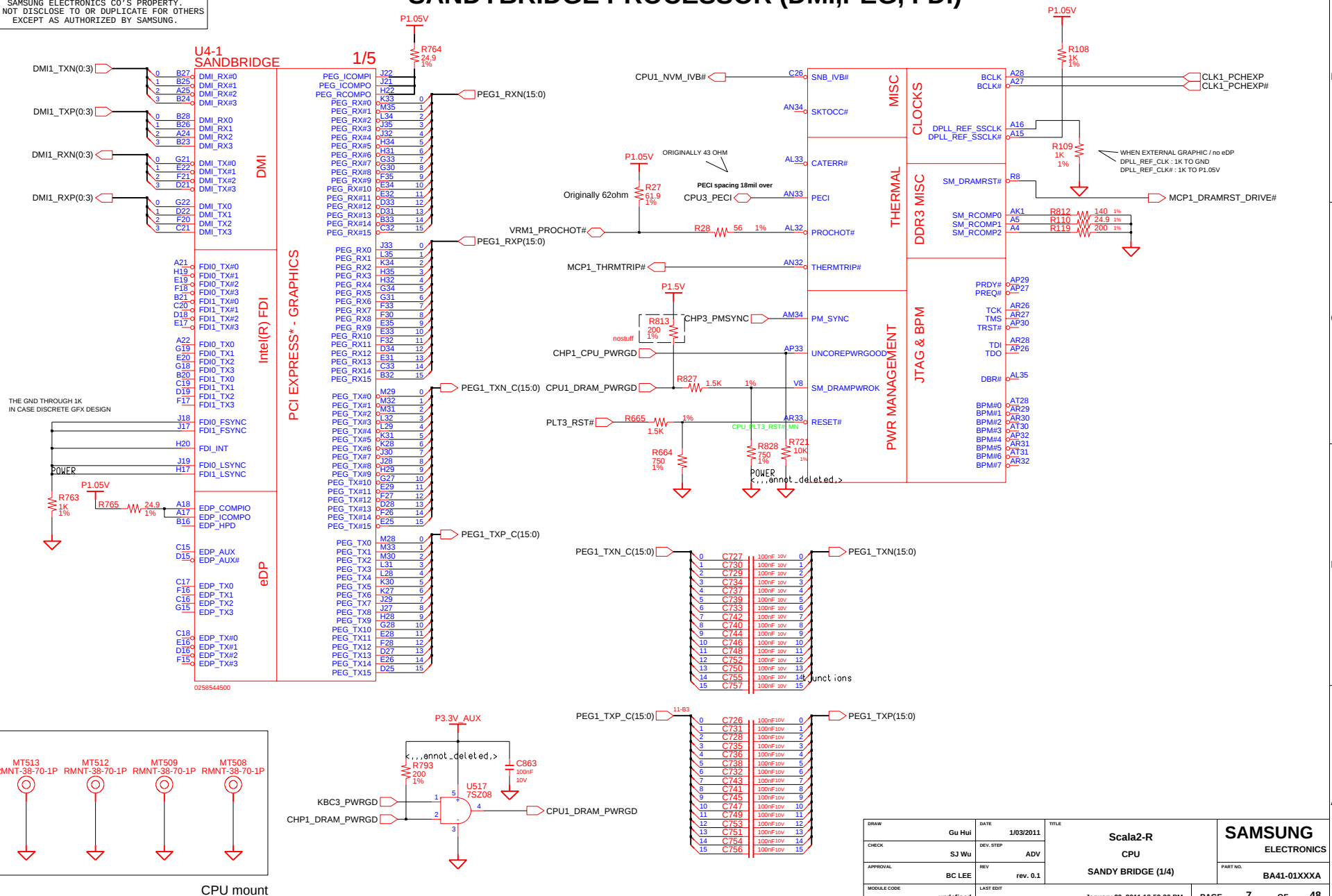
SHDNSEL MODE	
0	INTEL TR MODE
✓ HIGH Z	AMD CPU/DIODE MODE
1	EXT.DIODE 2 MODE



DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV		THERMAL SENSOR	
APPROVAL	BC LEE	REV	rev. 0.1		THERMAL SENSOR EMC2112	
MODULE CODE		LAST EDIT				
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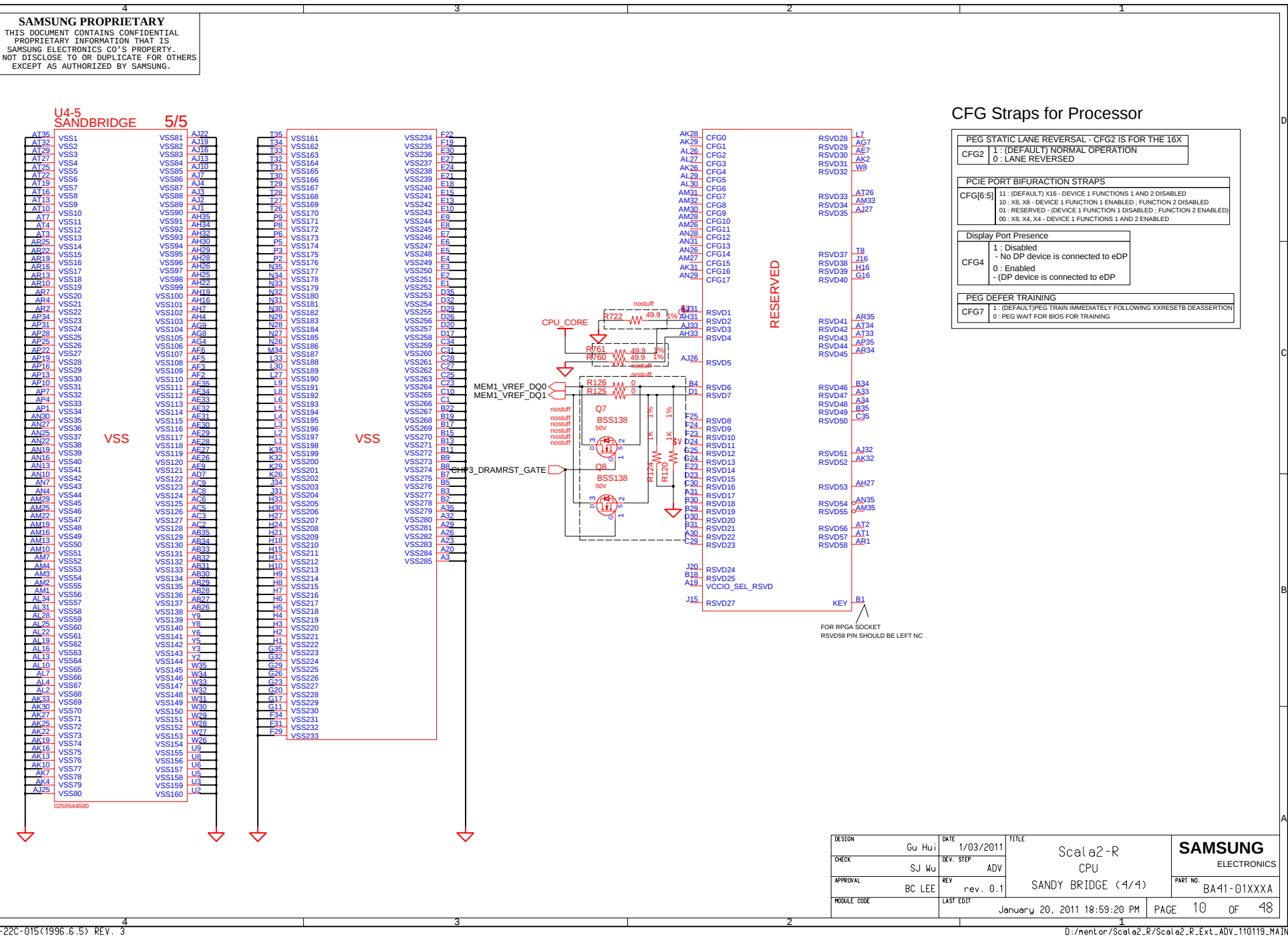
SANDYBRIDGE PROCESSOR (DMI,PEG, FDI)



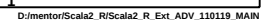
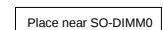
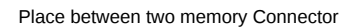
Segment	Relative Size
A	Largest
B	Second Largest
C	Third Largest
D	Smallest



D:/mentor/Scala2_R/Scala2_R Ext ADV 110119 MAIN



P/N : 3709-001656 (Foxconn)



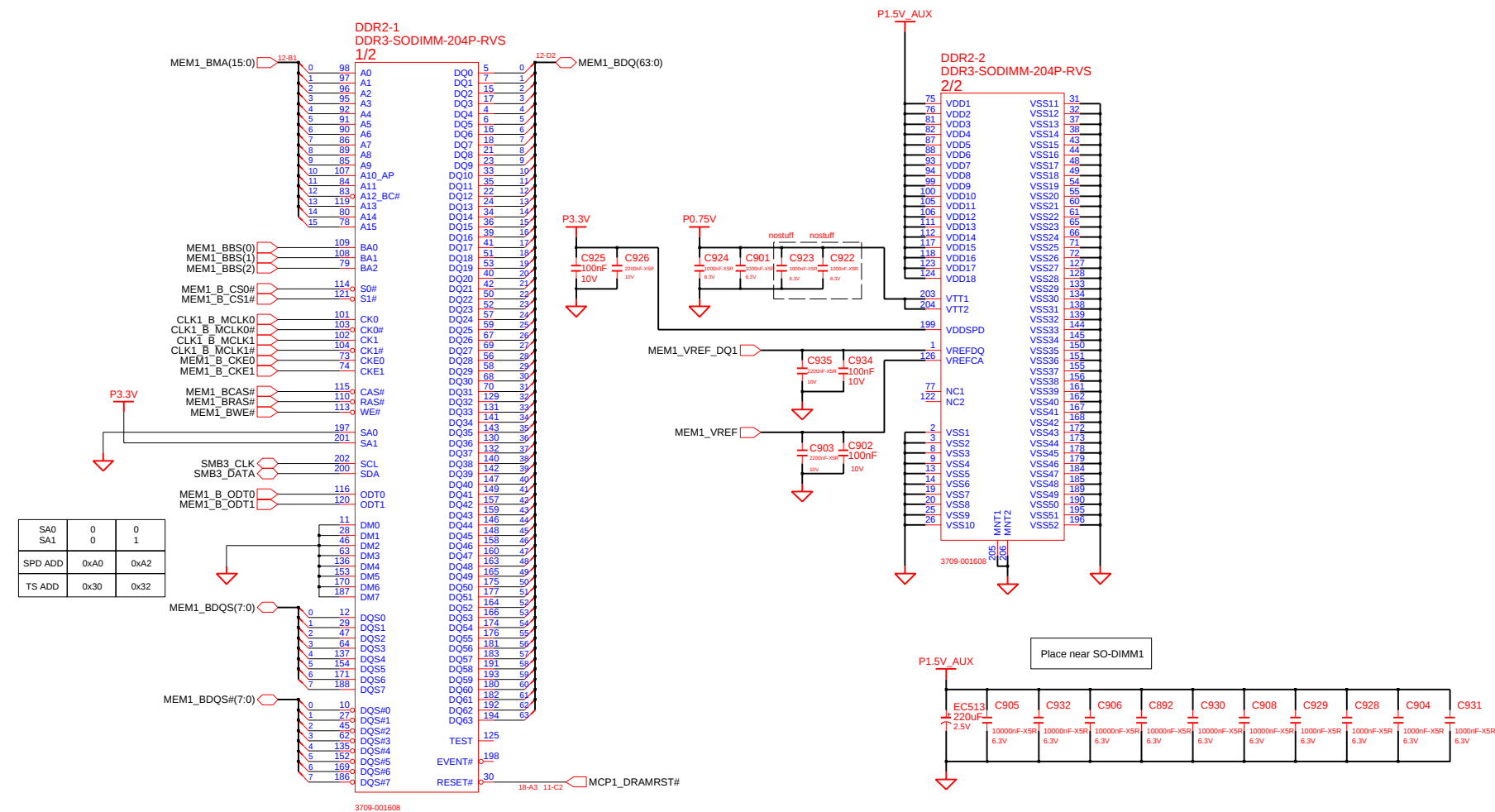
SO-DIMM#1 : 1st SO-DIMM

DDR SO-DIMM #1

Height : 4 mm (REVERSE)

P/N : 3709-001608 (CONCRAFT)

P/N : 3709-001654 (Foxconn)



Drawn	Gu Hui	Date	1/03/2011	Title	Scala2-R	SAMSUNG ELECTRONICS
Check	SJ Wu	Dev. Step	ADV		SODIMM B	
Approval	BC LEE	Rev	REV. 0.1		DDR3	Part No.
Module Code		Last Edit				BA41-01XXA
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P3.3V_AUX

