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Bloomington

CPU : INTEL PINEVIEW-M
 Chip Set : INTEL TIGERPOINT-M
 Remarks :

Model Name : PINE TRAIL-M
 PCB Part No :

Dev. Step : PV2
 Revision : 0.9
 T.R. Date : 2009.11.09

DRAW	CHECK	APPROVAL

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DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2		MAIN	ELECTRONICS
APPROVAL	BJ LEE	REV	0.9		COVER	PART NO. BA41-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	1	OF 43

DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE BLOOMINGTON MAIN BOARD INFORMATION		SAMSUNG ELECTRONICS	
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BOARD INFORMATION

SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

PCI Devices

Devices	IDSEL#	REQ/GNT#	Interrupts
USB Hub to PCI LPC Bridge/IDE/AC97/SMBUS Internal MAC	AD29(internal) AD30(internal) AD31(internal) AD24(internal)	Programable	

Voltage Rails

Power Rail	Descriptions
PRTC_BAT	3.3V (can drop to 2.0V min. in G3 state) supply for the RTC well.
VDC	Primary DC system power supply (9 to 19V)
P1.05V(VCCP)	VTT for CPU, Callistoga & ICH7-M
P3.3V_MICOM	3.3V always power rail(for Micom)
P1.5V	1.5V switched power rail (off in S3-S5)
P1.8V_AUX	1.8V power rail for DDR (off in S4-S5)
P0.9V	0.9V power rail for DDR (off in S4-S5)
P5V_AUX	5.0V power rail (off in S4-S5)
P3.3V_AUX	3.3V power rail (off in S4-S5)
P5V	5.0V switched power rail (off in S3-S5)
P3.3V	3.3V switched power rail (off in S3-S5)
CPU_CORE	Core voltage for Atom CPU

I²C / SMB Address

Devices	Address	Hex	Bus
ICH7M	Master		SMBUS Master
CK-505M (Clock Generator)	1101 001X	D2h	Clock, Unused Clock Output Disable
SODIMM0	1010 000X	A0h	-
CPU Thermal Sensor	0111 101X	7Ah	Thermal Sensor

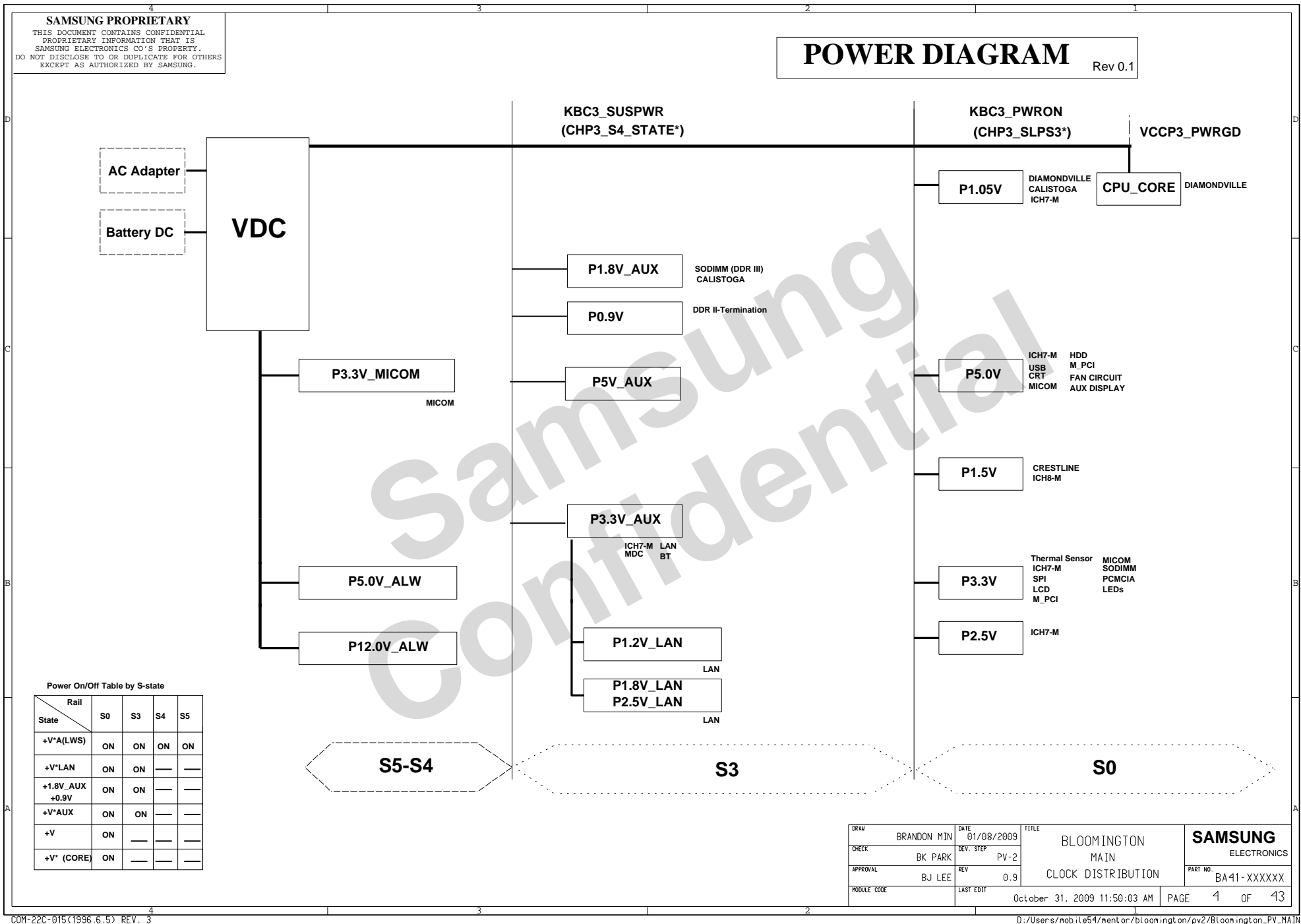
USB PORT Assign

Port Number	ASSIGNED TO	Port Number	ASSIGNED TO
UHCL_0 0	USB PORT	UHCL_2 4	USB PORT
UHCL_0 1	3-IN-1	UHCL_2 5	USB PORT
UHCL_1 2	Wireless LAN	UHCL_3 6	HSDPA
UHCL_1 3	BLUETOOTH	UHCL_3 7	CAMERA

PCI Express Assign

Port Number	ASSIGNED TO
1	Mini Card 1(Wireless LAN)
2	Mini Card 2 (HSDPA/Wibro)
3	LOM

DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON MAIN POWER SEQUENCE	SAMSUNG ELECTRONICS
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APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	3 OF 43	

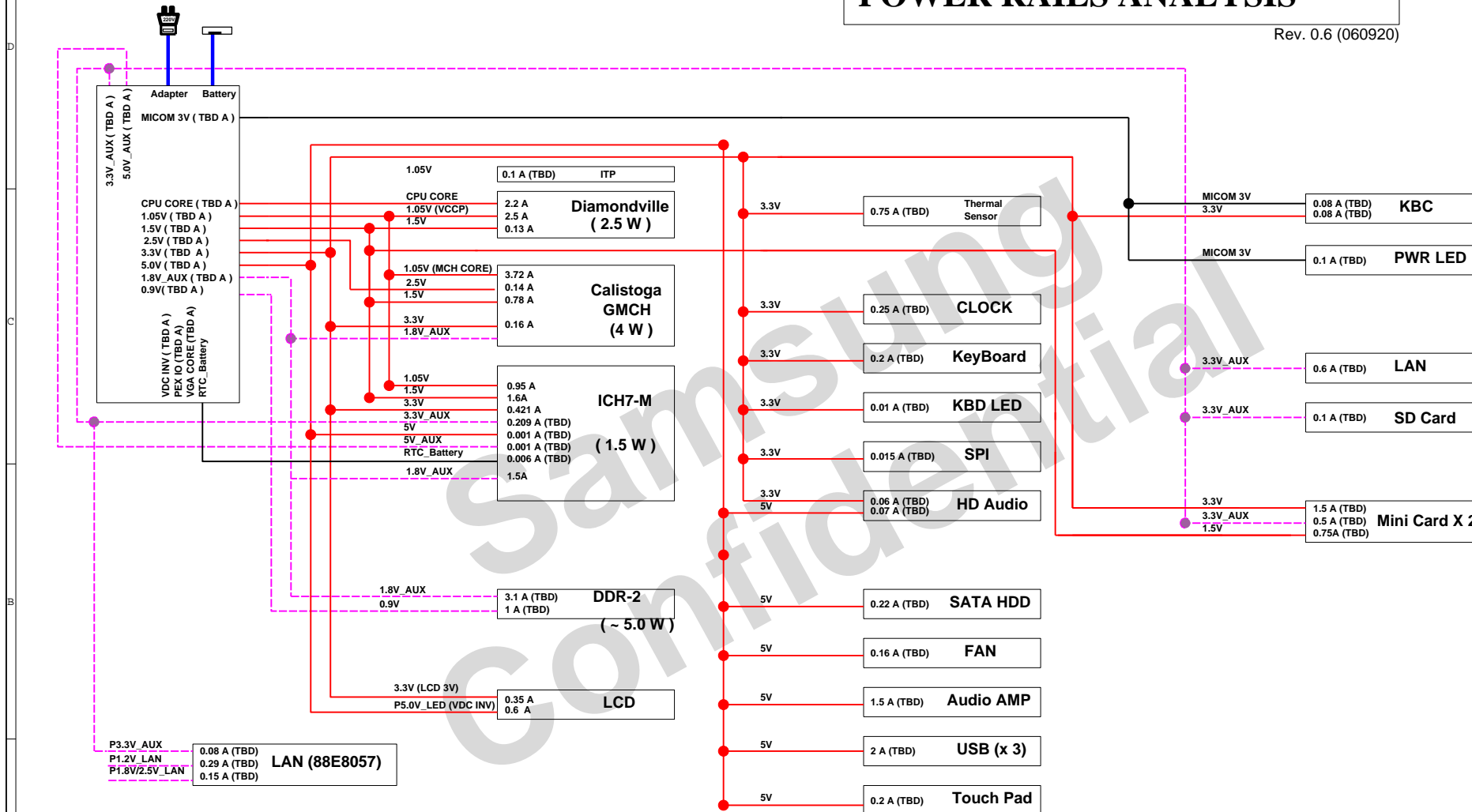


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POWER RAILS ANALYSIS

Rev. 0.6 (060920)

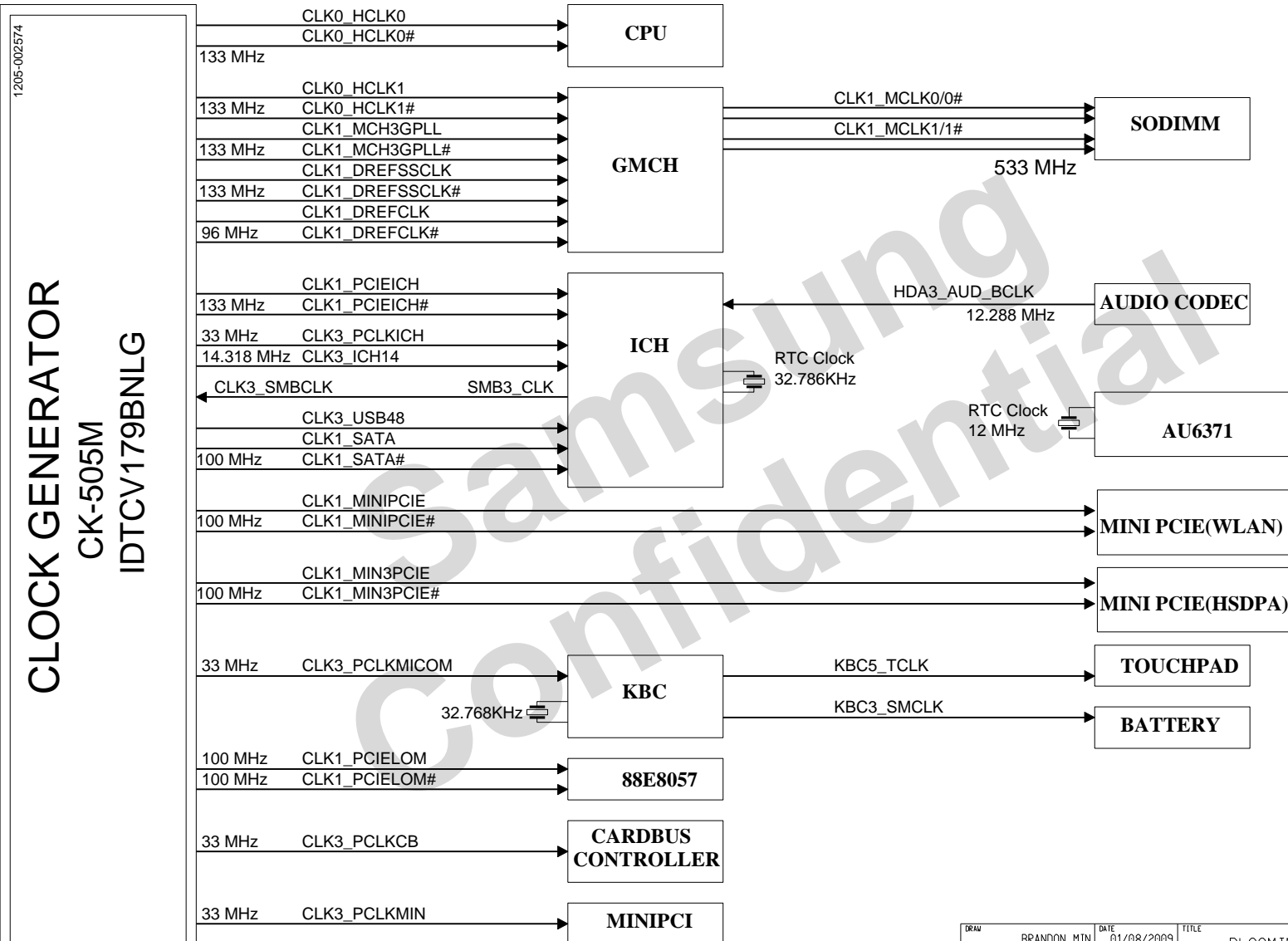


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CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
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COM-22C-015(1996.6.5) REV. 3

