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HSF Property: ROHS or Halogen-Free

CALVIN UMA

MV BUILD

2012.04.02

02_APR_2012	2012-ECO-005067	A
DATE	CHANGE NO.	REV

DRAWER				POWER				INVENTEC			
Edi Chen	02_APR_2012	IRAY CHEN	02_APR_2012	Edi Chen	02_APR_2012	IRAY CHEN	02_APR_2012	TITLE MODEL PROJECT FUNCTION			
Edi Chen	02_APR_2012	IRAY CHEN	02_APR_2012	Edi Chen	02_APR_2012	IRAY CHEN	02_APR_2012	CALVIN UMA MB			
RESPONSIBLE				VER				DOC NUMBER			
A3				A02				1310A24664-D-ALG			
FILE NAME: CALVIN_UMA_MB_1310A2466401				SIZE: A3				REV: 1			
PN: 6050A2466401				SHEET				of 68			

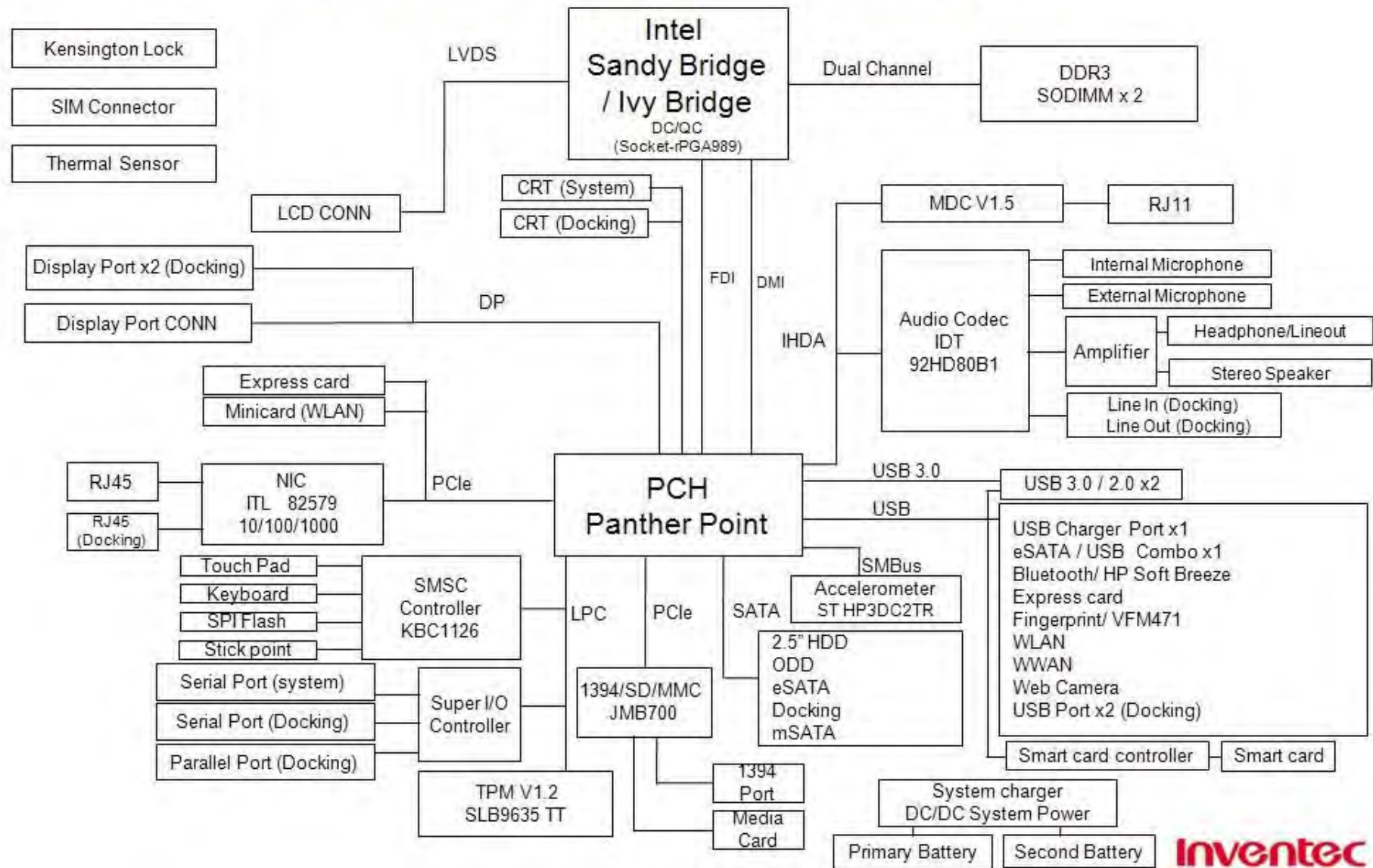
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	46. USB CONN	

INVENTEC

TITLE			
MODEL PROJECT.FUNCTION TABLE OF CONTENTS			
SIZE	CODE	DOC NUMBER	REV
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SHEET		2 of 95	

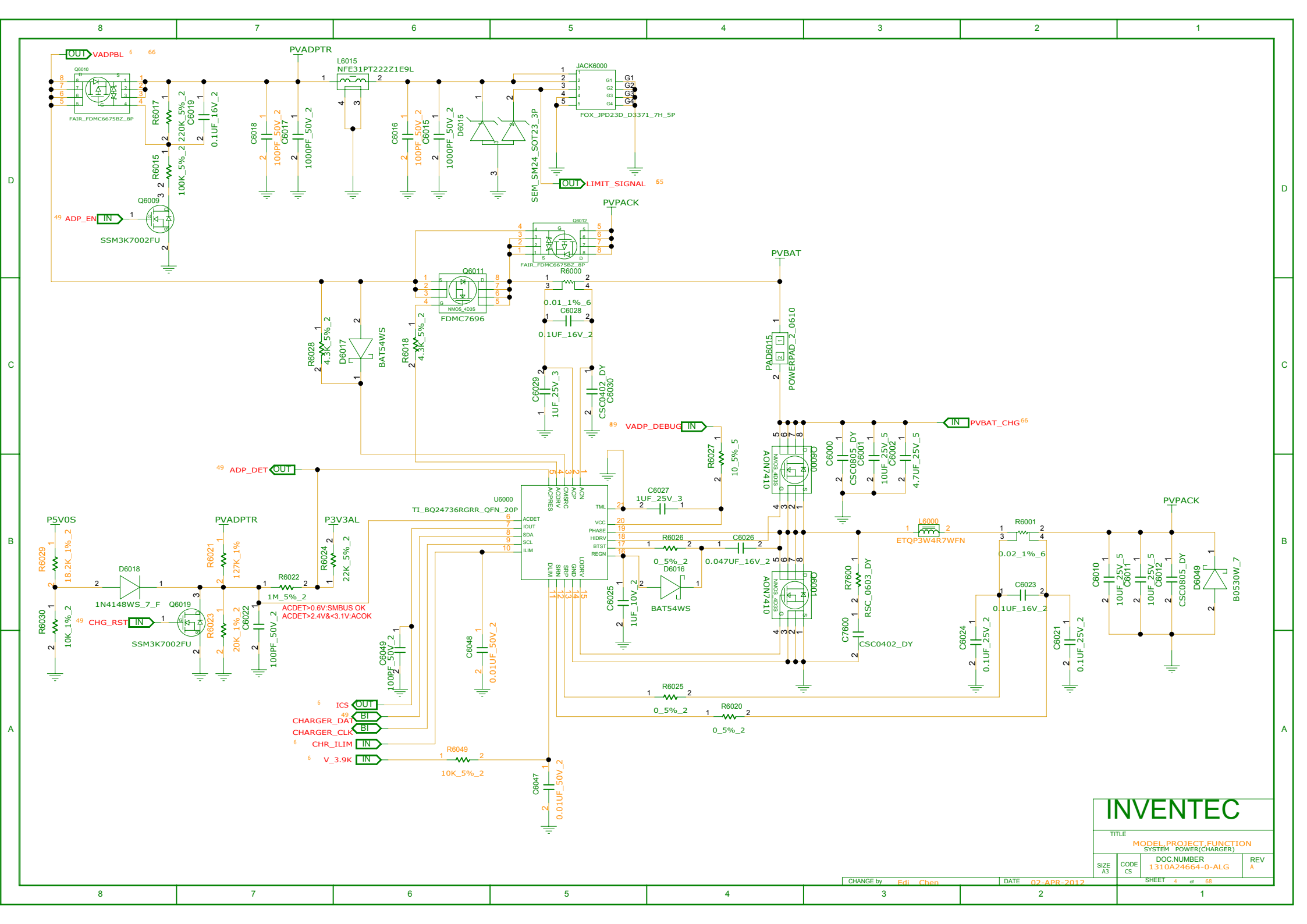
CALVIN UMA Block Diagram



Inventec

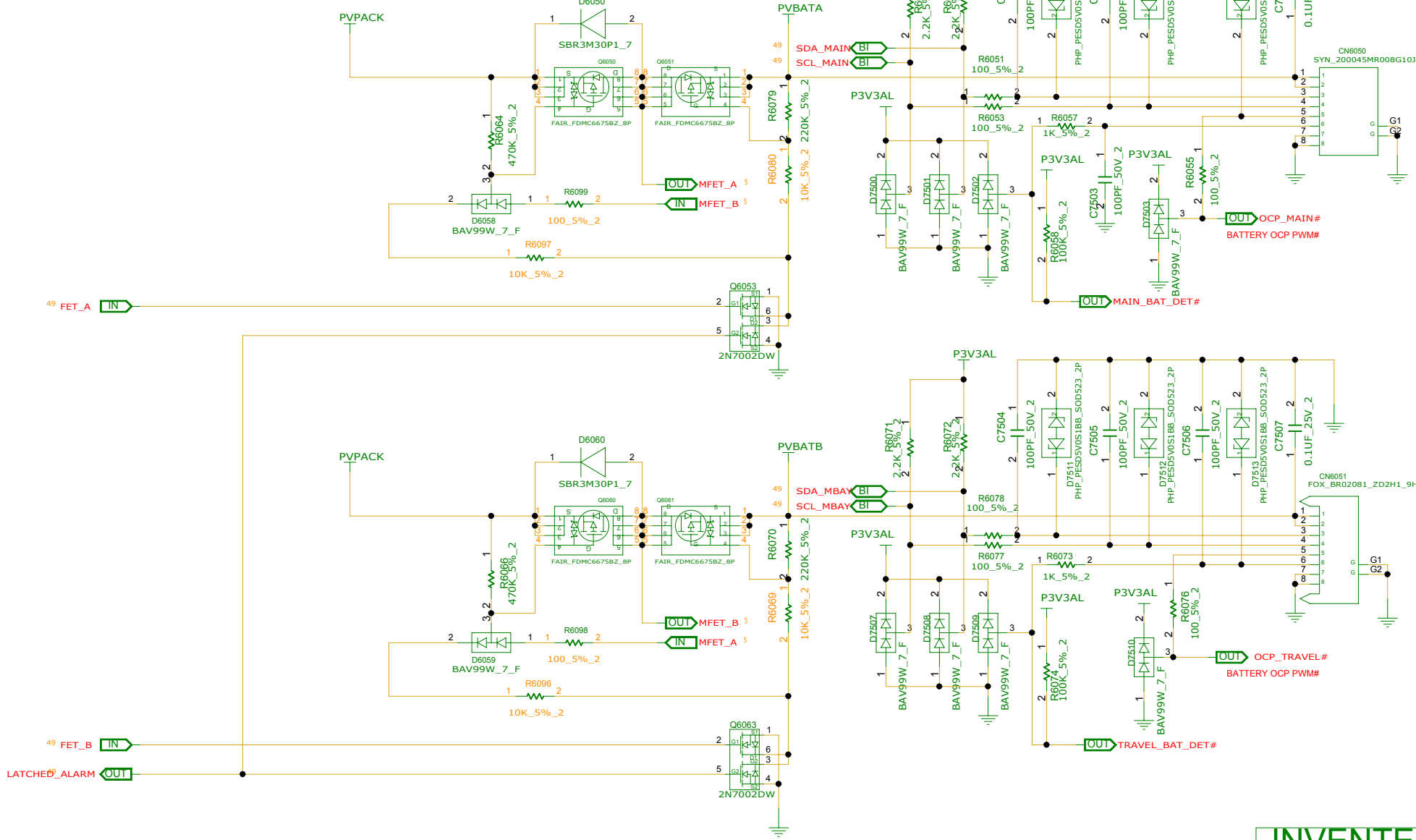
INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE		CODE	REV
A3	CS	1310A24664-0-ALG	A



INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(CHARGER)			
DOC NUMBER		REV	
1310A24664-0-ALG		A	
SIZE	CODE	SHEET	
A3	CS	4 of 68	

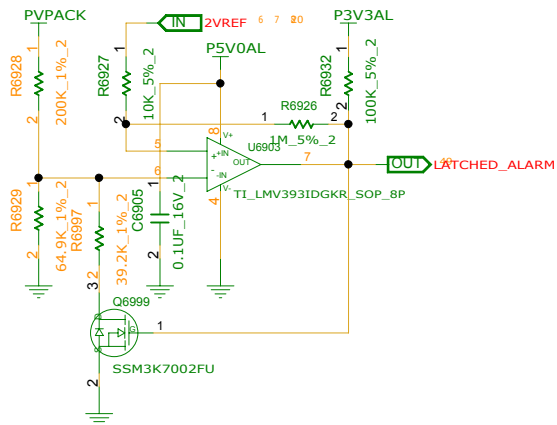
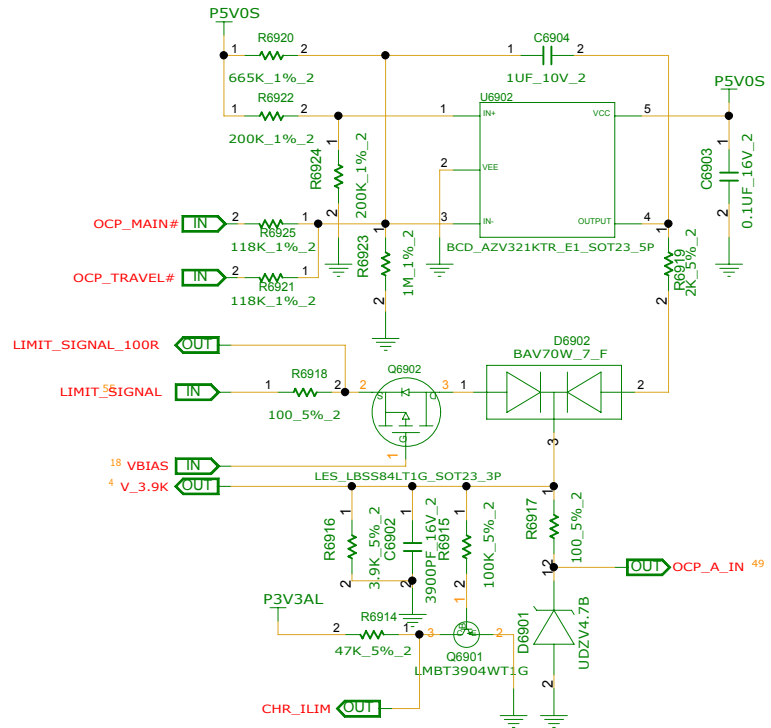
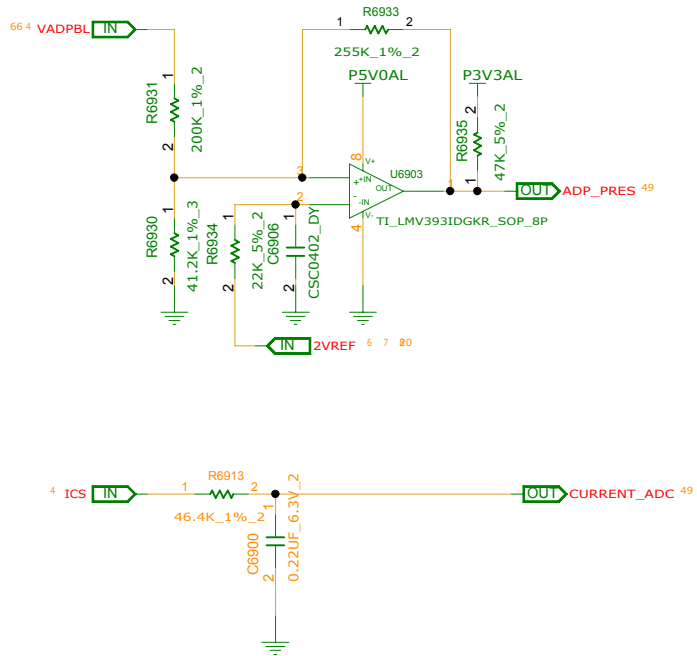


INVENTEC

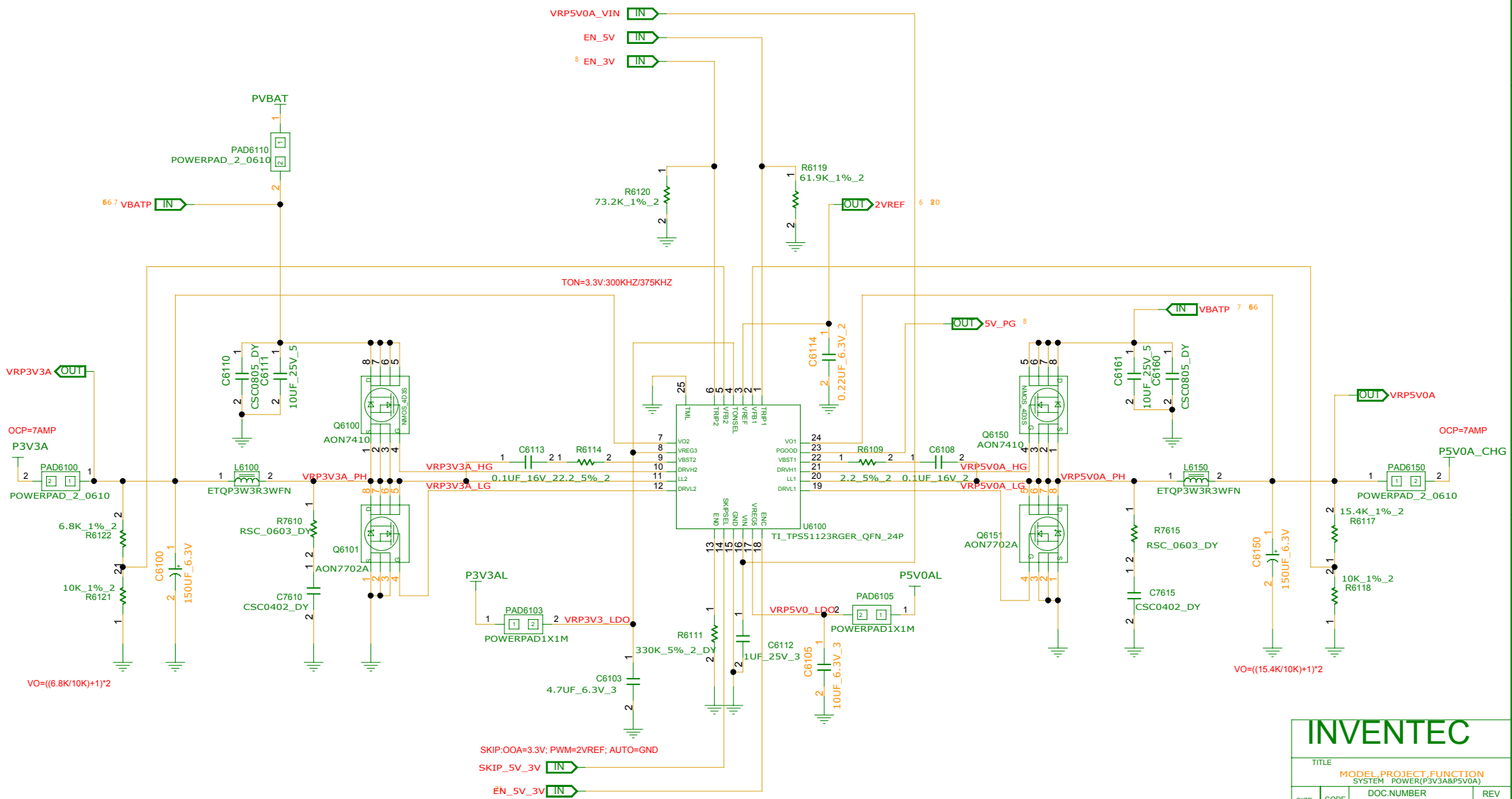
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SYSTEM POWER(BATT_SELECTOR)

DOC NUMBER: 1310A24664-0-ALG REV A

SIZE A3 CODE CS



INVENTEC			
TITLE MODEL PROJECT FUNCTION SYSTEM POWER(OCP)			
SIZE A3		CODE CS	
DOC NUMBER 1310A24664-0-ALG		REV A	
CHANGE by Edi Chen		DATE 02-APR-2012	
SHEET 6		of 68	



SKIP:OOA=3.3V; PWM=2VREF; AUTO=GND

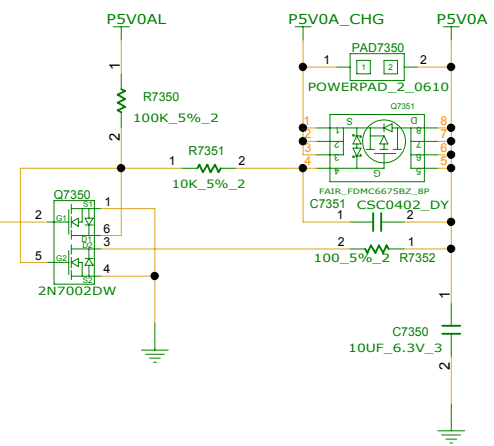
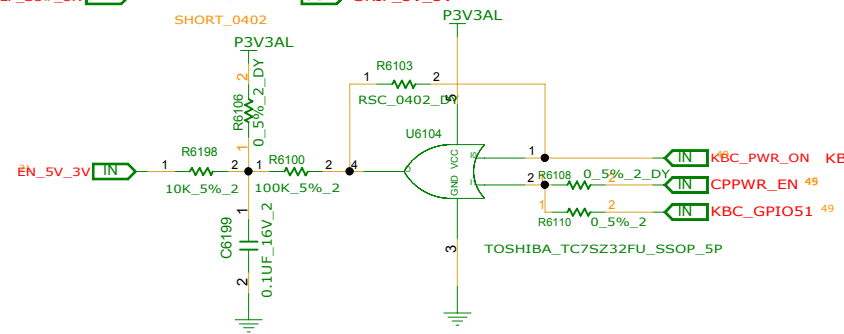
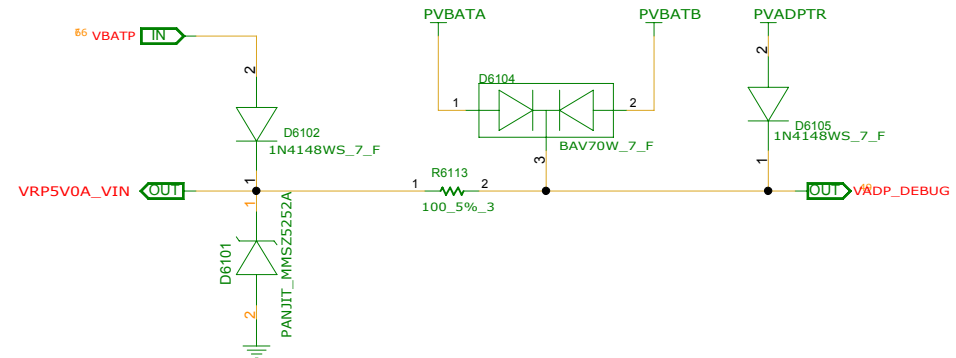
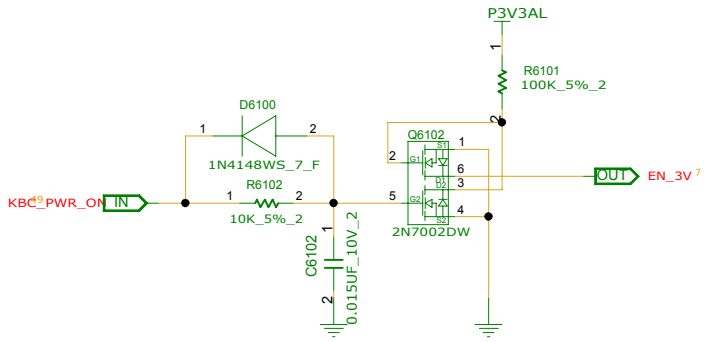
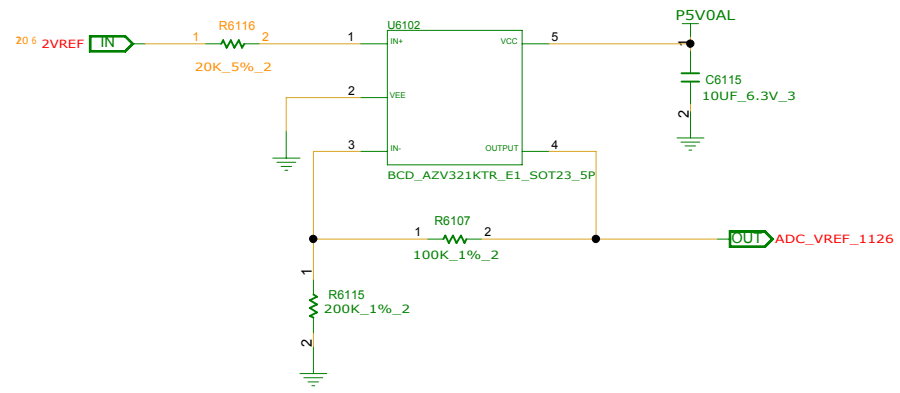
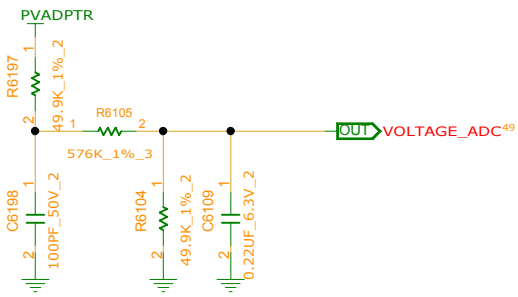
SKIP_5V_3V