P3.3V

2.2K R728

2.2K R86

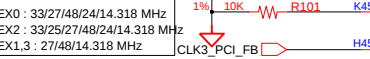
10K R62

CHP

E1

H1

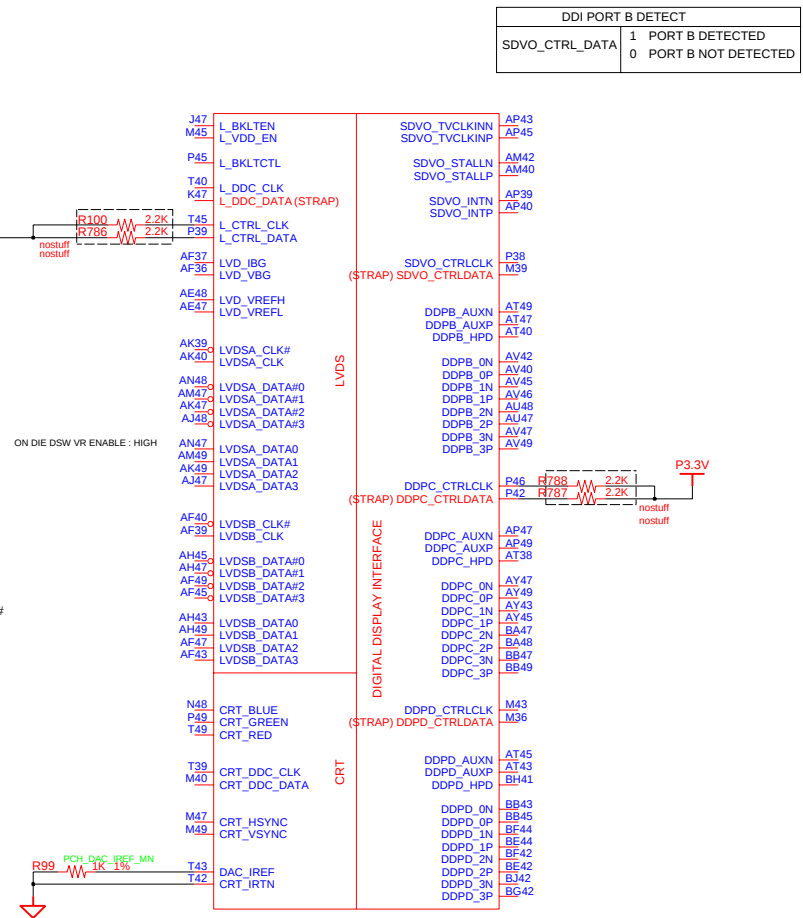
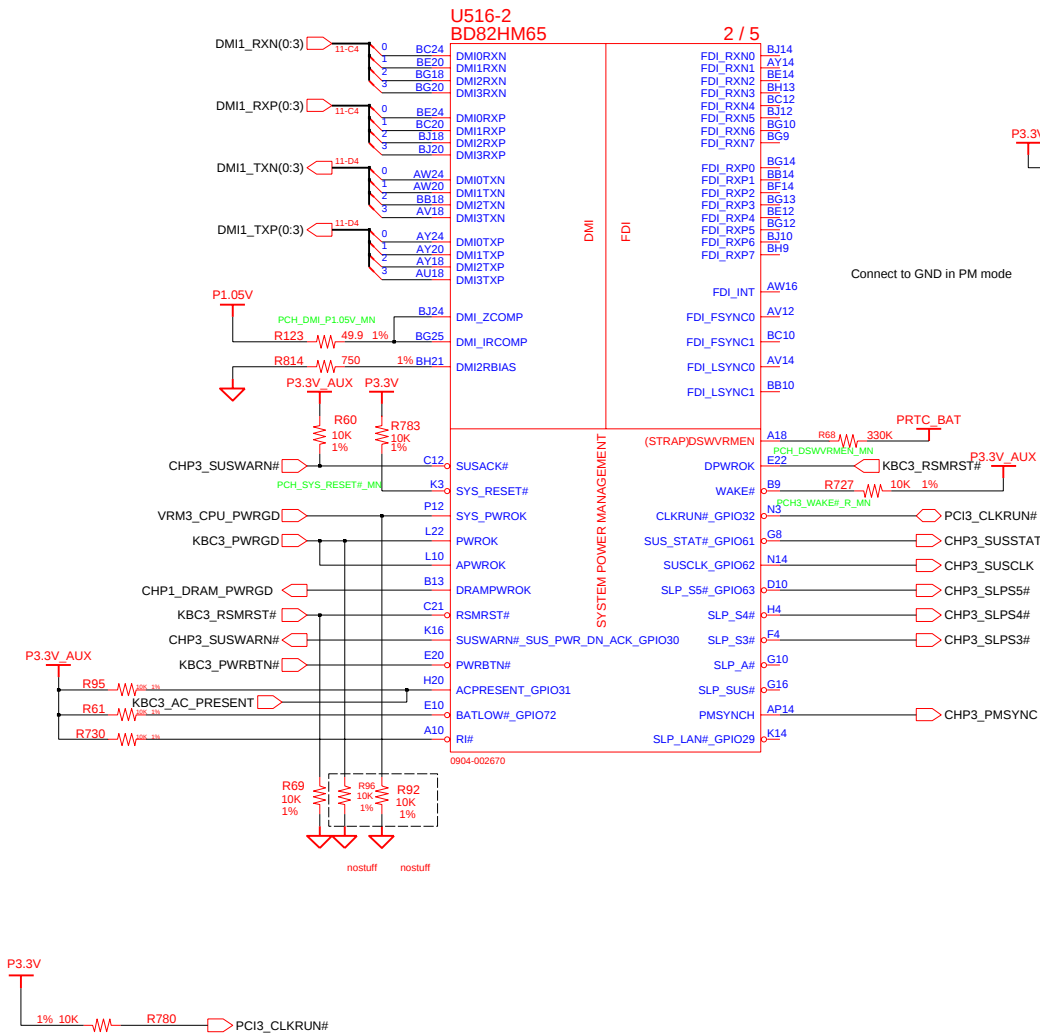
SMB3_CLK



DRAW	Gu Hui	DATE	1/03/2011	Scala2-R PCH COUGAR POINT(1/5)		SAMSUNG ELECTRONICS			
CHECK	SJ Wu	DEV. STEP	ADV						
APPROVAL	BC LEE	REV	rev. 0.1						
				PART NO.		BA41-01XXXX			
MODULE CODE		LAST EDIT		January 20, 2011 18:59:20 PM		PAGE	13	OF	48

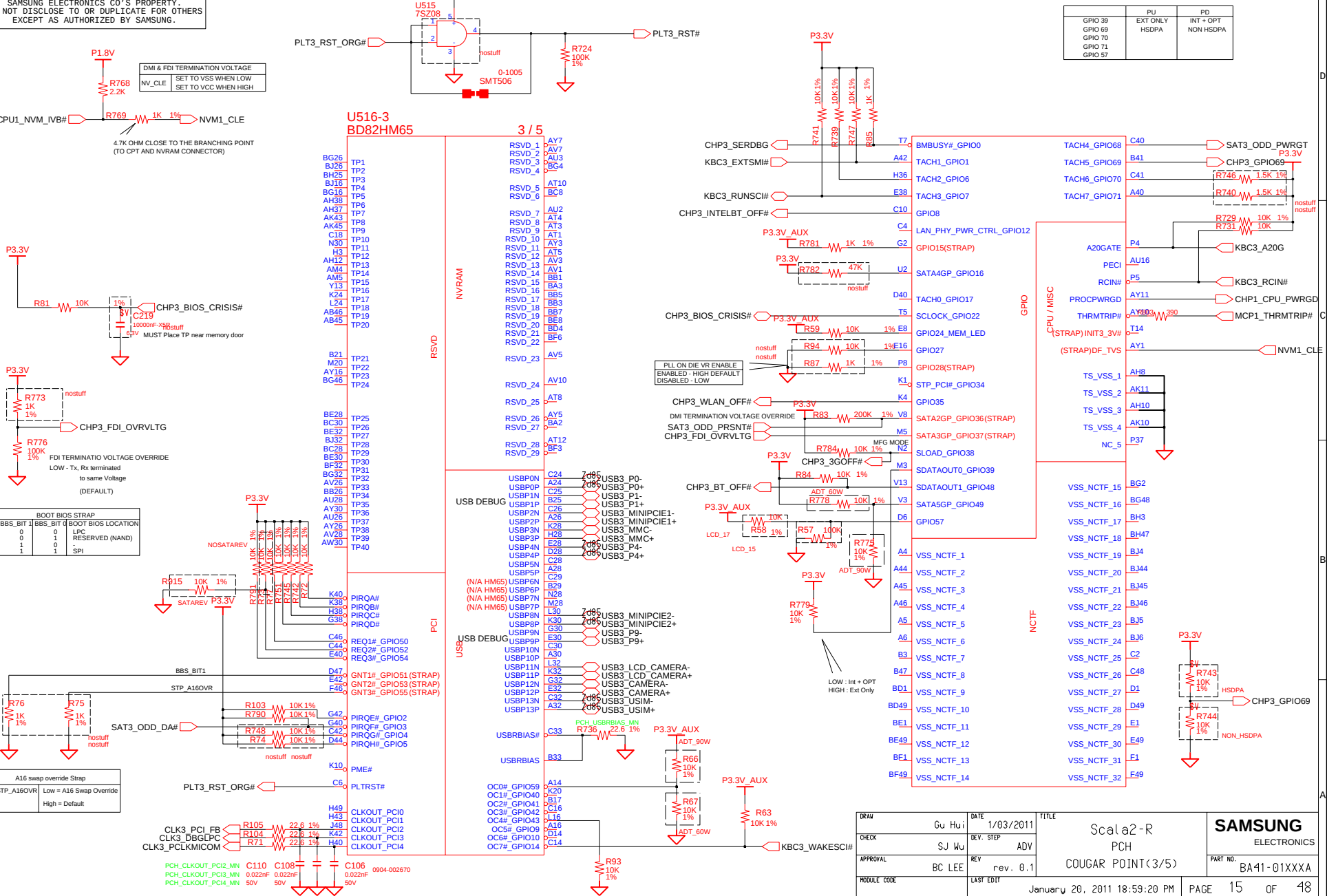
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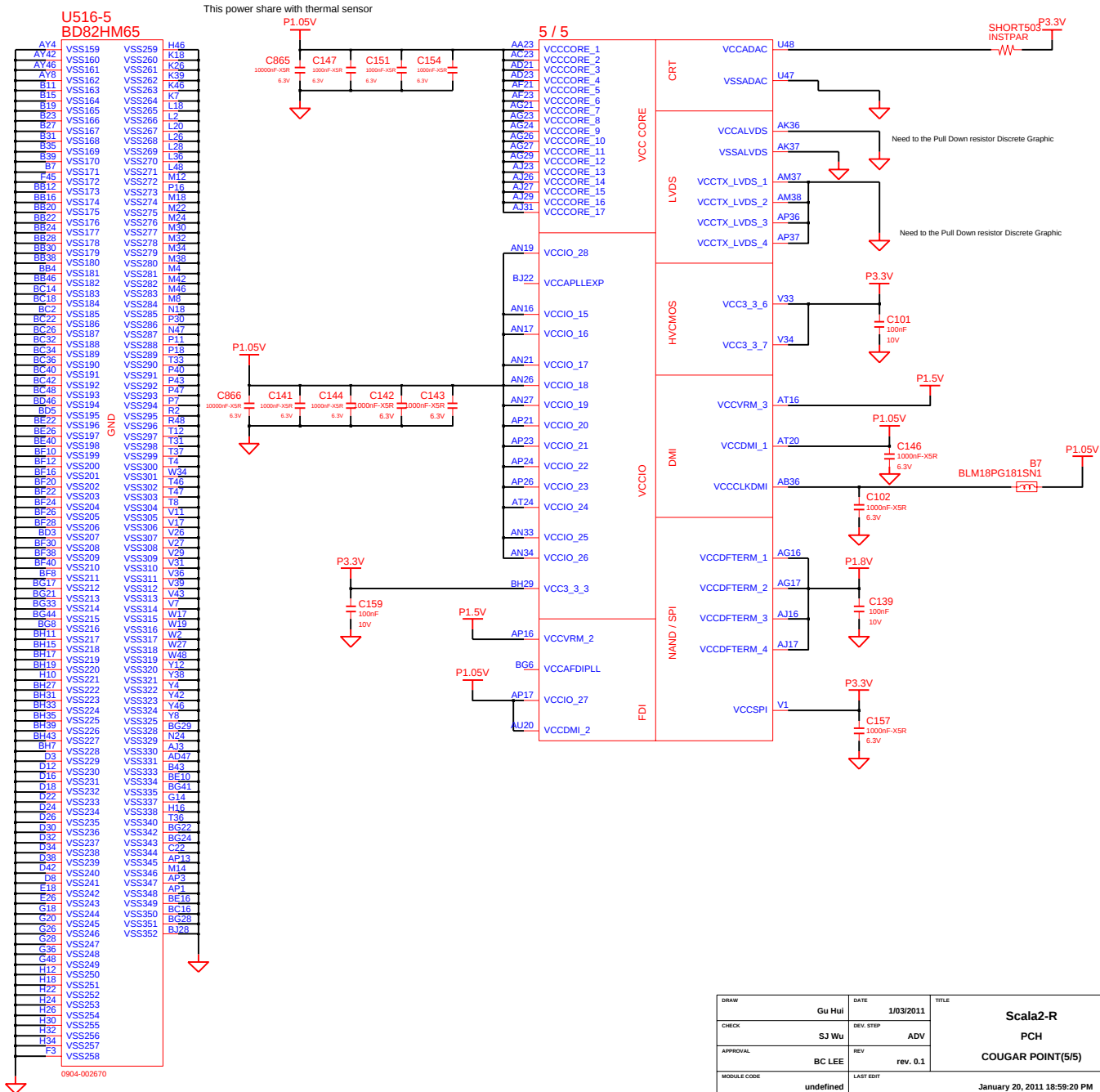
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CHECK	SJ Wu	DEV. STEP	ADV		PCH	ELECTRONICS
APPROVAL	BC LEE	REV	rev. 0.1		COUGAR POINT(2/5)	PART NO.
MODULE CODE		LAST EDIT				BA41-01XXXA
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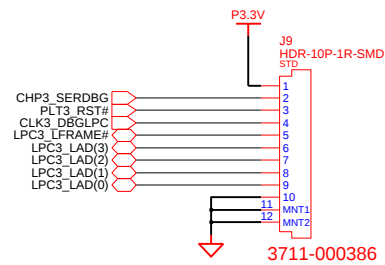
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APPROVAL	BC LEE	REV	rev. 0.1		COUGAR POINT(5/5)	PART NO.
MODULE CODE	undefined	LAST EDIT			January 20, 2011 18:59:20 PM	BA41-01XXXXA
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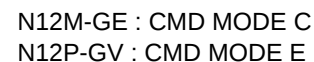
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80H PORT DEBUG