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CLOCK DISTRIBUTION



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CHECK	BK PARK	DEV. STEP	PV-2			
APPROVAL	BJ LEE	REV	0.9	BOARD INFORMATION	PART NO.	BA41-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	7	OF 43

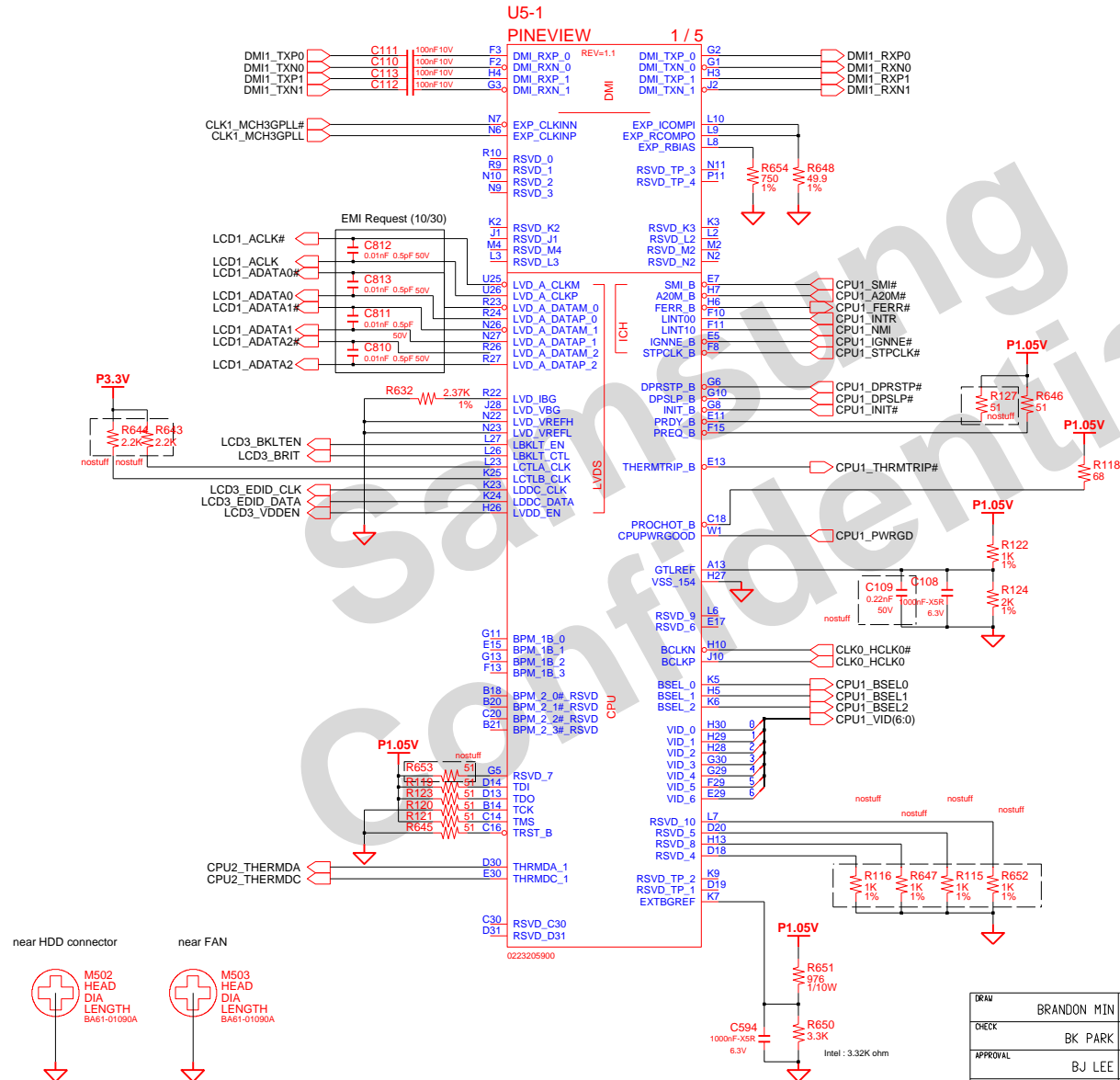
The schematic diagram illustrates the CPU3 board's internal components and connections. Key elements include:

- Power Supply:** P5.0V, P3.3V_AUX, and P1.05V rails are shown with associated decoupling capacitors (C612, C614, C615, C616, C617, C613) and resistors (R663, R664, R665, R666, R667, R668, R669, R670, R679, R681).
- Connectors:** J13 (HDR-4P-SMD) and J14 (2x5) are shown with their respective pin connections.
- Integrated Circuits:** U507 (G7923) is the main CPU component. Q511 and Q512 (MMBT3904) are transistors used for signal conditioning.
- Signal Traces:** THM3_STP#, CPU3_THRMTRIP#, FAN5_VDD, FAN3_FDBACK#, and FAN3_FAN1 are labeled.
- Resistors:** R663 (10K), R664 (10K), R665 (300K), R666 (249K), R667 (0), R668 (10K), R669 (10K), R670 (10K), R679 (49.9K), R681 (2K).
- Capacitors:** C612 (10000nF-XSR), C614 (100nF), C615 (100nF), C616 (2.2nF), C617 (0.02nF), C613 (10000nF-XSR).
- Other Components:** Y503 (0.032768MHz), Y504 (0.032768MHz), Y505 (0.032768MHz), Y506 (0.032768MHz), Y507 (0.032768MHz), Y508 (0.032768MHz), Y509 (0.032768MHz), Y510 (0.032768MHz).

The diagram is labeled 'Confidential' and '3711-000022'.

DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE BLOOMINGTON Thermal Sensor EMC2102 THERMAL SENSOR		SAMSUNG ELECTRONICS	
CHECK	BK PARK	DEV. STEP	PV-2				
APPROVAL	BJ LEE	REV	0.9				PART NO. BA11-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM			PAGE 9 OF 43	

U5-1
PINEVIEW 1 / 5

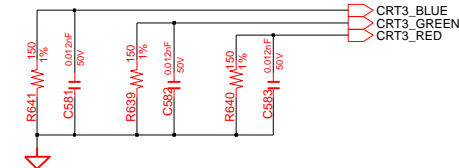
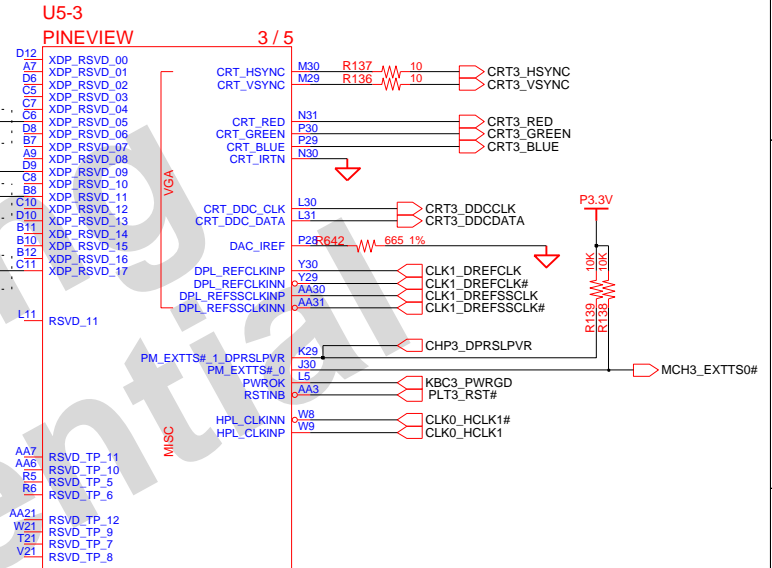
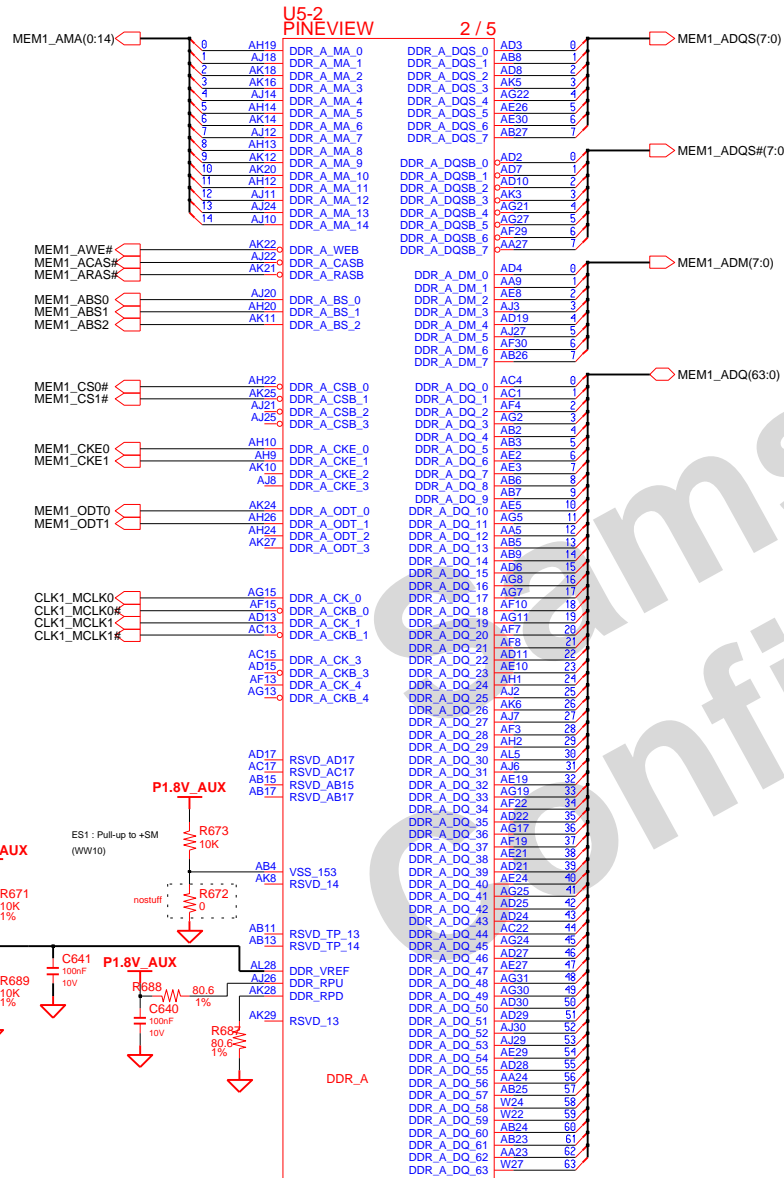


DRAW		DATE	TITLE		SAMSUNG ELECTRONICS
BRANDON MIN		01/08/2009	BLOOMINGTON CPU		
CHECK	BK PARK	REV. STEP	PV-2		
APPROVAL	BJ LEE	REV	PINEVIEW (1/3)		
					PART NO.
					BA41-XXXXXX
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PINEVIEW(2/3)

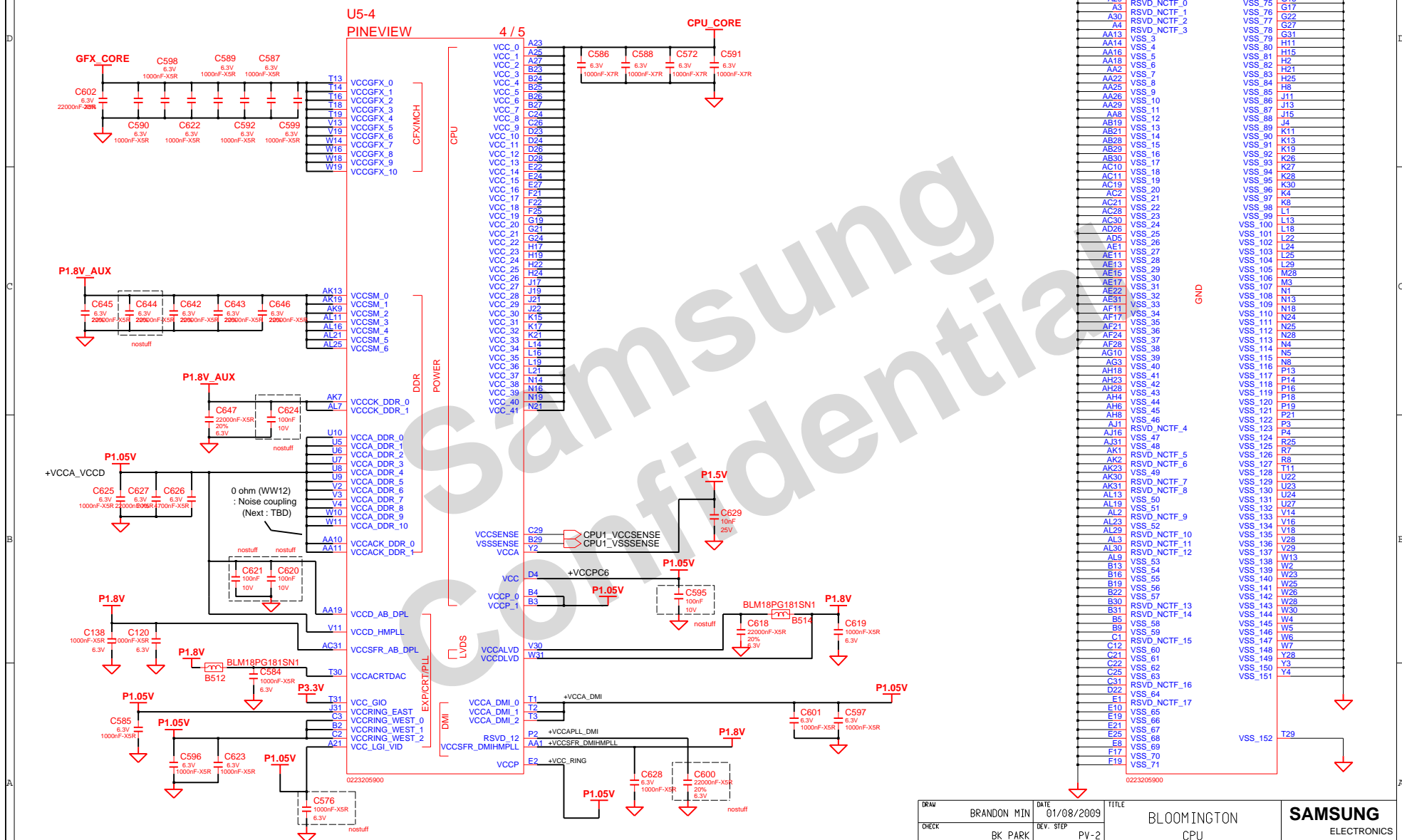


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CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9		PINEVIEW (2/3)	
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PINEVIEW(3/3)



DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON CPU	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2		PINEVIEW (3/3)	PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	12	OF 43

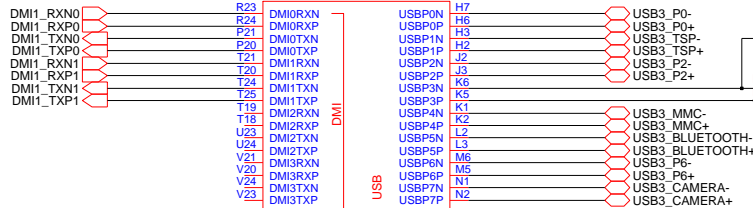
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Tigerpoint (1/3)

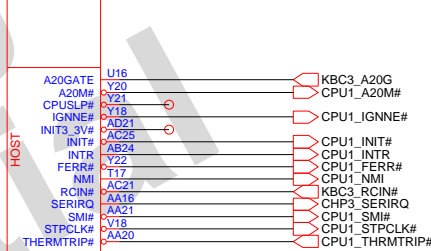
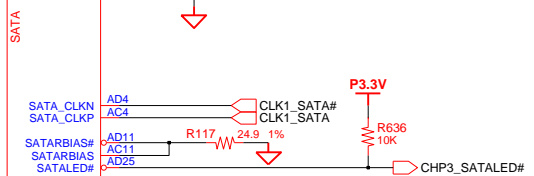
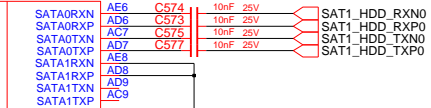
U506-1

TIGERPOINT 1 / 5



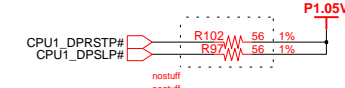
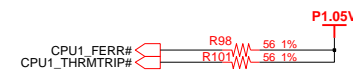
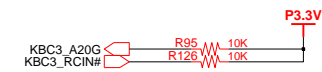
U506-2

TIGERPOINT 2 / 5



Intel : DBG_Strap Set up

0223215100



A16 SWAP OVERRIDE

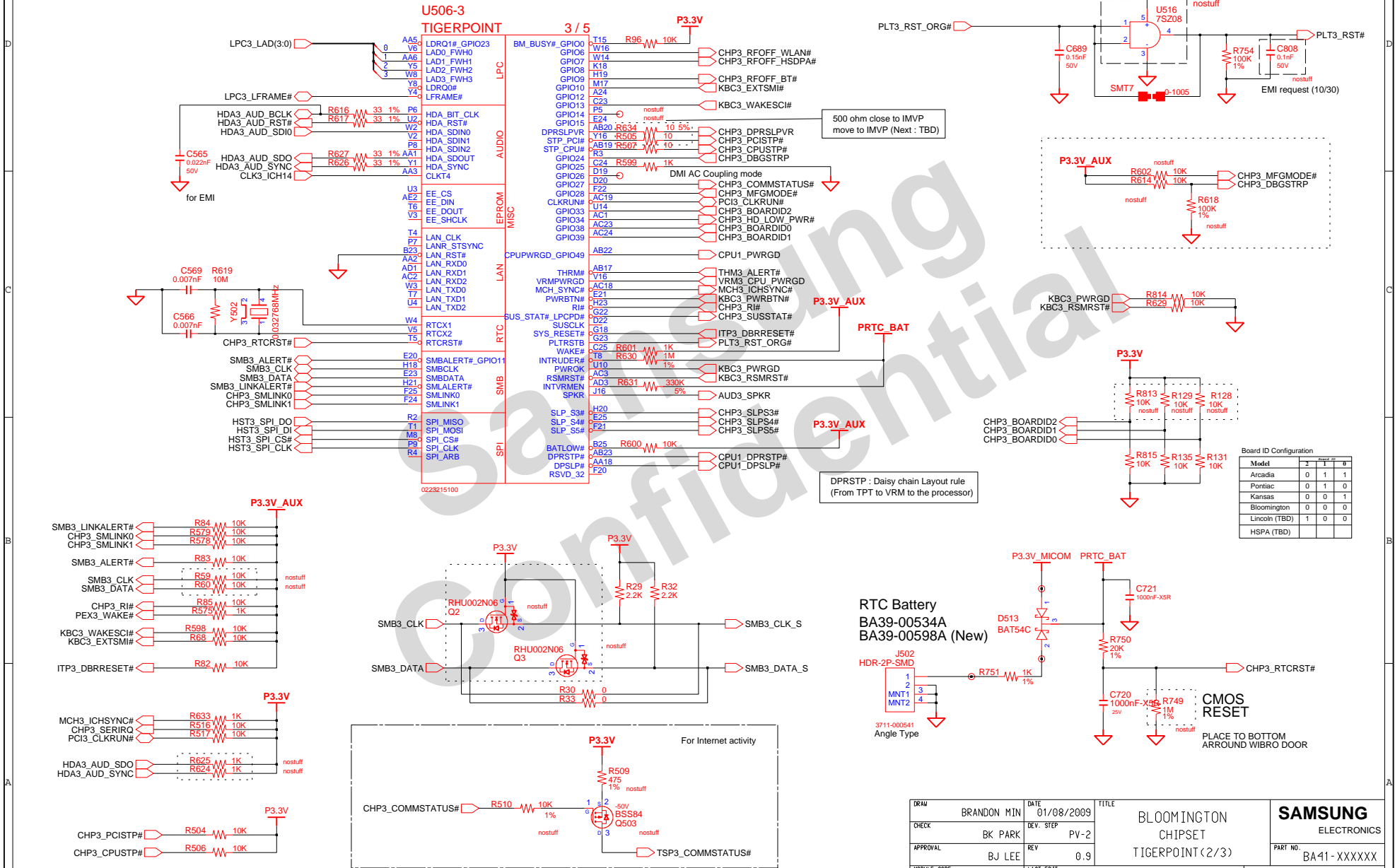
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DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON CHIPSET TIGERPOINT (1/3)	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	13	OF 43

Tigerpoint (2/3)

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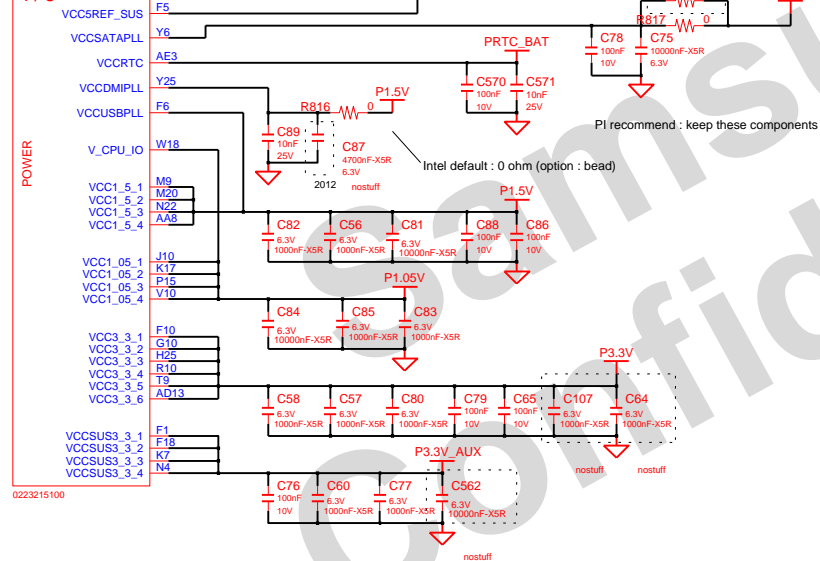
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Tigerpoint (3/3)

U506-4

TIGERPOINT

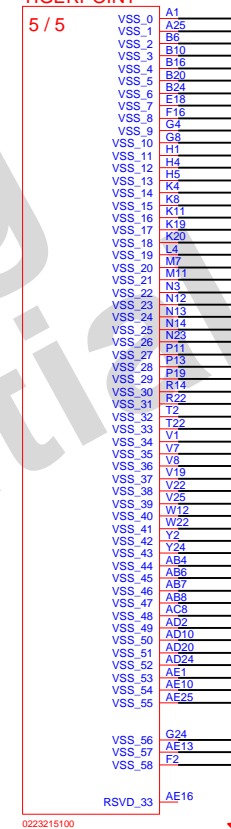
4 / 5



U506-5

TIGERPOINT

5 / 5

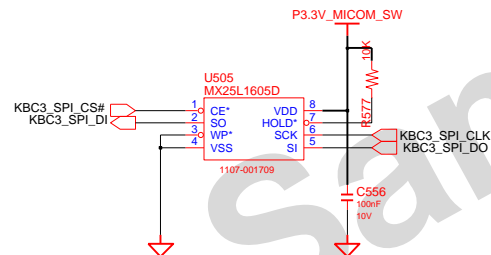


DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON CHIPSET TIGERPOINT (3/3)	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	15	OF 43

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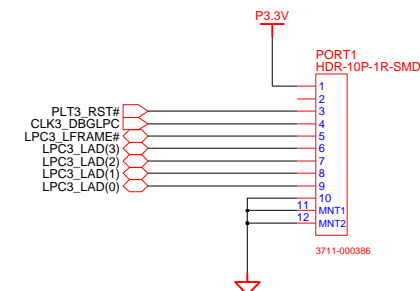
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SPI_BIOS_ROM



02	VERIFY REAL MODE	66	CONFIGURE ADVANCE CACHE REG.
03	DISABLE NMI	6A	DISPLAY EXTERNAL CACHE SIZE
04	GET CPU TYPE	6C	DISPLAY SHADOW MESSAGE
06	INIT. SYSTEM H/W	6E	DISPLAY NON-DISPOSABLE SEGMENT
08	INIT. CHIPSET REG.	70	DISPLAY ERROR MESSAGE
09	SET IN POST FLAG	72	CHECK FOR CONFIGURATION ERROR
0A	INIT CPU REG	74	TEST REAL-TIME CLOCK
0B	CPU CACHE ON	76	CHECK FOR KEYBOARD ERROR
0C	INIT CACHE TO POST	7C	SETUP HARDWARE INTERRUPT VECTOR
0E	INIT. I/O VALUE	7E	TEST COPROCESSOR IF PRESENT
0F	ENABLE THE L-BUS IDE	80	DISABLE ON-BOARD I/O PORT
10	INIT. POWER MANAGER	82	DETECT AND INSTALL EXT RS232C
11	LOAD ALTERNATE REG	84	DETECT AND INSTALL EXT PARALLEL
13	PCI BUS MASTER RESET	86	RE-INIT. ON-BOARD I/O PORT
		88	INIT. BIOS DATA ROM
	WITH INITIAL POST VALUE	8A	INIT. EXTENDED BIOS DATA AREA
14	INIT. KEYBOARD CONTROLLER	8C	INIT. FDD CONTROLLER
16	CHECK CHECKSUM	8E	SHADOW OPTION ROMS
18	8254 TIMER INIT	90	SETUP POWER MANAGEMENT
1A	8237 DMA CONTROLLER INIT.	92	ENABLE H/W INTERRUPT
1C	RESET INTERRUPT CONTROLLER	94	SET TIME OF DAY
20	TEST DRAM REFRESH	A0	INIT. TYPEMATIC RATE
22	TEST 8742 KEYBOARD CONTROLLER	A4	ERASE F2 PROMPT
24	SET ES SEGMENT REG. TO 4GB	AA	SCAN FOR F2 KEY STROKE
26	ENABLE A20	AC	ENTER SETUP
28	AUTO SIZING DRAM	AE	CLEAR IN POST FLAG
32	COMPUTE THE CPU SPEED	B0	CHECK FOR ERRORS
34	TEST CMOS RAM	B2	POST DONE-PREPARE TO BOOT O/S
38	SHADOW SYSTEM BIOS ROM	B4	ONE BEEP
3A	AUTO SIZING CACHE	B6	CHECK PASSWORD (OPTION)
3C	CONFIGURE ADVANCED CHIPSET REG.	B8	ACPI INIT
3D	LOAD ALTER REG. WITH CMOS VALUE	BA	DMI INIT
42	INIT. INTERRUPT VECTOR	BE	CLEAR SCREEN
44	INIT. BIOS INTERRUPT	C0	TRY BOOT WITH INT19
46	CHECK ROM COPYRIGHT NOTICE	D0	INTERRUPT HANDLER ERROR
47	INIT. I2O SUPPORT IF INSTALLED	D2	UNKNOWN INTERRUPT ERROR
48	CHECK VIDEO CONFIGURE AGAINST CMOS	D4	PENDING INTERRUPT ERROR
49	INIT. PCI BUS AND DEVICE	D6	SHUTDOWN 5
4A	INIT. ALL VIDEO BIOS ROM	D8	SHUTDOWN ERROR
4C	SHADOW VIDEO BIOS ROM	DA	EXTENDED BLOCK MOVE
50	DISPLAY CPU TYPE AND SPEED	DC	SHUTDOWN 10
52	TEST KEYBOARD	DE	ENABLE NMI
54	SET KEYCLICK IF ENABLED	E0	INIT. HDD CONTROLLER
56	ENABLE KEYBOARD	E2	INIT. LOCAL BUS HDD CONTROLLER
58	TEST FOR UNEXPECTED INTERRUPTS	E4	JUMP TO USER PATCH 2
5A	DISPLAY *PRESS SETUP*	E6	DISABLE A20 ADDRESS LINE
5C	TEST RAM BETWEEN 812K AND 640K	E8	CLEAR HUGE ES SEGMENT REG.
60	TEST EXTENDED MEMORY	EA	SEARCH FOR OPTION ROMS
62	TEST EXTENDED MEMORY ADDRESS LINE		
64	JUMP TO USER PATCH 1		