EN_5V_3V

$VO=(6.8K/10K+1)*2$

$VO=(15.4K/10K+1)*2$

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(P3V3&P5V0A)			
DOC NUMBER		REV	
1310A24664-0-ALG		A	
SIZE	CODE	SHEET	
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INVENTEC			
TITLE MODEL PROJECT FUNCTION P3V5A&P5V0A_CHG_PORT			
SIZE A3		CODE CS	
DOC NUMBER 1310A24664-0-ALG		REV A	
CHANGE by Edu Chen DATE 02-APR-2012 SHEET 8 of 68			

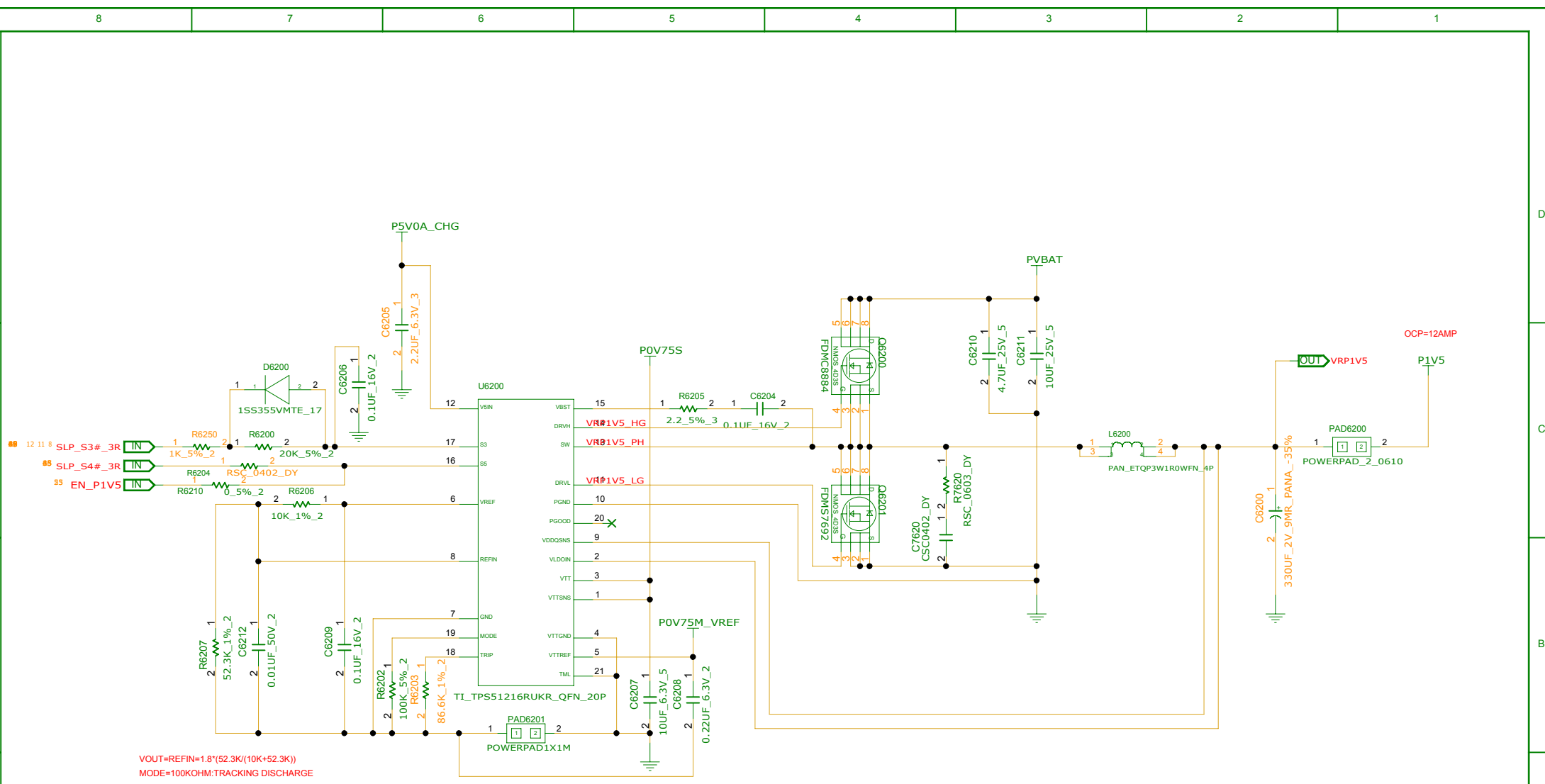


Table 1. S3/S5 Power State Control

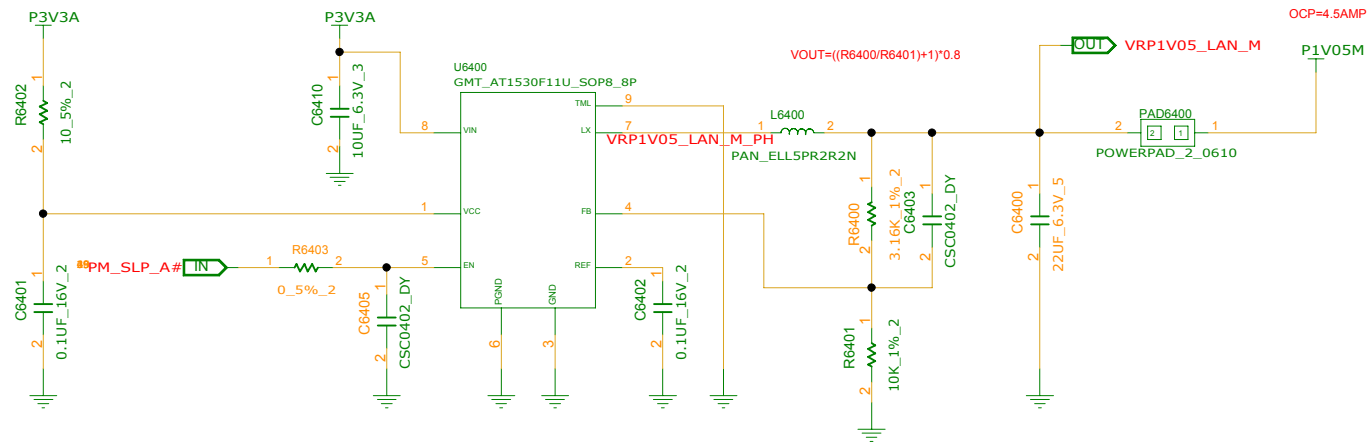
STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

INVENTEC

TITLE
MODEL PROJECT_FUNCTION
SYSTEM POWER(P1V5)

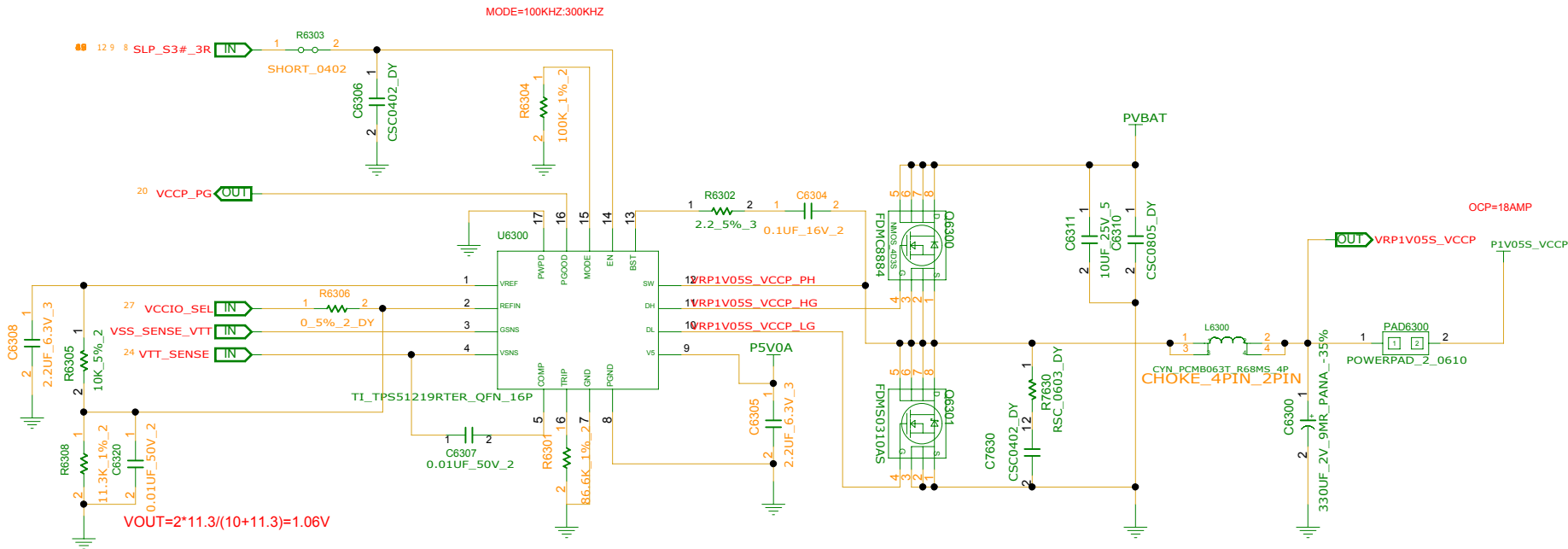
DOC NUMBER
1310A24664-0-ALG

REV
A

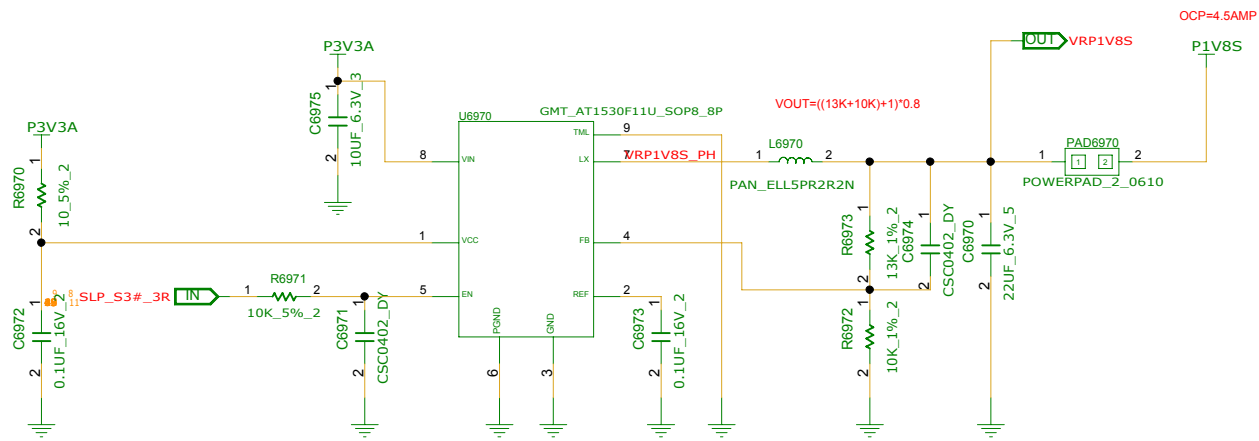


INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(P1V05_LAN_M)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A

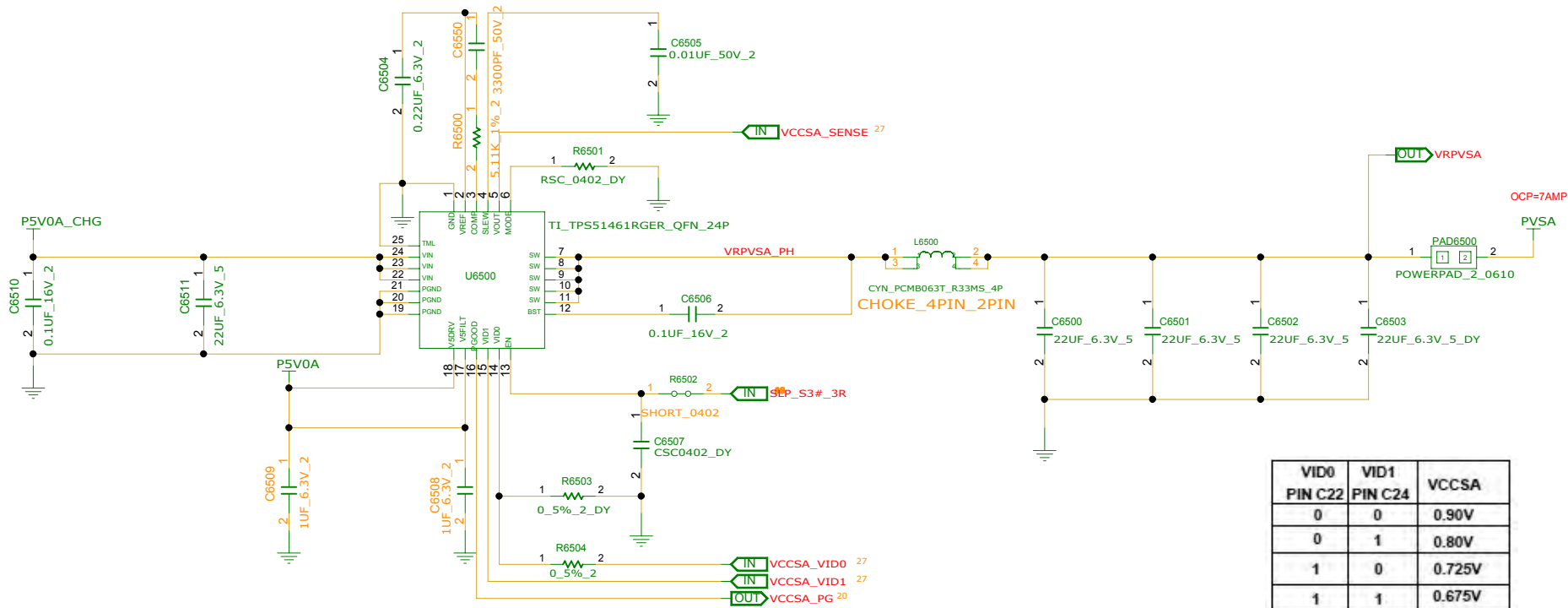


INVENTEC			
TITLE			
MODEL PROJECT FUNCTION SYSTEM POWER(P1V05S_VCCP)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
CHANGE by Edi Chen		DATE 02-APR-2012	SHEET 11 of 68



INVENTEC

TITLE			
MODEL PROJECT FUNCTION SYSTEM POWER(P1V8S)			
SIZE A3		CODE CS	REV A
DOC NUMBER 1310A24664-0-ALG		SHEET 12 of 68	



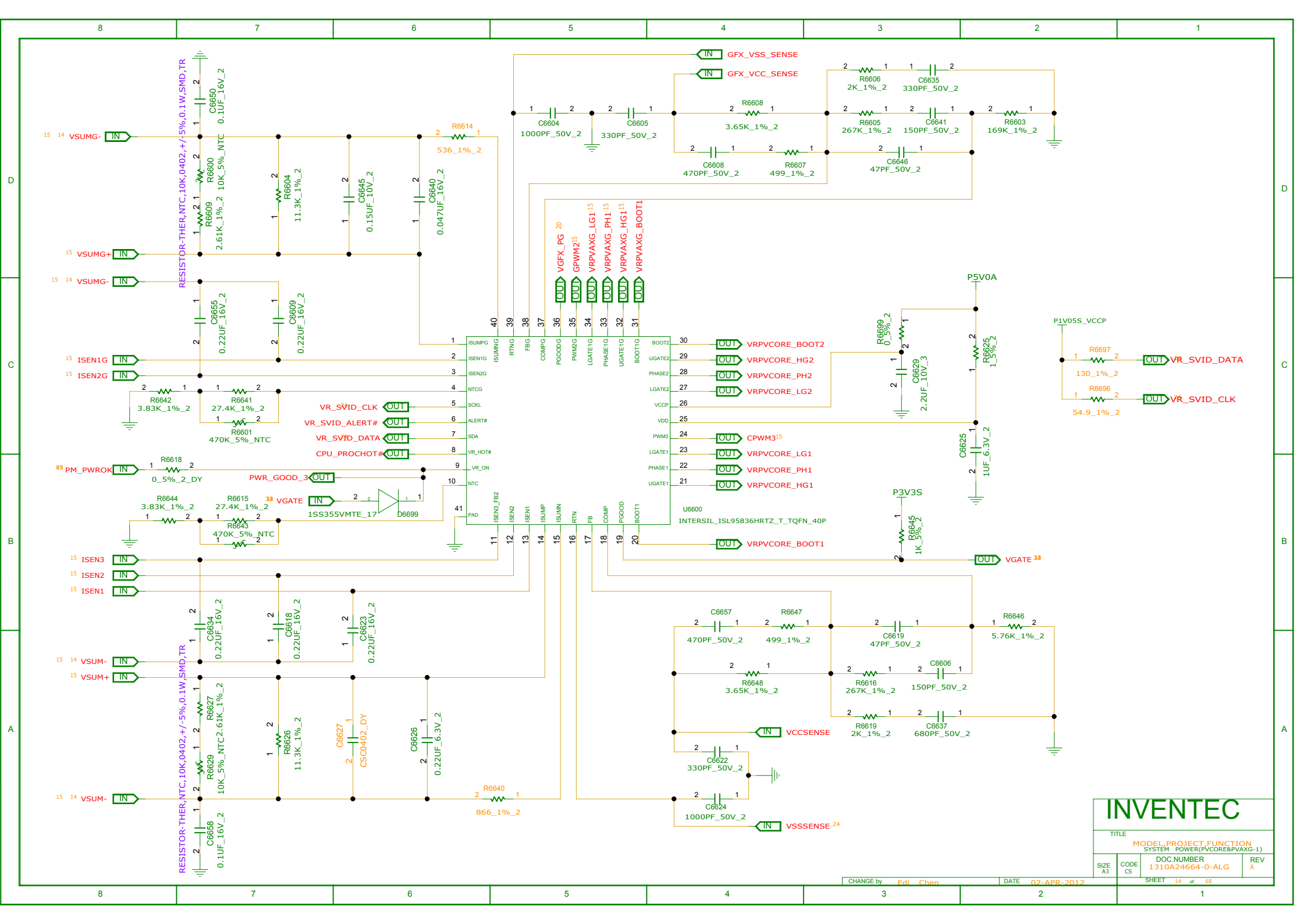
VID0 PIN C22	VID1 PIN C24	VCCSA
0	0	0.90V
0	1	0.80V
1	0	0.725V
1	1	0.675V

INVENTEC

TITLE
MODEL PROJECT,FUNCTION
SYSTEM POWER(PVSA)

SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
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SHEET 13 of 68



INVENTEC

TITLE: MODEL PROJECT FUNCTION SYSTEM POWER(PV CORE&PVXG-1)

DOC NUMBER: 1310A24664-0-ALG

REV: A

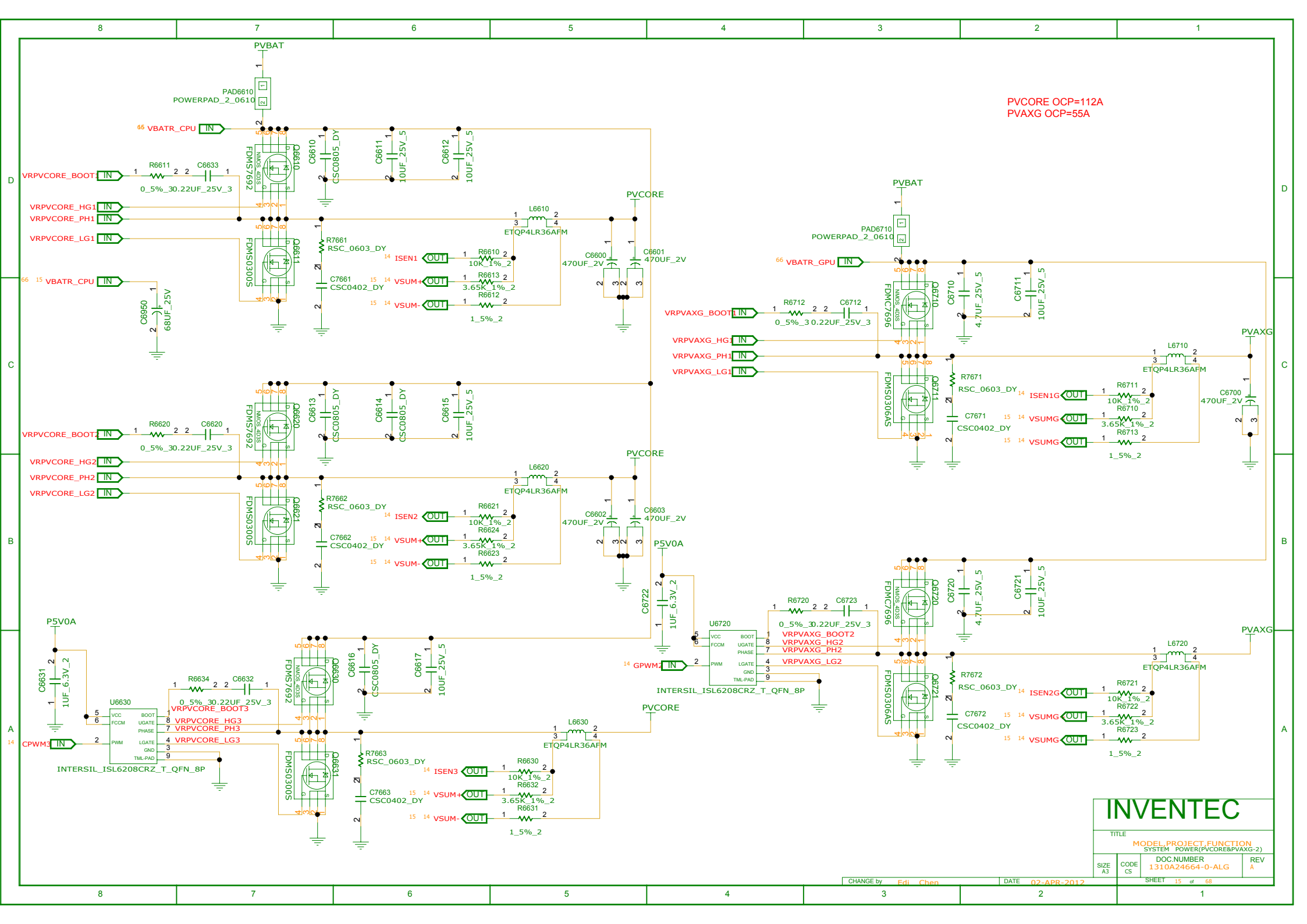
SIZE: A3

CODE: CS

CHANGE by: Edi Chen

DATE: 02-APR-2012

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PVCORE OCP=112A
PVAXG OCP=55A

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION SYSTEM POWER(PVCORE&PVAXG-2)			
DOC NUMBER			
SIZE	CODE	1310A24664-0-ALG	REV
A3	CS		A

8

7

6

5

4

3

2

1

D

D

C

C

B

B

A

A

EMPTY

INVENTEC

TITLE
MODEL PROJECT FUNCTION
PVCORE_DGPU (SPARE)

SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
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CHANGE by **Edu Chen** DATE **02-APR-2012**