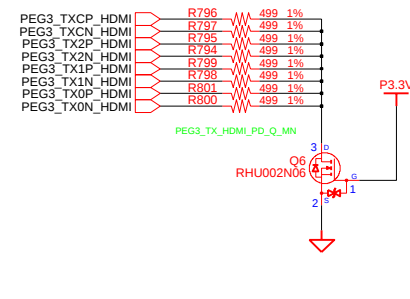
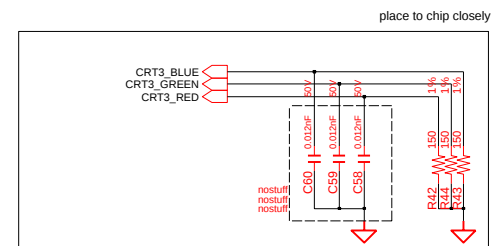
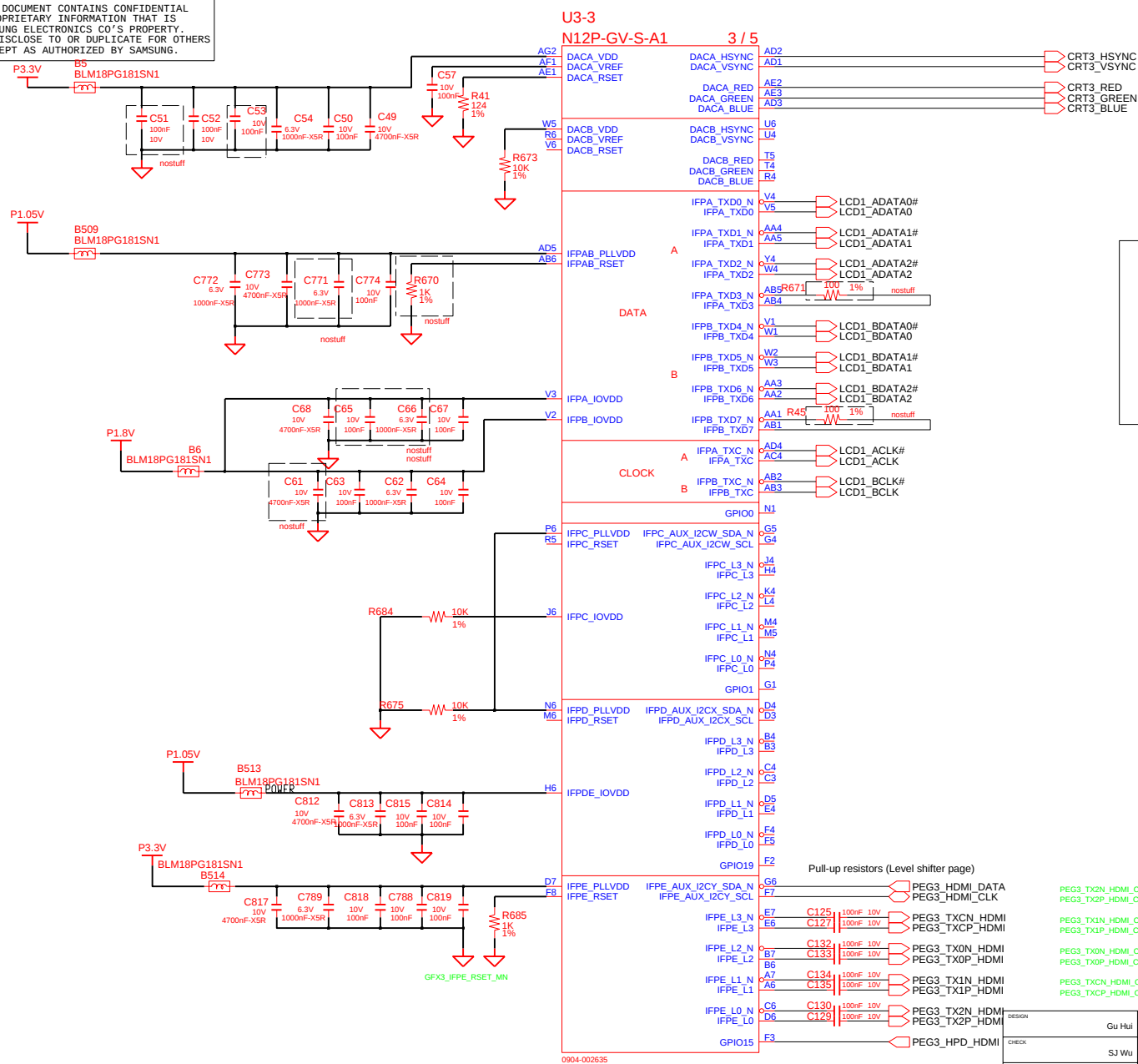


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APPROVAL	BC LEE	REV	rev. 0.1			
MODULE CODE		LAST EDIT	January 20, 2011 18:59:20 PM	PAGE	18	OF 48

P1.5V

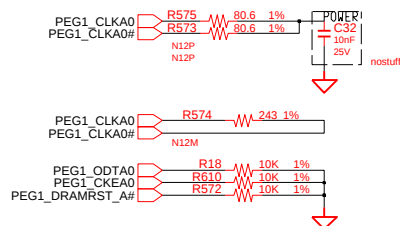
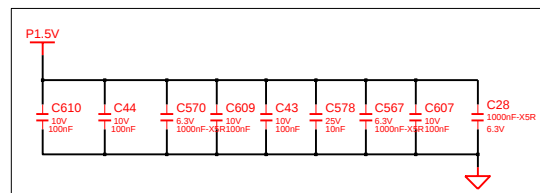
D:/mentor/Scala2_R/Scala2_R_Ext_ADV_110119_MAIN

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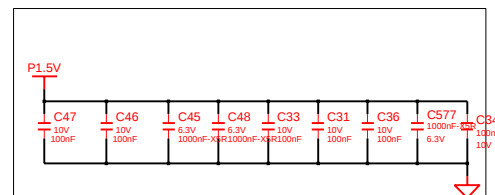


MATERIAL	DESIGN	Gu Hui	DATE	1/03/2011	Scala2-R N12P_40NM(3/4) N12P_40NM(3/4)	SAMSUNG ELECTRONICS				
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	APPROVAL	BC LEE	REV	REV. 0.1						
	PART NO.		BA41-01XXXX							
MODULE CODE			LAST EDIT			January 20, 2011 18:59:20 PM	PAGE	21	OF	48

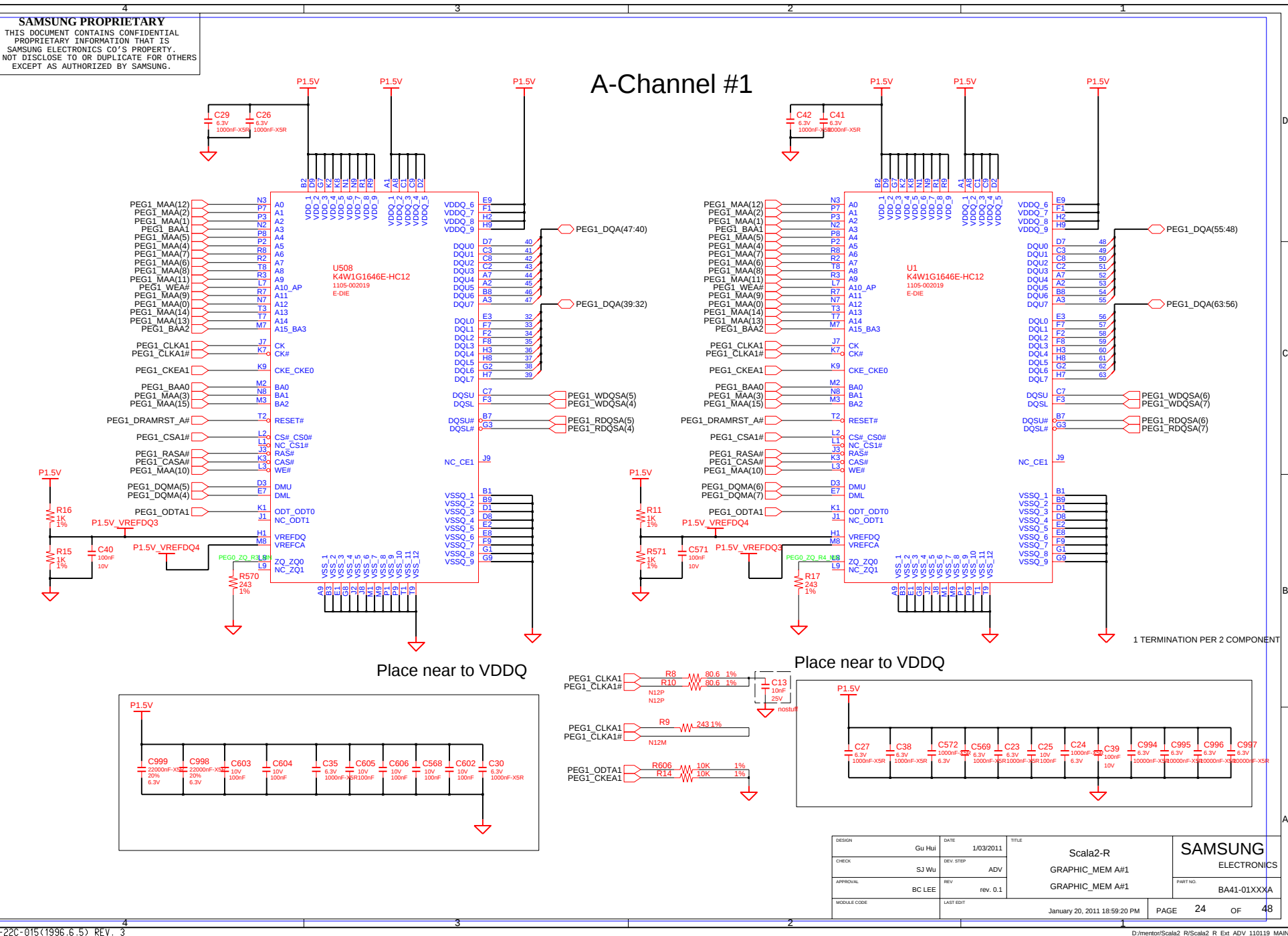
A-Channel #0



Place near to VDDQ



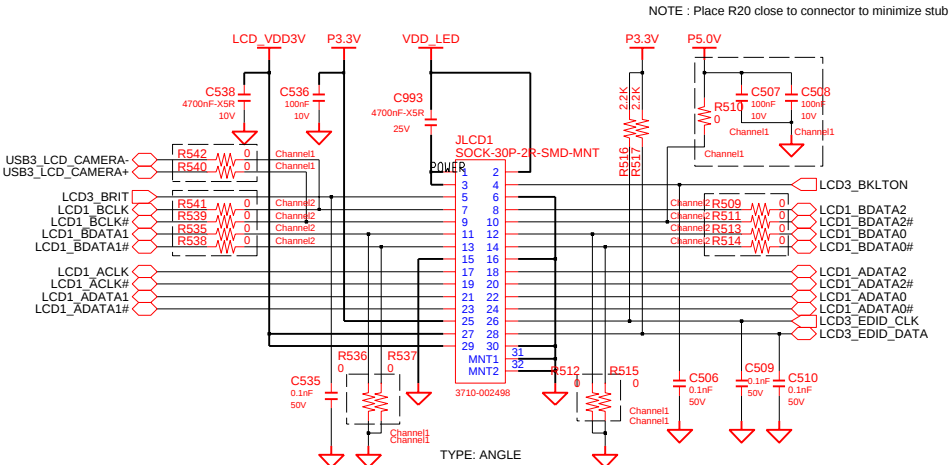
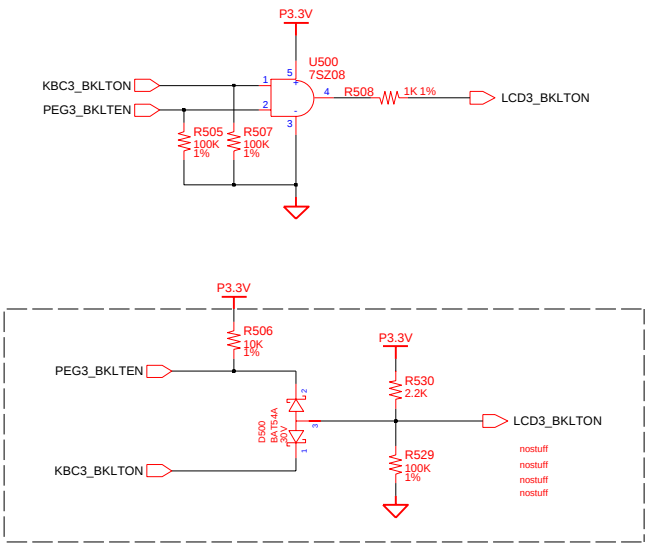
-22C-015(1996.6.5) REV. 3