80H DECODER CONNECTOR

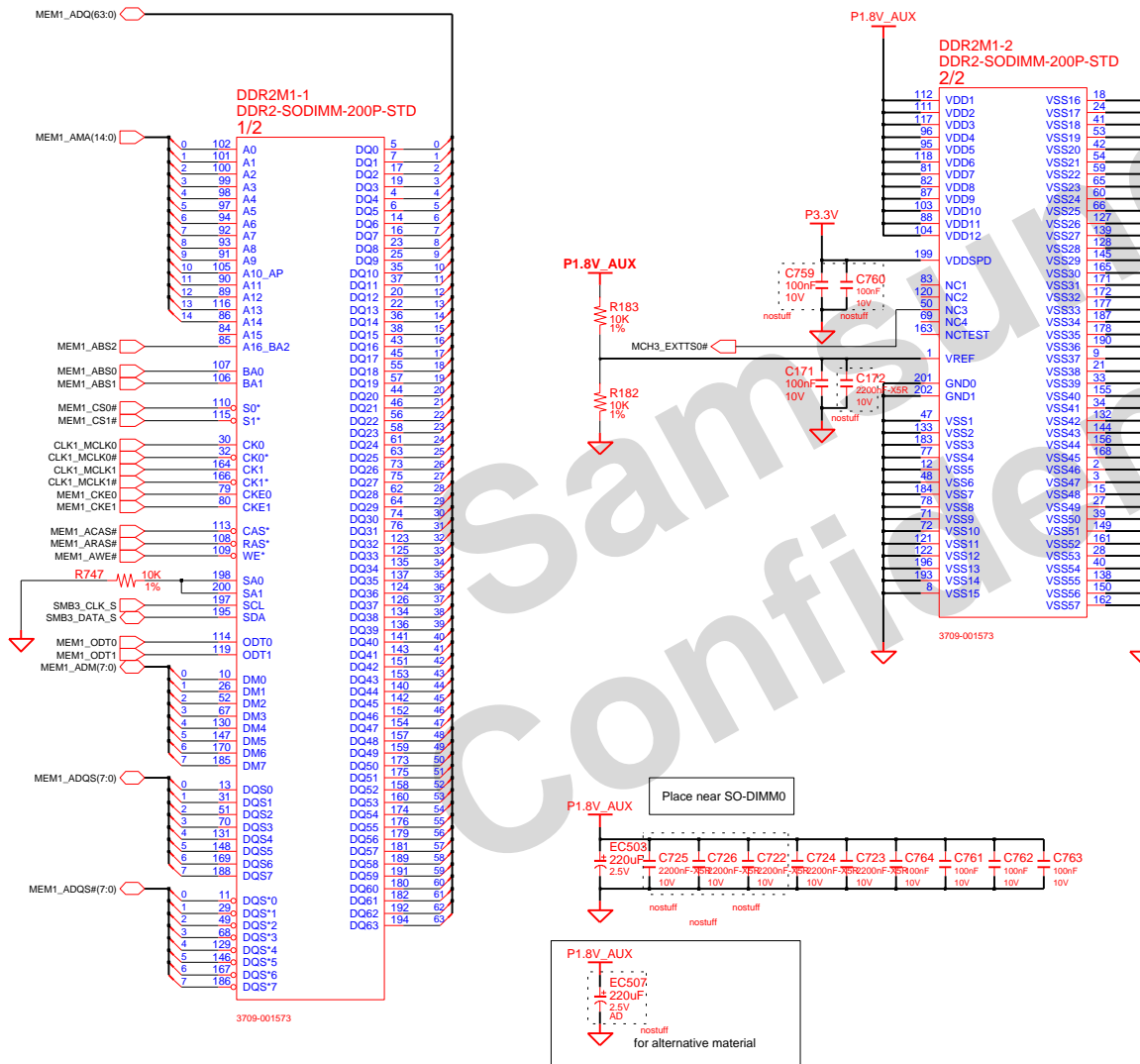


DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2		SPI_BIOS_ROM	ELECTRONICS
APPROVAL	BJ LEE	REV	0.9		SPI_BIOS_ROM	PART NO.
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM			BA41-XXXXXX
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DDR SO-DIMM #0

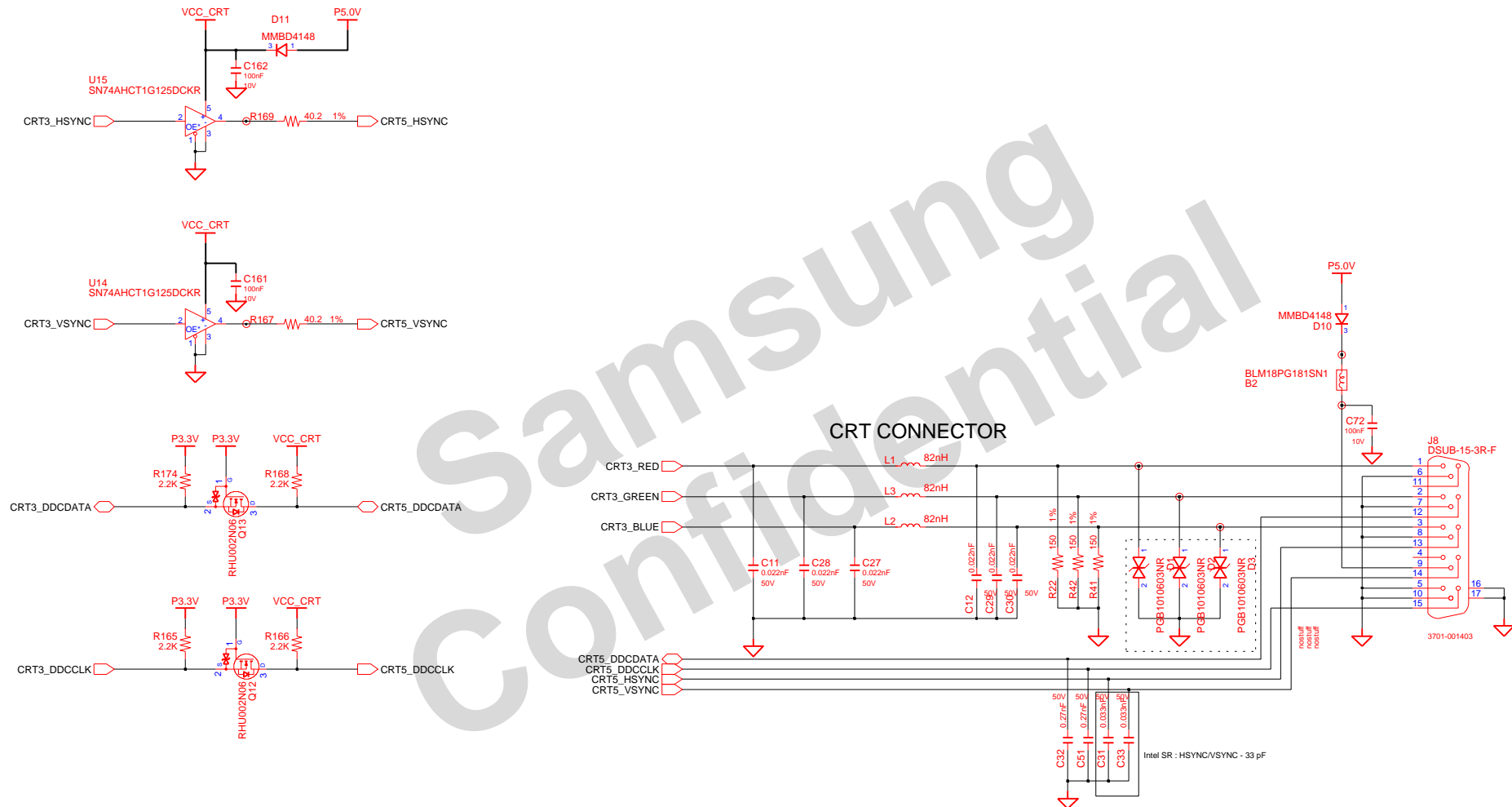


DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
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APPROVAL	BJ LEE	REV	0.9	SODIMM_DDR2 #1	PART NO.	BA41-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	17	OF 43

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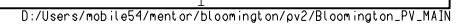
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CRT



DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON GRAPHICS_IF CRT	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	18	OF 43

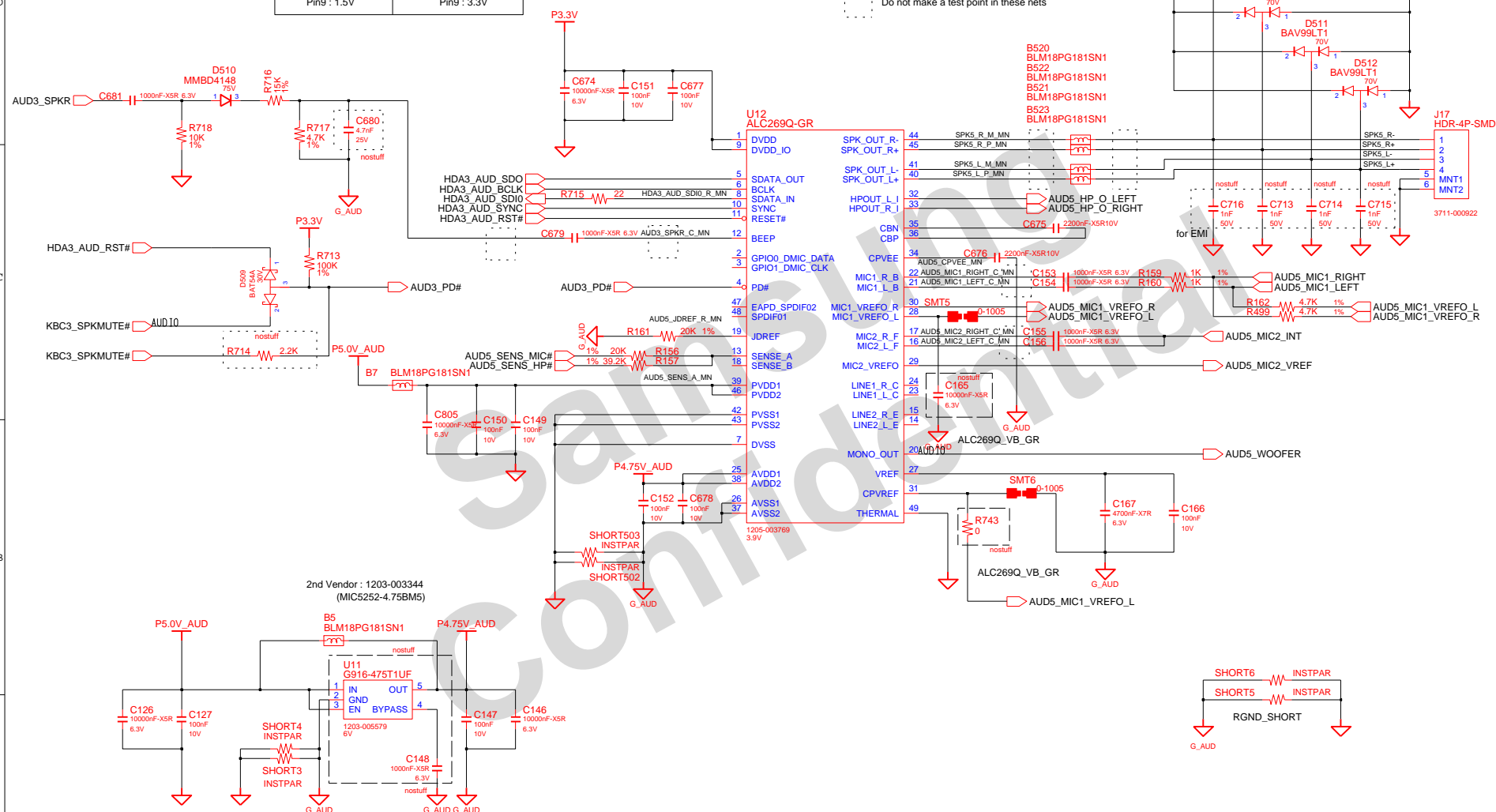
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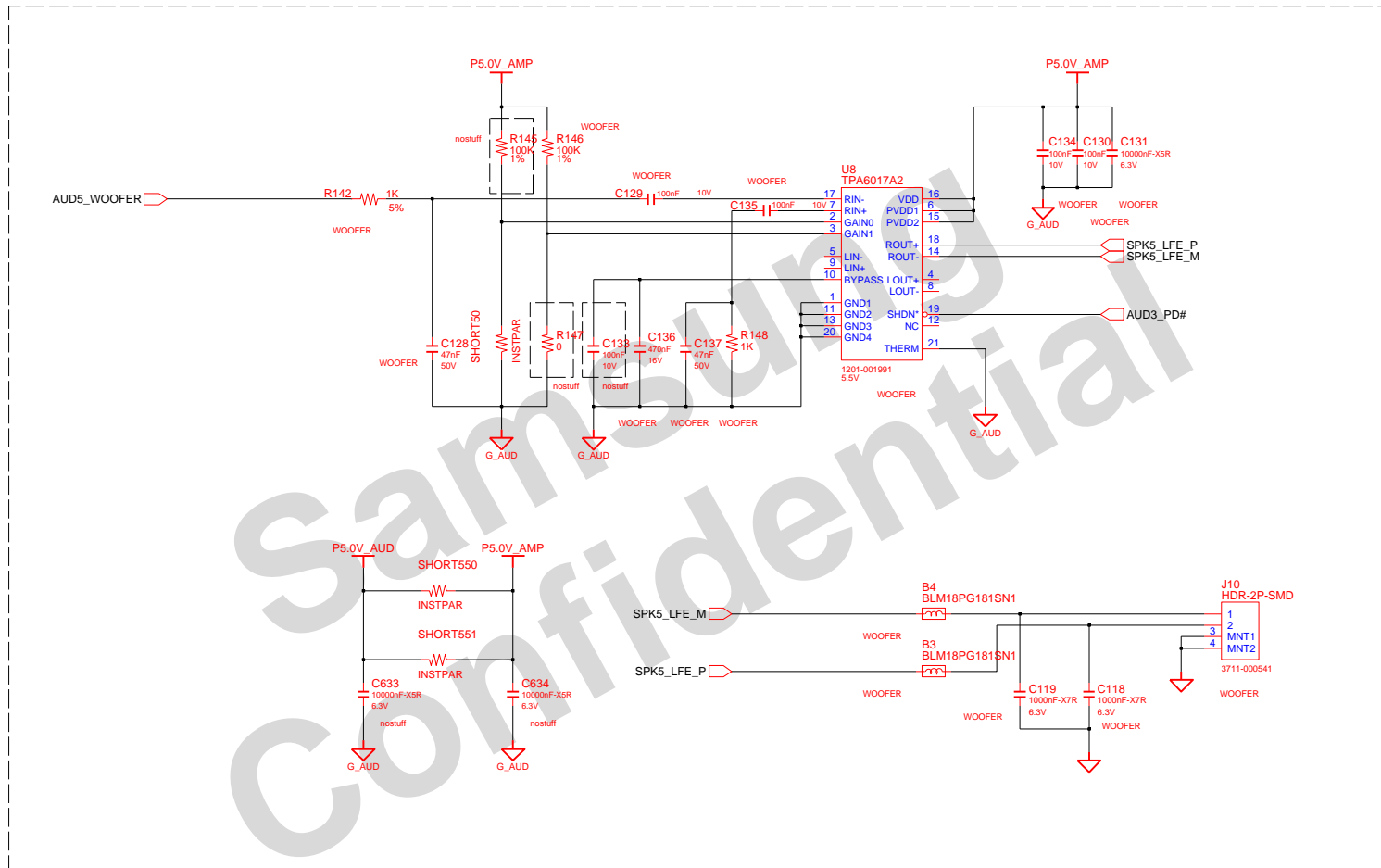
Codec Pin9 Setting	
S/B with Low Voltage IO	S/B without Low Voltage IO
Pin9 : 1.5V	Pin9 : 3.3V



DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON AUDIO AUDIO	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
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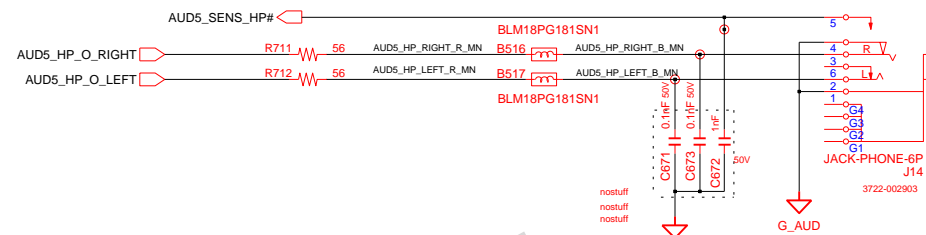
Only for PONTIAC model

DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON AUDIO AUDIO	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	22	OF 43

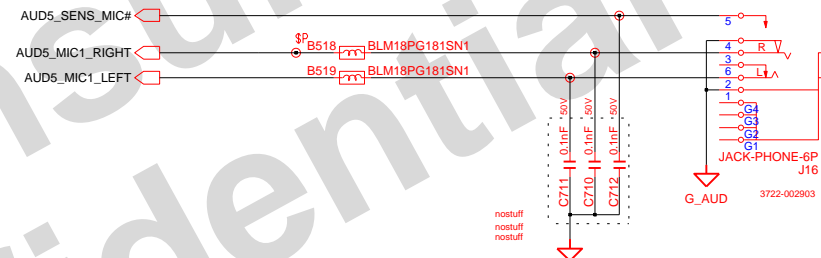
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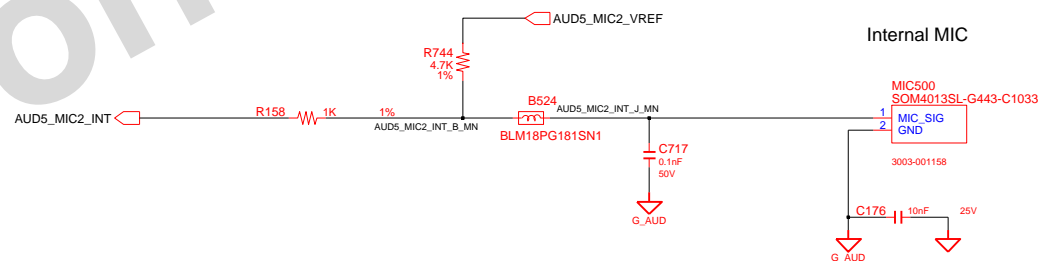
HEADPHONE



MIC JACK



Internal MIC



DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON AUDIO AUDIO	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	23	OF 43

Place AC coupling capacitors
Close to LAN Chip

Place crystal within 0.75inches from LAN Chip

Need at least 2.5mm or more Clearance
from conductive material

Place nearby PIN 29

Place nearby PIN 1

3.205-003904
3.465V

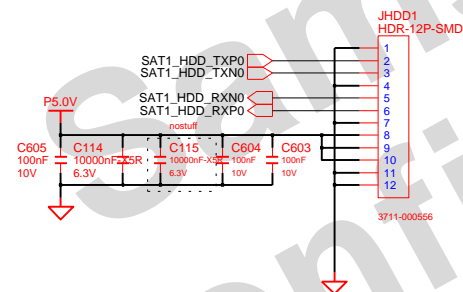
DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON LAN LAN	SAMSUNG ELECTRONICS	
CHECK	BK PARK	REV. STEP	PV-2				
APPROVAL	BJ LEE	REV	0.9				
MODULE CODE	LAST EDIT		October 31, 2009 11:50:03 AM				PAGE
						PART NO.	BA41-XXXXXX

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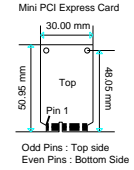
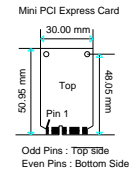
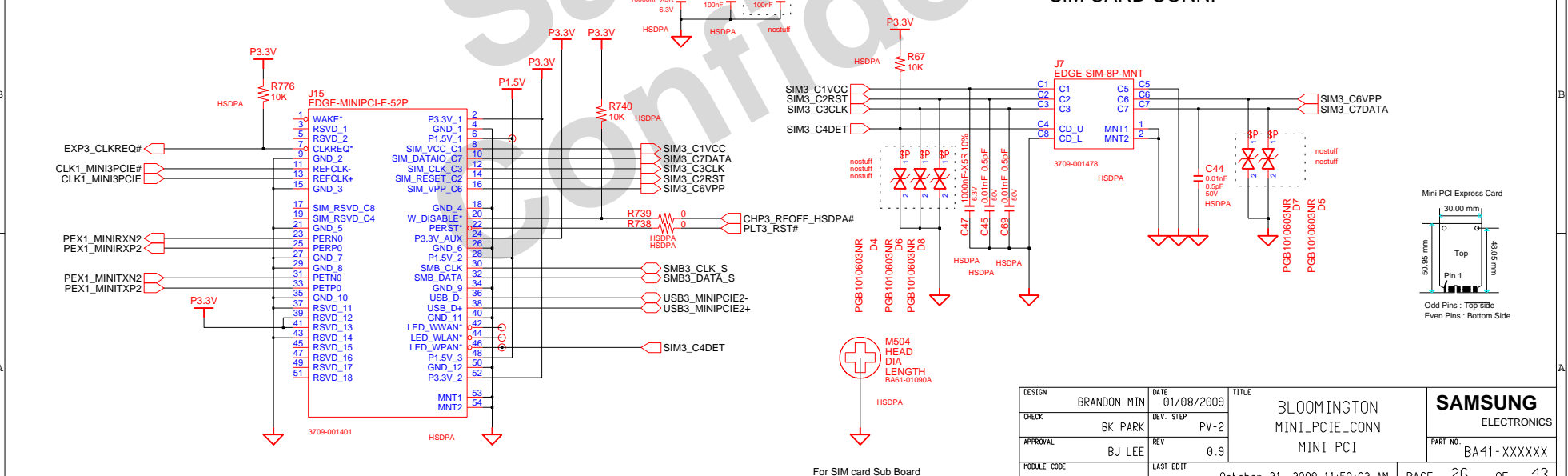
SATA I/F CONN

SATA HDD CONN



DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON SATA_DEVICES	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			
APPROVAL	BJ LEE	REV	0.9		SATA	PART NO. BA41-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	25	OF 43

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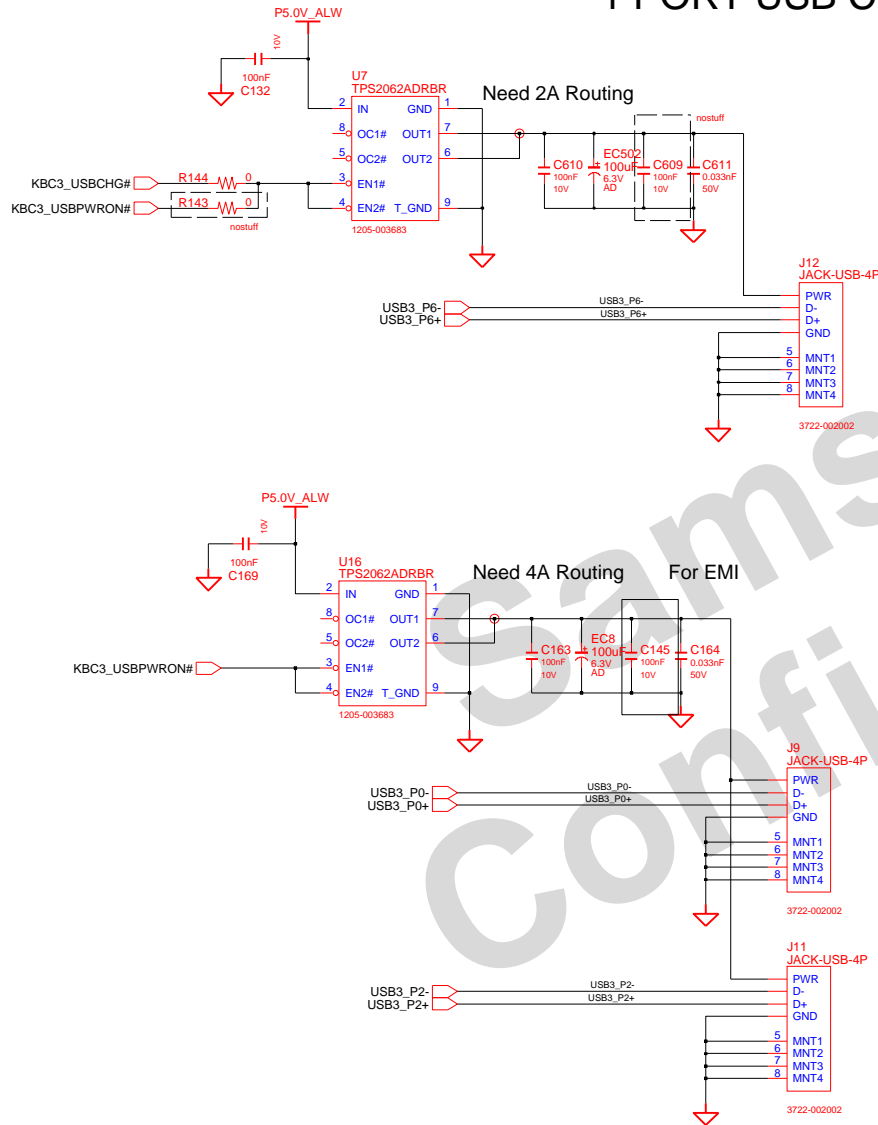
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DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON MINI_PCIE_CONN MINI PCI	SAMSUNG ELECTRONICS		
CHECK	BK PARK	REV. STEP	PV-2					
APPROVAL	BJ LEE	REV	0.9				PART NO.	BA41-XXXXXX
MODULE CODE	LAST EDIT		October 31, 2009 11:50:03 AM				PAGE	26 OF 43

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1 PORT USB CONNECTOR



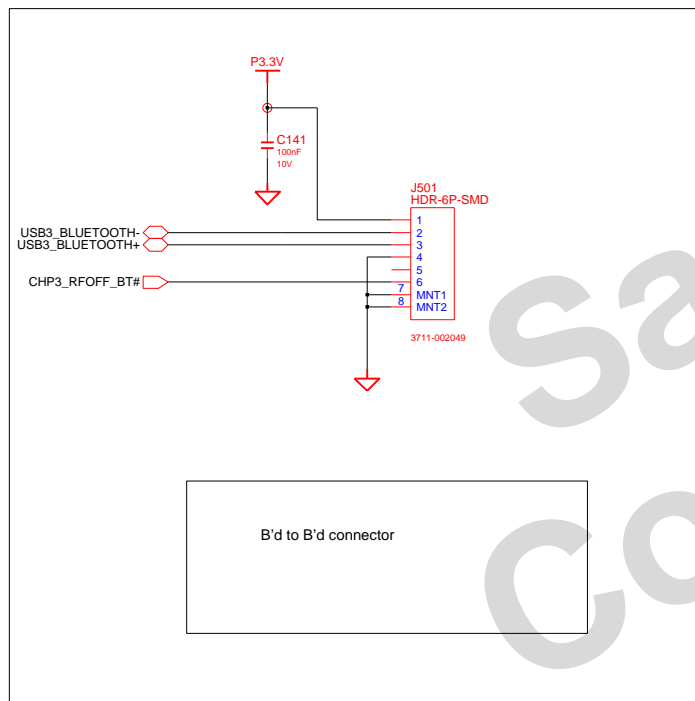
DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON USB_CONN USB PORT	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	27	OF 43

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USB I/F Devices

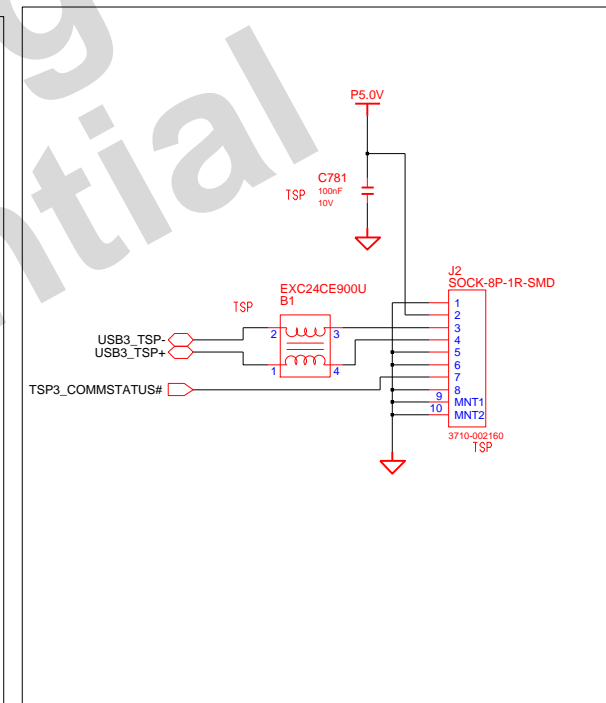
Bluetooth Interface



CAMERA

Camra I/F Circuit was moved to LVDS I/F Circuit Block.