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8

7

6

5

4

3

2

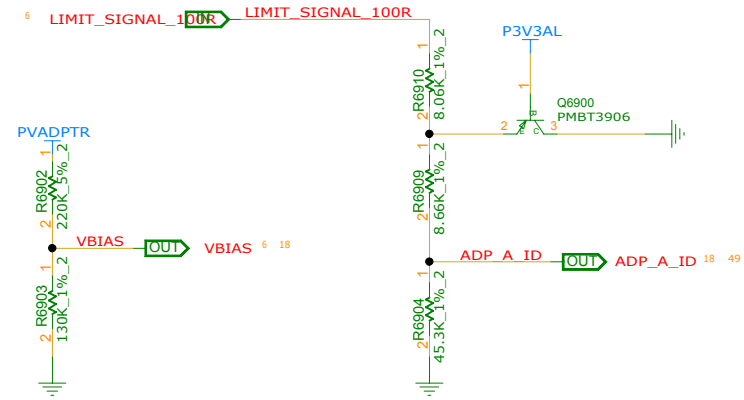
1

EMPTY

INVENTEC

TITLE			
MODEL PROJECT FUNCTION PIV355_DGPU (SPARE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

REFERENCE NUMBER : 6900~6999



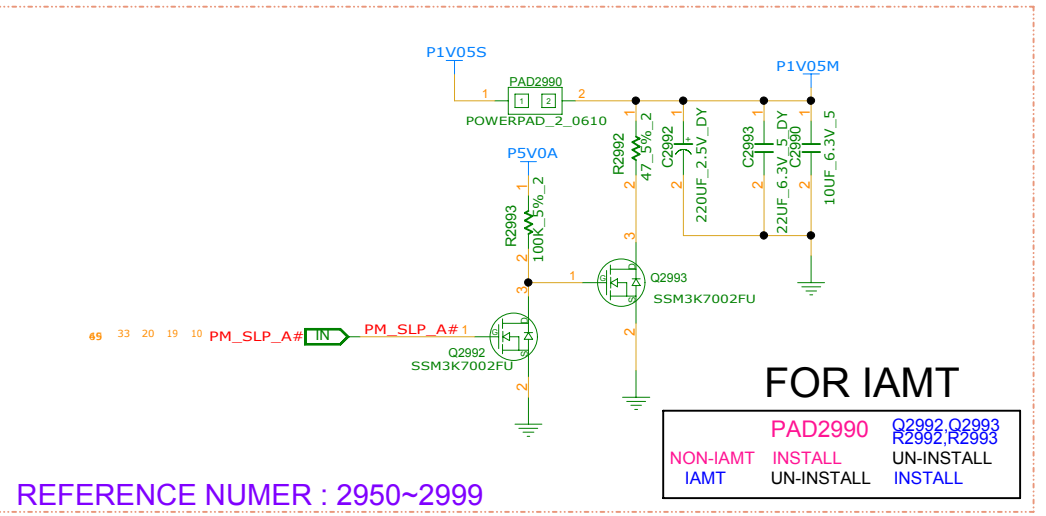
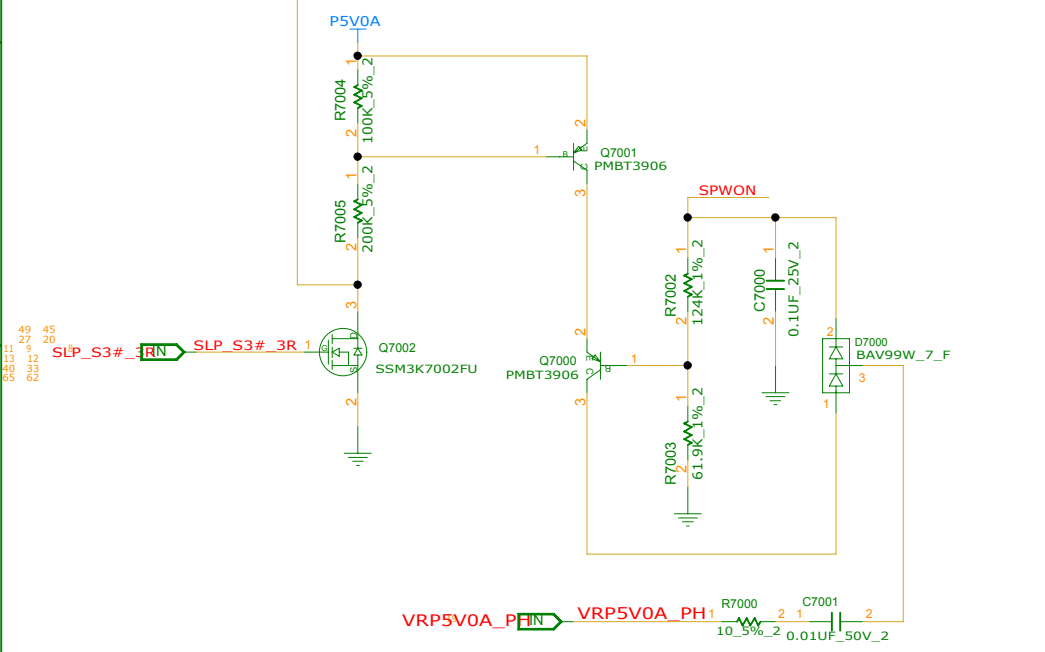
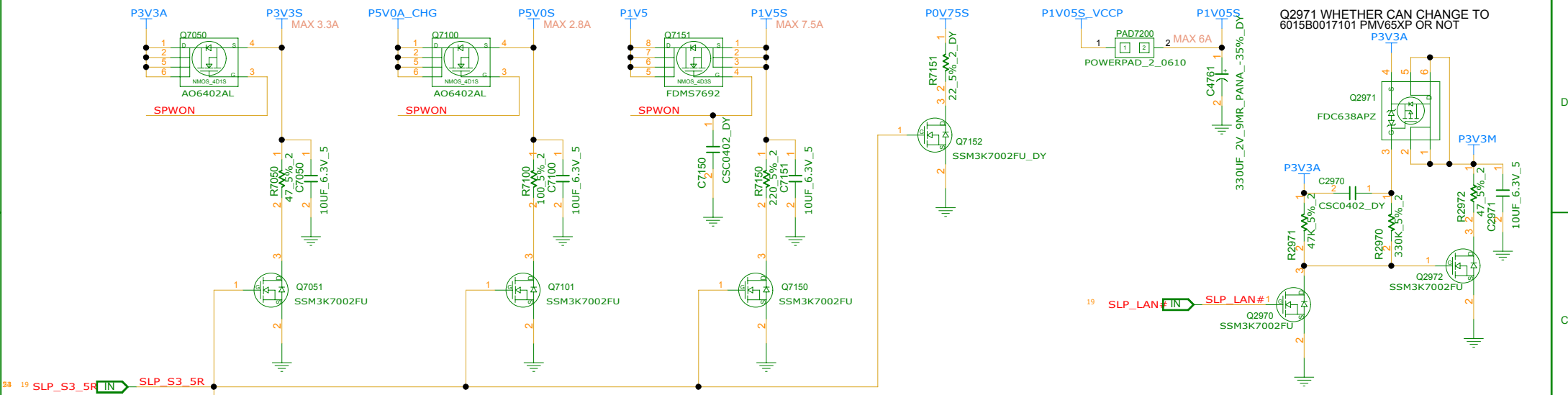
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION HP_OCP			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

CHANGE by **Edu Chen** DATE **02-APR-2012**

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REFERENCE NUMER : 7000~7350



FOR IAMT

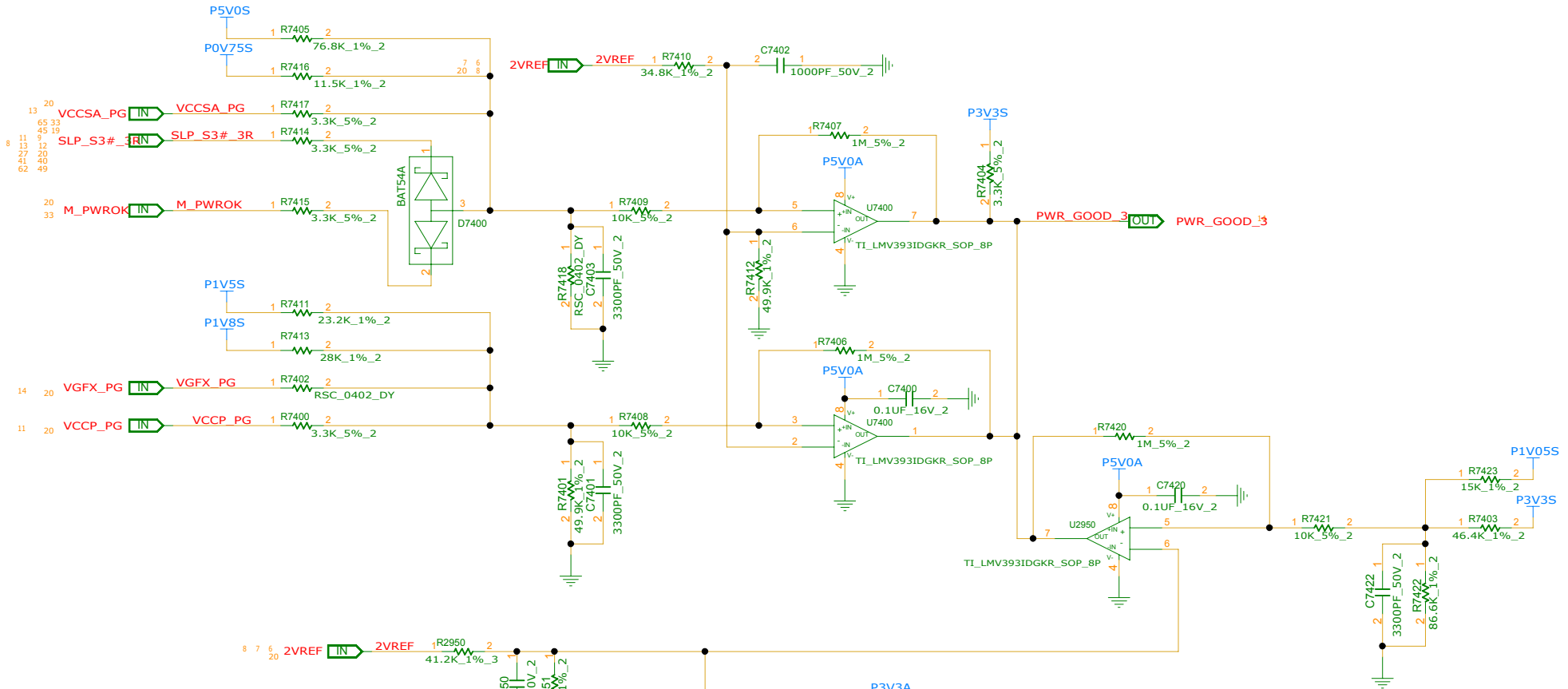
NON-IAMT	PAD2990	Q2992	Q2993
IAMT	INSTALL	UN-INSTALL	INSTALL

REFERENCE NUMER : 2950~2999

INVENTEC

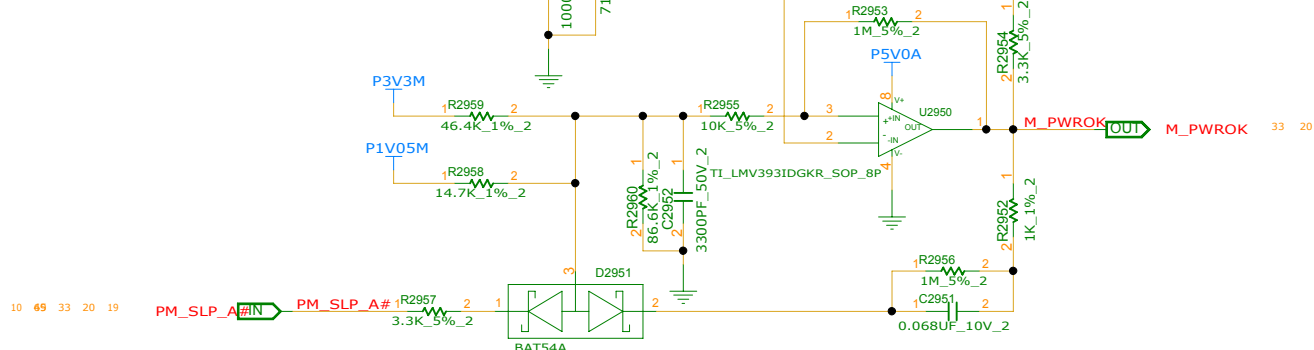
TITLE			
MODEL PROJECT,FUNCTION			
POWER(SLEEP)			
SIZE A3		CODE CS	REV A
DOC NUMBER		1310A24664-0-ALG	
SHEET 19 of 68			

REFERENCE NUMER : 7400~7450



FOR IAMT

REFERENCE NUMER : 2950~2999



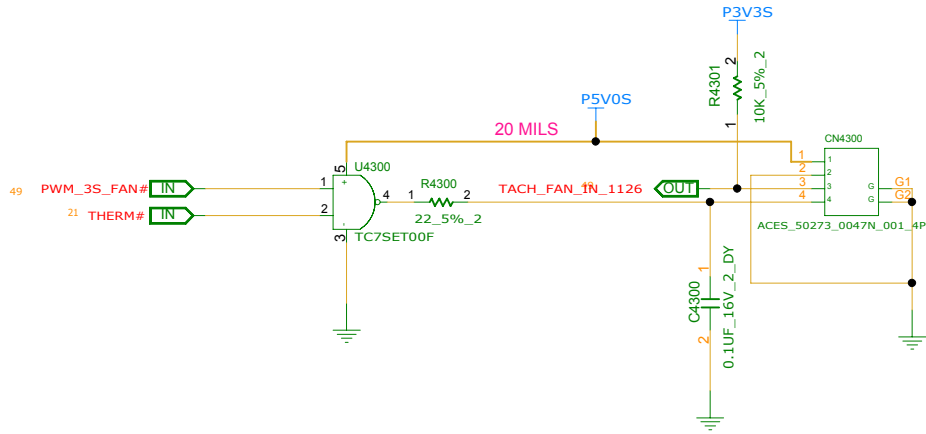
INVENTEC

TITLE MODEL PROJECT,FUNCTION
POWER (SEQUENCE)

DOC NUMBER 1310A24664-0-ALG REV A

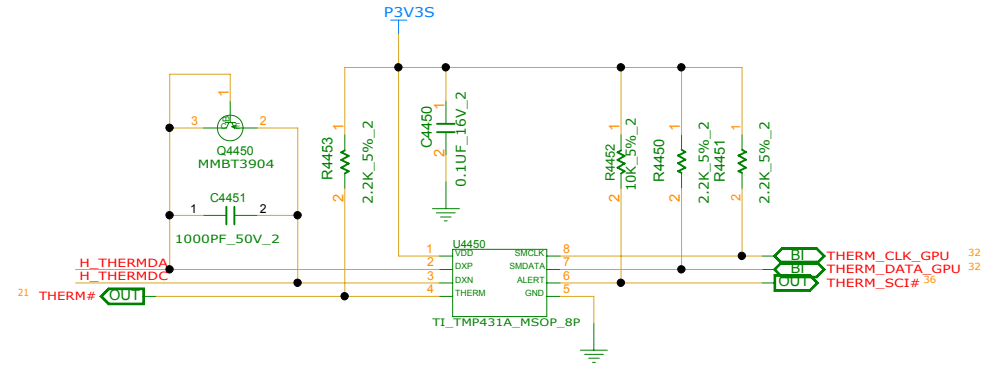
SIZE A3	CODE CS	CHANGE by Edi Chen	DATE 02-APR-2012	SHEET 20 of 68
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REFERENCE NUMBER:4400~4349



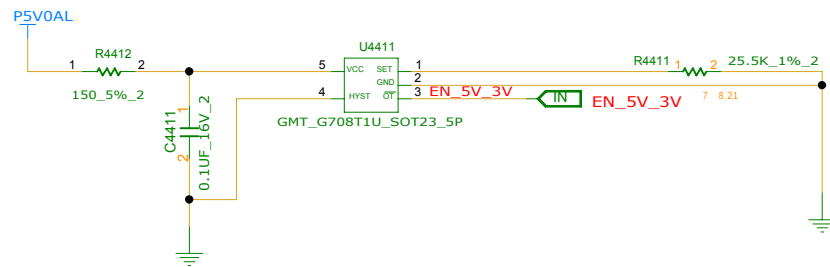
REFERENCE NUMBER:4450~4499

THERM SENSOR



Fan speeds (RPM) :	2500	3300	3800	4300	5000	0	0	0
CPU temperature trip points :	45	57	68	80	91	0	0	0

AMBIENT TEMP SENSE

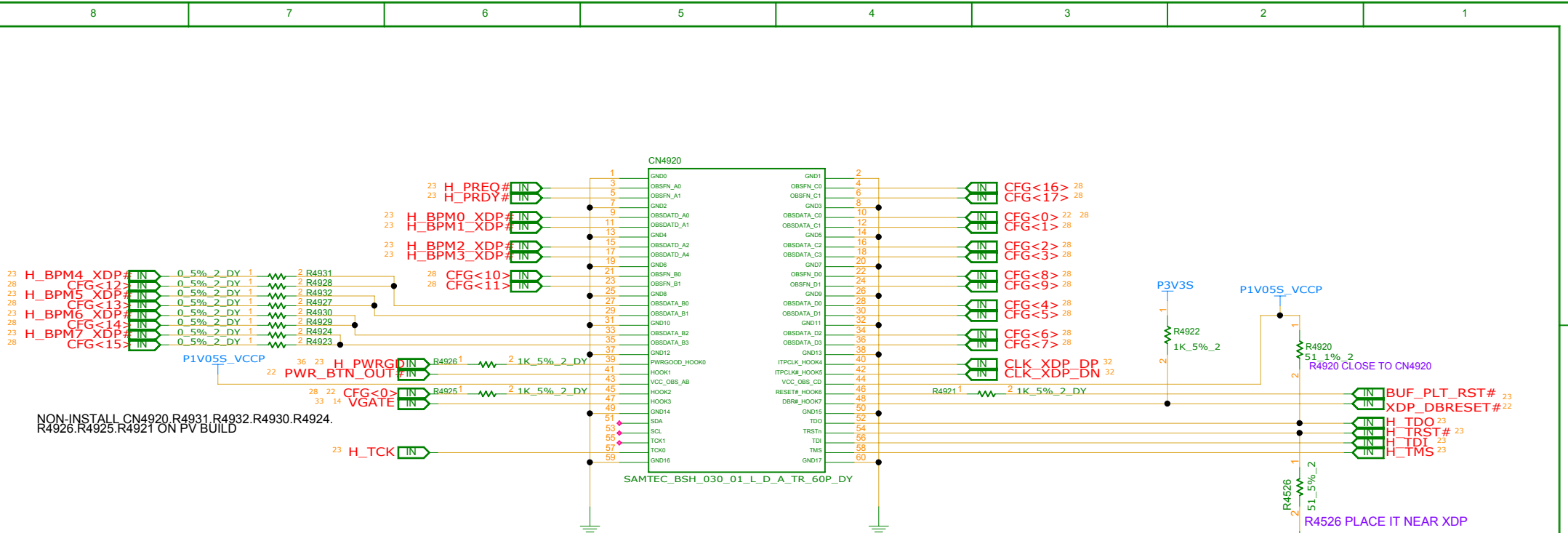


RSET (K OHM) = 0.0012T^2 - 0.9308T + 96.147
THERMAL SHUTDOWN AT 85 DEG.

REFERENCE NUMBER:4411~4449

INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
FAN & THERMAL			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A

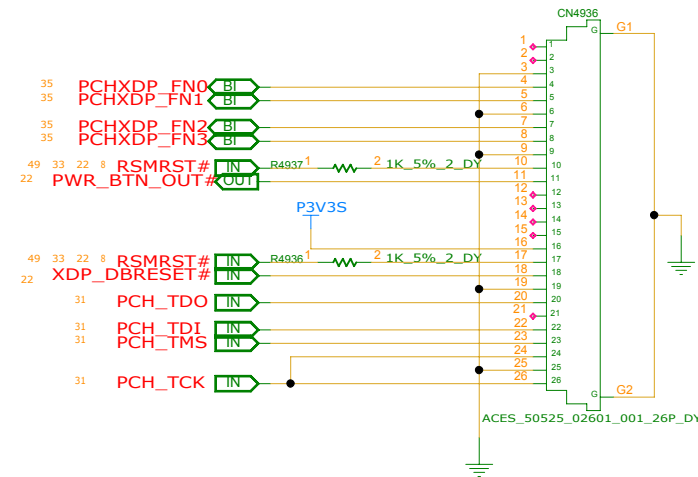


CPU XDP CONNECTOR

NON-INSTALL CN4920,R4931 R4932,R4930,R4924,
R4926,R4925,R4921 ON PV BUILD

R4920 CLOSE TO CN4920

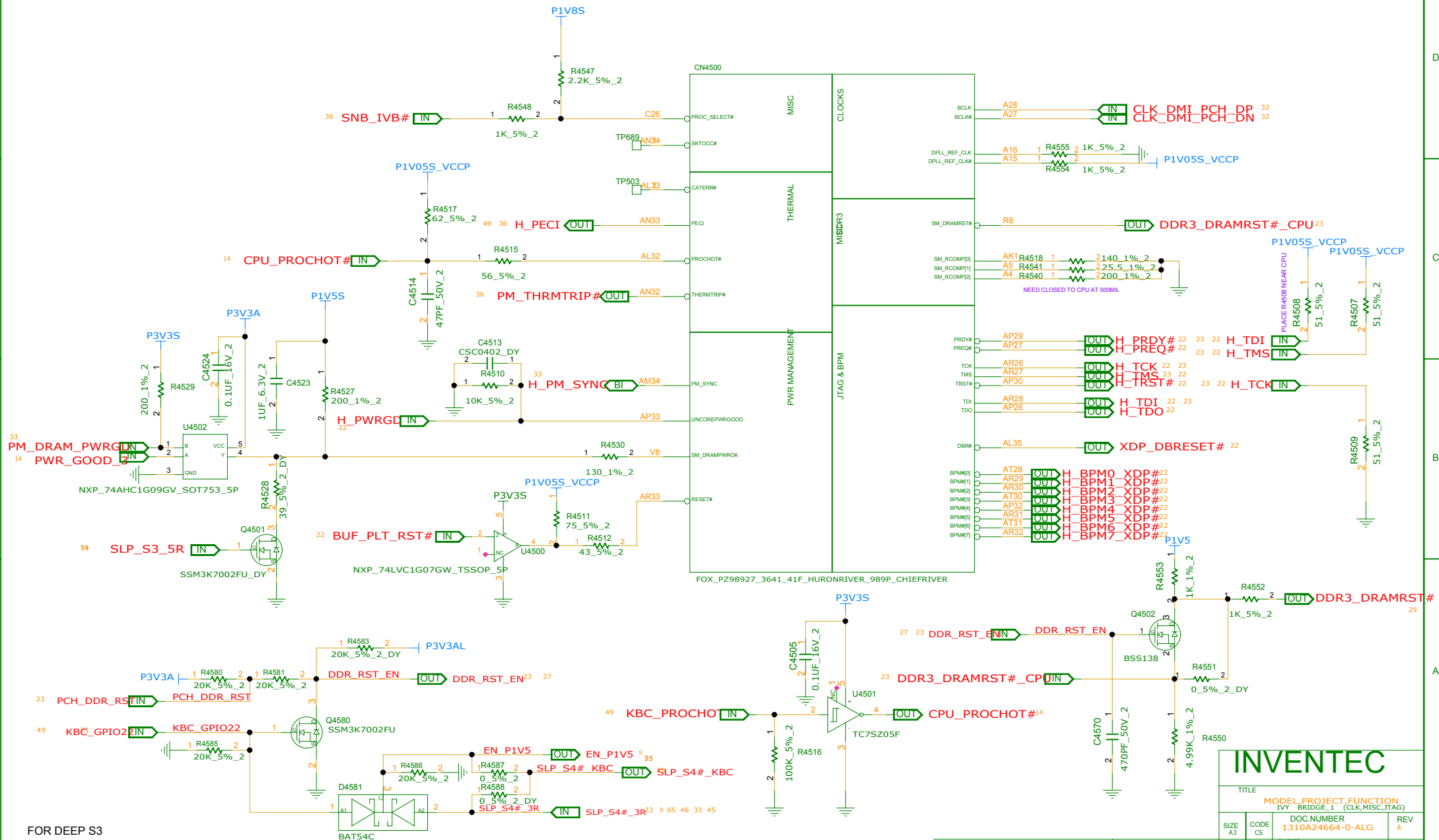
R4526 PLACE IT NEAR XDP



PCH XDP CONNECTOR

NON-INSTALL CN4936,R4937,R4936 ON PV BUILD

INVENTEC			
TITLE XDP_CONN			
MODEL PROJECT,FUNCTION			
DOC NUMBER 1310A24664-0-ALG			
SIZE A3	CODE CS	REV A	REV A
SHEET 22 of 68			



INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
I/VY BRIDGE_1 (CLK,MISC,JTAG)			
DOC NUMBER			
1310A24664-0-ALG			
REV			
A			
SIZE	CODE	CS	REV
A3			
CHANGE by			DATE
Edi Chen			02-APR-2012
SHEET			23 of 68

FOR DEEP S3

REFERENCE NUMBER:4500~4699

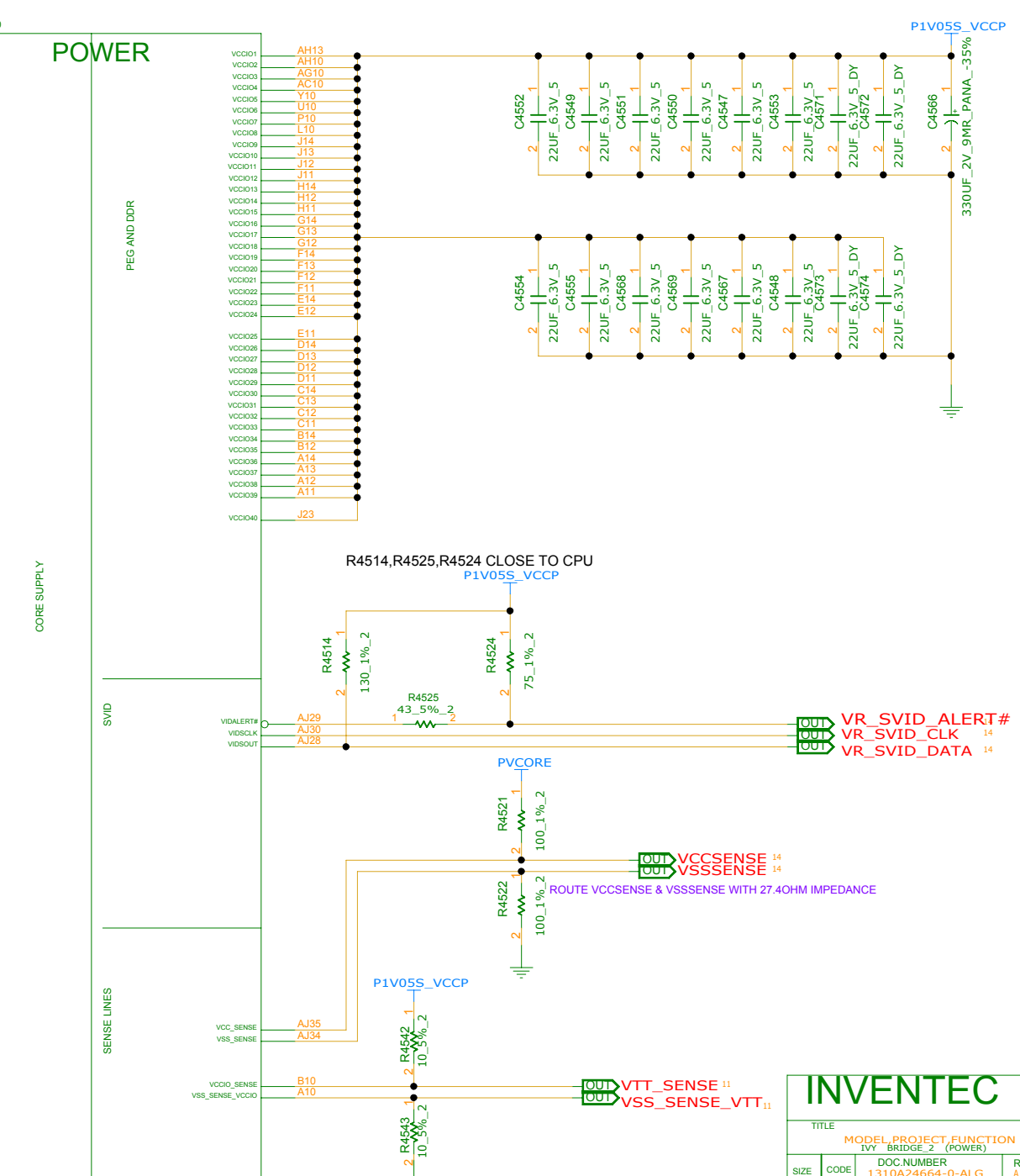
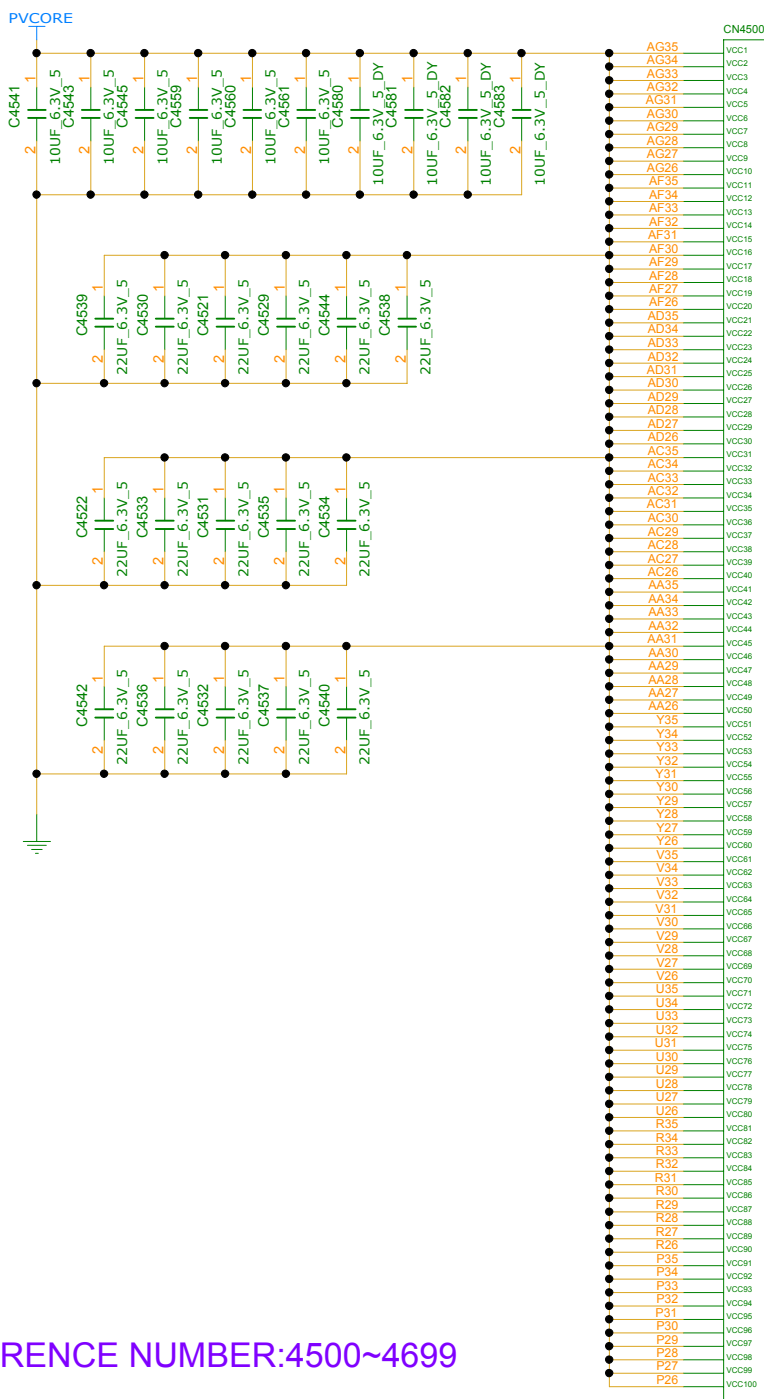
POWER