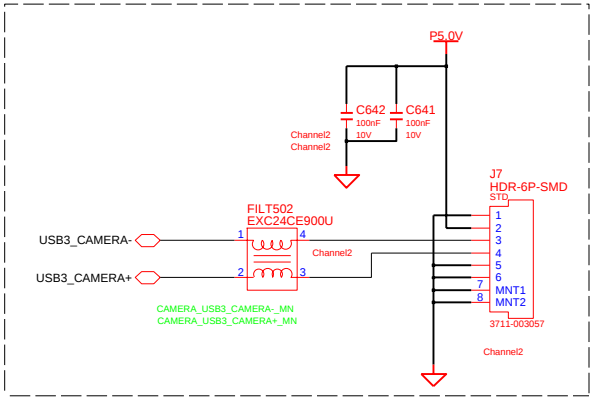
LVDS LOGIC

1Ch. LCD Connector + CAMERA

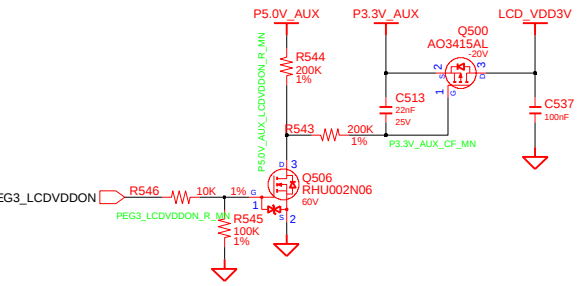
Backlight On



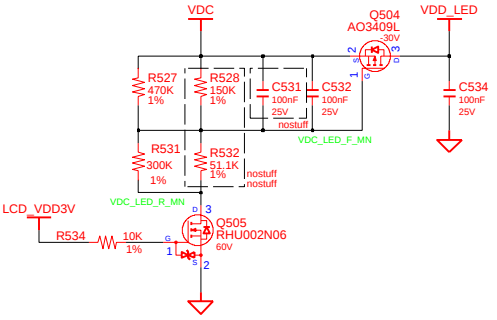
CAMERA CONN FOR 2ch LVDS



LCD Power



LED Power

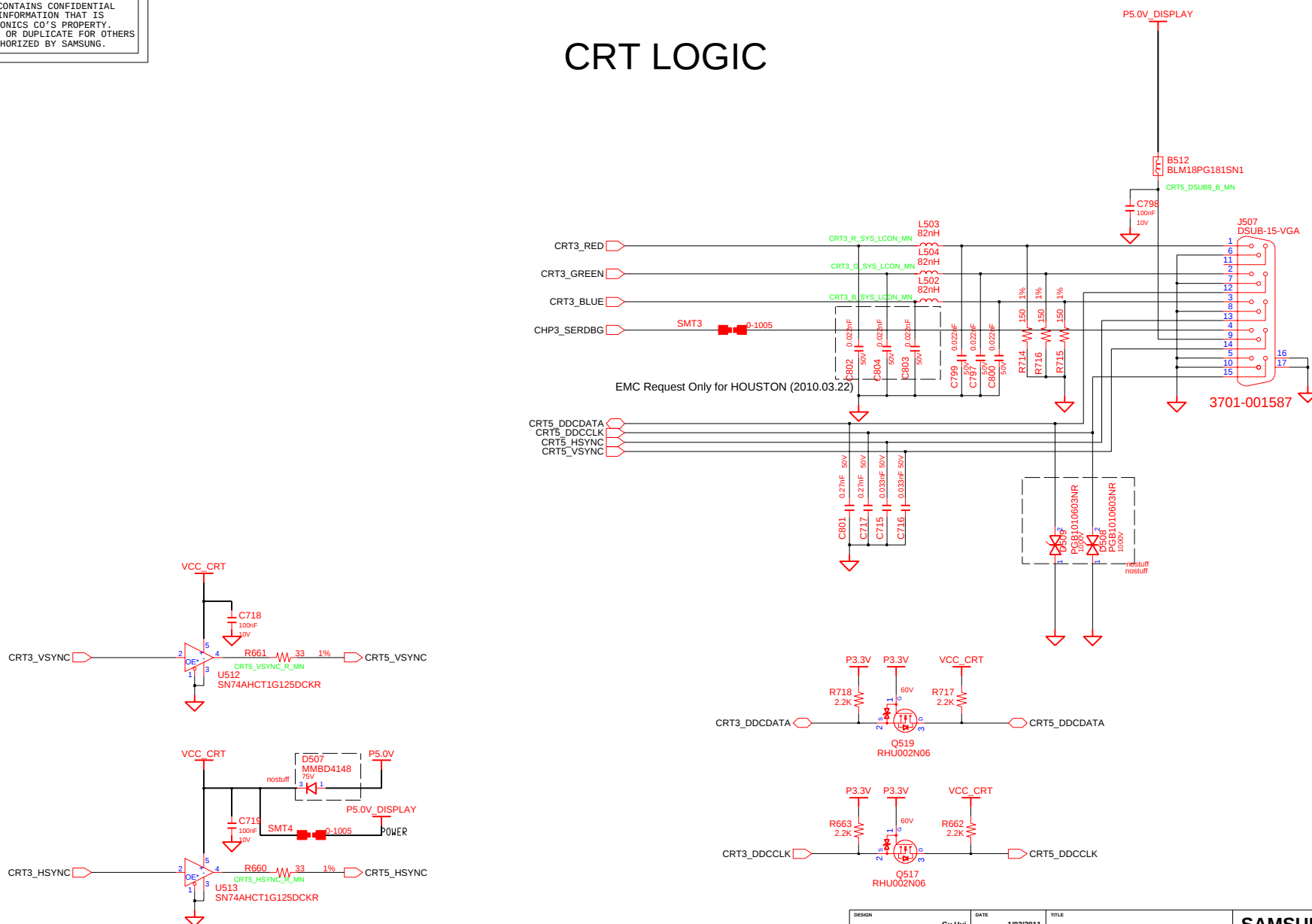


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CHECK	SJ Wu	DEV. STEP	ADV	GRAPHICS_IF	
APPROVAL	BC LEE	REV	rev. 0.1	LVDS	
MODULE CODE		LAST EDIT			
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SAMSUNG
ELECTRONICS

PART NO.
BA41-01XXXXA

CRT LOGIC

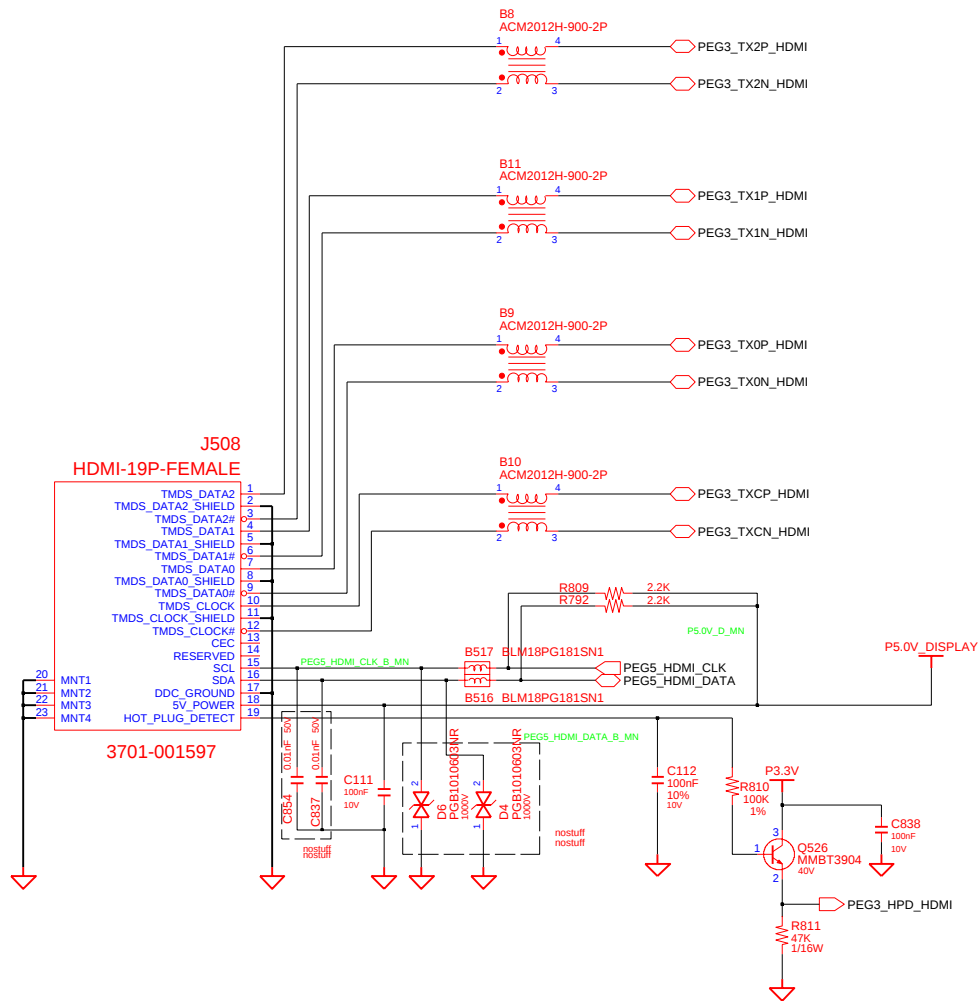
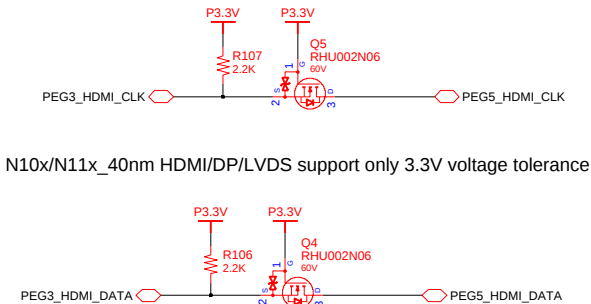


DESIGN	Gu Hui	DATE	1/03/2011	Scala2-R GRAPHICS_IF CRT	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV		
APPROVAL	BC LEE	REV	rev, 0.1		
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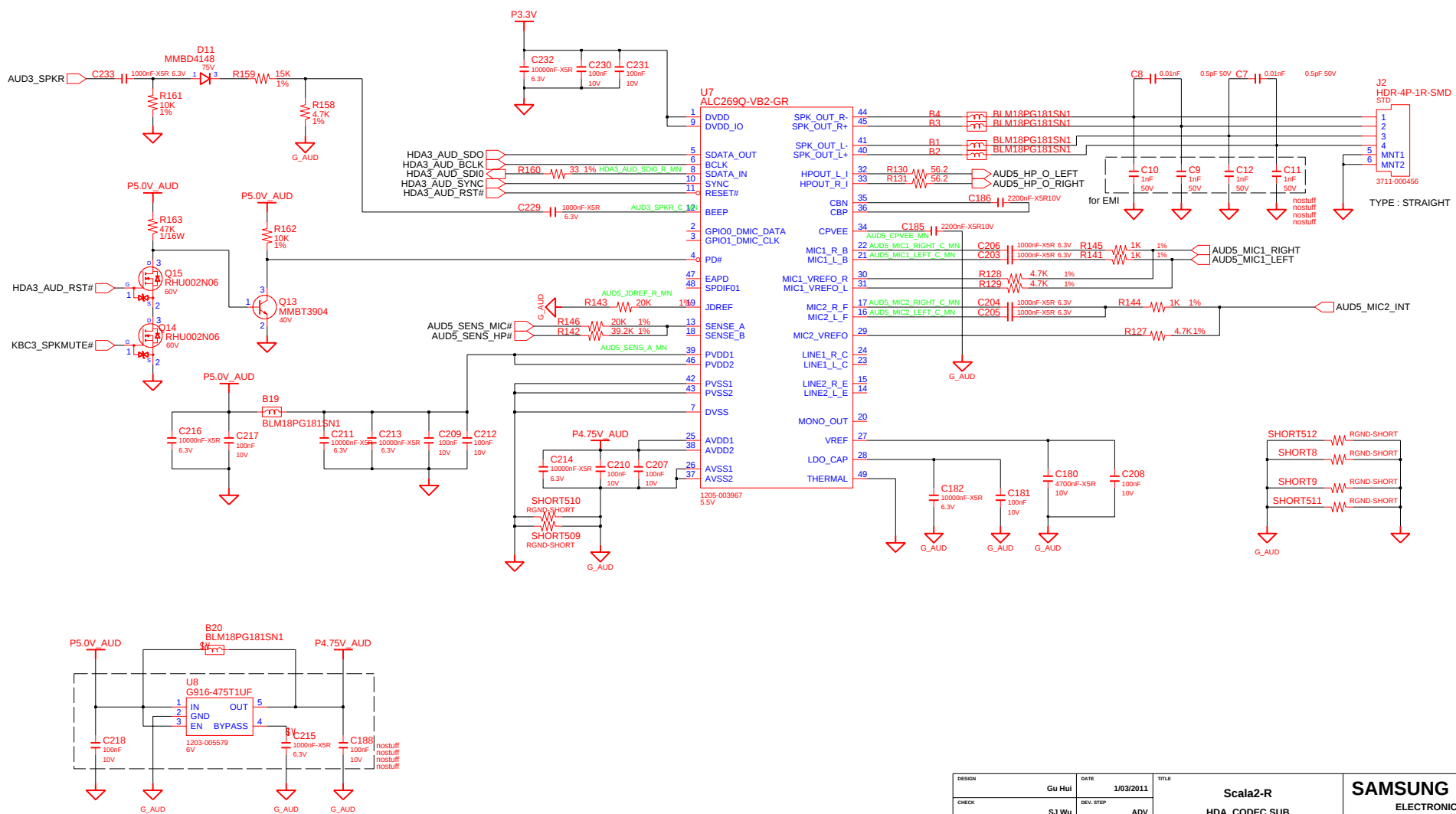
HDMI Graphic

FOR HDMI VERIFICATION TEST



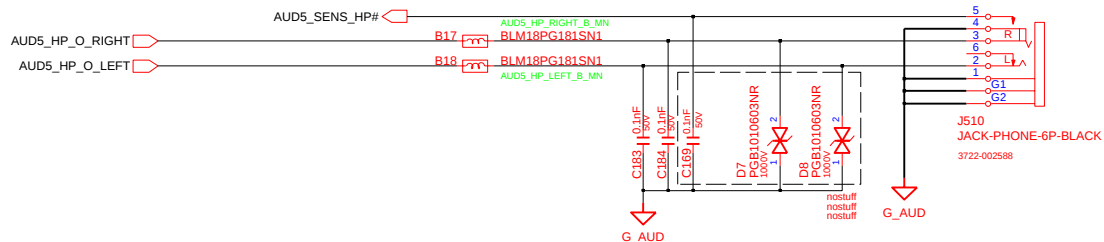
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APPROVAL	BC LEE	REV	rev. 0.1	HDMI		
MODULE CODE		LAST EDIT	January 20, 2011 18:59:20 PM			
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HD AUDIO