TSP(Only for Lincon Model)

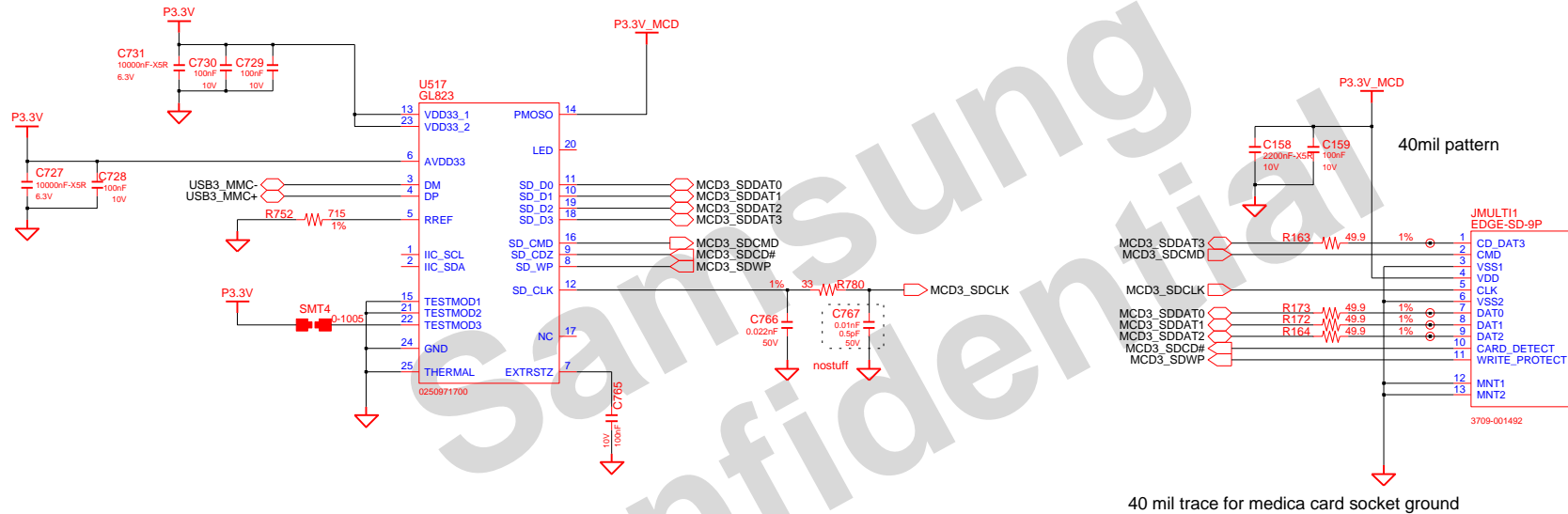


DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON USB_DEVICES BLUETOOTH CAMERA	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	28	OF 43

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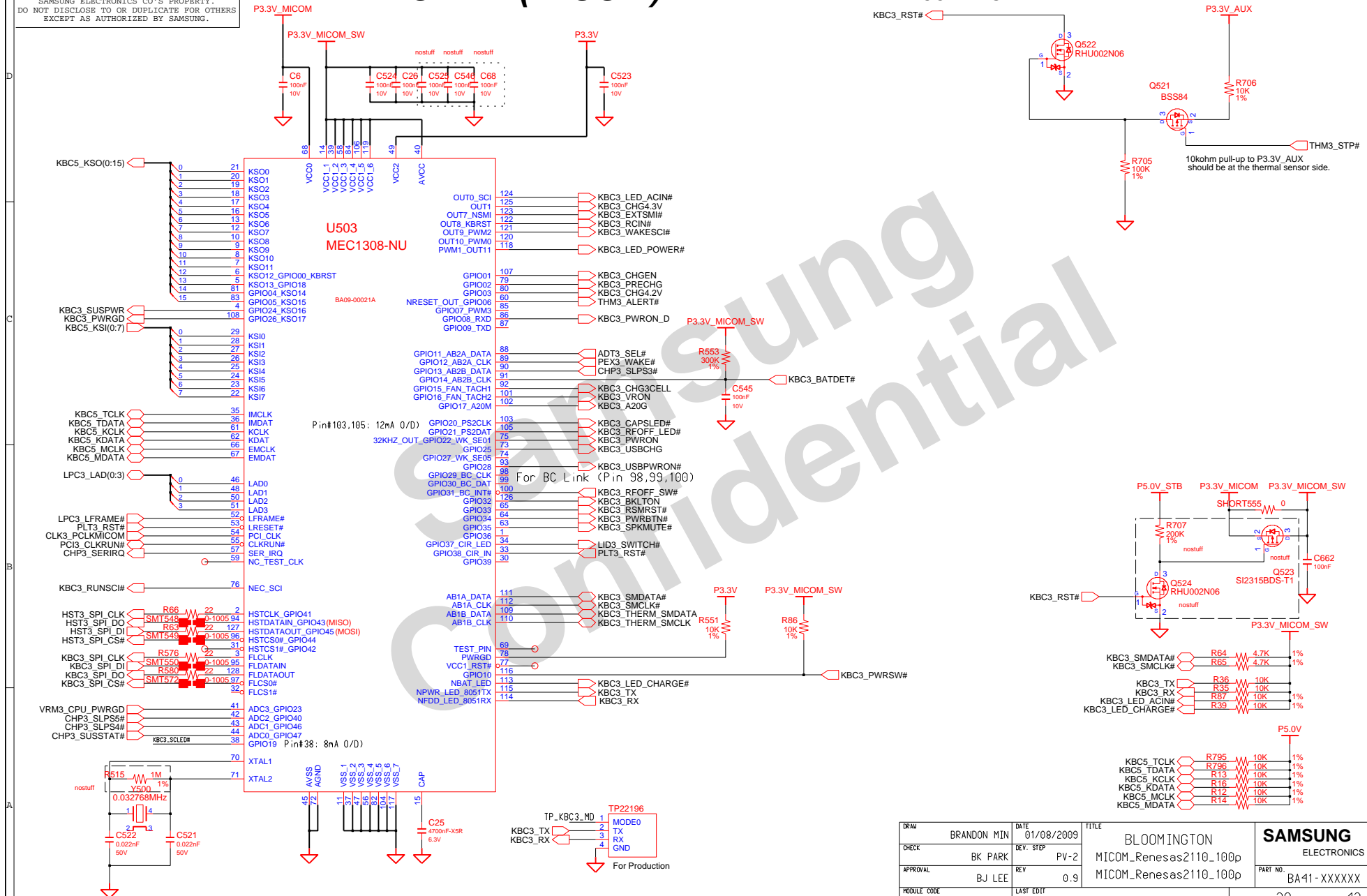
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MMC(GL823)



DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON OTHERS MMC	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	15	unmodified

MICOM RESET

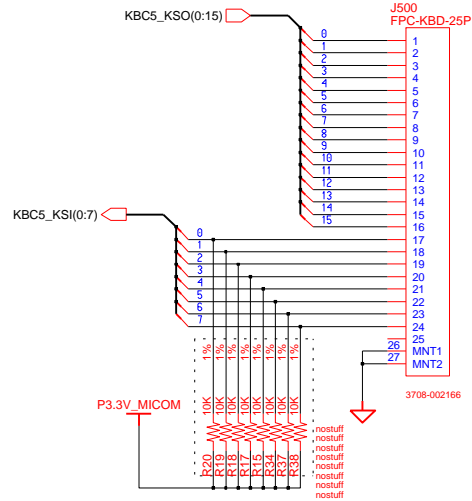


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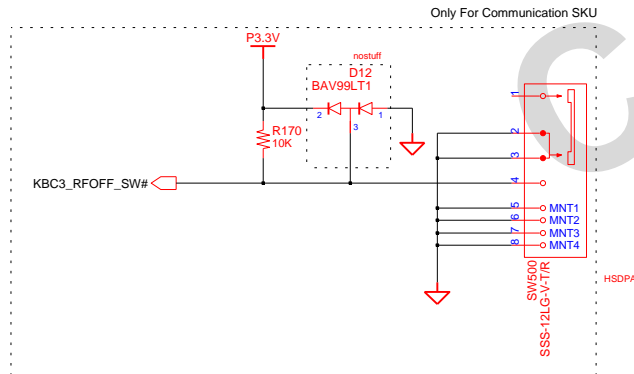
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Micom Glue Logic

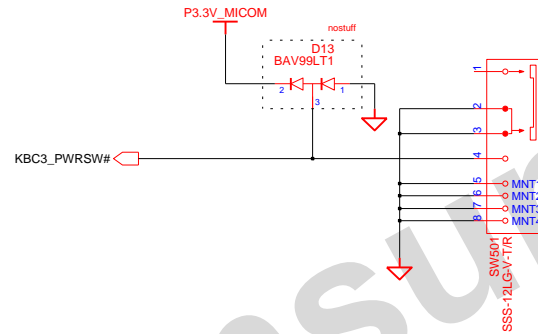
KEYBOARD



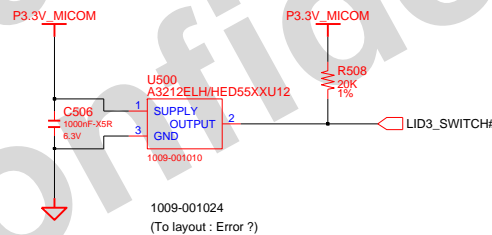
RF ON/OFF Slide Switch



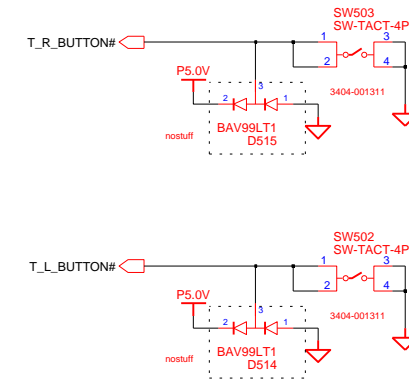
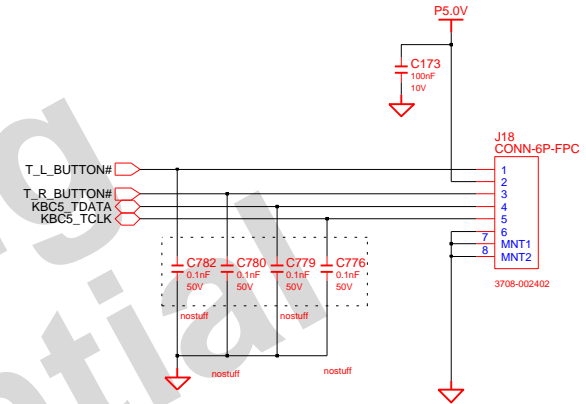
Power Slide Switch



LID_SWITCH



TOUCHPAD

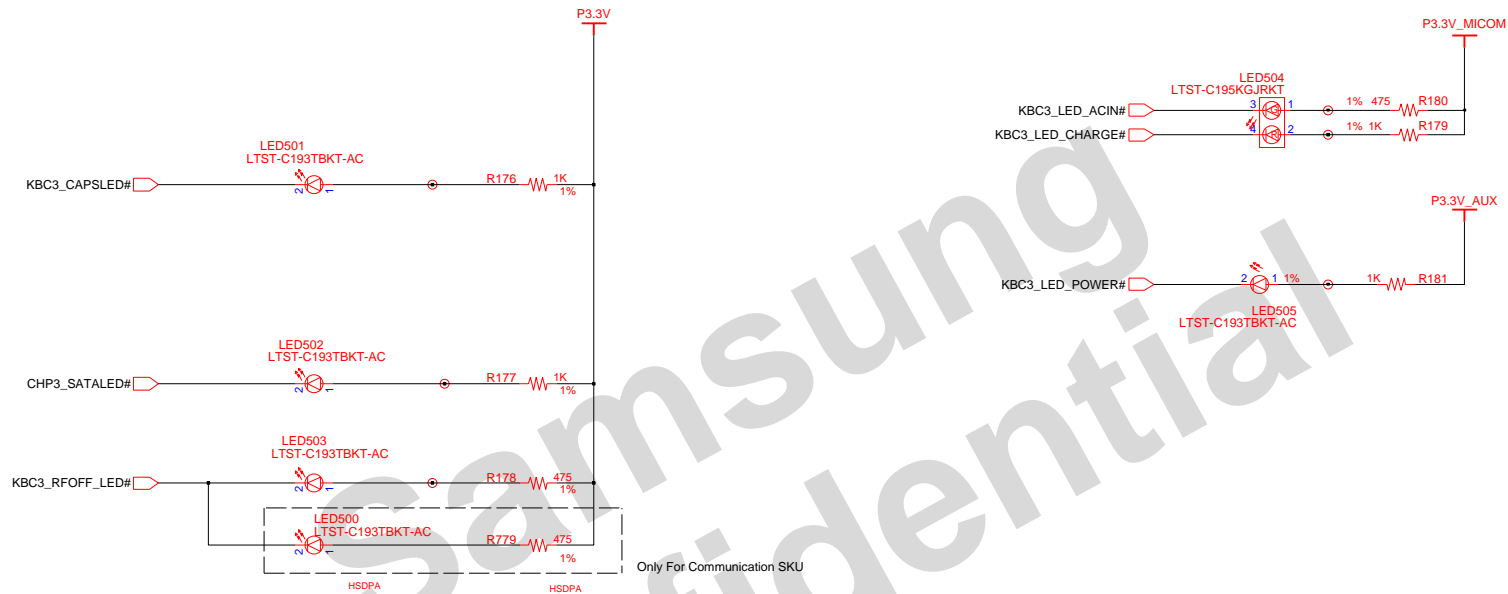


DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON MICOM	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2		MICOM GLUE LOGIC	PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	31	OF 43