CORE SUPPLY

SVID

SENSE LINES

PEG AND DDR

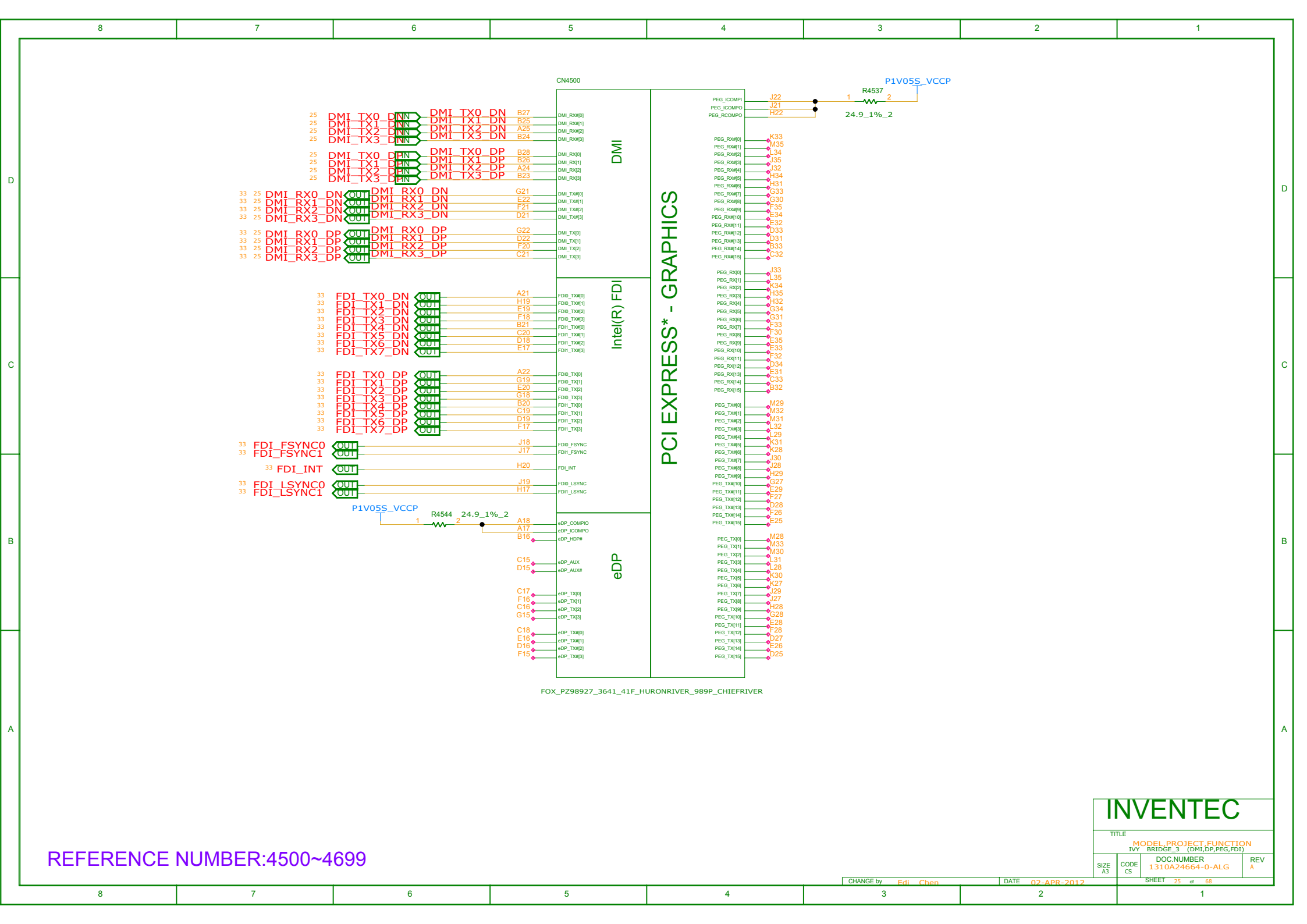


VR_SVID_ALERT#
VR_SVID_CLK
VR_SVID_DATA

VCCSENSE
VSSSENSE
ROUTE VCCSENSE & VSSSENSE WITH 27.4OHM IMPEDANCE

VTT_SENSE 11
VSS_SENSE_VTT 11

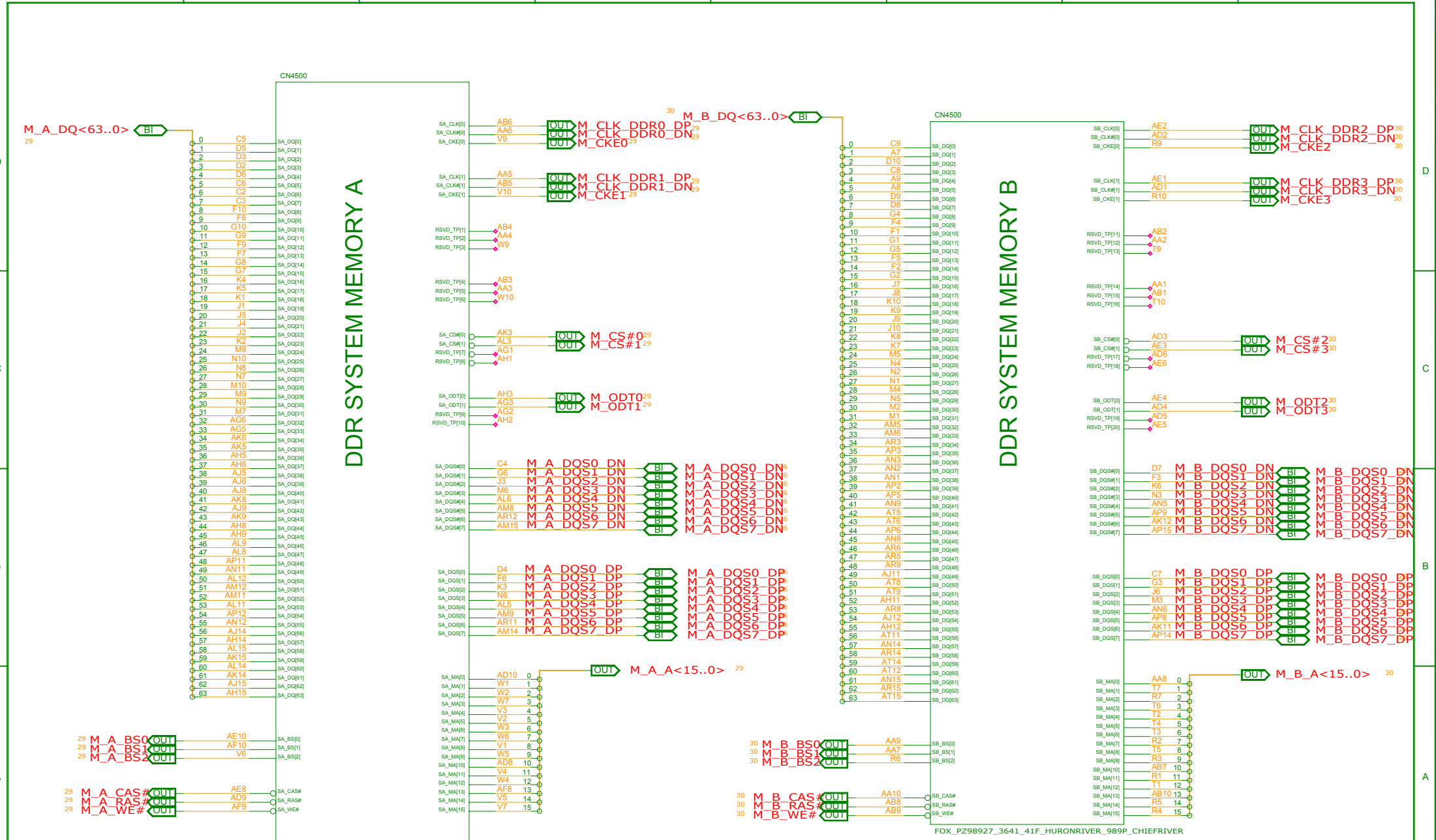
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
I7Y BRIDGE 2 (POWER)			
DOC NUMBER			
1310A24664-0-ALG			
SIZE	CODE	REV	
A3	CS	A	



REFERENCE NUMBER:4500~4699

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION IVY BRIDGE_3 (DMI,DP,PEG,FDI)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 25 of 68			

FOX_PZ98927_3641_41F_HURONRIVER_989P_CHIEFRIVER

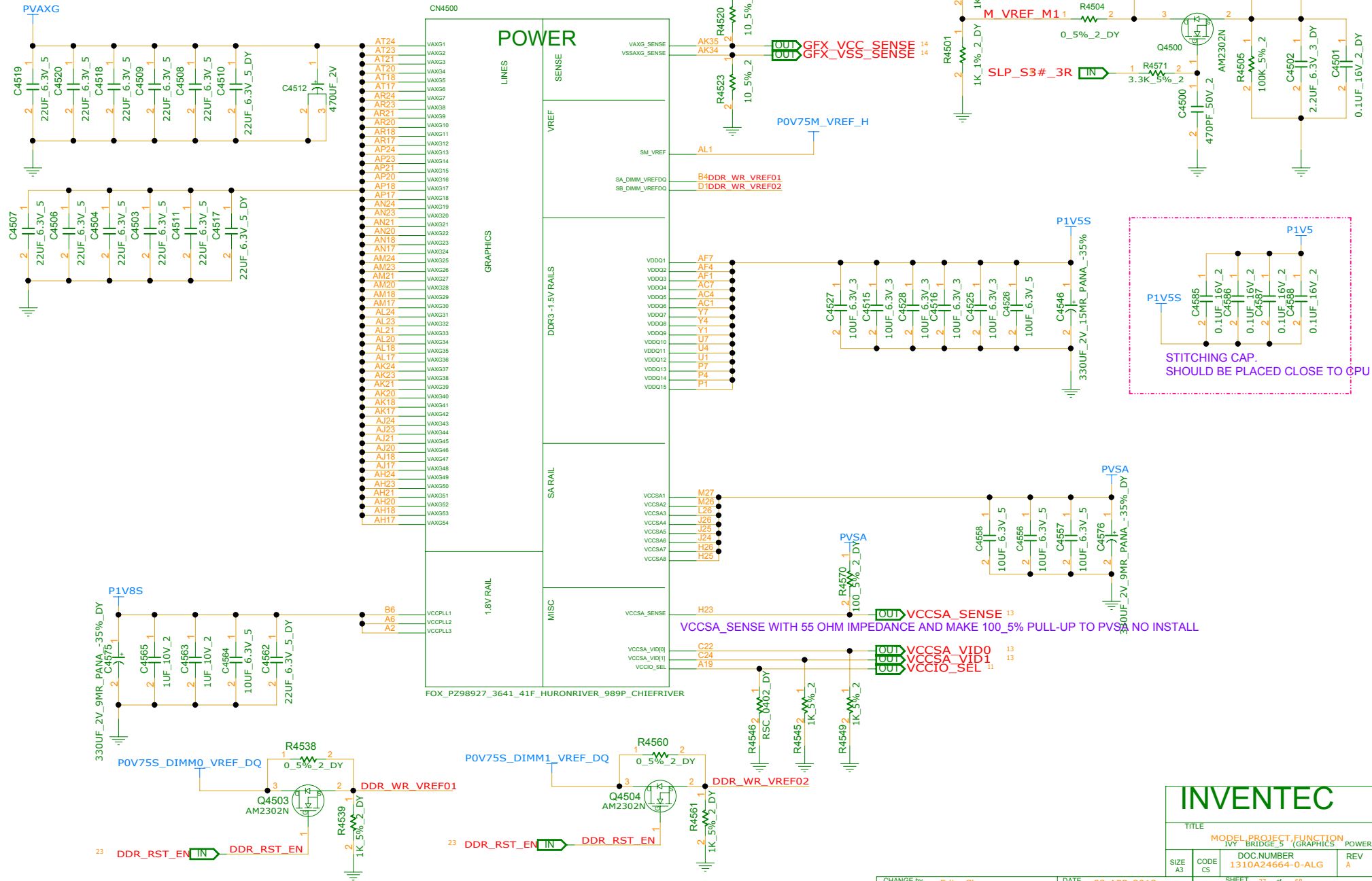


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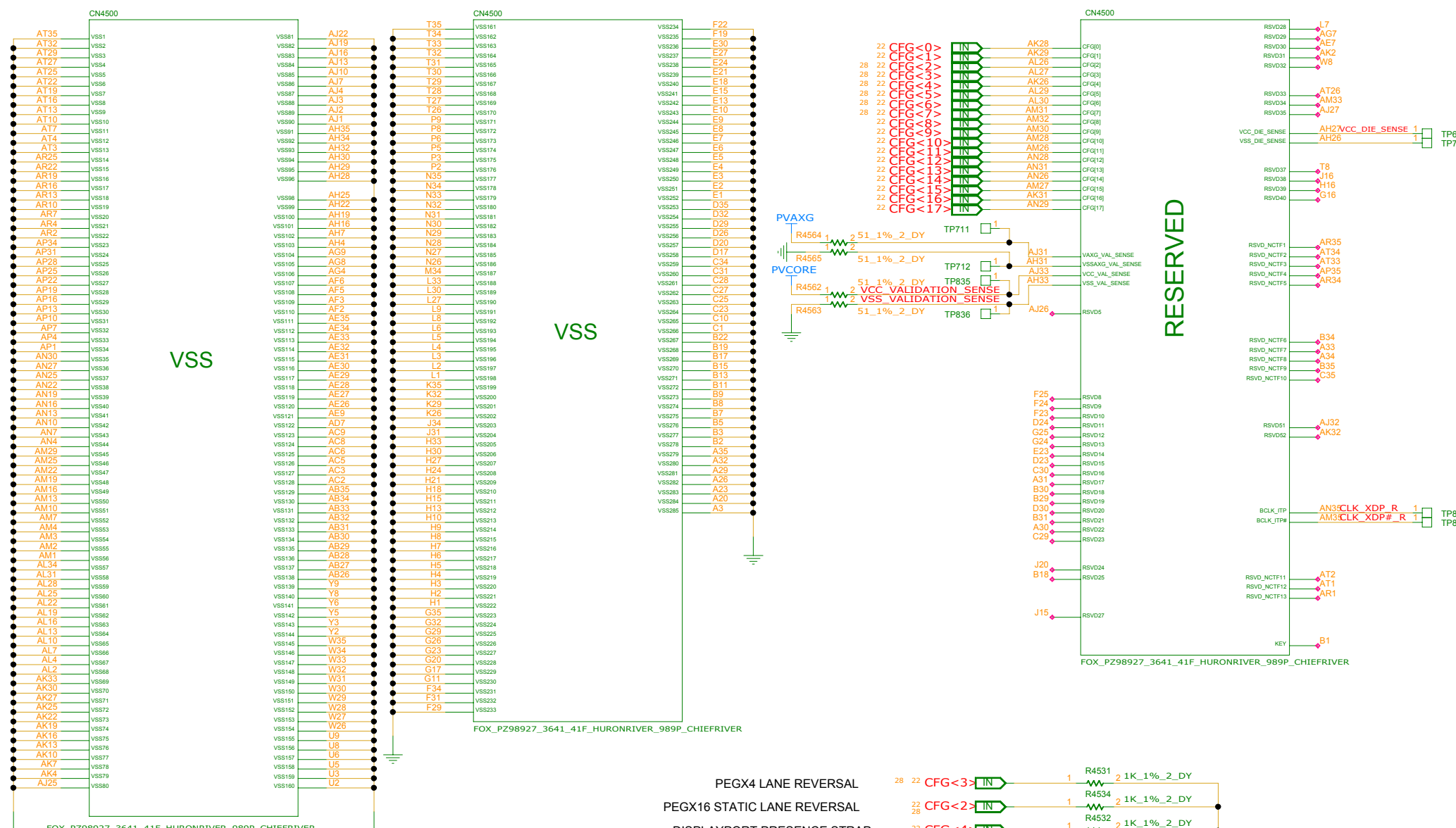
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION I1W BRIDGE 4 (DDR3)			
DOC NUMBER 1310A24664-0-ALG			
REV A			
SHEET A3	CODE CS	DATE 02-APR-2012	REV A
CHANGE by Edu Chen SHEET 26 of 68			

REFERENCE NUMBER:4500~4699

ROUTE GFX_VCC_SENSE & GFX_VSS_SENSE WITH 27.4OHM IMPEDANCE.



INVENTEC			
TITLE			
MODEL PROJECT.FUNCTION			
IVY BRIDGE 5 (GRAPHICS POWER			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
CHANGE by Fdi Chen		DATE 02-APR-2012	SHEET 27 of 68

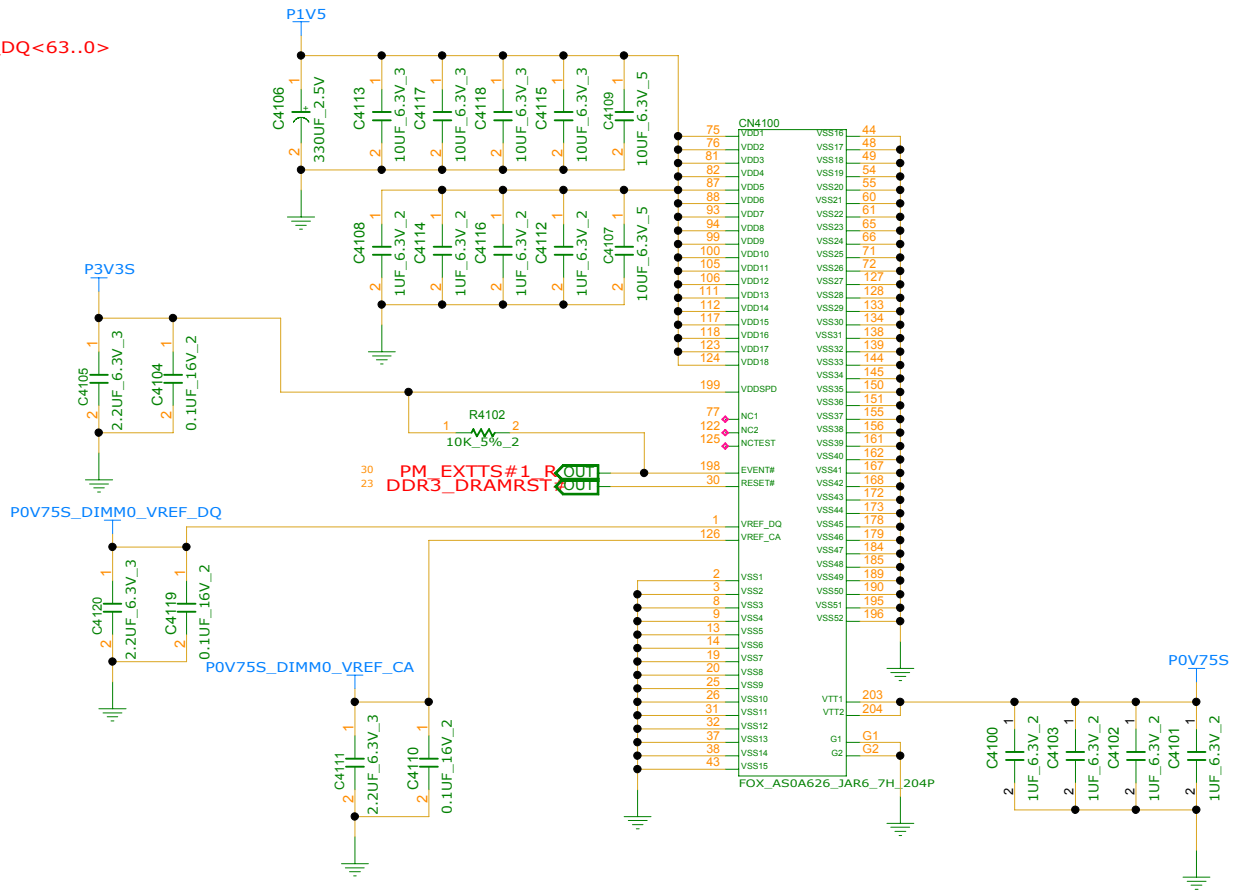
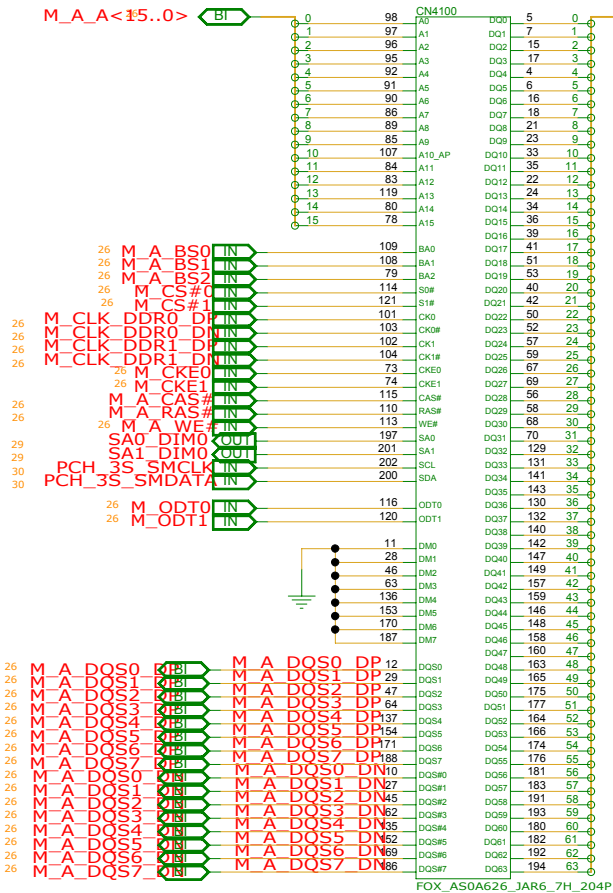


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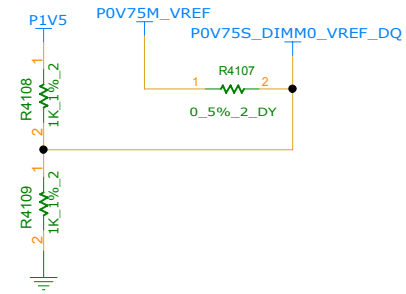
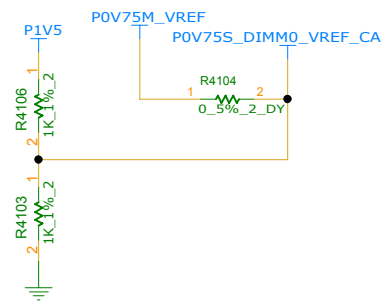
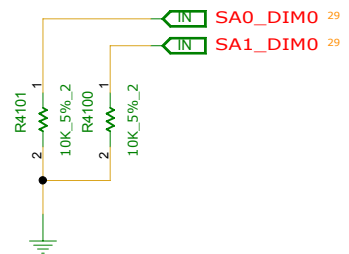


INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
I7Y BRIDGE_6 (GND,RESERVED)			
DOC NUMBER			
1310A24664-0-ALG			
REV			
A			
SIZE	CODE	REV	DATE
A3	CS		02-APR-2012
CHANGE by		DATE	
Edi Chen		02-APR-2012	
SHEET		of	
28		68	