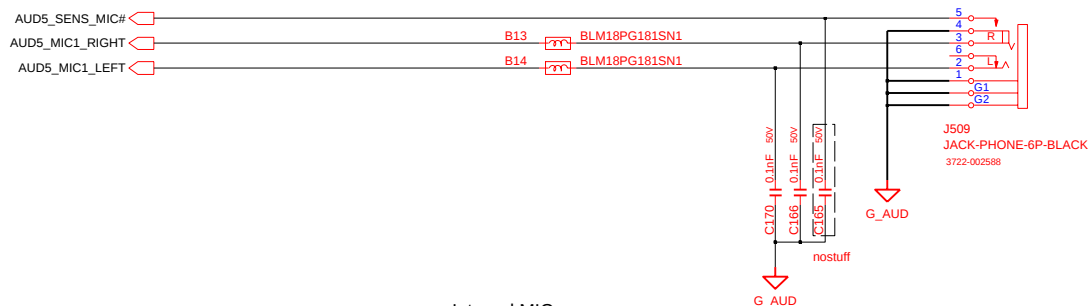


DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV		HDA_CODEC SUB	
APPROVAL	BC LEE	REV	rev. 0.1		AUDIO CODEC ALC269 SUB	
MODULE CODE		LAST EDIT				
					January 20, 2011 18:59:20 PM	PAGE 28 OF 48

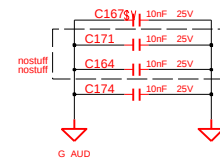
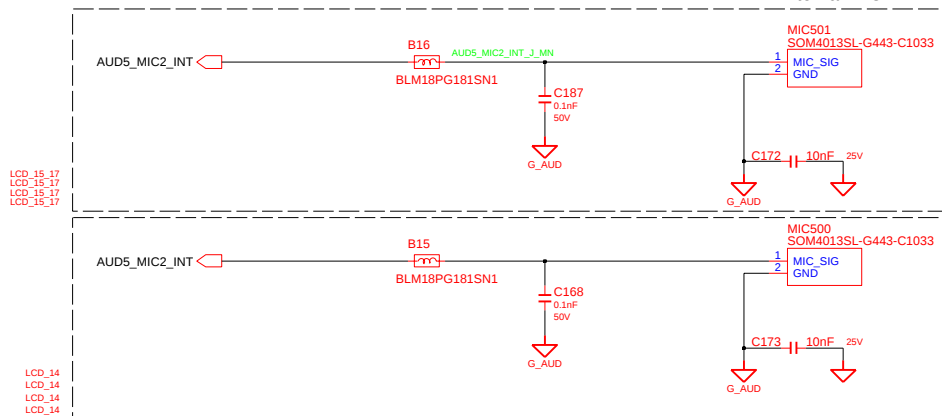
HEADPHONE



MIC JACK

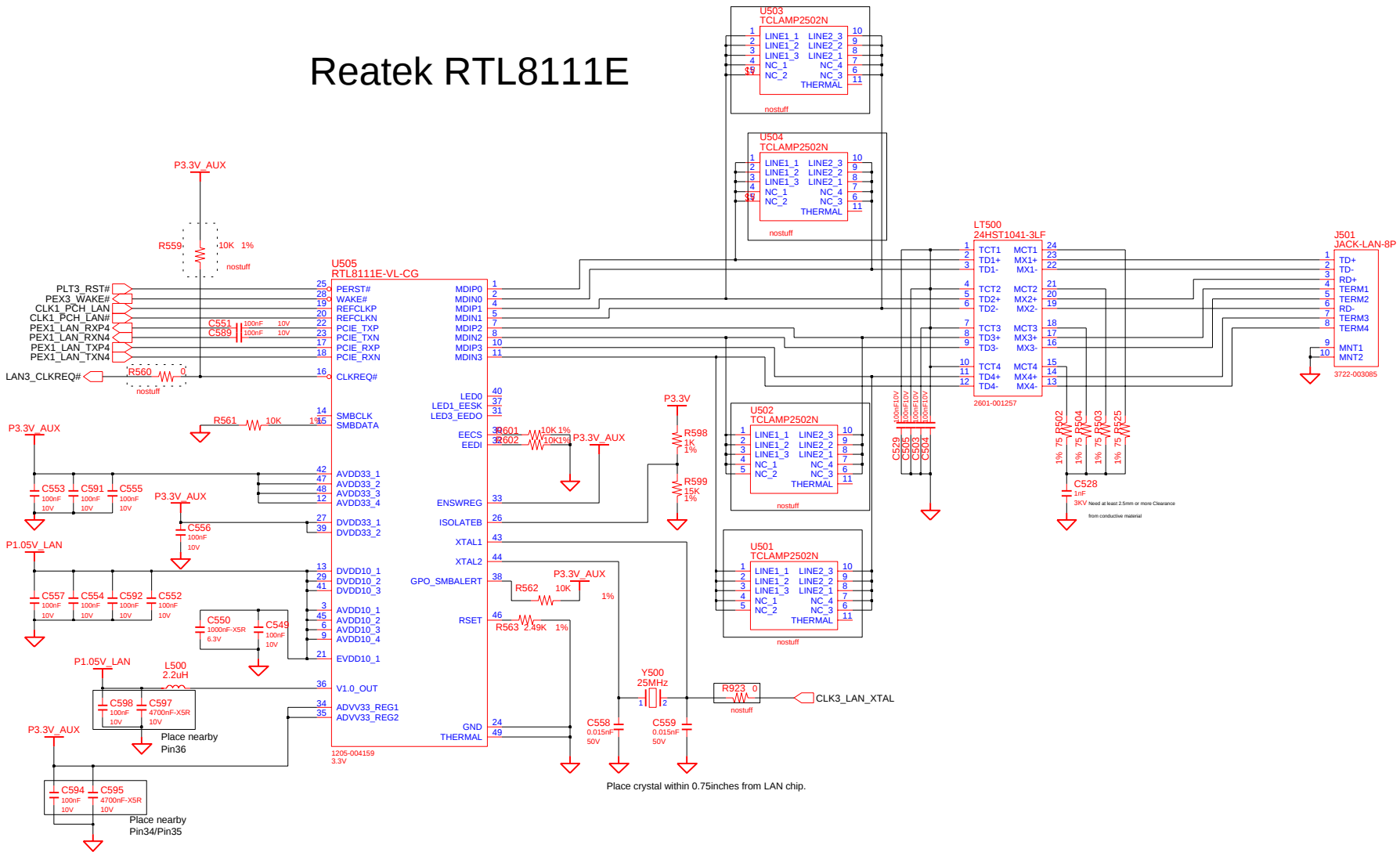


Internal MIC



DESIGN	Gu Hui	DATE	1/03/2011	TITLE Scala2-R HDA_CODEC & LED SUB AUDIO JACK & LED SUB	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV		
APPROVAL	BC LEE	REV	rev. 0.1		
				PART NO.	BA41-01XXXXA
MODULE CODE	LAST EDIT			January 20, 2011 18:59:20 PM	PAGE 29 OF 48

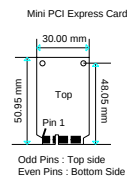
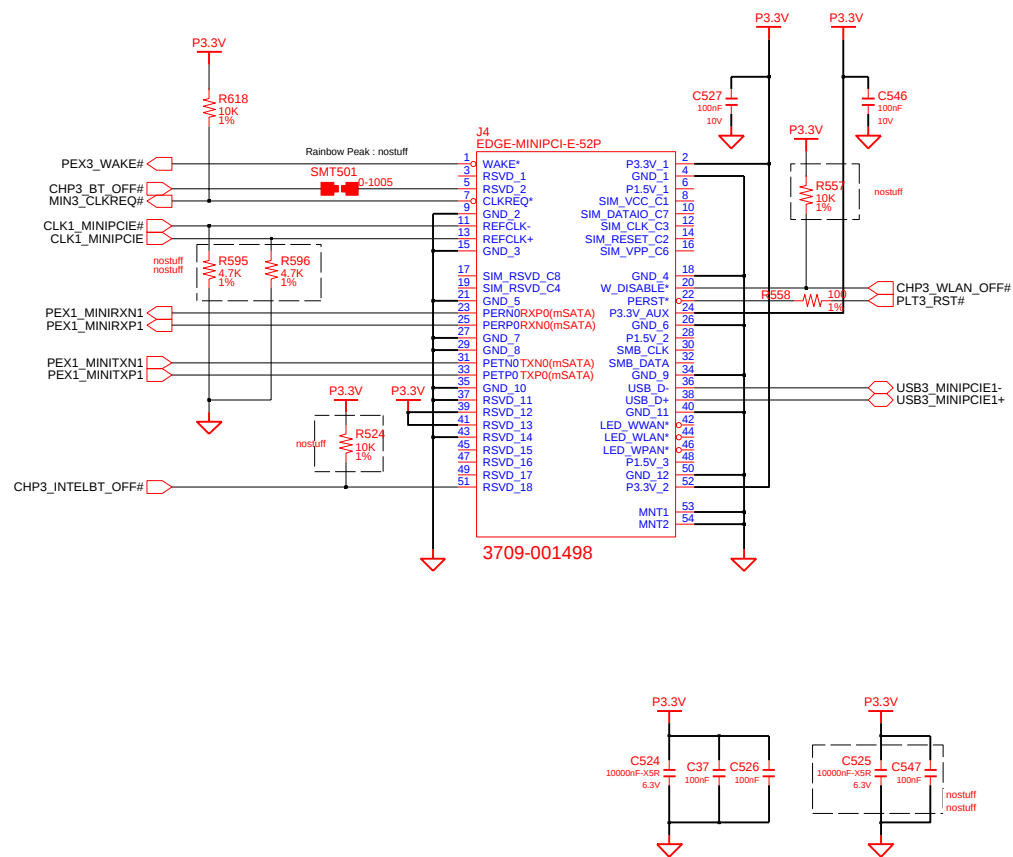
Reatek RTL8111E



DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV	LAN	LAN_Realttek_RTL8111	
APPROVAL	BC LEE	REV	rev. 0.1			
MODULE CODE		LAST EDIT		January 20, 2011 18:59:20 PM	PAGE 30 OF 48	

3

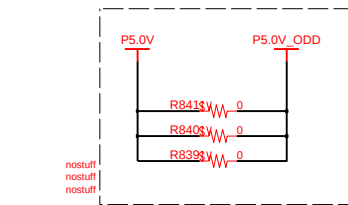
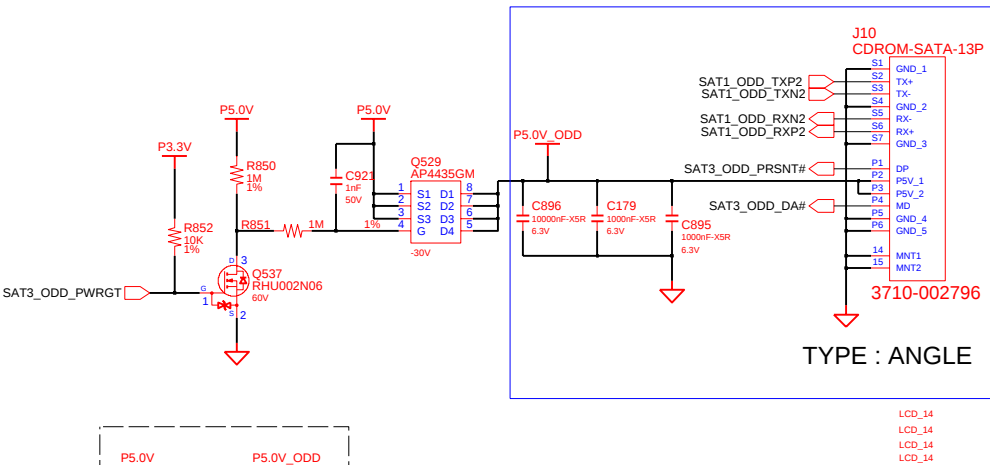
WLAN, 4mm



DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R MINI_PCIE_CONN WLAN	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV			
APPROVAL	BC LEE	REV	rev. 0.1			
				PART NO.	BA41-01XXXXA	
MODULE CODE	LAST EDIT			January 20, 2011 18:59:20 PM	PAGE	31 OF 48