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LED SWITCH LOGIC

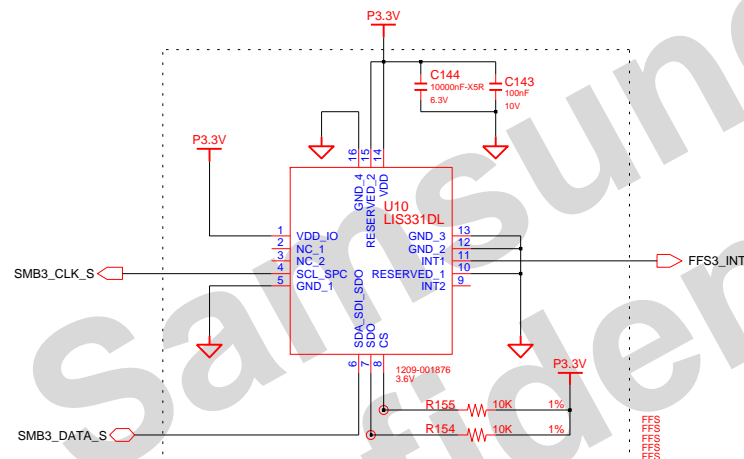


DRAW	BRANDON MIN	DATE	8/12/2006	TITLE	BLOOMINGTON LED_Switch	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2		LED_Switch	PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	32	OF 43

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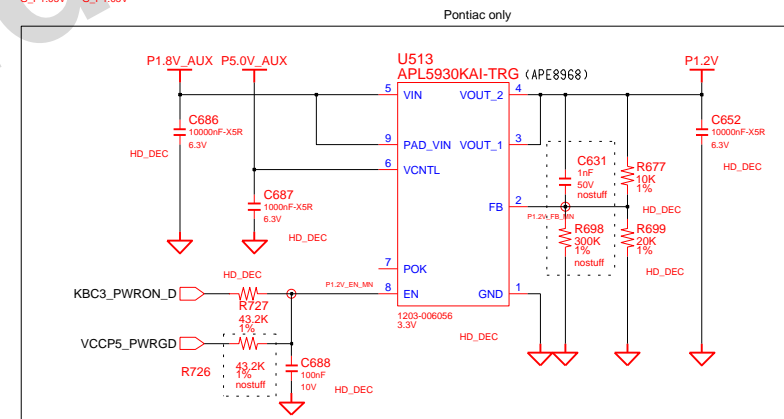
FREE FALL SENSOR



DRAW	BRANDON MIN	DATE	8/12/2006	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2	PWR_Memory	PWR_Memory	ELECTRONICS
APPROVAL	BJ LEE	REV	0.9	PWR_Memory	PART NO.	BA41-XXXXXX
MODULE CODE	undefined	LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	33	OF 43

[illegible]

DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE		BLOOMINGTON POWER		SAMSUNG ELECTRONICS	
CHECK	BK PARK	REV. STEP	PV-2						
APPROVAL	BJ LEE	REV	0.9	CPU VRM		PART NO.		BA41-XXXXXX	
MODULE CODE	LAST EDIT		October 31, 2009 11:50:03 AM			PAGE	34	OF 43	

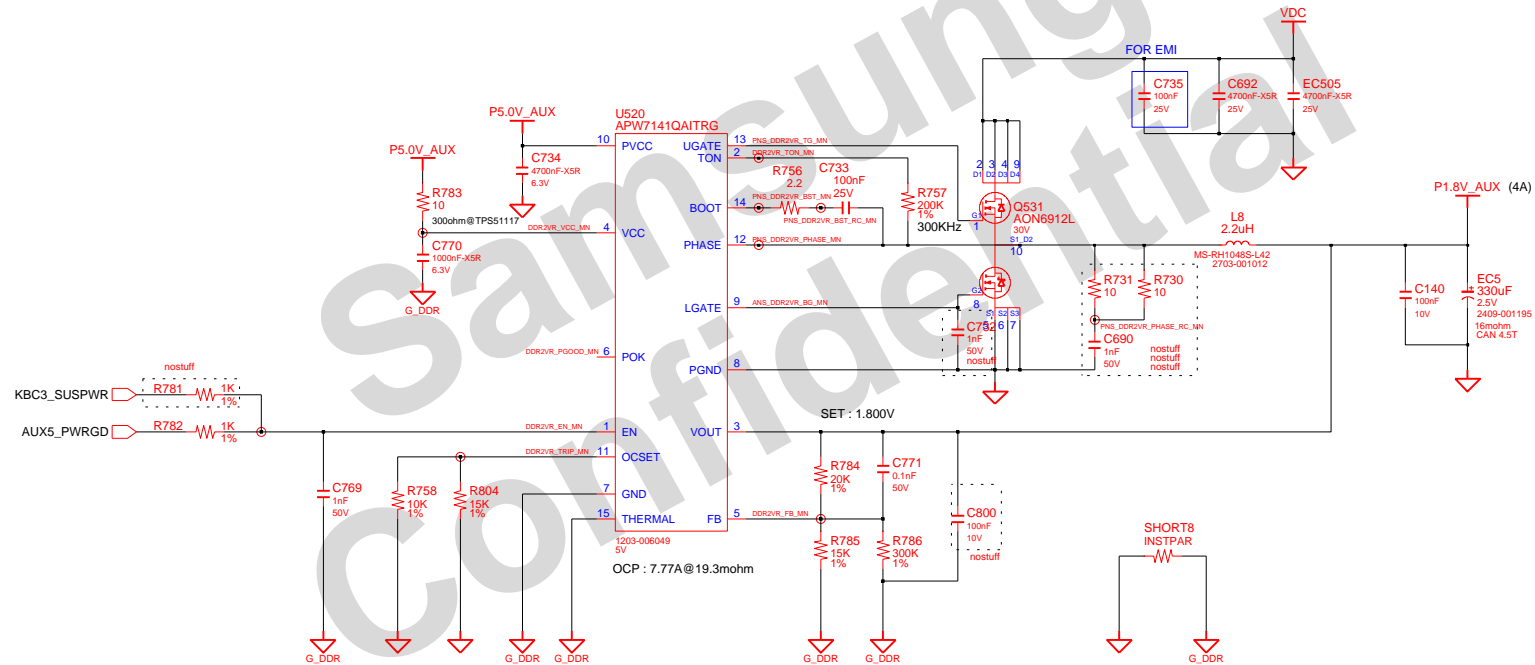
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DRAW		DATE		TITLE		SAMSUNG	
BRANDON MIN		01/08/2009		BLOOMINGTON		ELECTRONICS	
CHECK		DEV. STEP		Chipset Power		PART NO.	
BK PARK		PV-2		P1.05V / P1.2V /P1.5V		BA41-XXXXXX	
APPROVAL		REV					
BJ LEE		0.9					
MODULE CODE		LAST EDIT		October 31, 2009 11:50:03 AM		PAGE 35 OF 43	
undefined							

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DDR2 Power (P1.8V_AUX)

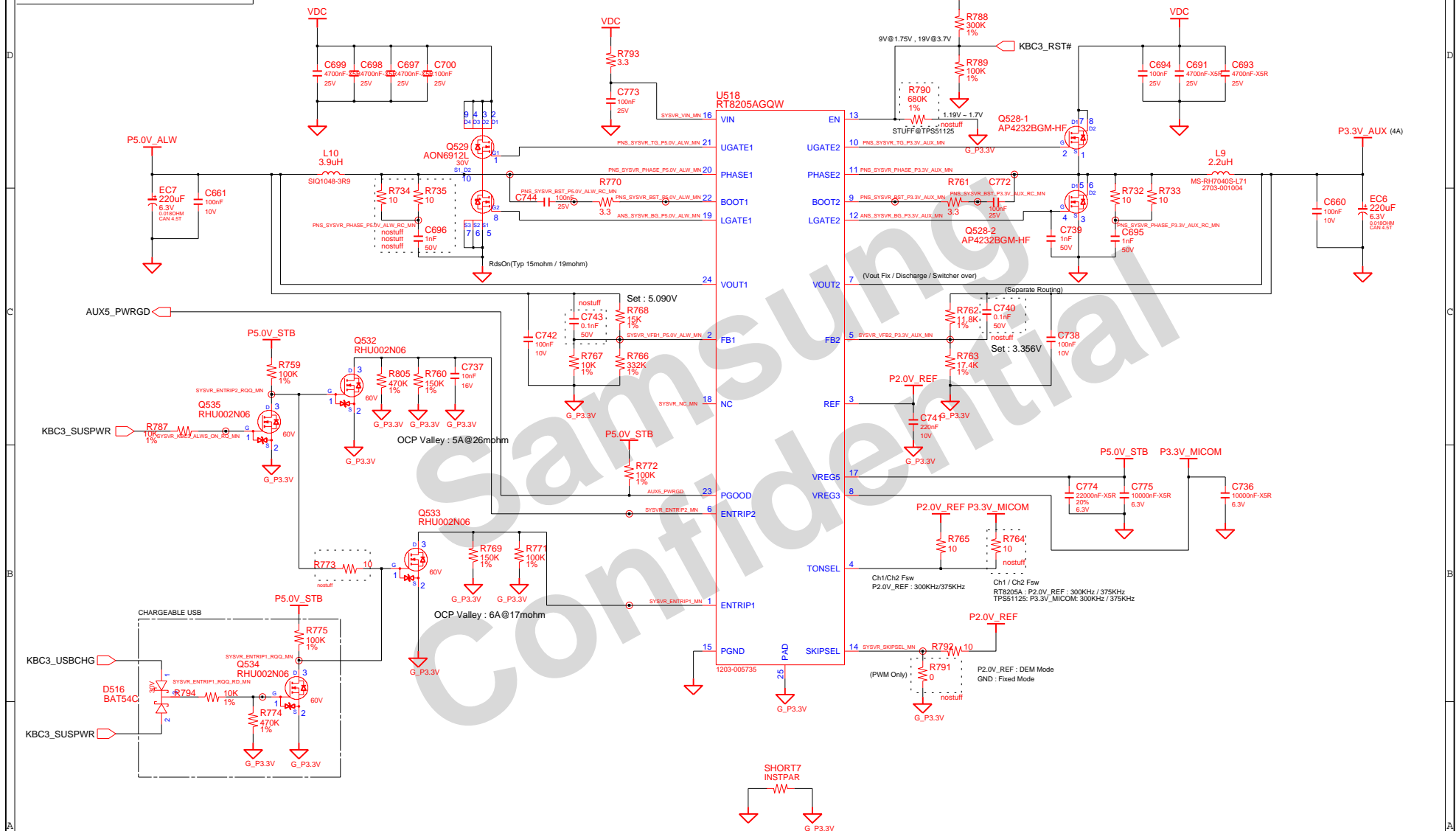


DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2	PWR_Memory		ELECTRONICS
APPROVAL	BJ LEE	REV	0.9	P1.8V_AUX		PART NO. BA41-XXXXXX
MODULE CODE	undefined	LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	36	OF 43

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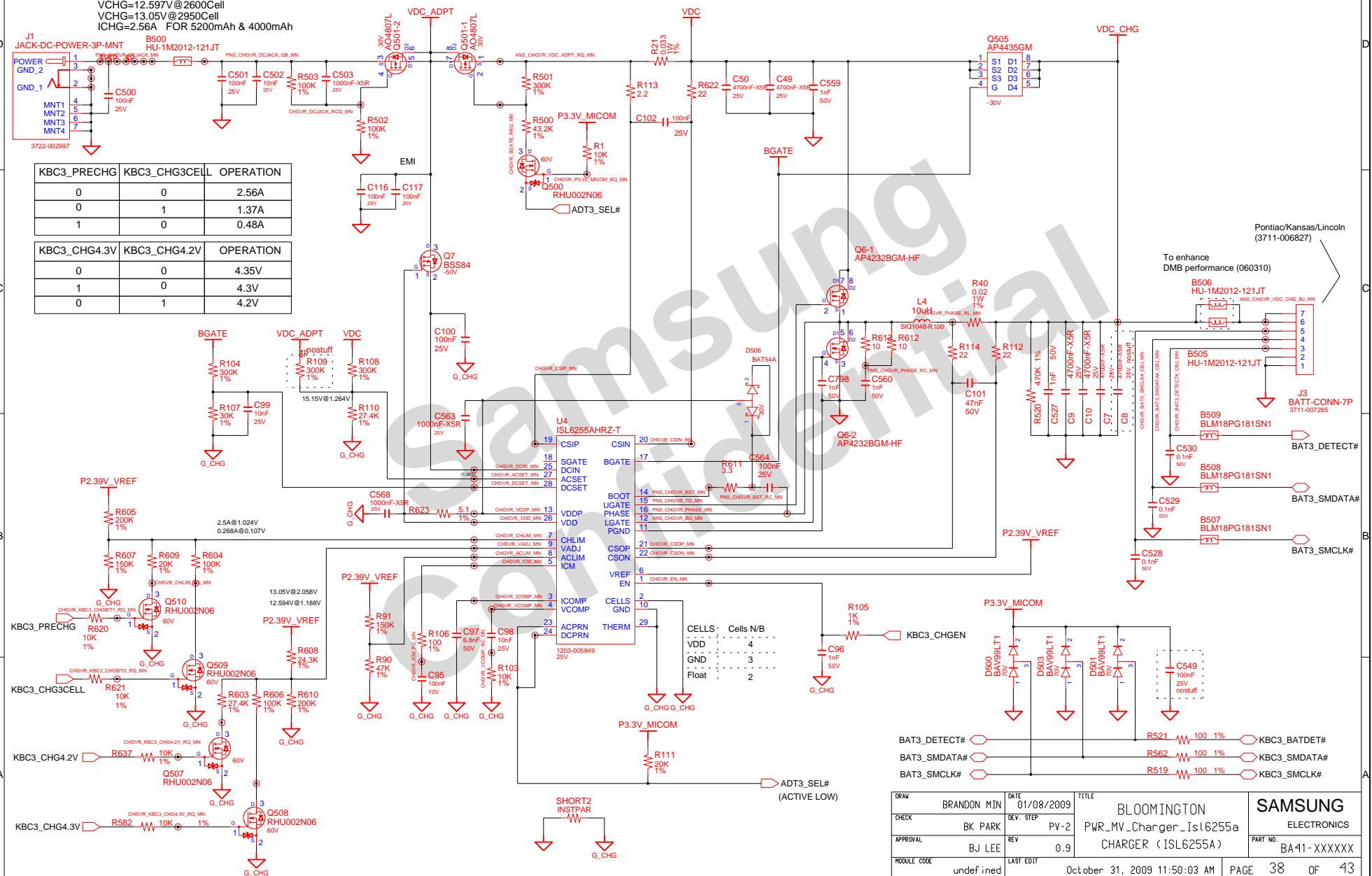
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P3.3V_AUX & P5.0V_ALW



DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2		PWR_MV_3V_5V	ELECTRONICS
APPROVAL	BJ LEE	REV	0.9		P3.3V_AUX / P5.0V_AUX	PART NO. BA41-XXXXXX
MODULE CODE	undefined	LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	37	OF 43

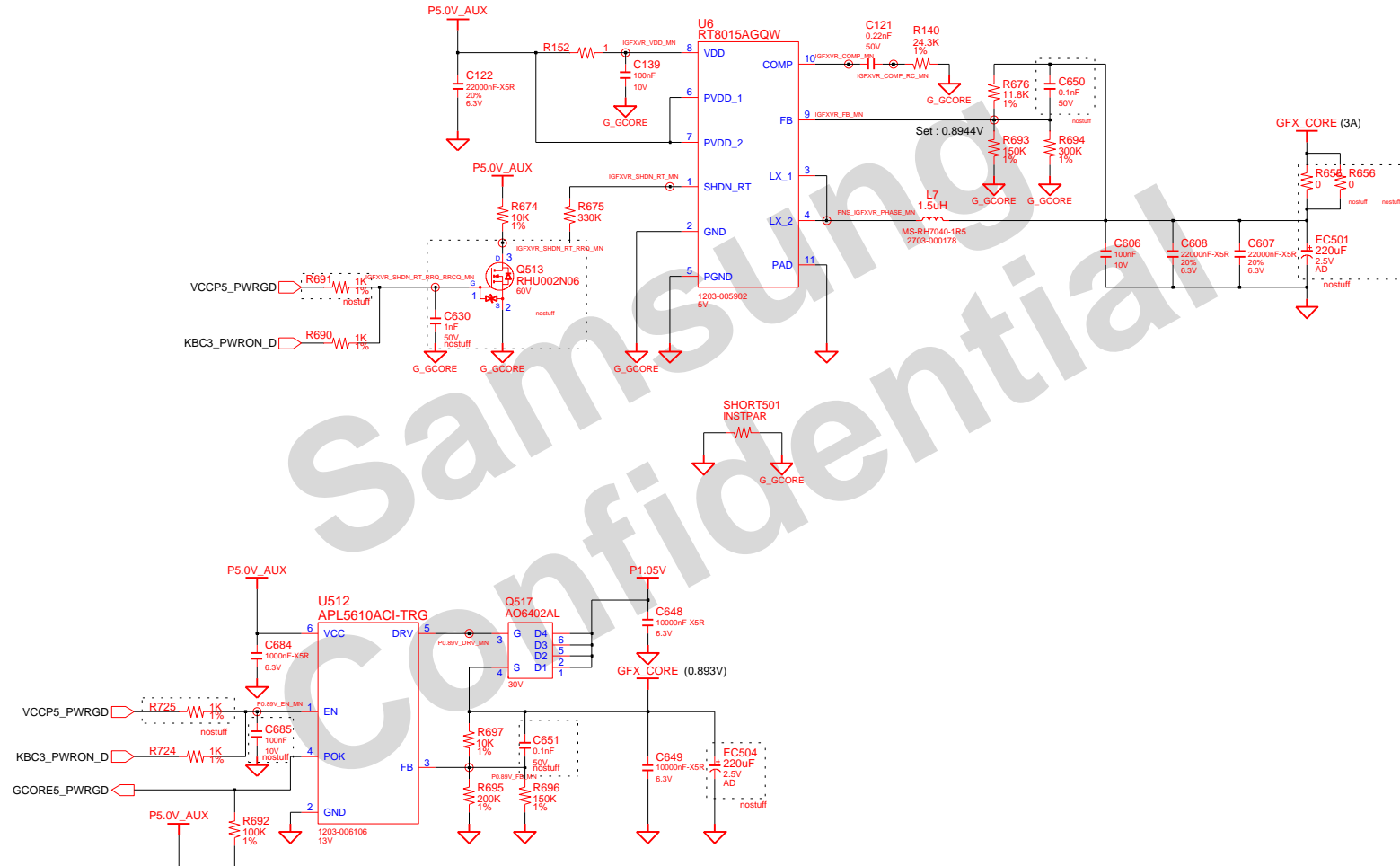
VCHG=12.597V@2600Cell
VCHG=13.05V@2950Cell
ICHG=2.56A FOR 5200mAh & 4000mAh



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Graphic Core PWR (0.89V)

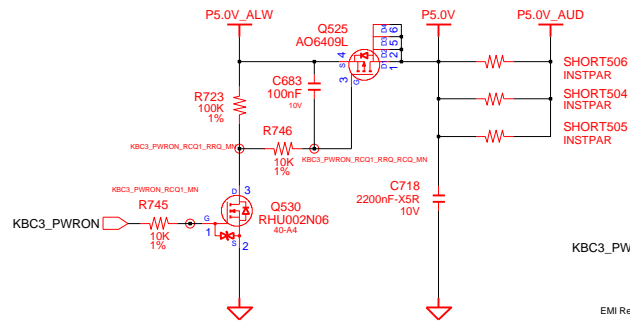


DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON INT GFX POWER 0.89V	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	39	OF 43

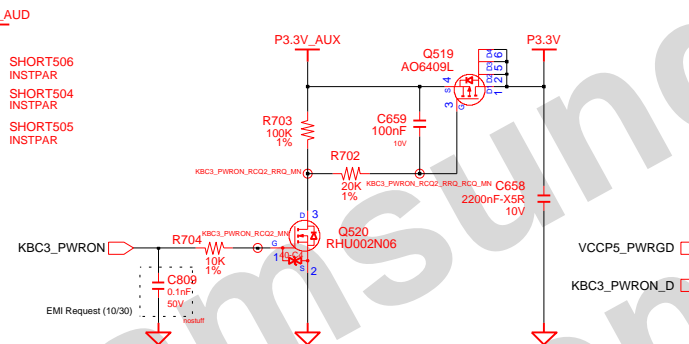
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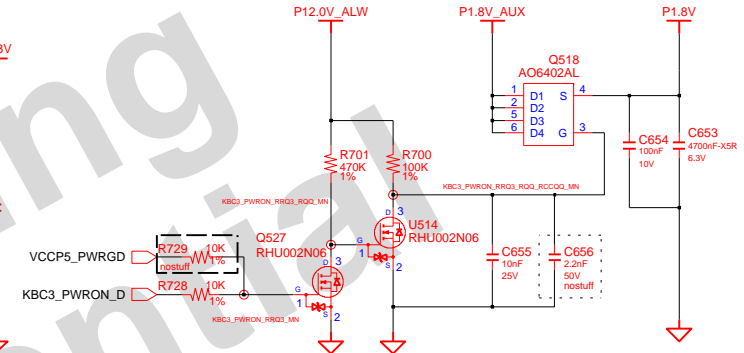
Load Switch Control (P5.0V)



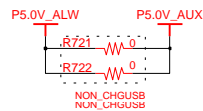
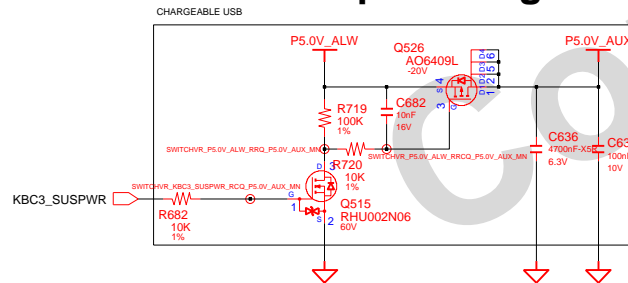
Load Switch Control (P3.3V)



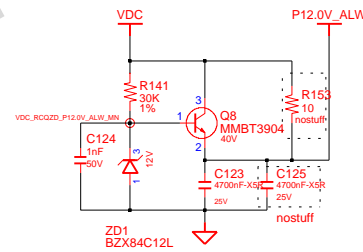
Load Switch Control (P1.8V)



Sleep'n Charger



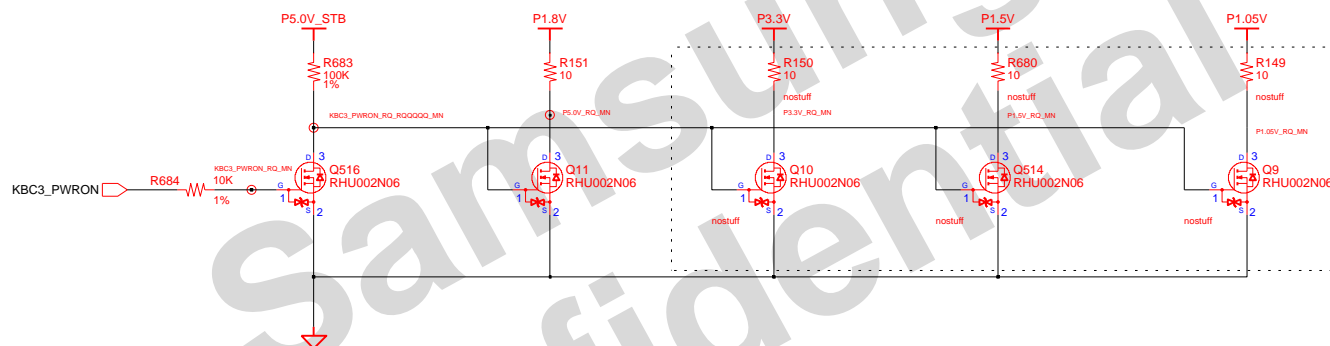
P12V_ALW



DESIGN	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON	SAMSUNG
CHECK	BK PARK	DEV. STEP	PV-2		Switched PWR	ELECTRONICS
APPROVAL	BJ LEE	REV	0.9		Switched PWR	PART NO. BA41-XXXXXX
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	40	OF 43

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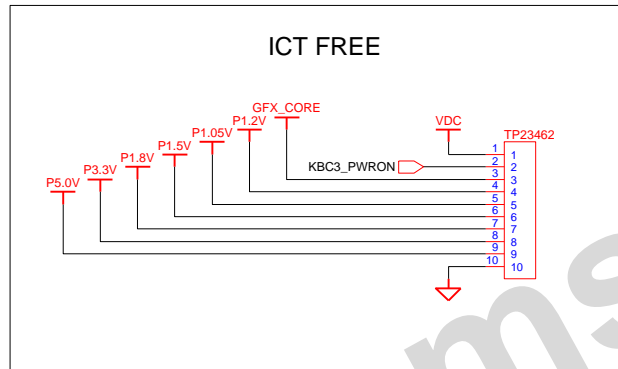
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PWR Discharger

DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON Discharger	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2		Discharger	PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	41	OF 43

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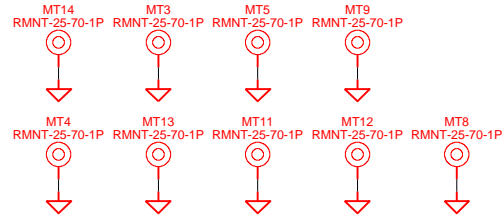
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CHECK	BK PARK	DEV. STEP	PV-2		ITP FREE	PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	42	OF 43

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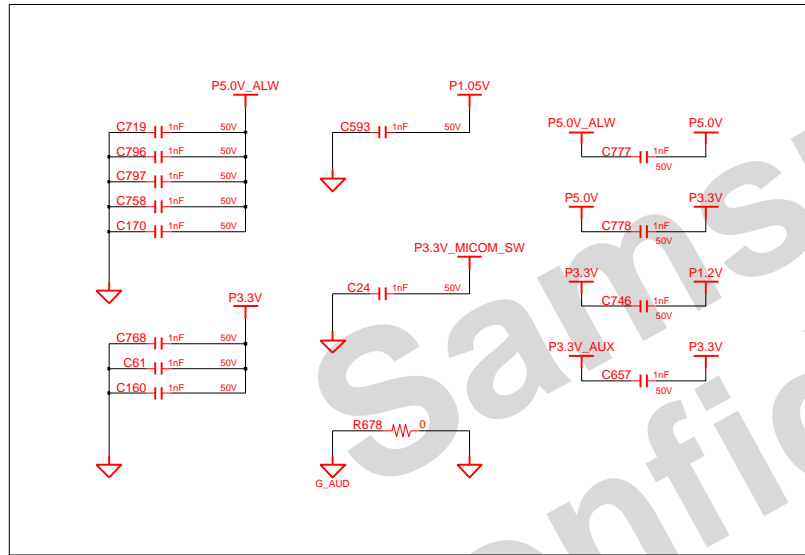
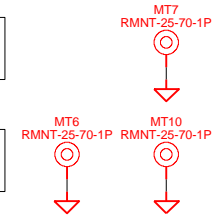
**M/B
+
Bottom**

KBD

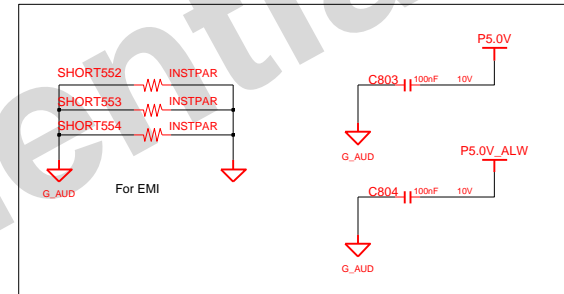


**Top + Bottom
(Bottom side)**

**Top + Bottom
(Topside)**

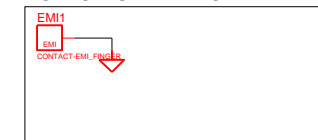


FOR EMI (09/25)



PCB REVISION CONTROL (ICT)				
NO	CONNECTION	DATE(Y/M/DD)	REVISION	STEP
1	N.C.			
2	1-2			
3	2-3			
4	3-1			
5	1-2-3			
6	N.C.			
7	1-2			
8	2-3			
9	3-1			
10	1-2-3			

BOTTOM SIDE EMI CLIP



DRAW	BRANDON MIN	DATE	01/08/2009	TITLE	BLOOMINGTON TP ETC	SAMSUNG ELECTRONICS
CHECK	BK PARK	DEV. STEP	PV-2			PART NO. BA41-XXXXXX
APPROVAL	BJ LEE	REV	0.9			
MODULE CODE		LAST EDIT	October 31, 2009 11:50:03 AM	PAGE	43	OF 43