M_A_A<15..0> BI M_A_DQ<63..0> BI

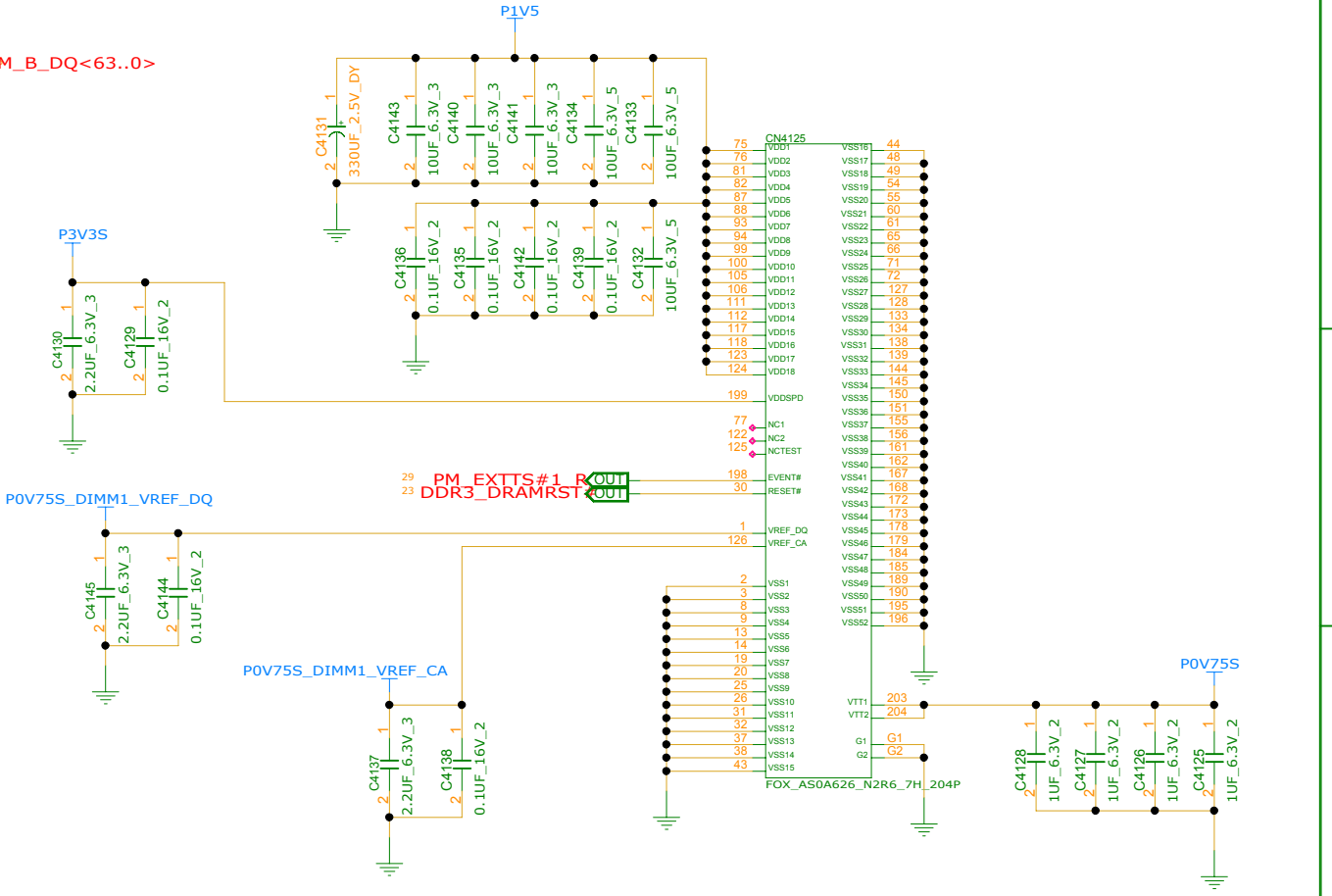
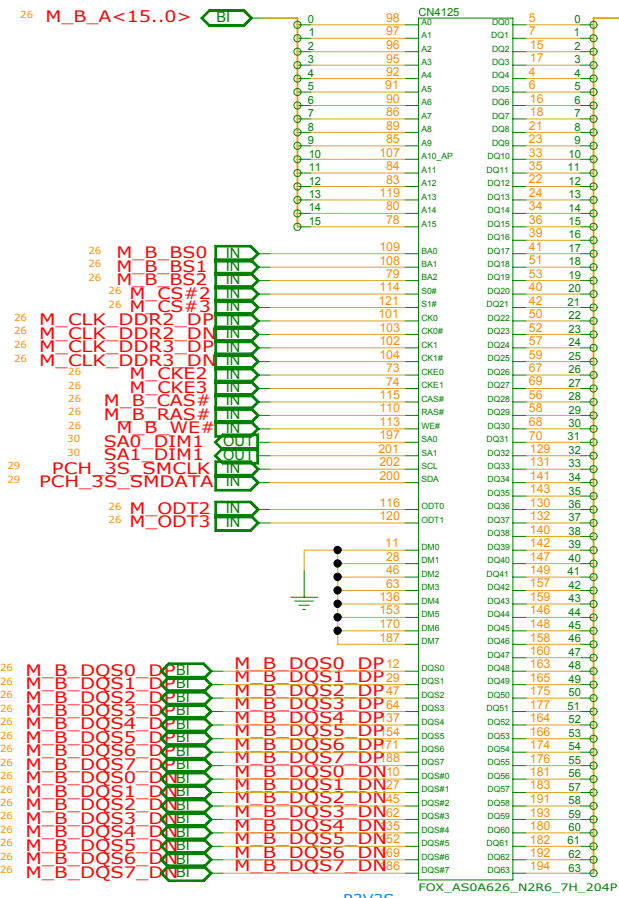


NOTE:
 IF SA0_DIM0=0, SA1_DIM0=0
 SO-DIMMA SPD ADDRESS IS 0XA0
 SO-DIMMA TS ADDRESS IS 0X30
 IF SA0_DIM0=1, SA1_DIM0=0
 SO-DIMMA SPD ADDRESS IS 0XA2
 SO-DIMMA TS ADDRESS IS 0X32

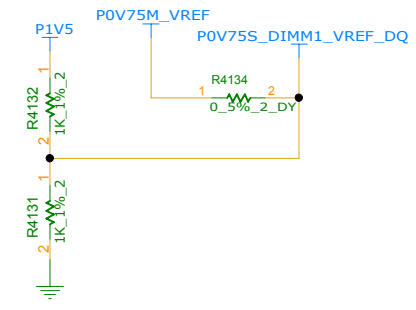
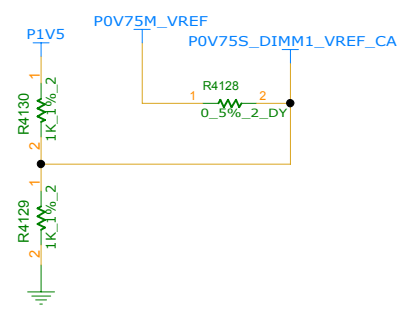
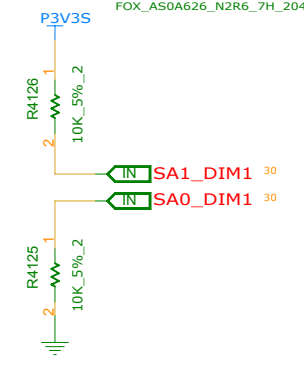


REFERENCE NUMBER:4100~4299

INVENTEC			
TITLE MODEL PROJECT FUNCTION			
DDR3_SO_DIMM0			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
CHANGE by Edi Chen		DATE 02-APR-2012	SHEET 29 of 68



NOTE:
SO-DIMMB SPD ADDRESS IS 0XA4
SO-DIMMB TS ADDRESS IS 0X34

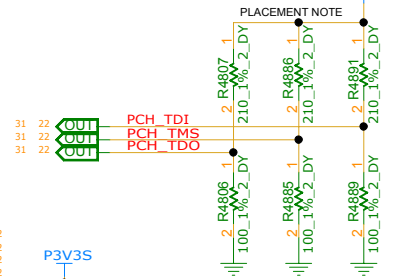
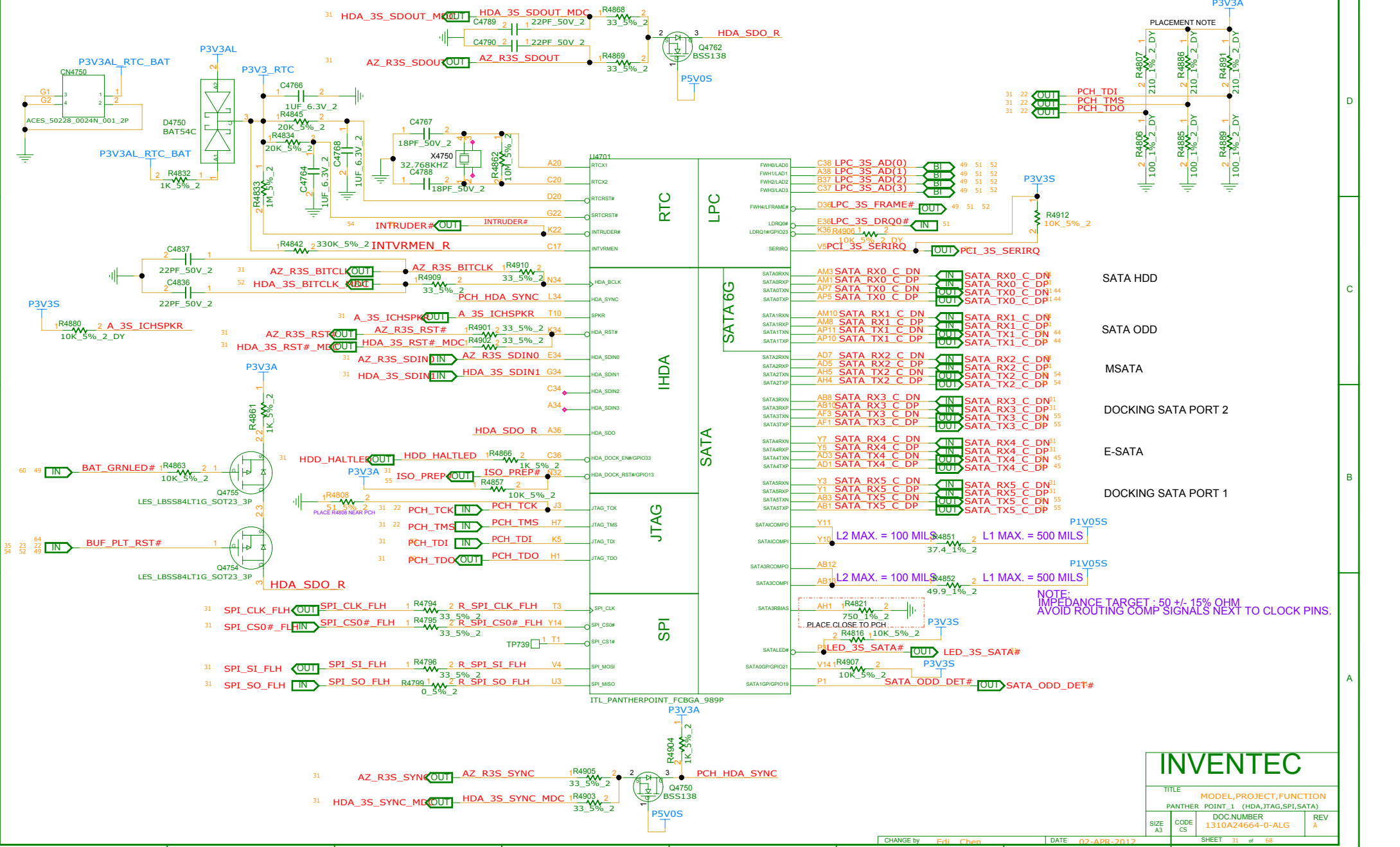


REFERENCE NUMBER:4100~4299

INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
DDR3_SO_DIMM1			
SIZE		DOC NUMBER	
A3	CS	1310A24664-0-ALG	
CODE		REV	
A		A	
CHANGE by		DATE	
Edi Chen		02-APR-2012	
SHEET		of	
30		68	

REFERENCE NUMBER : 4700~4949

LAYOUT NOTE: JTAG_TMS TERMINATIONS NEED TO BE PLACED NEAR PCH
 LAYOUT NOTE: JTAG_TDI TERMINATIONS NEED TO BE PLACED NEAR PCH
 LAYOUT NOTE: JTAG_TDO TERMINATIONS NEED TO BE PLACED NEAR XP



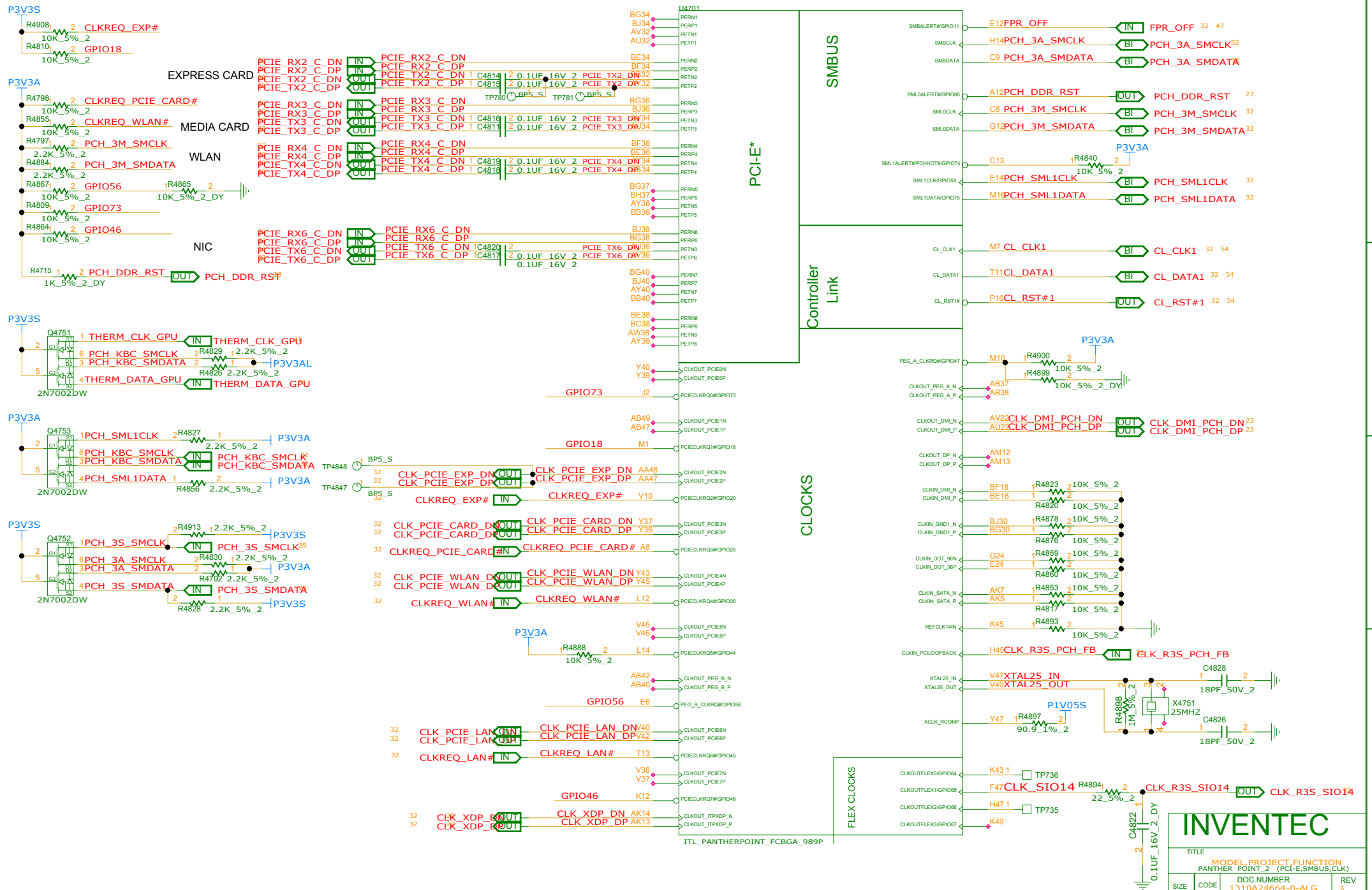
Signal	Pin	Component	Value
C38 LPC 3S AD(0)	49	BI	51 52
A38 LPC 3S AD(1)	49	BI	51 52
B37 LPC 3S AD(2)	49	BI	51 52
C37 LPC 3S AD(3)	49	BI	51 52
D38 LPC 3S FRAME#	49	BI	51 52
E38 LPC 3S DRQ0#	51	IN	
K36 R4900	2	DIY	
V5 PCI 3S SERIRQ		OUT	PCI_3S_SERIRQ
AM3 SATA RX0 C DN		IN	SATA_RX0_C_DN
AM1 SATA RX0 C DP		IN	SATA_RX0_C_DP
AP7 SATA TX0 C DN		OUT	SATA_TX0_C_DN
AP5 SATA TX0 C DP		OUT	SATA_TX0_C_DP
AM10 SATA RX1 C DN		IN	SATA_RX1_C_DN
AM8 SATA RX1 C DP		IN	SATA_RX1_C_DP
AP11 SATA TX1 C DN		OUT	SATA_TX1_C_DN
AP10 SATA TX1 C DP		OUT	SATA_TX1_C_DP
AD7 SATA RX2 C DN		IN	SATA_RX2_C_DN
AD5 SATA RX2 C DP		IN	SATA_RX2_C_DP
AH5 SATA TX2 C DN		OUT	SATA_TX2_C_DN
AH4 SATA TX2 C DP		OUT	SATA_TX2_C_DP
AB8 SATA RX3 C DN		IN	SATA_RX3_C_DN
AB10 SATA RX3 C DP		IN	SATA_RX3_C_DP
AF3 SATA TX3 C DN		OUT	SATA_TX3_C_DN
AF1 SATA TX3 C DP		OUT	SATA_TX3_C_DP
Y7 SATA RX4 C DN		IN	SATA_RX4_C_DN
Y5 SATA RX4 C DP		IN	SATA_RX4_C_DP
AD3 SATA TX4 C DN		OUT	SATA_TX4_C_DN
AD1 SATA TX4 C DP		OUT	SATA_TX4_C_DP
Y3 SATA RX5 C DN		IN	SATA_RX5_C_DN
Y1 SATA RX5 C DP		IN	SATA_RX5_C_DP
AB3 SATA TX5 C DN		OUT	SATA_TX5_C_DN
AB1 SATA TX5 C DP		OUT	SATA_TX5_C_DP

SATA HDD
 SATA ODD
 MSATA
 DOCKING SATA PORT 2
 E-SATA
 DOCKING SATA PORT 1

NOTE: IMPEDANCE TARGET : 50 +/- 15% OHM
 AVOID ROUTING COMP SIGNALS NEXT TO CLOCK PINS.

INVENTEC				
TITLE MODEL,PROJECT,FUNCTION				
PANTHER POINT_1 (HDA,JTAG,SPI,SATA)				
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A	
CHANGE by Fri Chen			DATE 02-APR-2012	
SHEET 31 of 68				

REFERENCE NUMBER : 4700~4949



INVENTEC

TITLE: MODEL PROJECT FUNCTION
PANTHER POINT 2 (PCI-E,SMBUS,CLK)

DOC NUMBER: 1310A24664-0-ALG

REV: A

SIZE: A3

CODE: CS

CHANGE by: Edi Chen

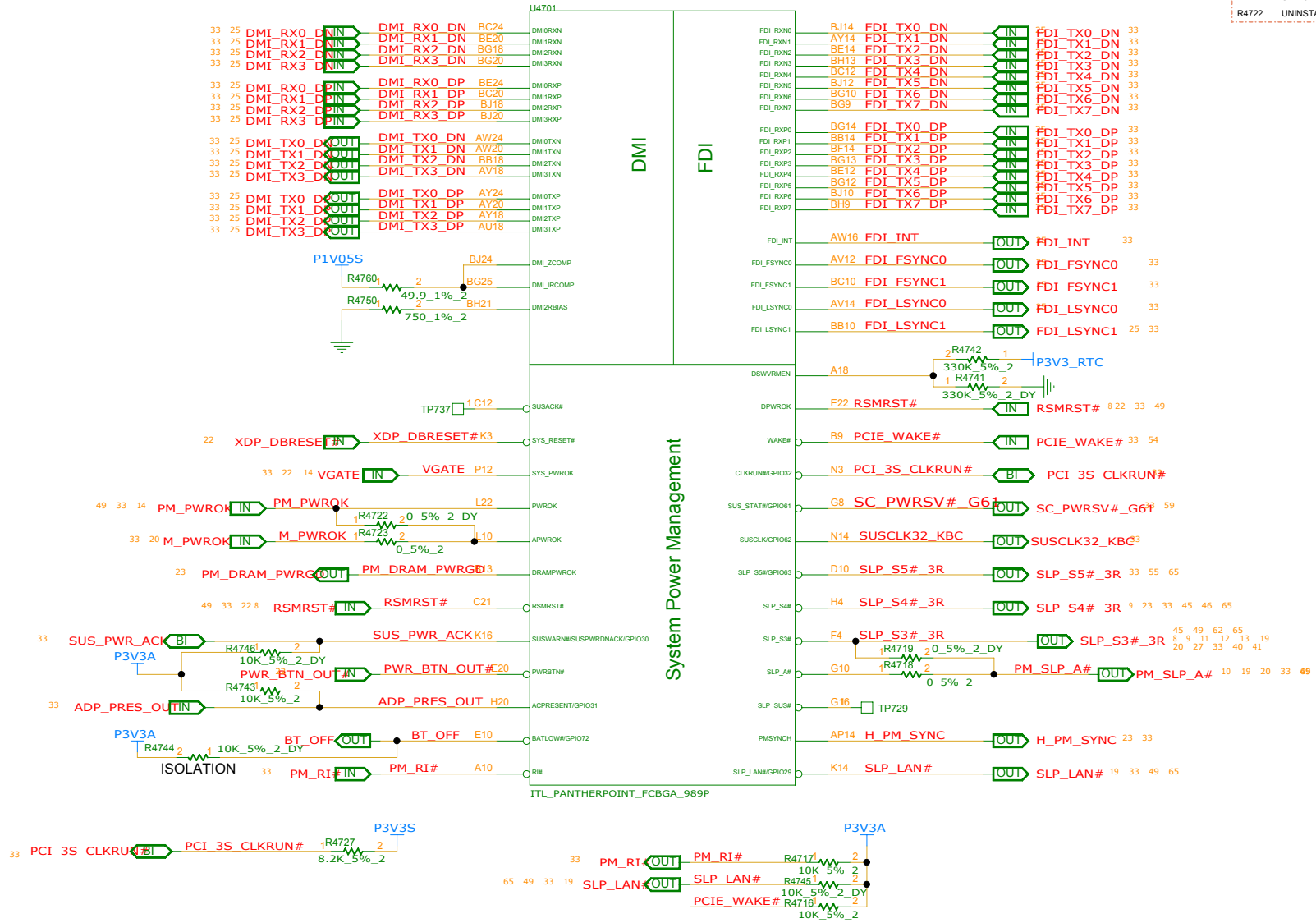
DATE: 02-APR-2012

SHEET: 32 of 68

REFERENCE NUMBER : 4700~4949

- NOTE:
 1.SLP_SUS AND SUSACK# ARE NC IF DSW IS NOT SUPPORTED
 2.DPWROK SHOULD CONNECT TO RSMRST# IF DSW NOT SUPPORTED
 3.PCH_DPWROK PULL UP TO P3V3S ENABLES DSW WUPPORT. NO INSTALL R4752 TO DISABLE DSW

	IAMT	NON-IAMT
R4718	INSTALL	UNINSTALL
R4723	INSTALL	UNINSTALL
R4719	UNINSTALL	INSTALL
R4722	UNINSTALL	INSTALL



INVENTEC

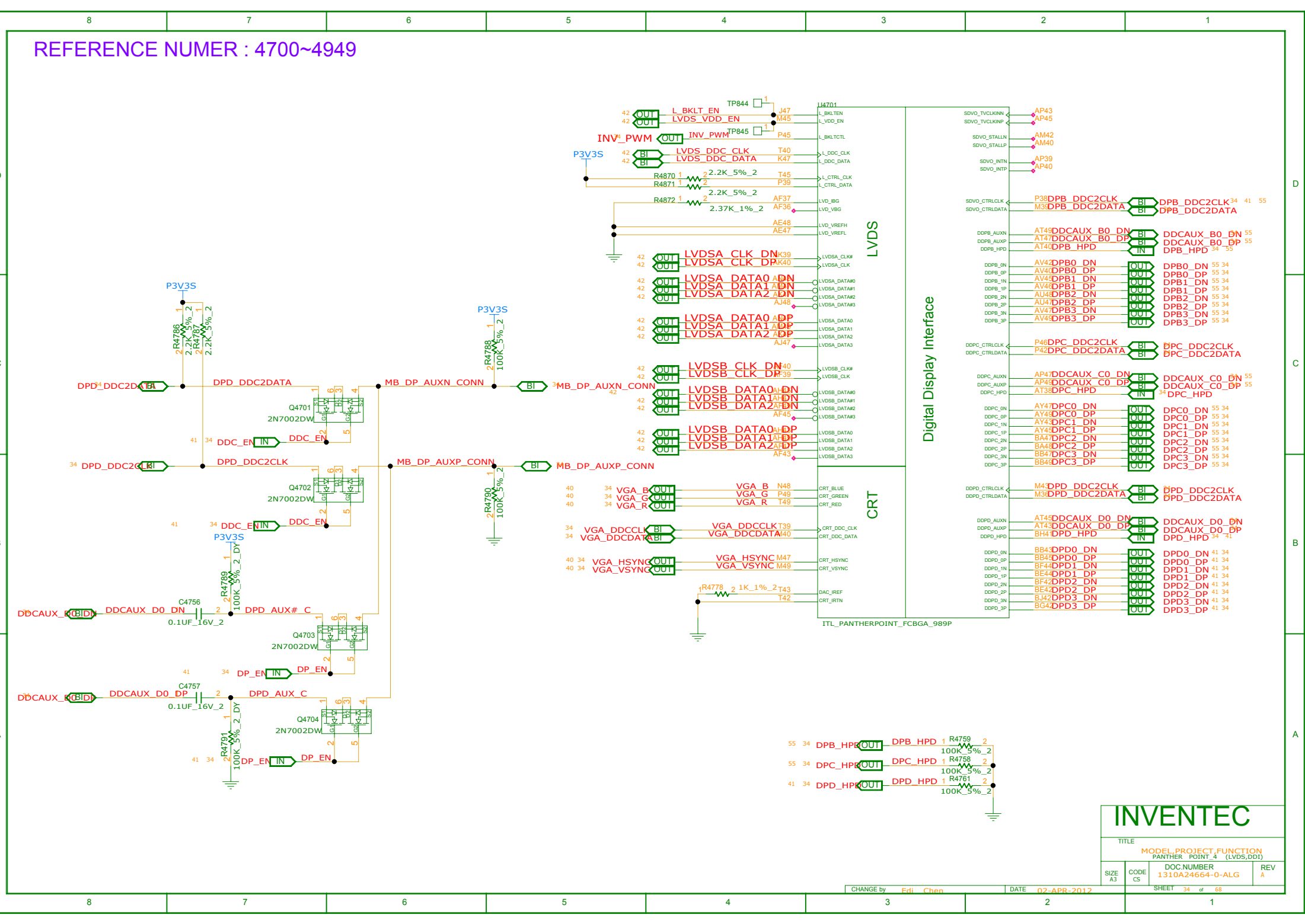
TITLE: MODEL PROJECT FUNCTION
 PANTHER POINT_3 (DMI,FDI,GPIO)