SATA I/F CONN

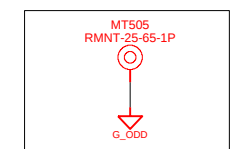
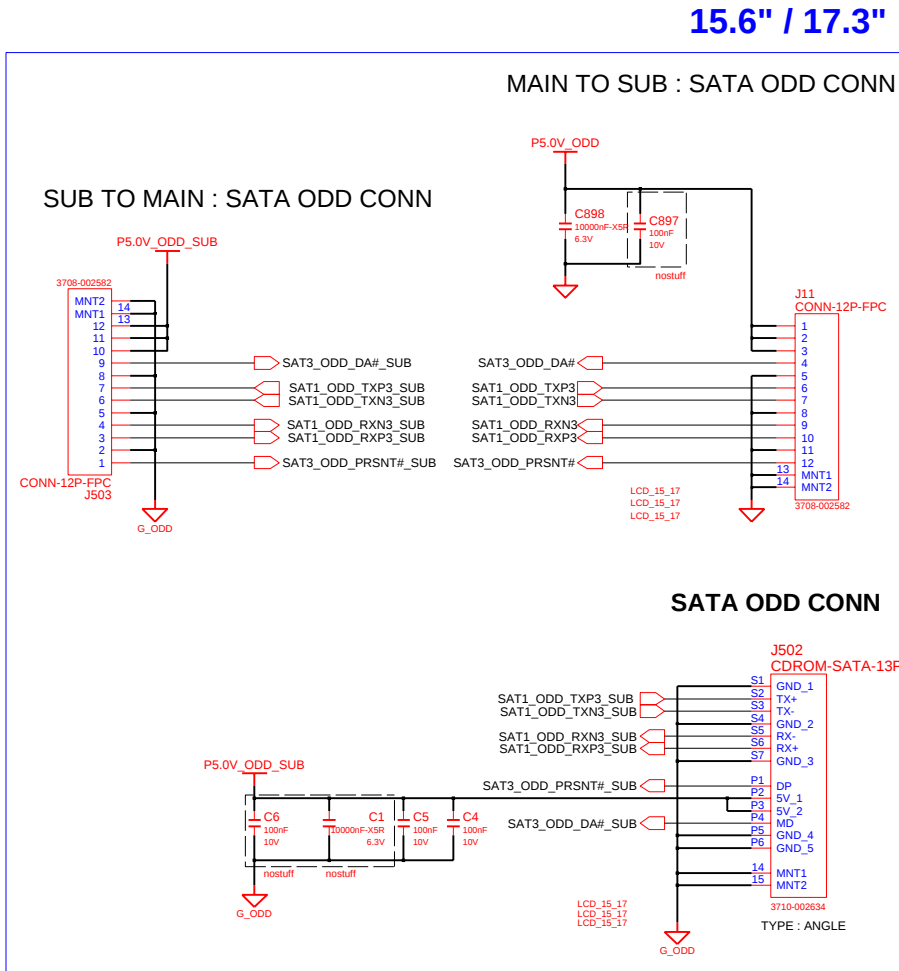
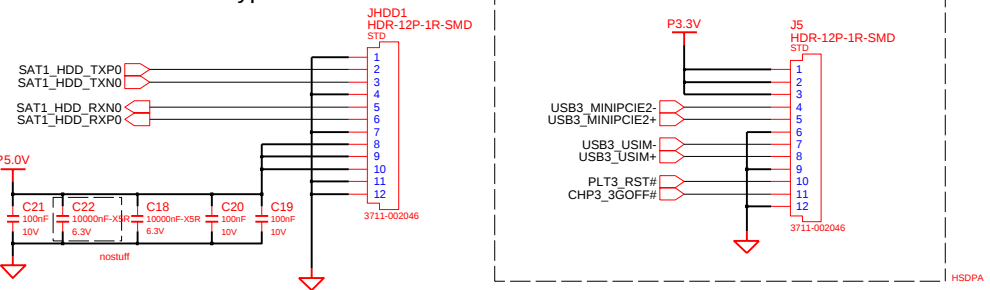
SATA ODD CONN



SATA HDD CONN

Cable Connector Type

MAIN to HSDPA SUB



ODD sub board mount hole

DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV	SATA_DEVICES		
APPROVAL	BC LEE	REV	rev. 0.1	SATA I/F Conn		
MODULE CODE		LAST EDIT				
January 20, 2011 18:59:20 PM						PAGE 32 OF 48

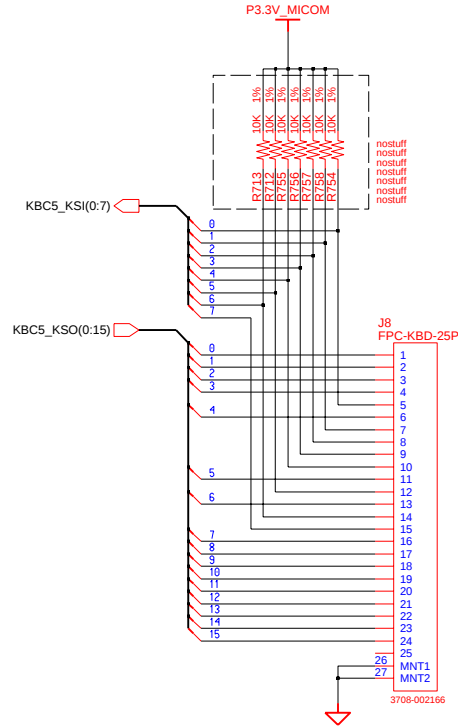
MAIN BOARD (MICOM)

3

Micom Glue Logic

2

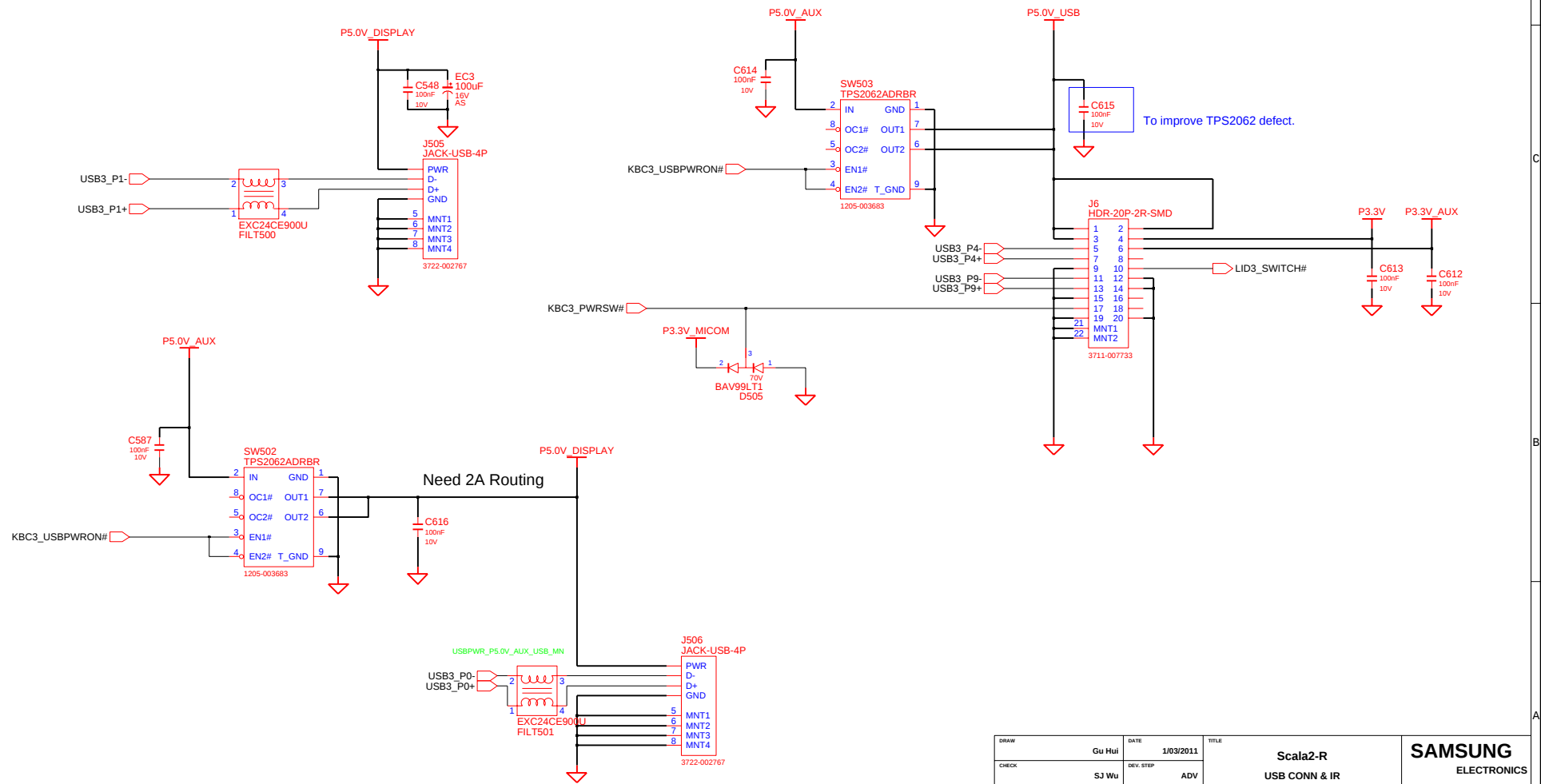
KEYBOARD



DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG
CHECK	SJ Wu	DEV. STEP	ADV	MICOM GLUE LOGIC	MICOM GLUE LOGIC	ELECTRONICS
APPROVAL	BC LEE	REV	REV. 0.1	MICOM GLUE LOGIC	PART NO.	BA41-01XXXA
MODULE CODE	LAST EDIT		January 20, 2011 18:59:20 PM		PAGE	34 OF 48

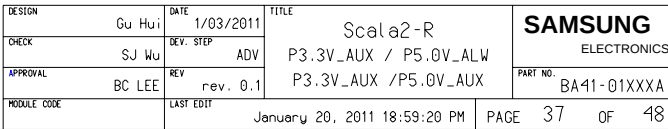
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POWER S/W SUB B'D CONNECTOR
MAIN to SUB

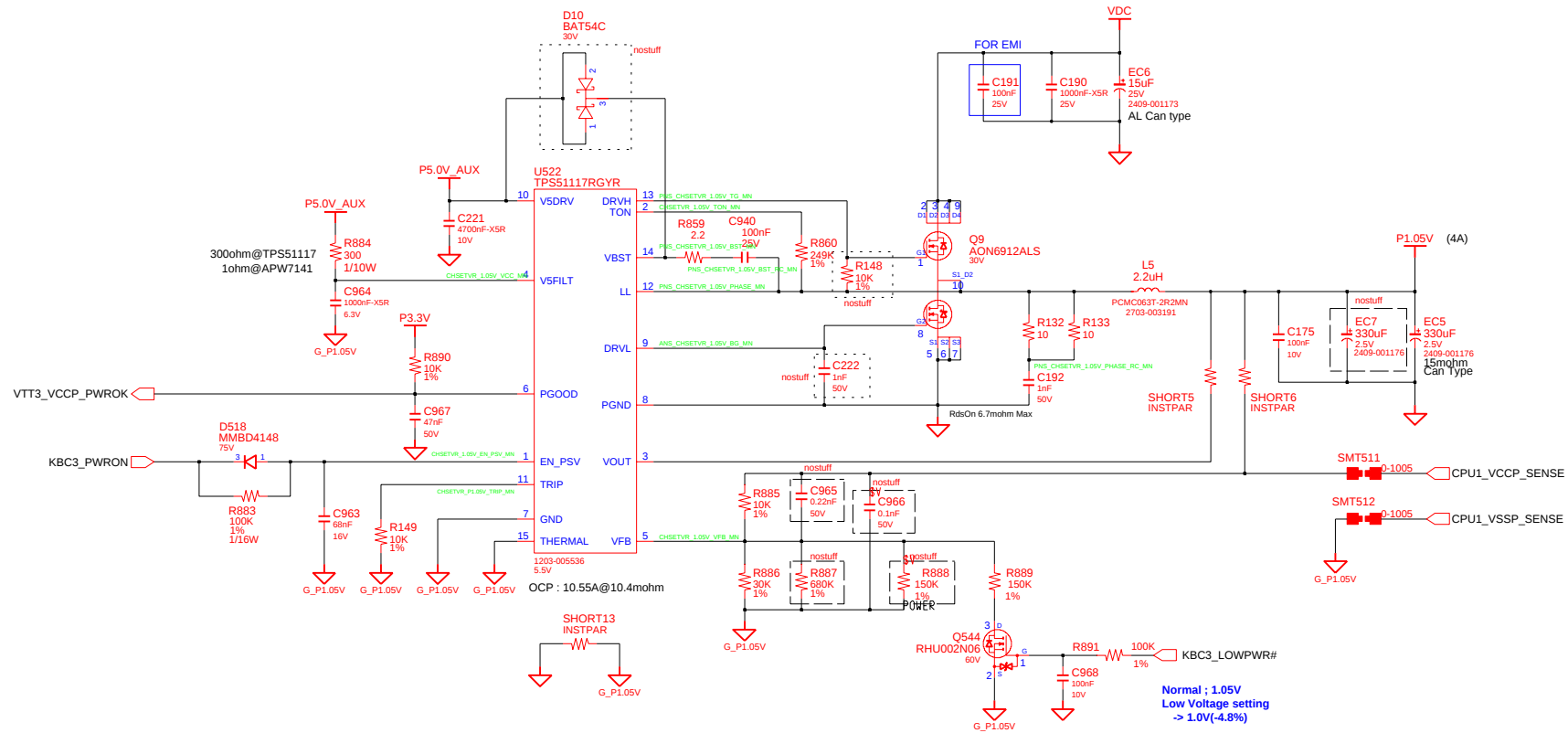


DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV	USB CONN & IR		
APPROVAL	BC LEE	REV	rev. 0.1	USB & IR	PART NO. BA41-01XXXA	
MODULE CODE		LAST EDIT		January 20, 2011 18:59:20 PM	PAGE 35 OF 48	

P3.3V_AUX & P5.0V_AUX

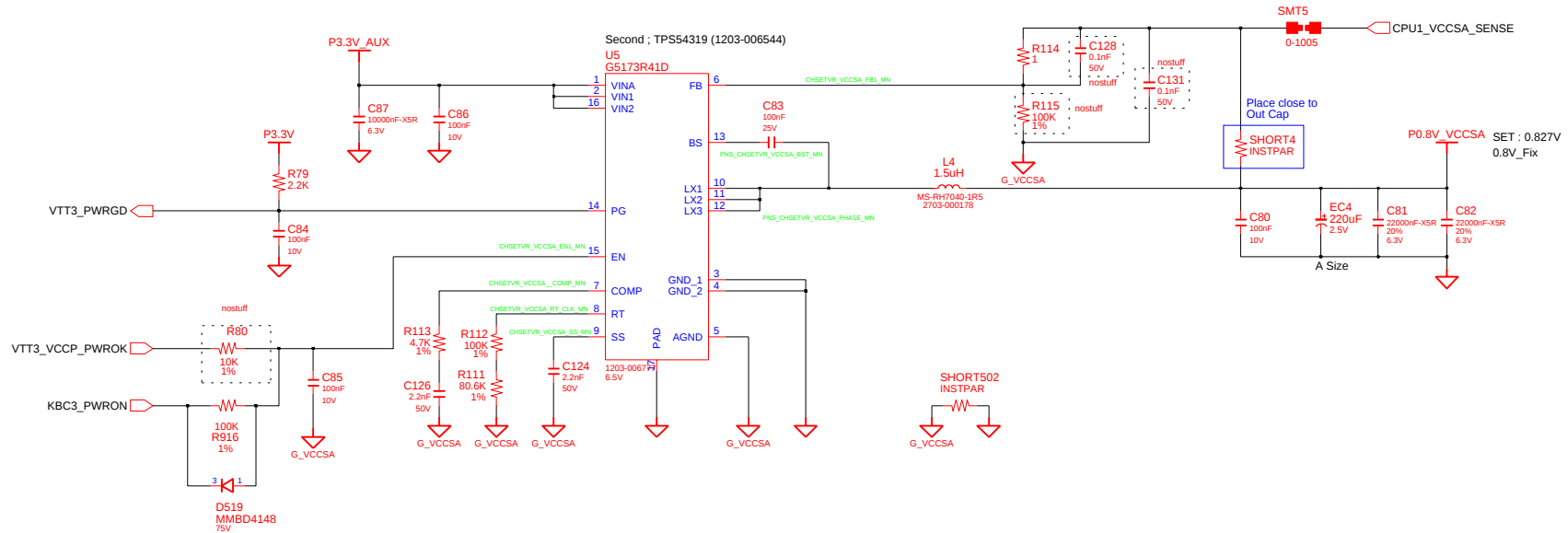


CHIPSET POWER(P1.05V)

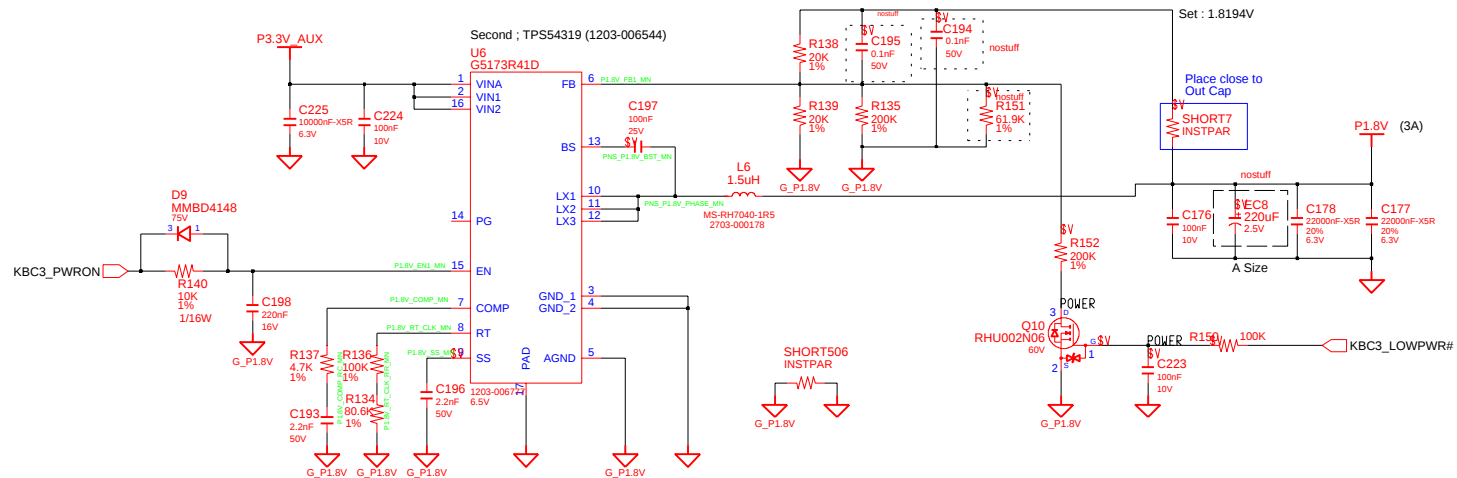


DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R P1.05V P1.05V(Chipset Power)	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV			PART NO. BA41-01XXXXA
APPROVAL	BC LEE	REV	rev. 0.1			
MODULE CODE	undefined	LAST EDIT	January 20, 2011 18:59:20 PM	PAGE	38	OF 48

CHIPSET POWER(VCCSA)

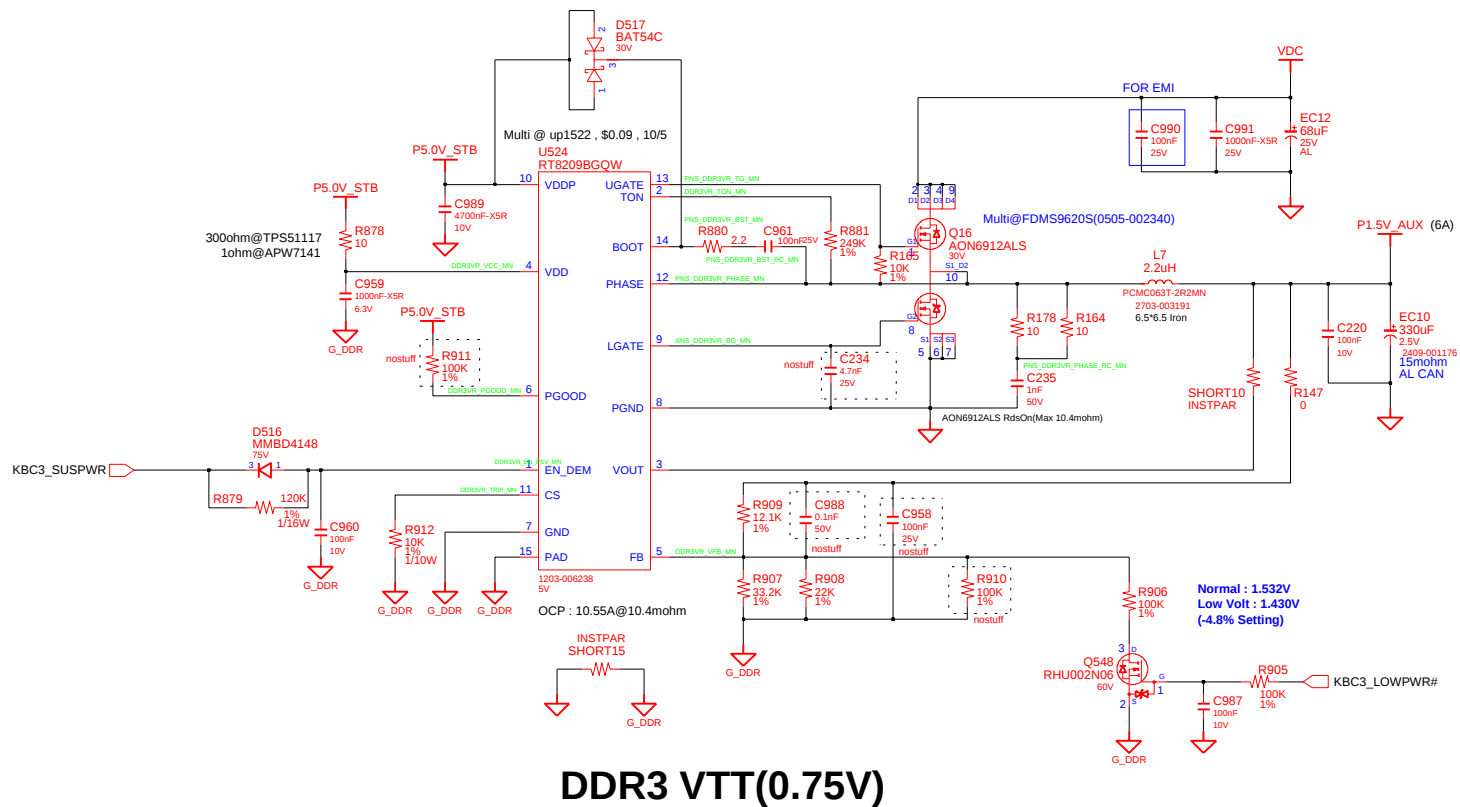


CHIPSET POWER(P1.8V)

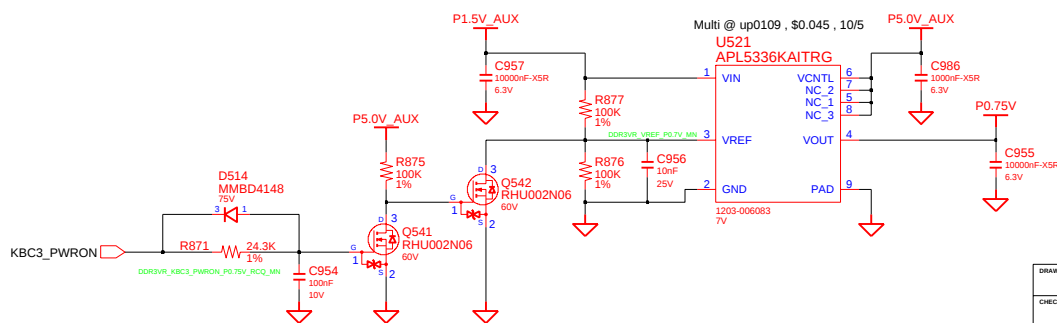


DESIGN	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG ELECTRONICS
CHECK	SJ Wu	DEV. STEP	ADV		P1.1V_VTT	
APPROVAL	BC LEE	REV	rev. 0.1		P0.8V(Chipset Power)	PART NO.
MODULE CODE		LAST EDIT	January 20, 2011 18:59:20 PM	PAGE	39	OF 48

DDR3 Power

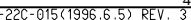


DDR3 VTT(0.75V)



DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG
CHECK	SJ Wu	DEV. STEP	ADV	PWR_MEMORY	ELECTRONICS	
APPROVAL	BC LEE	REV	rev. 0.1	DDR3 POWER	PART NO.	BA41-01XXA
MODULE CODE	undefined	LAST EDIT	January 20, 2011 18:59:20 PM	PAGE	40	OF 48

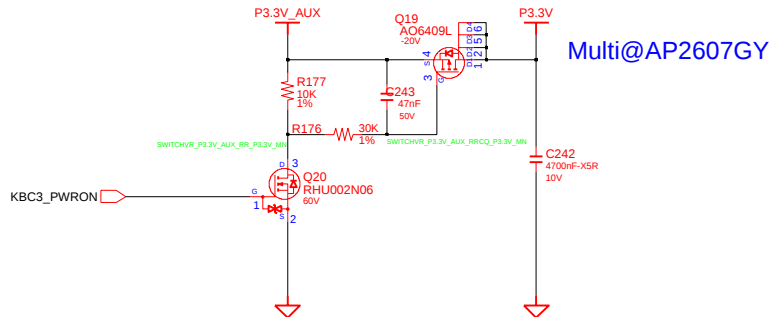
Place next to phase1 highside FET

D:/mentor/Scala2 R/Scala2 R Ext ADV 110119 MAIN

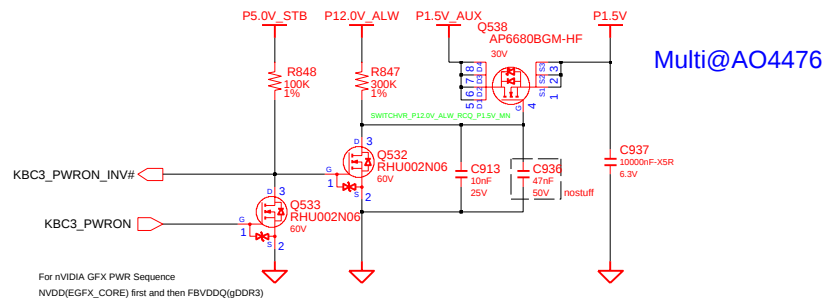
Switched Power

P5.0V -> P3.3V -> EGFX_CORE -> P1.8V -> P1.5V -> P0.75V -> P1.05V -> P0.8V_VCCSA -> CPU_CORE

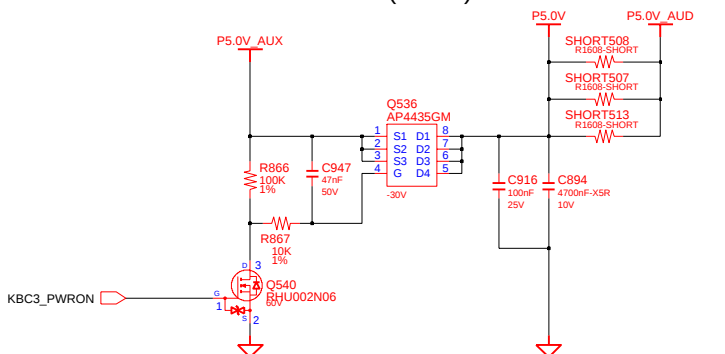
Switched Power On (P3.3V)



Switched Power On (P1.5V)



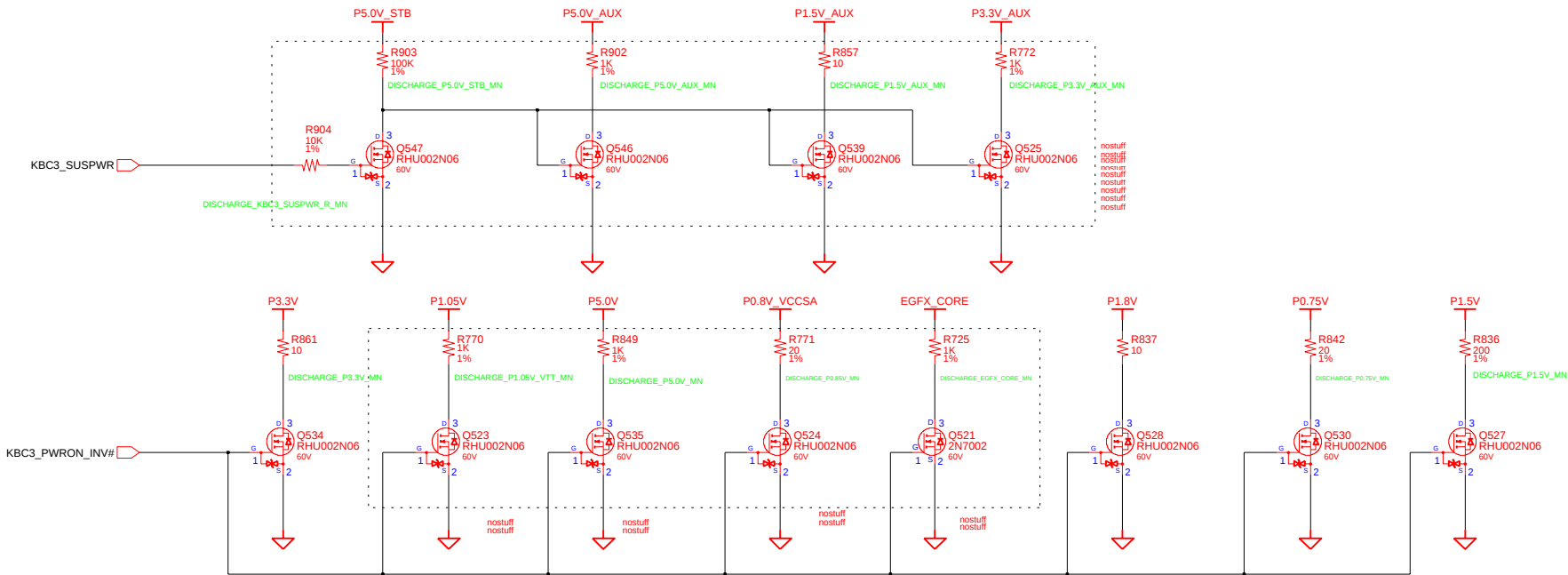
Switched Power On (P5.0V)