DOC NUMBER: 1310A24664-0-ALG

REV: A

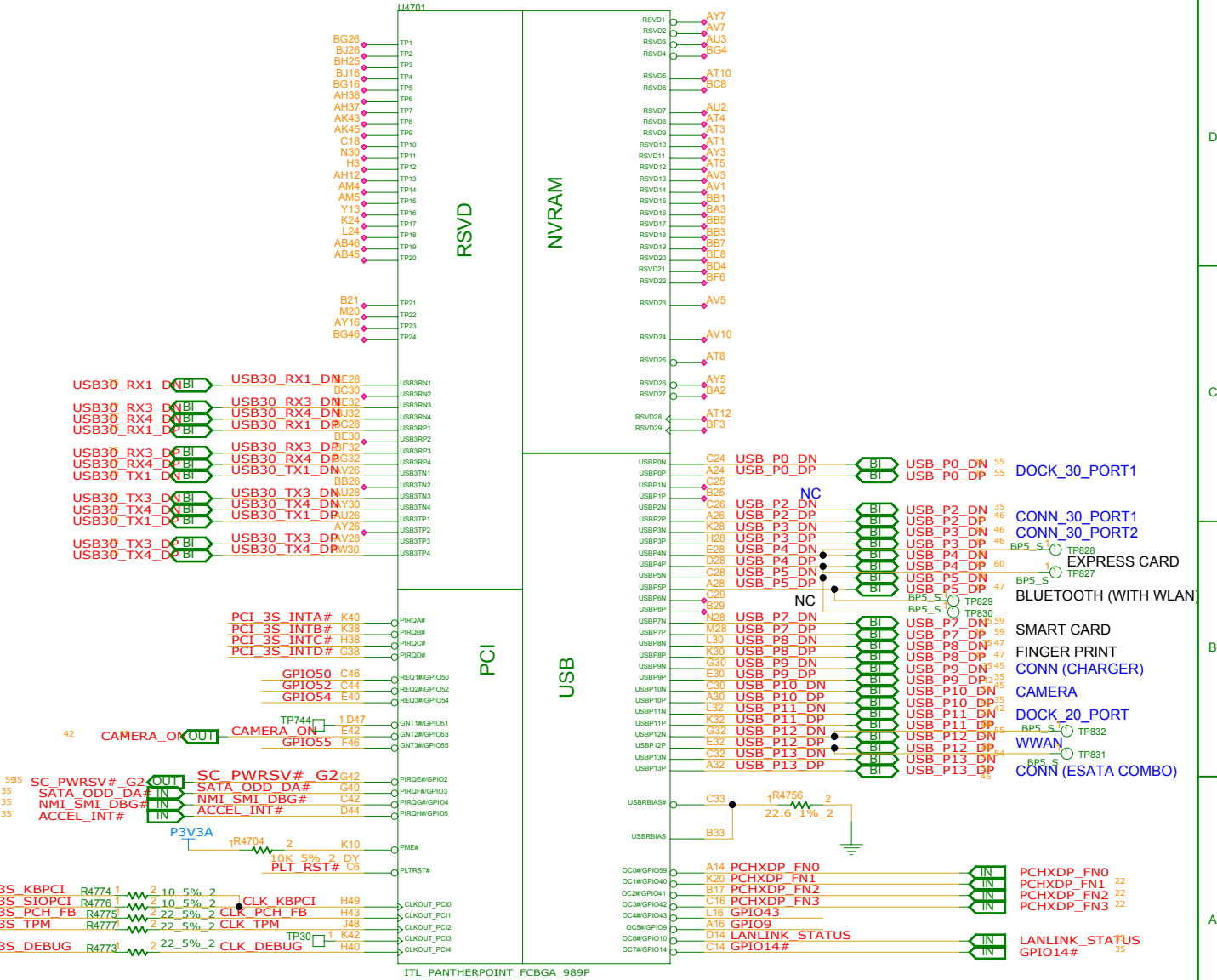
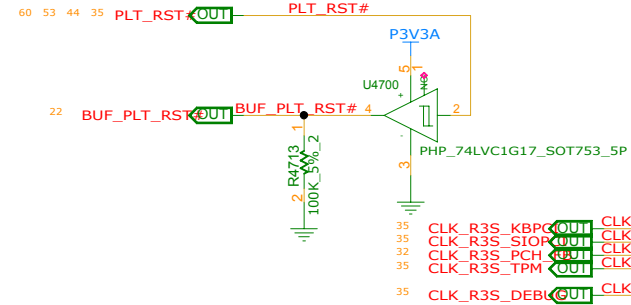
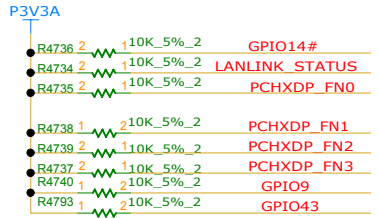
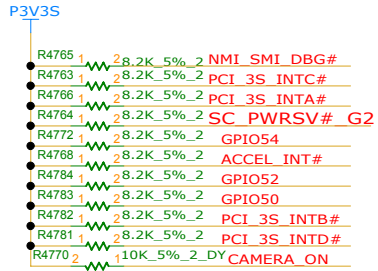
CHANGE by: Fdi Chen DATE: 02-APR-2012 SHEET 33 of 68

REFERENCE NUMER : 4700~4949



INVENTEC			
TITLE			
MODEL PROJECT FUNCTION PANTHER POINT 4 (LVDS,DDI)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
CHANGE by		DATE	SHEET
Edi Chen		02-APR-2012	34 of 68

REFERENCE NUMBER : 4700~4949



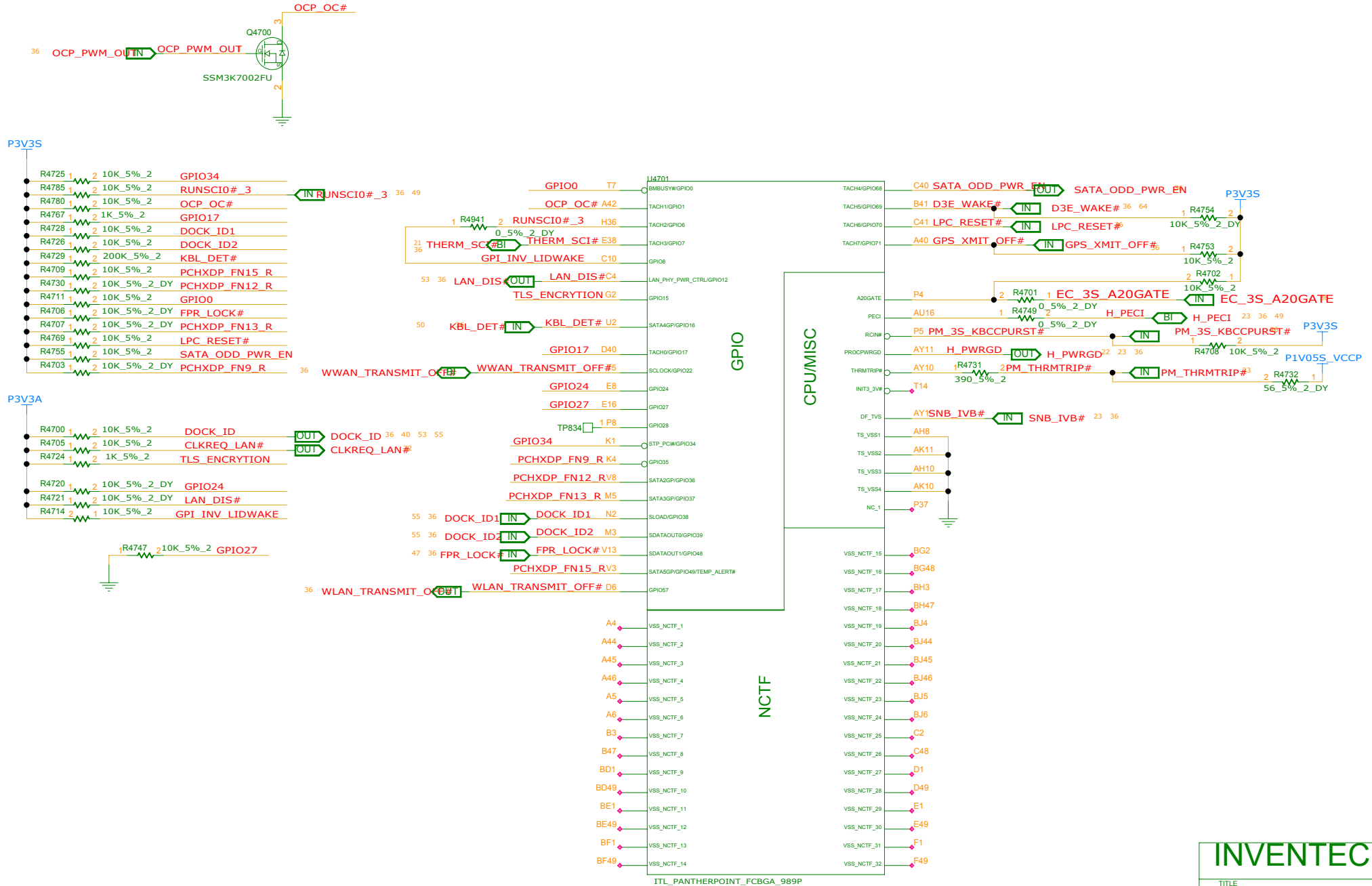
INVENTEC

TITLE MODEL PROJECT FUNCTION
PANTHER POINT_5 (PCI,USB,NVRAM)

SIZE CODE DOC NUMBER REV
A3 CS 1310A24664-0-ALG A

CHANGE by Edl Chen DATE 02-APR-2012 SHEET 35 of 68

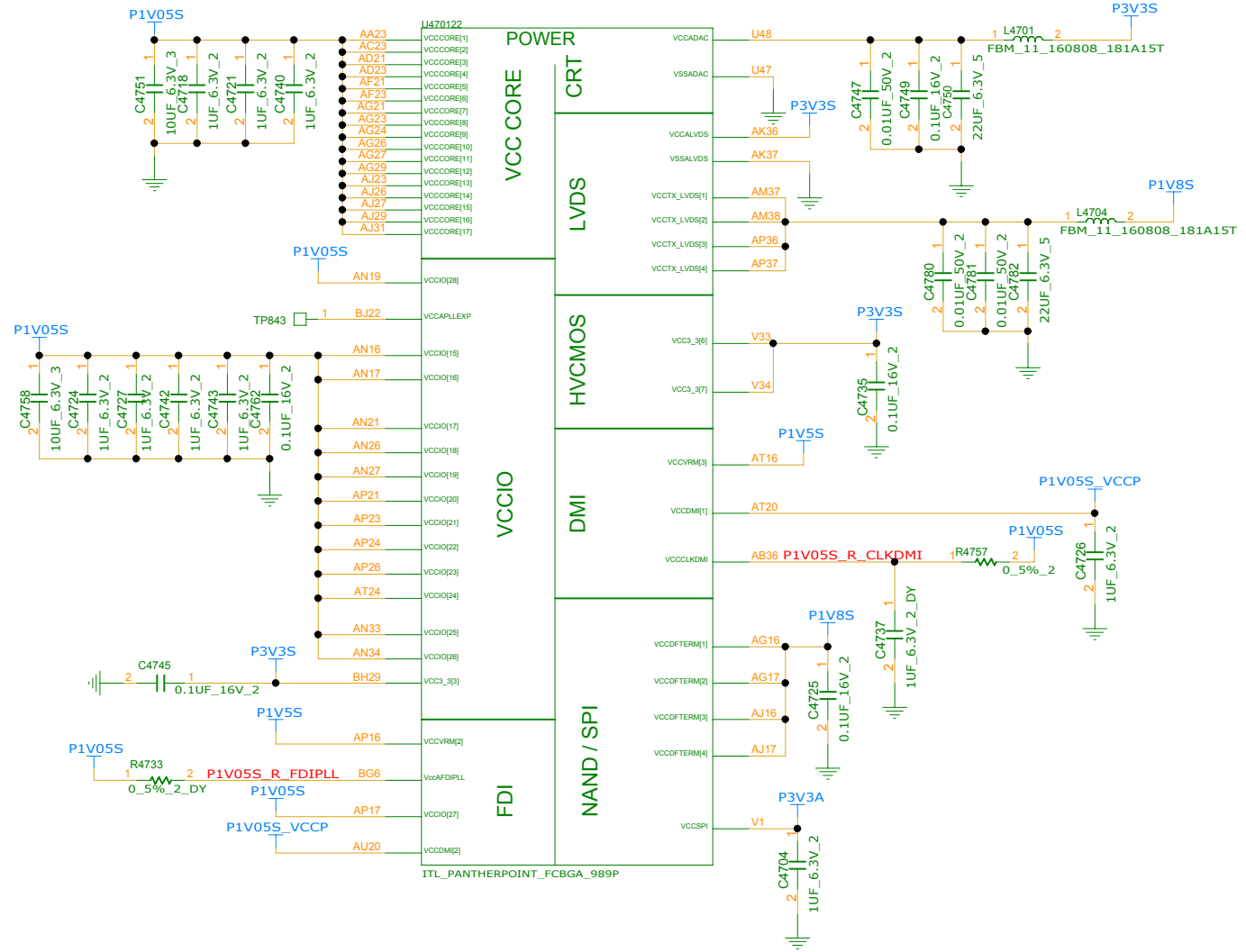
REFERENCE NUMER : 4700~4949



INVENTEC			
TITLE MODEL PROJECT,FUNCTION PANTHER_POINT_9 (GPIO,VSS_NCTF,RSVD)			
DOC NUMBER 1310A24664-0-ALG REV A			
SIZE A3	CODE CS	SHEET 36 of 68	

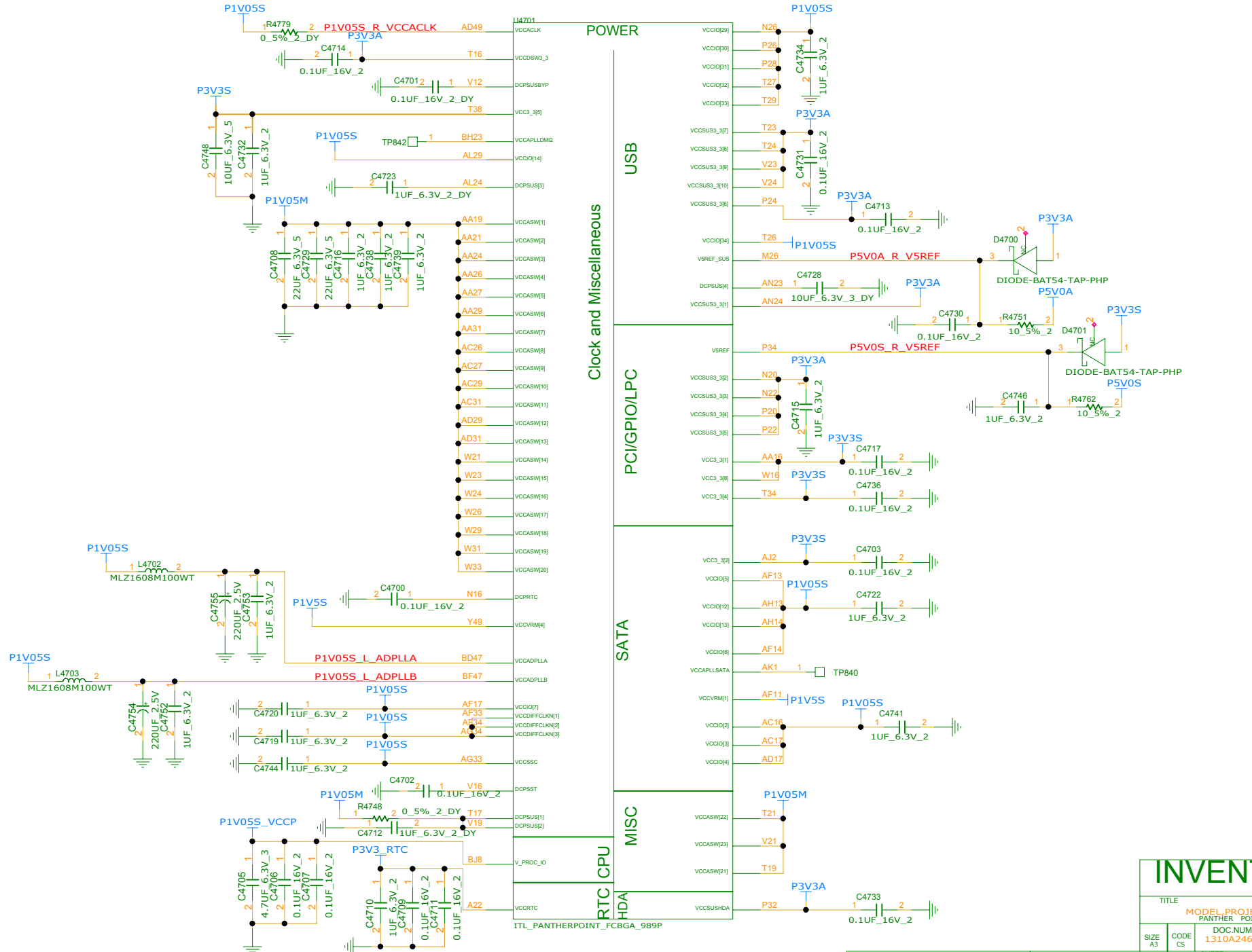
ITL_PANTHERPOINT_FCBGA_989P

REFERENCE NUMER : 4700~4949



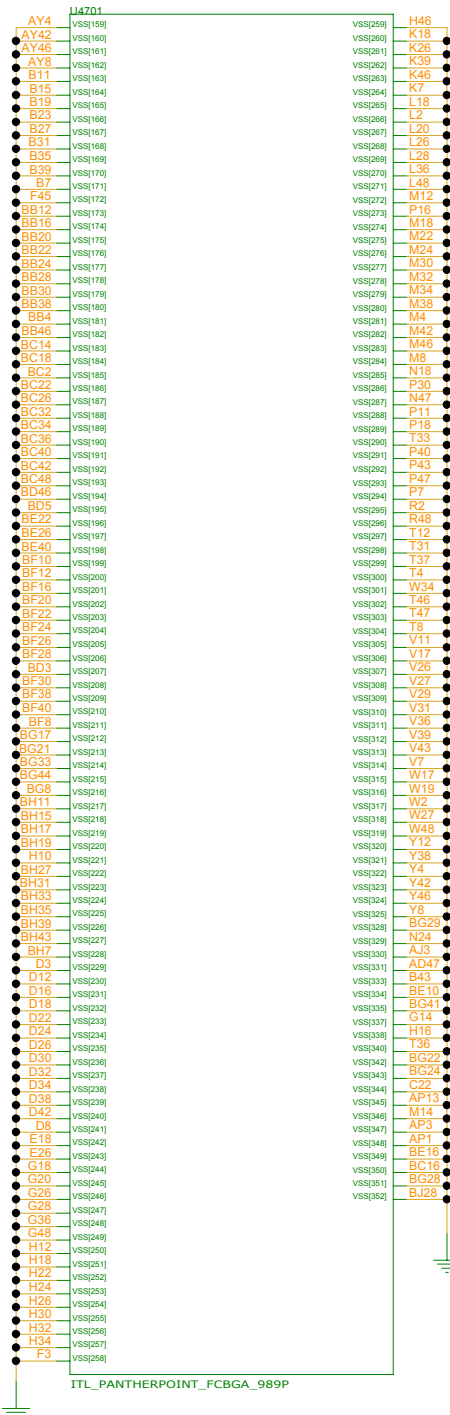
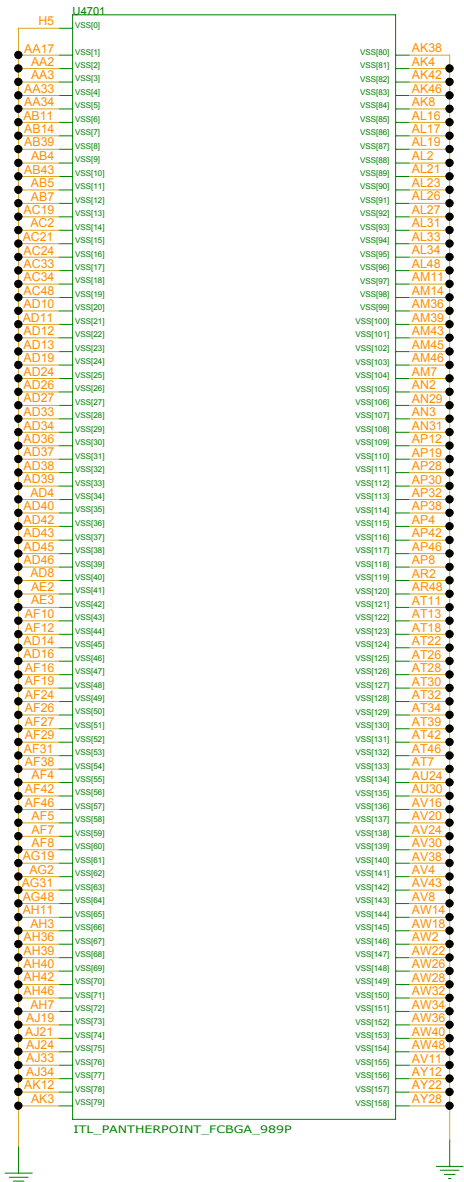
INVENTEC

TITLE			
MODEL PROJECT,FUNCTION PANTHER POINT 2 (POWER)			
SIZE		REV	
A3	CS	1310A24664-0-ALG	A



INVENTEC			
TITLE			
MODEL PROJECT FUNCTION PANTHER POINT 3 (POWER)			
DOC NUMBER 1310A24664-0-ALG			
REV A			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

REFERENCE NUMBER : 4700~4949

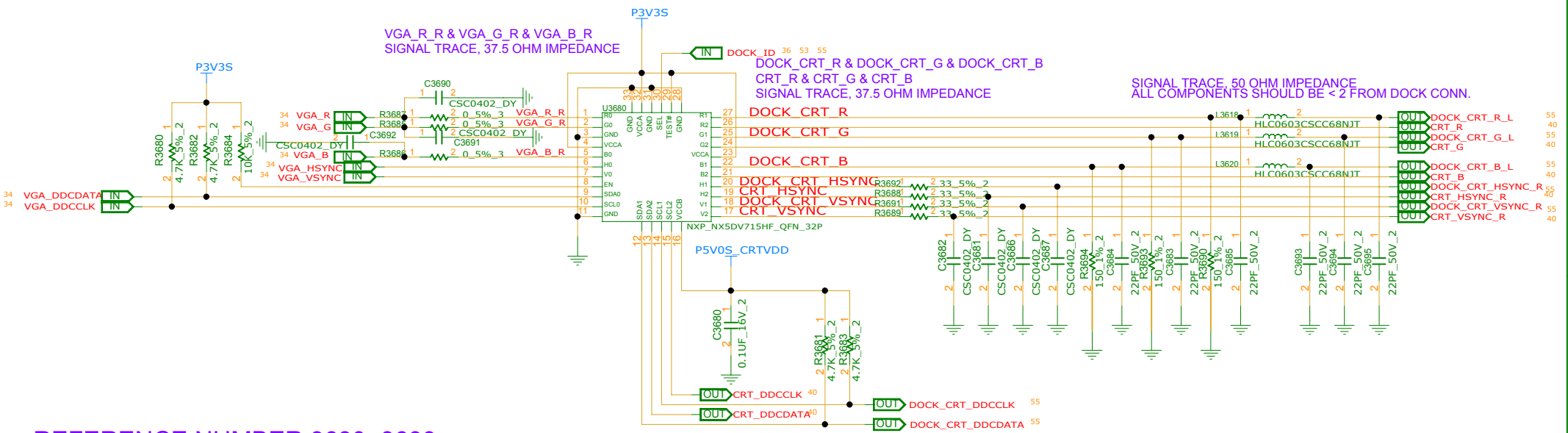


INVENTEC

TITLE: MODEL PROJECT FUNCTION
 PANTHER POINT 3 (GND)