DRAW	Gu Hui	DATE	1/03/2011	TITLE	Scala2-R	SAMSUNG
CHECK	SJ Wu	DEV. STEP	ADV	PWR_MV_DISCHARGER		ELECTRONICS
APPROVAL	BC LEE	REV	rev. 0.1	SWITCHED POWER		PART NO.
MODULE CODE	undefined	LAST EDIT	January 20, 2011 18:59:20 PM			BA41-01XXXA
				PAGE	43	OF 48

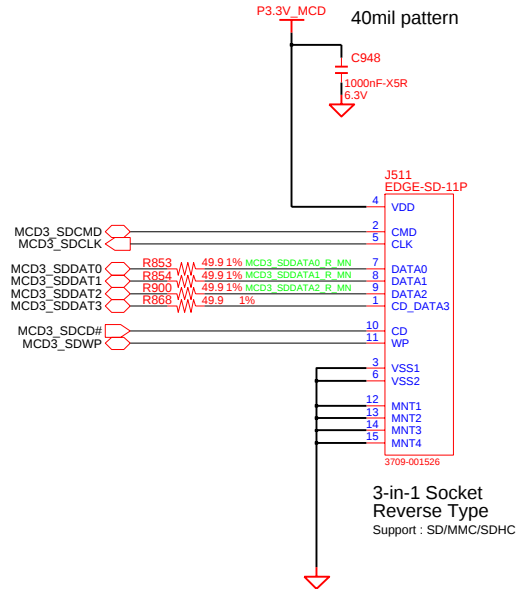
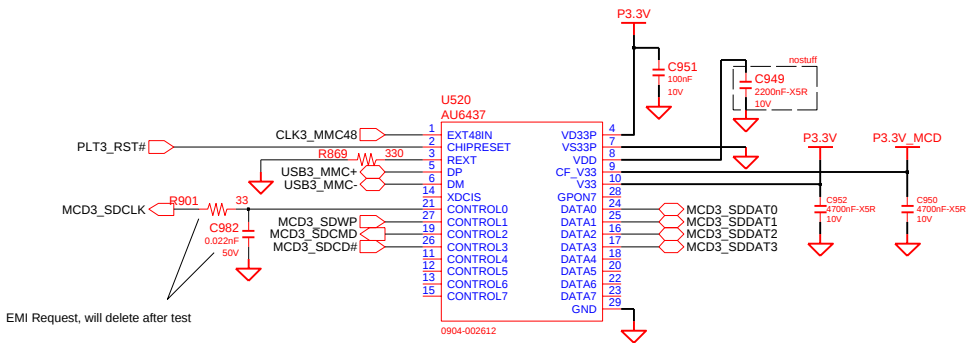
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POWER DISCHARGER



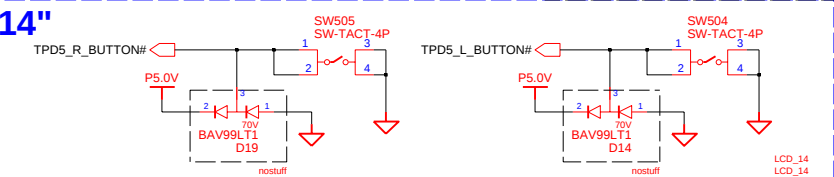
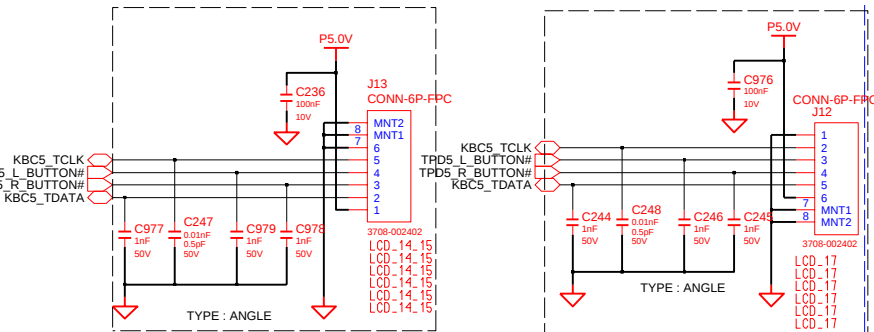
DESIGN	Gu Hui	DATE	1/03/2011	Scala2-R SUB BOARD1 Power Discharger		SAMSUNG ELECTRONICS			
CHECK	SJ Wu	DEV. STEP	ADV						
APPROVAL	BC LEE	REV	rev. 0.1					PART NO.	BA41-01XXXX
MODULE CODE		LAST EDIT		January 20, 2011 18:59:20 PM		PAGE	45	OF	48

AU6437 (4-in-1)

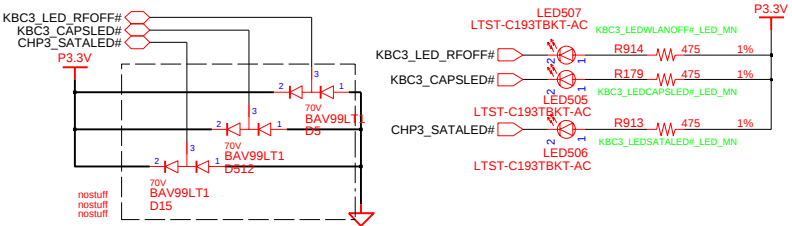
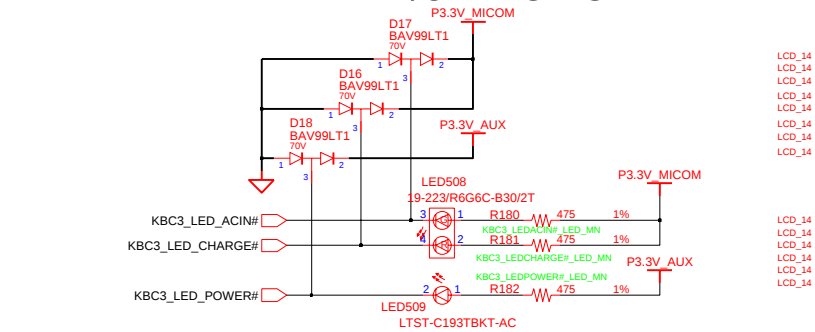


DESIGN	MS YANG	DATE	1/03/2011	TITLE	Jinmao-R	SAMSUNG
CHECK	MK KIM	DEV. STEP	ADV	AU 6437	AU 6437	ELECTRONICS
APPROVAL	BL LEE	REV	rev. 0.3	AU 6437	PART NO.	BA41-01XXXXA
MODULE CODE	LAST EDIT		January 18, 2011 08:10:20 AM		PAGE	46 OF 48

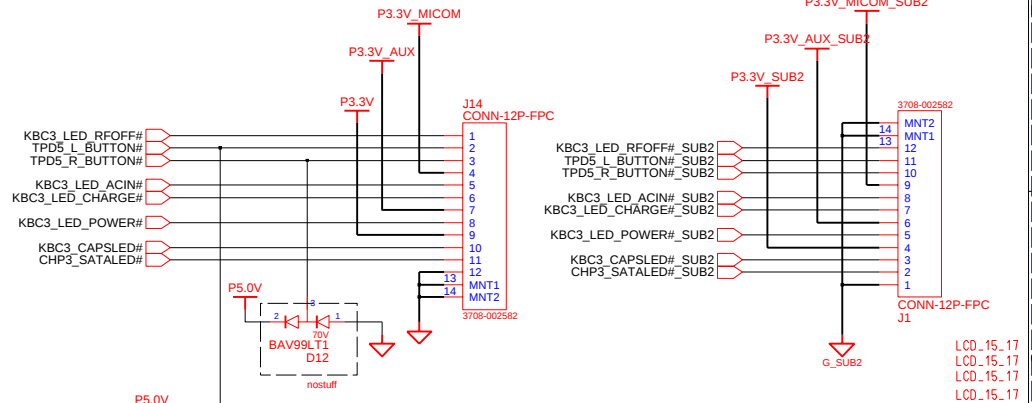
TOUCHPAD



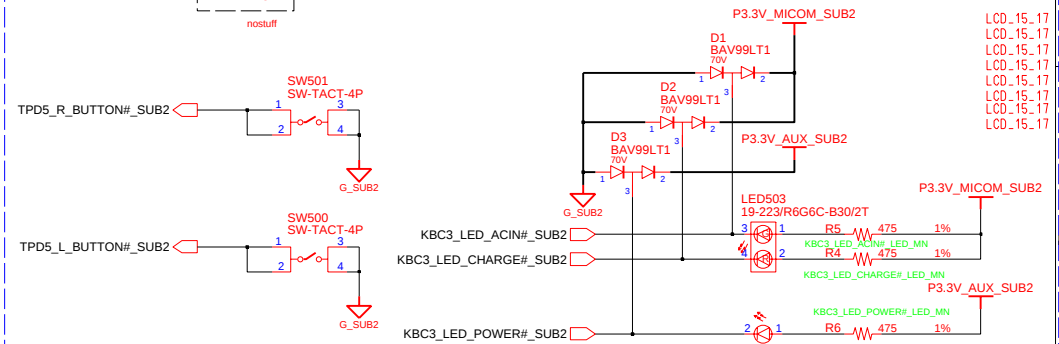
ADAPTERIN/CHARGING LED



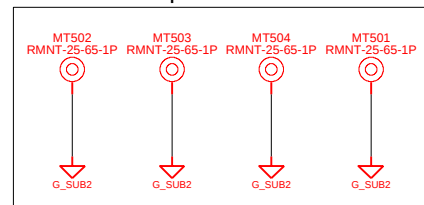
15.6" & 17.3" TOUCHPAD MAIN TO SUB TOUCHPAD SUB TO MAIN



ADAPTERIN/CHARGING LED

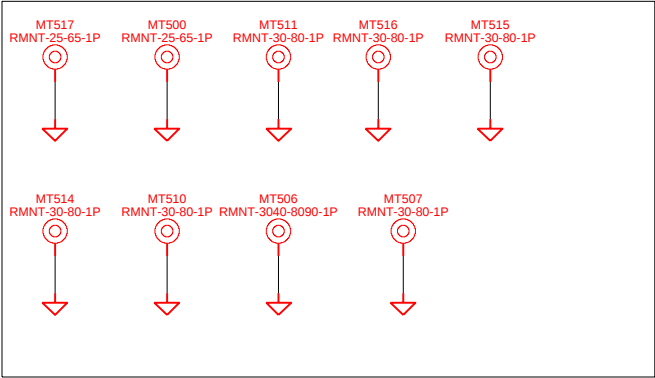


Touchpad Mount Hole

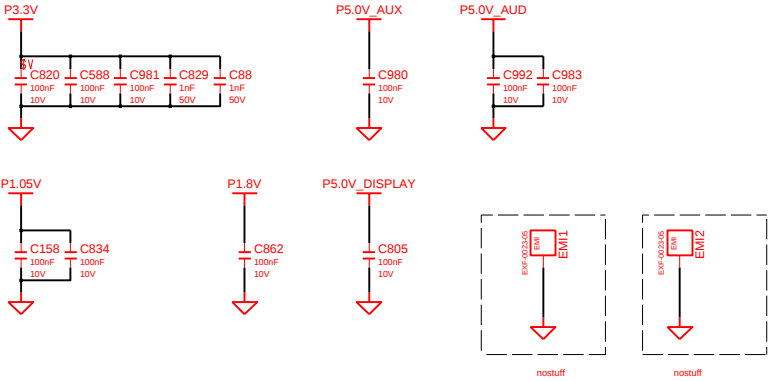
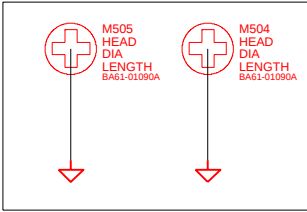


DRAW	MS YANG	DATE	1/03/2011	TITLE	Jinmao-R Touchpad Touchpad	SAMSUNG ELECTRONICS
CHECK	MK KIM	DEV. STEP	ADV			PART NO. BA41-01XXXX
APPROVAL	BL LEE	REV	rev. 0.3			
MODULE CODE		LAST EDIT				
					January 18, 2011 08:10:20 AM	PAGE 47 OF 48

Mainboard Mount ((25-65)X2EA, (30-80)X7EA)



PCH Thermal



DESIGN	MS YANG	DATE	1/03/2011	TITLE	Jinmao-R	SAMSUNG ELECTRONICS
CHECK	MK KIM	DEV. STEP	ADV	MNT hole		
APPROVAL	BL LEE	REV	rev. 0.3	MNT hole	PART NO. BA41-01XXXA	
MODULE CODE	LAST EDIT			January 18, 2011 08:10:20 AM	PAGE 48 OF 48	