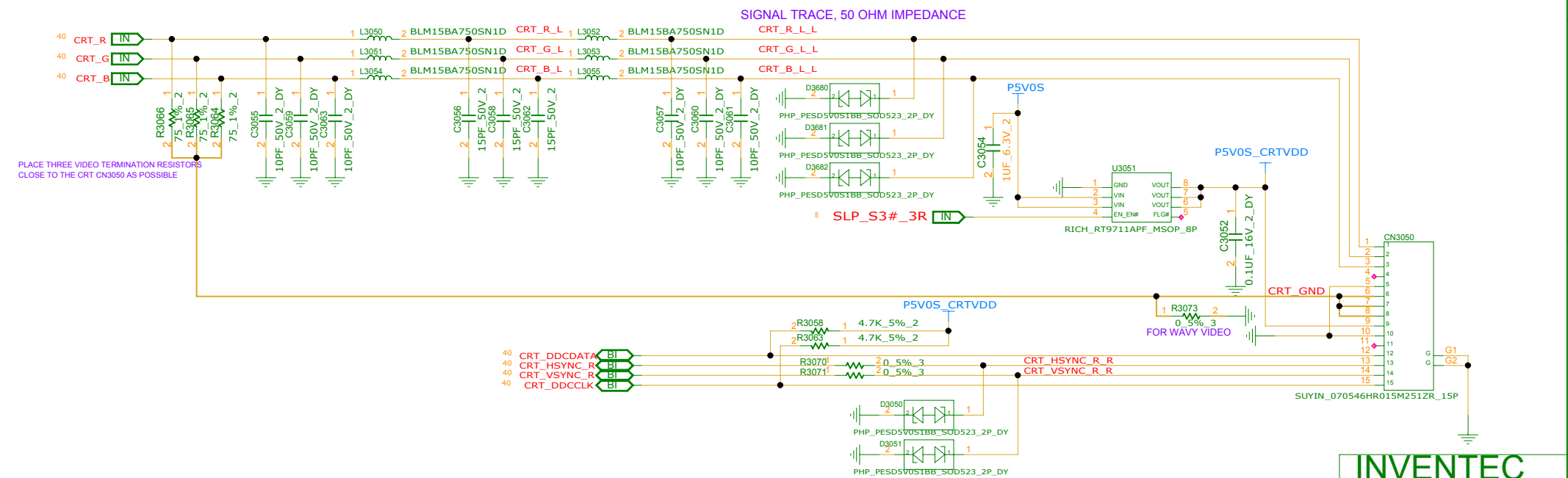
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
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SHEET 39 of 68



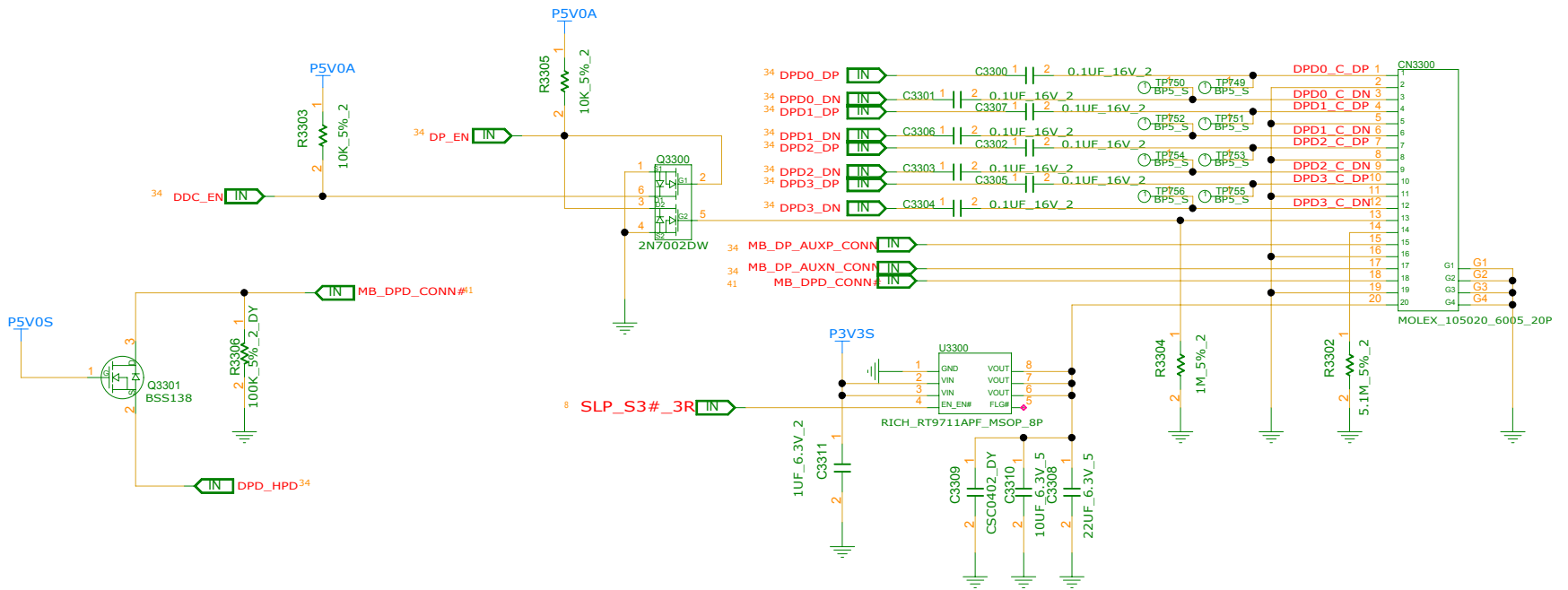
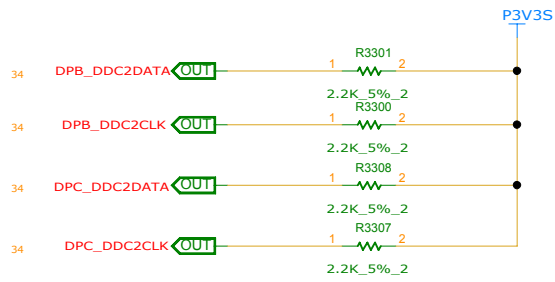
REFERENCE NUMBER:3680~3699

NOTE: PUT ALL DOCK CRT COMPONENTS CLOSE TO DOCK CONNECTOR AS POSSIBLE.



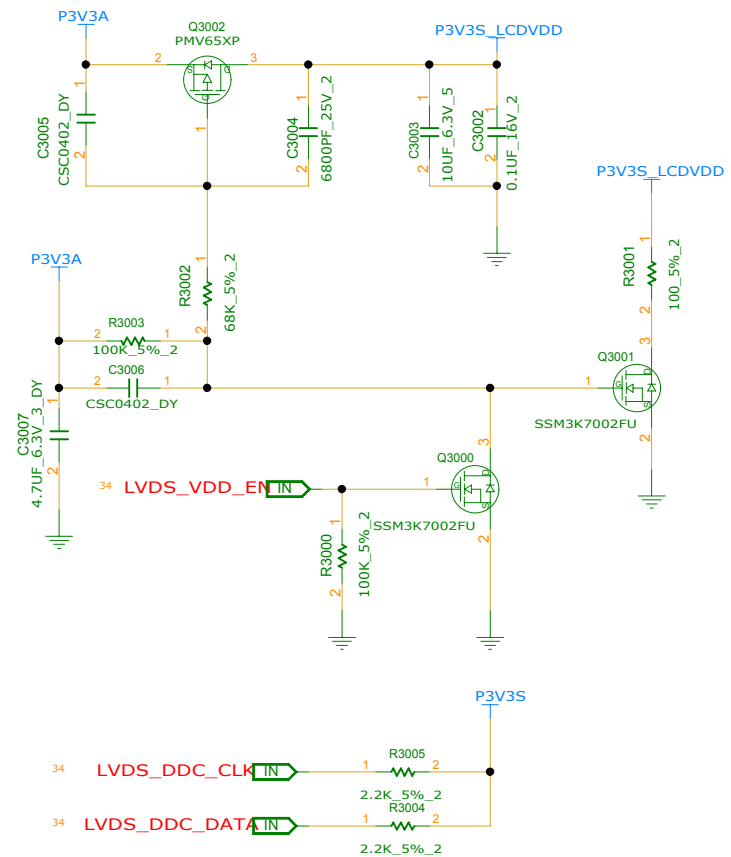
REFERENCE NUMBER:3050~3099

INVENTEC			
TITLE MODEL PROJECT FUNCTION VGA SWITCH / CRT			
SIZE A3		CODE CS	
DOC NUMBER 1310A24664-0-ALG		REV A	
CHANGE by Edi Chen		DATE 02-APR-2012	
SHEET 40 of 68			

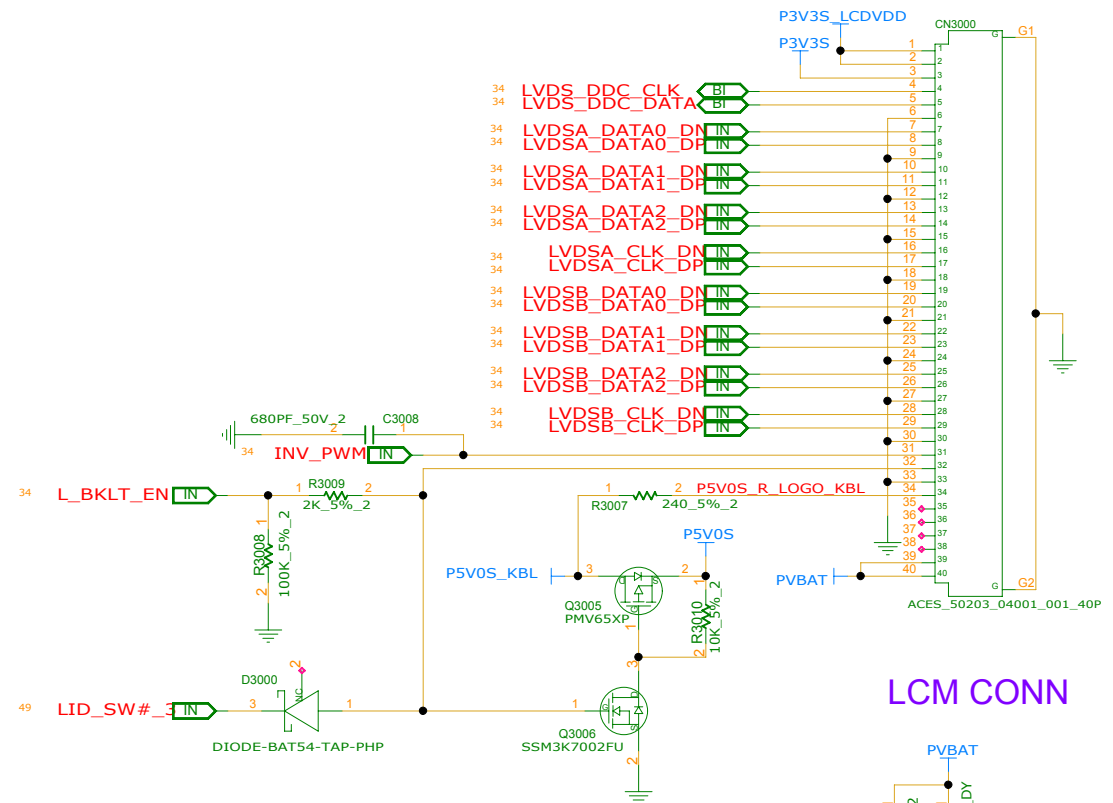


REFERENCE NUMBER:3300~3399

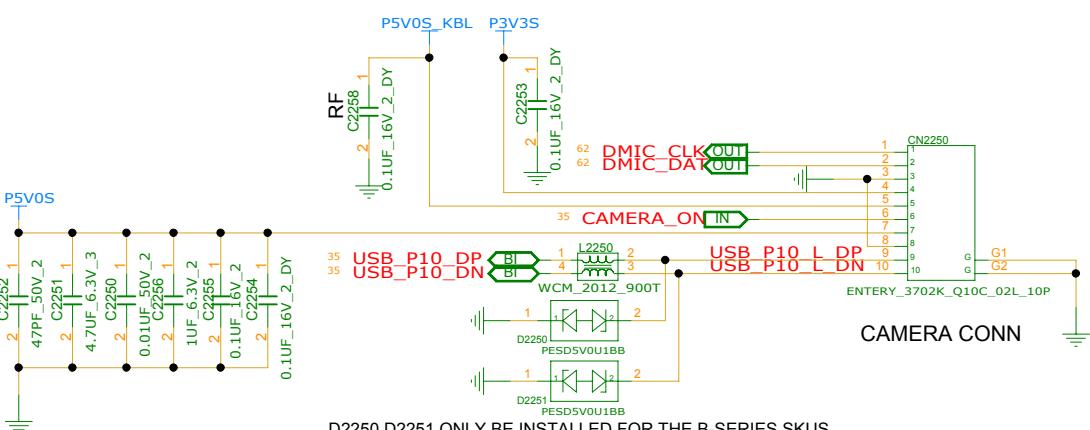
INVENTEC			
TITLE MODEL PROJECT FUNCTION DISPLAY PORT CNTR			
DOC NUMBER 1310A24664-0-ALG		REV A	
SIZE A3	CODE CS	SHEET 41 of 68	



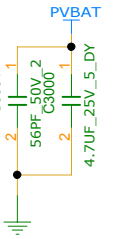
REFERENCE NUMBER:3000~3049



LCM CONN



CAMERA CONN



INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
LCM & WEBCAM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 42 of 68			

D2250,D2251 ONLY BE INSTALLED FOR THE B-SERIES SKUS

REFERENCE NUMBER:2250~2299

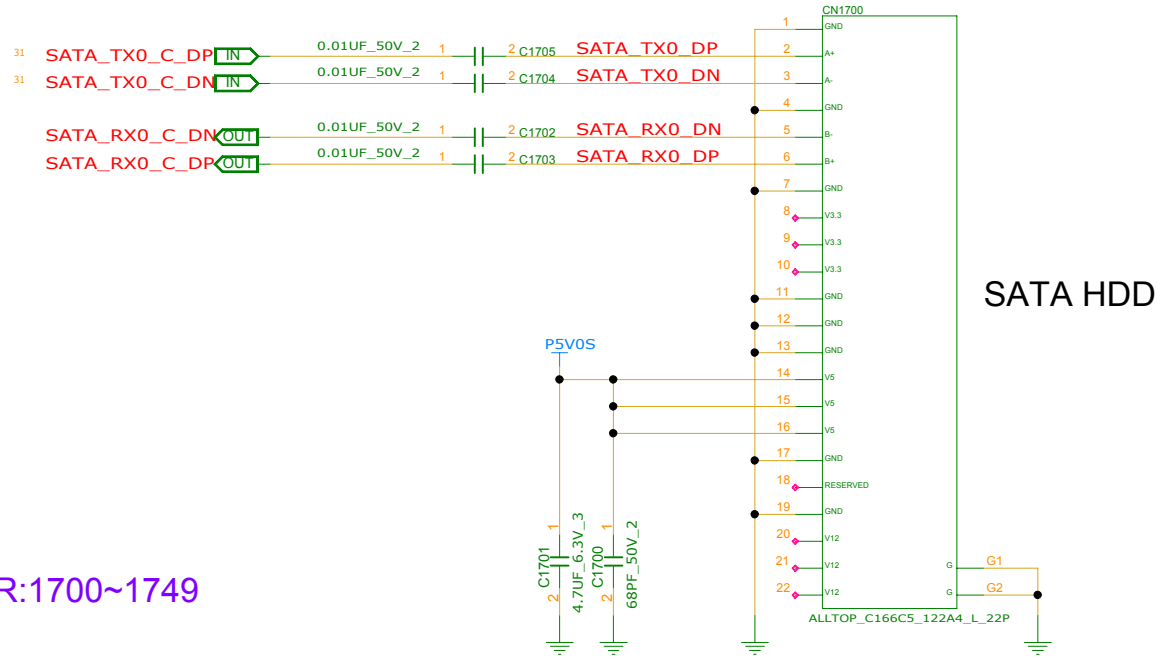
EMPTY

REFERENCE NUMBER:3400~3499

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION EDP TO LVDS (SPARE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 43 of 68			

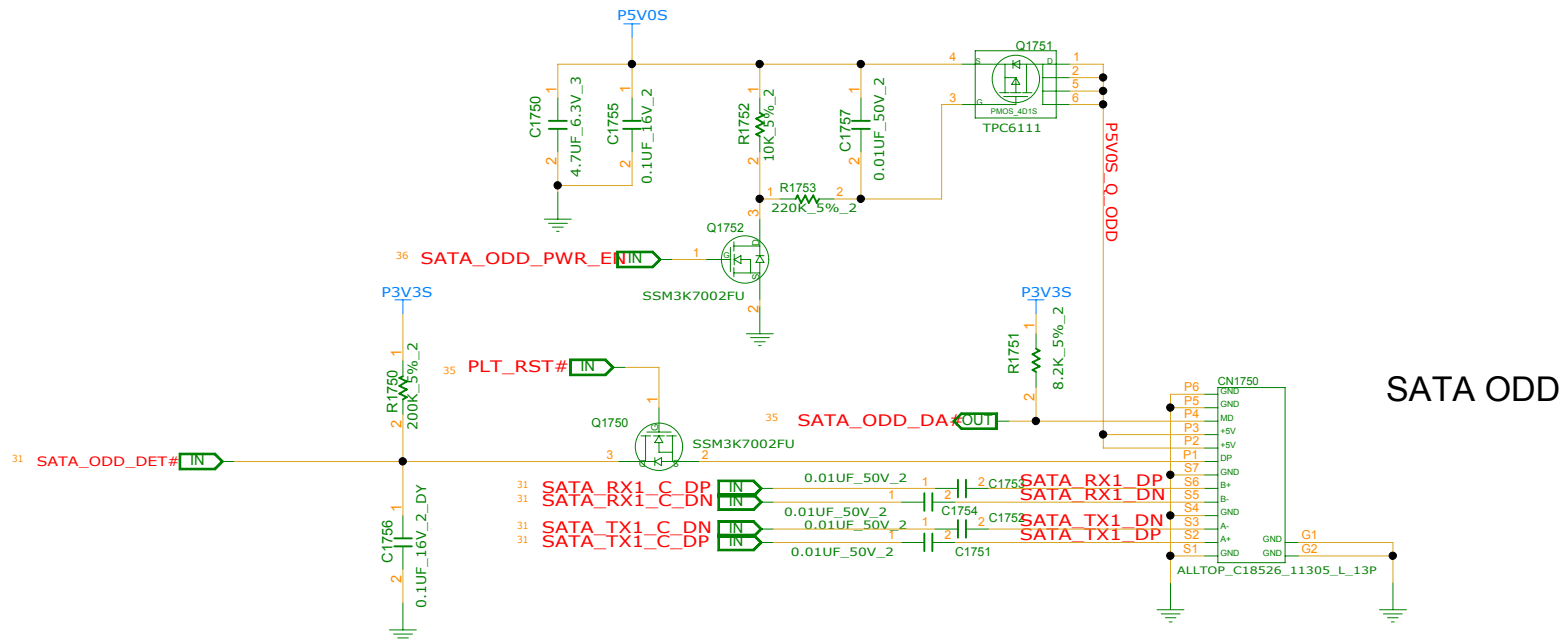
CHANGE by **Edi Chen** DATE **02-APR-2012**

REFERENCE NUMBER:1700~1749



SATA HDD

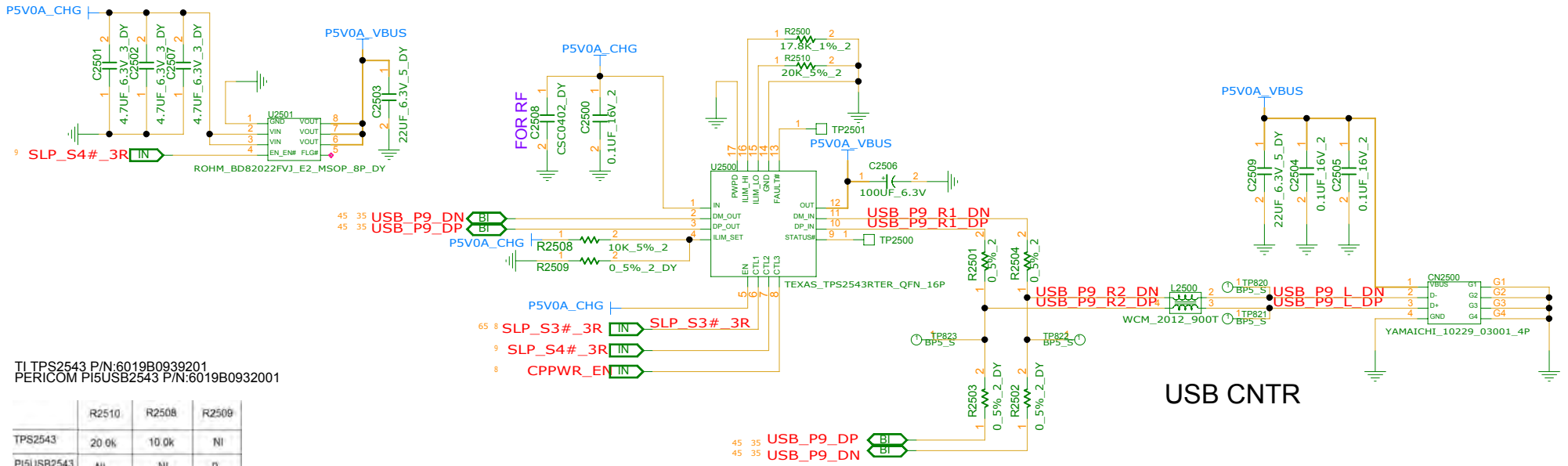
REFERENCE NUMBER:1750~1799



SATA ODD

INVENTEC

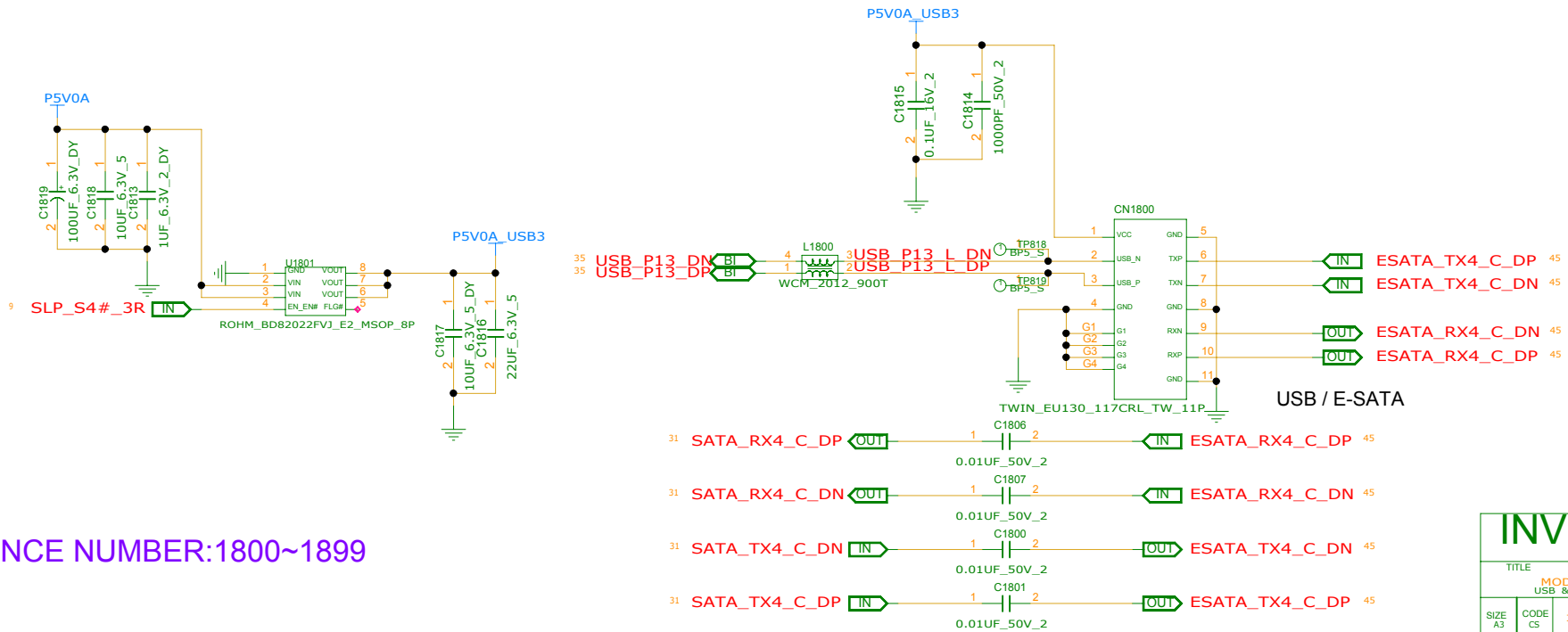
TITLE			
MODEL PROJECT FUNCTION			
SATA_HDD & ODD_CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 44 of 68			



TI TPS2543 P/N:6019B0939201
 PERICOM PI5USB2543 P/N:6019B0932001

	R2510	R2508	R2509
TPS2543	20.0k	10.0k	NI
PI5USB2543	NI	NI	D

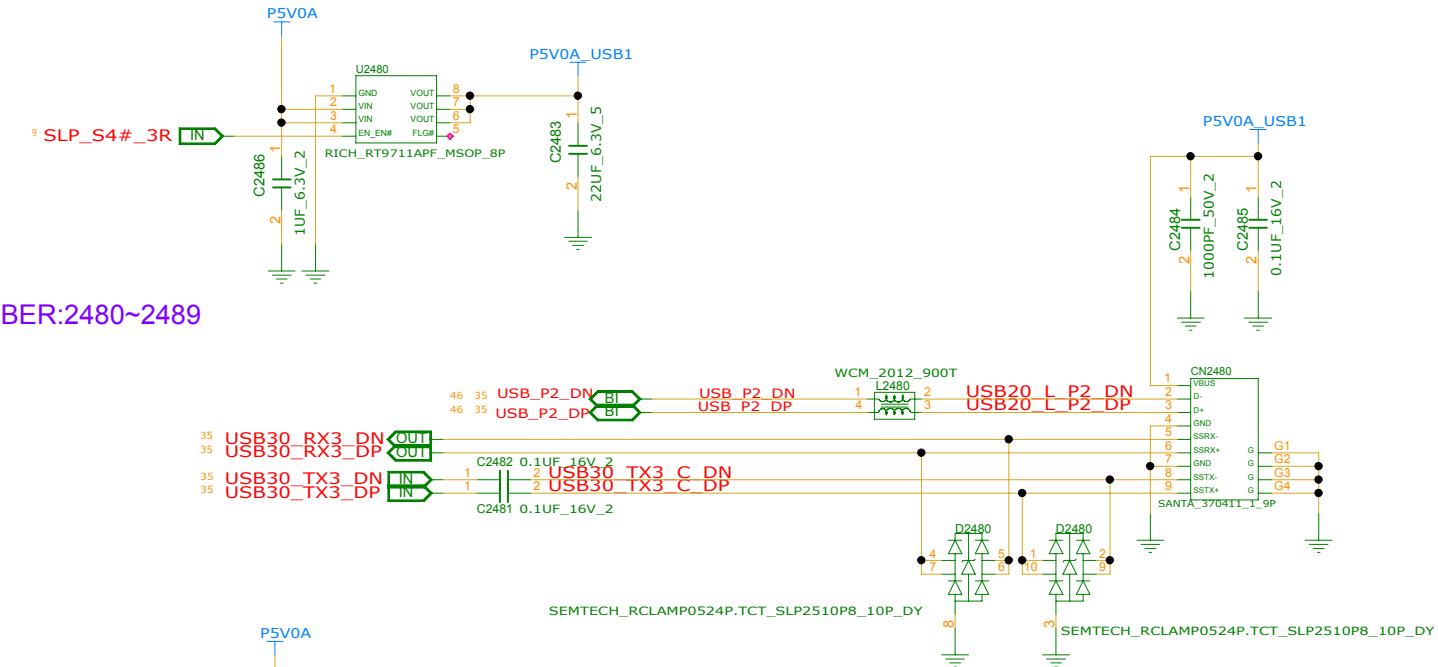
REFERENCE NUMBER:2500~2599



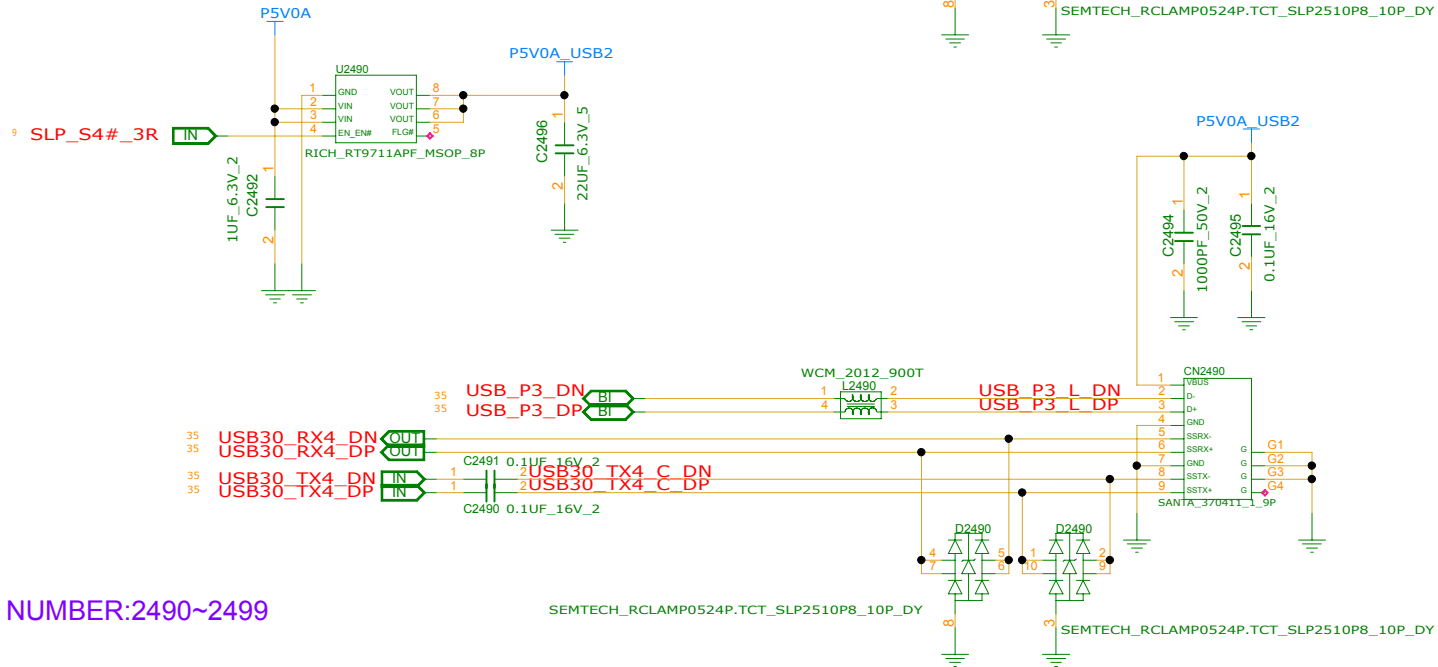
REFERENCE NUMBER:1800~1899

INVENTEC			
TITLE MODEL PROJECT,FUNCTION USB & ESATA COMBO/ USB CHARGER			
SIZE A3		CODE CS	
DOC NUMBER 1310A24664-0-ALG		REV A	
SHEET 45 of 68			

REFERENCE NUMBER:2480~2489

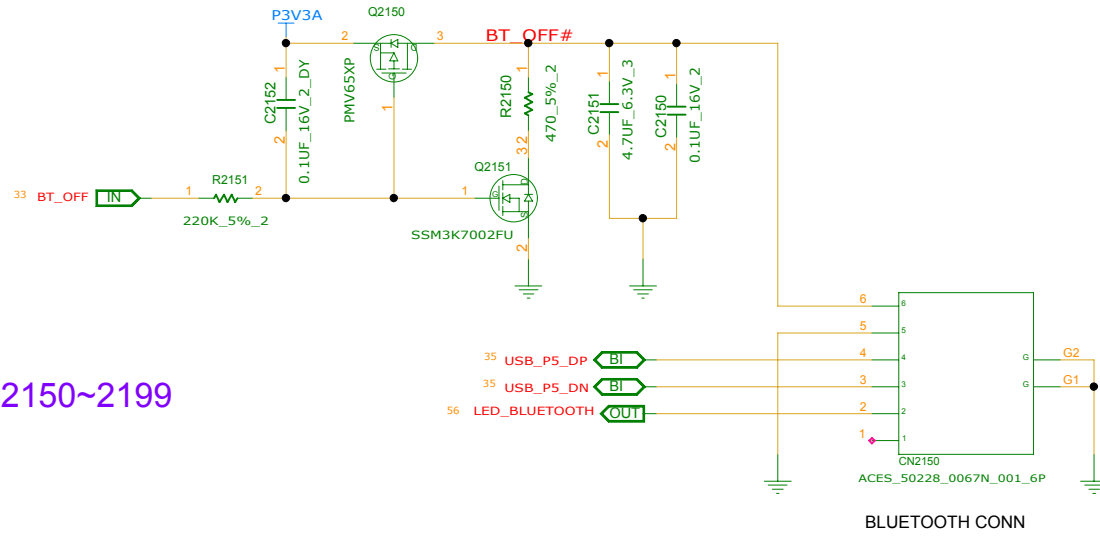


REFERENCE NUMBER:2490~2499

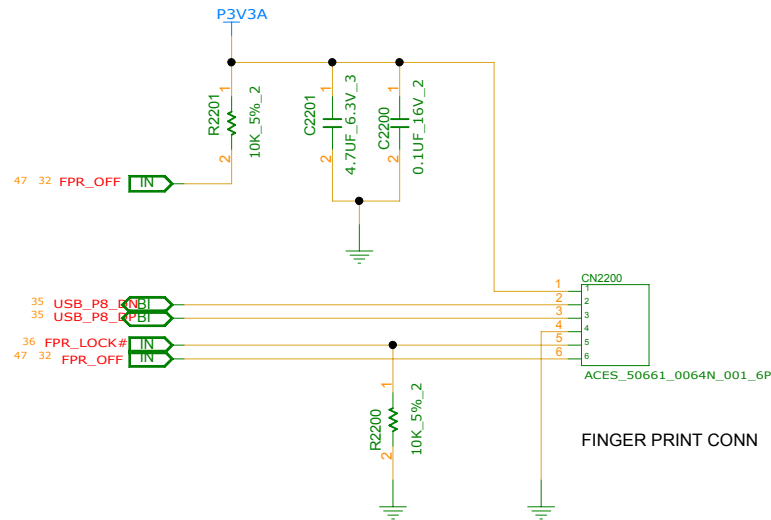


INVENTEC			
TITLE USB CONN			
MODEL PROJECT,FUNCTION			
DOC NUMBER 1310A24664-0-ALG			
SIZE A3	CODE CS	REV A	

REFERENCE:2150~2199

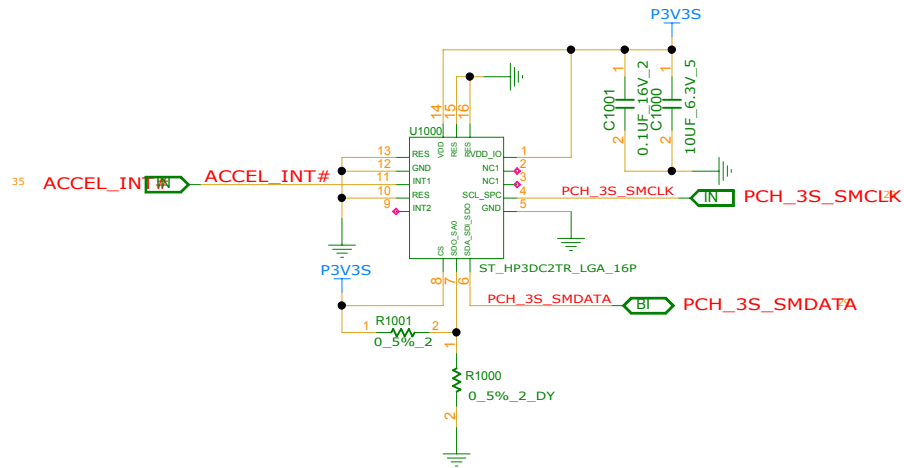


REFERENCE:2200~2249



INVENTEC			
TITLE			
BLUE TOOTH & FINGER PRINTER CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 47 of 68			

REFERENCE NUMER : 1000~1099

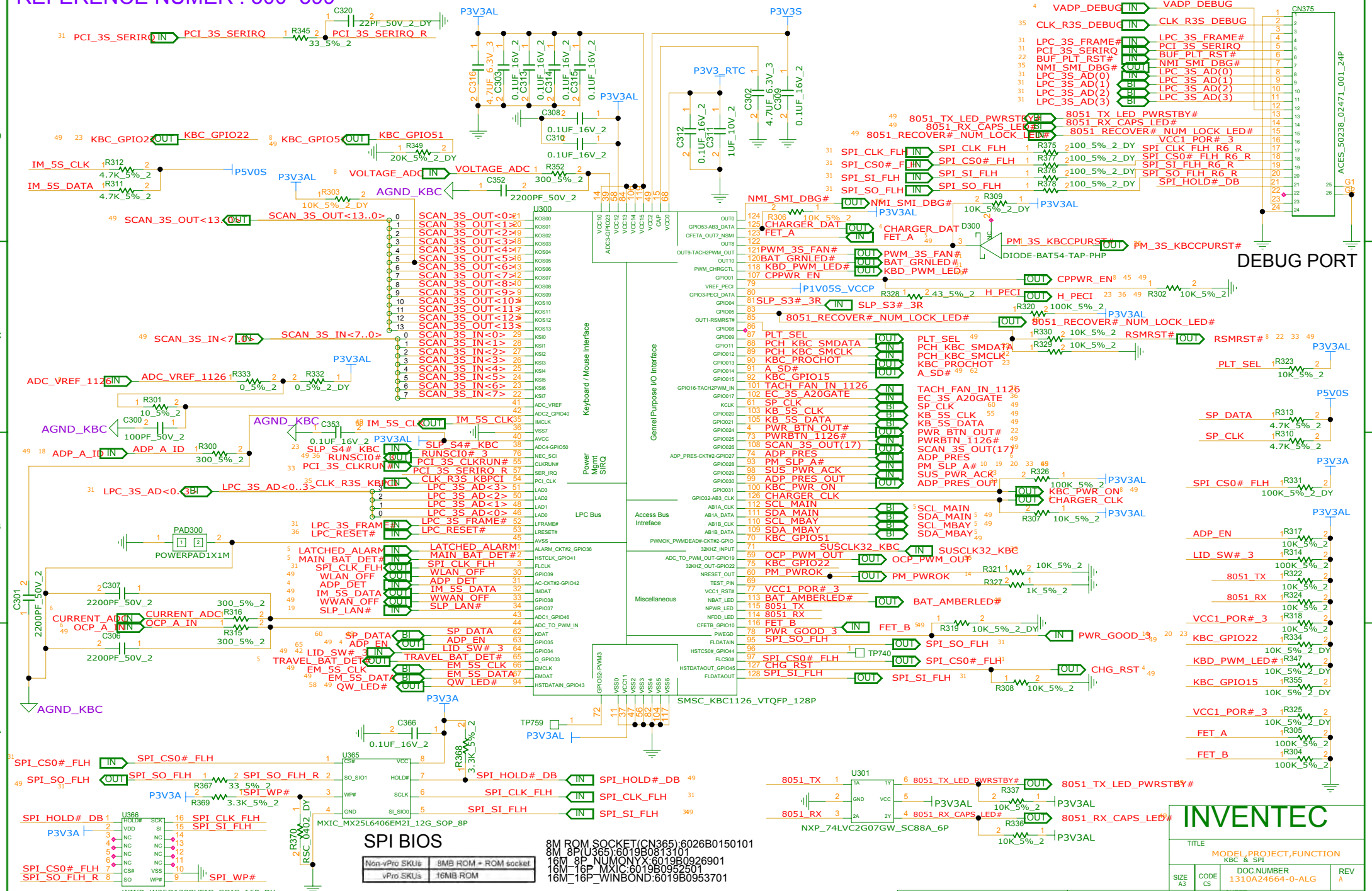


ACCELEMETOR

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
ACCELEMETOR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A

REFERENCE NUMER : 300~399



SPI BIOS

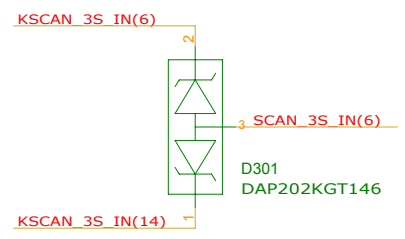
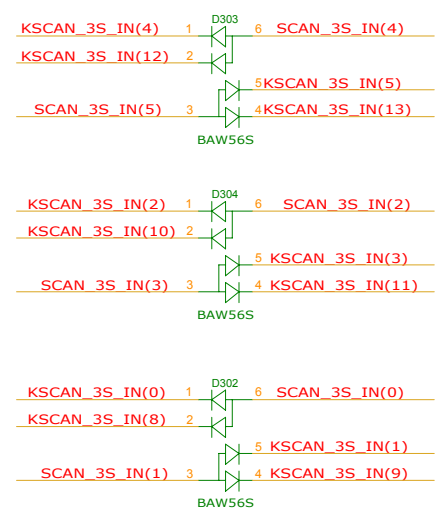
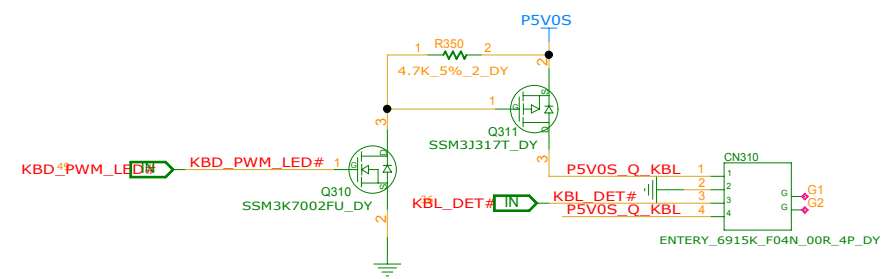
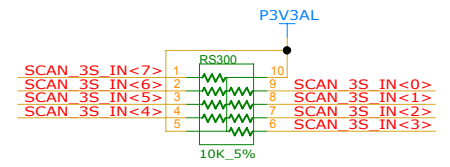
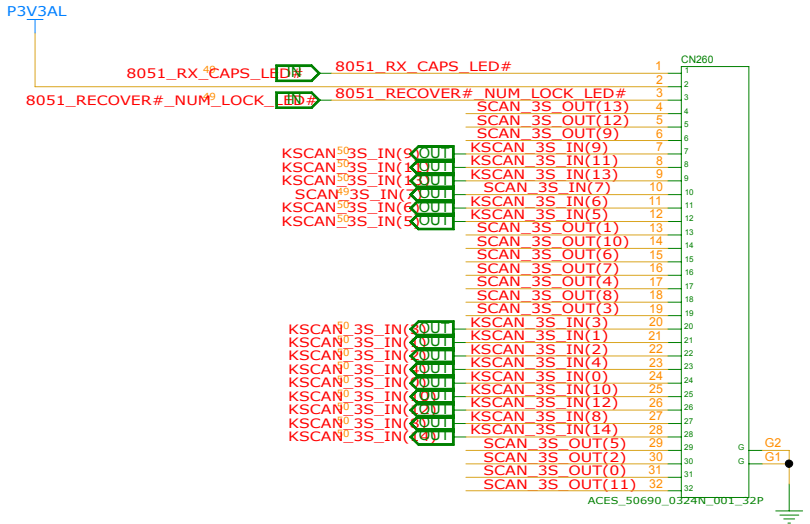
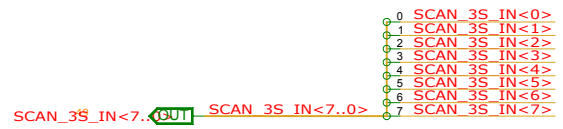
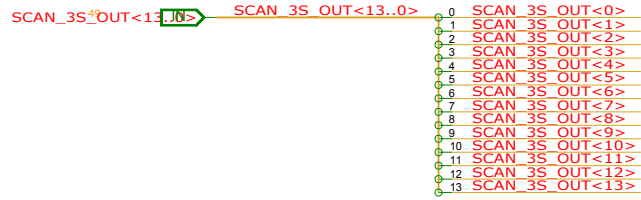
8M ROM SOCKET (CN365) 6026B0150101
 8M 8P U365 6019B081310
 16M 8P U366 6019B081310
 16M 8P U367 6019B081310
 16M 16P U368 6019B092501
 16M 16P U369 6019B092501

Non-vPro SKUs	8MB ROM + ROM socket
vPro SKUs	16MB ROM

INVENTEC

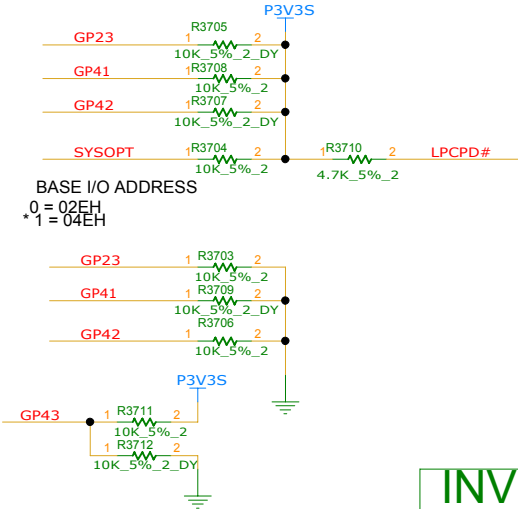
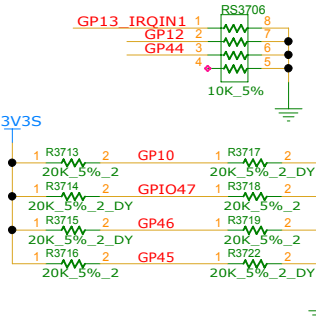
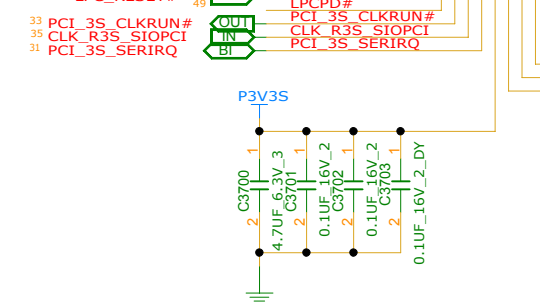
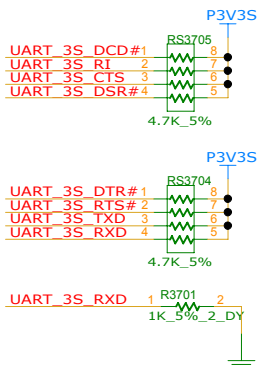
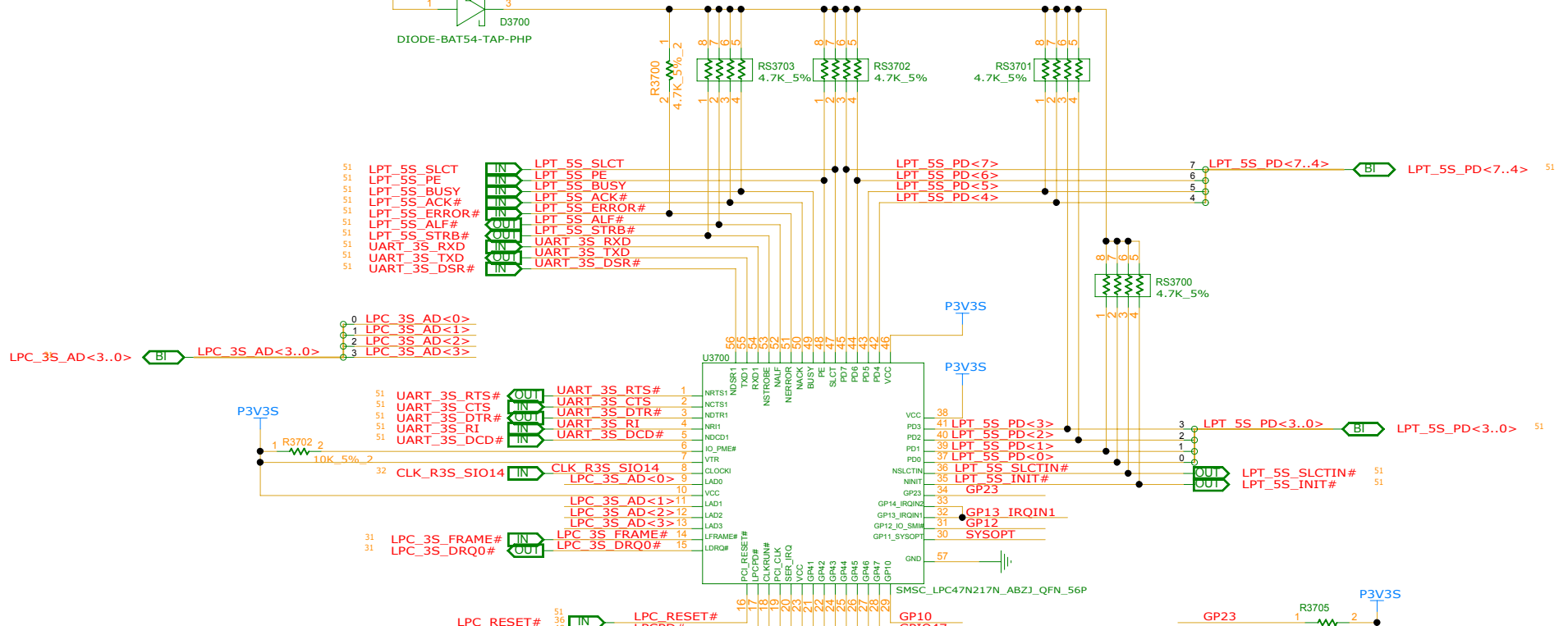
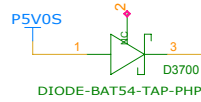
TITLE	MODEL	PROJECT	FUNCTION
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
CHANGE by		DATE	SHEET
Edi Chen		02-APR-2012	49 of 68

REFERENCE NUMER : 300~389



INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
KEYBOARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
CHANGE by		DATE	SHEET
Edi Chen		02-APR-2012	50 of 68

REFERENCE NUMBER : 3700~3799



BASE I/O ADDRESS
 0 = 02EH
 *1 = 04EH

R3713	R3714	R3715	R3716	R3717	R3718	R3719	R3722	System Board Revision
Installed	DY	DY	DY	Installed	Installed	Installed	Installed	SI1
DY	Installed	DY	Installed	Installed	DY	Installed	DY	SI1_B
Installed	DY	DY	DY	DY	Installed	Installed	Installed	PV
Installed	DY	DY	Installed	DY	Installed	Installed	DY	PV-R
Installed	Installed	DY	DY	DY	DY	Installed	Installed	MV

INVENTEC

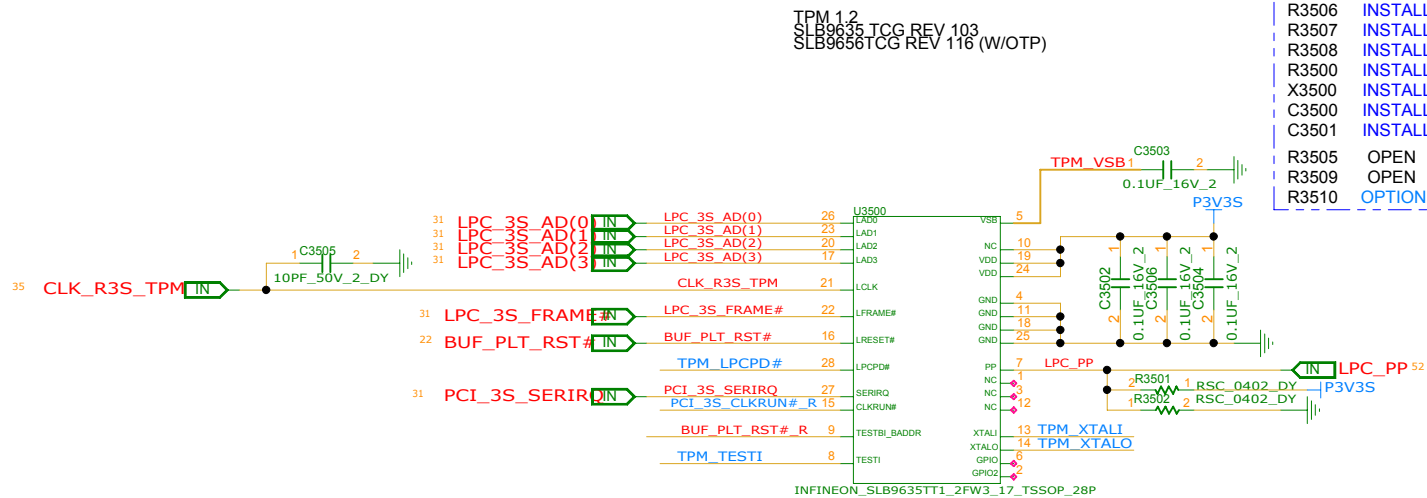
TITLE: MODEL,PROJECT,FUNCTION
 SUPER I/O

DOC NUMBER: 1310A24664-0-ALG

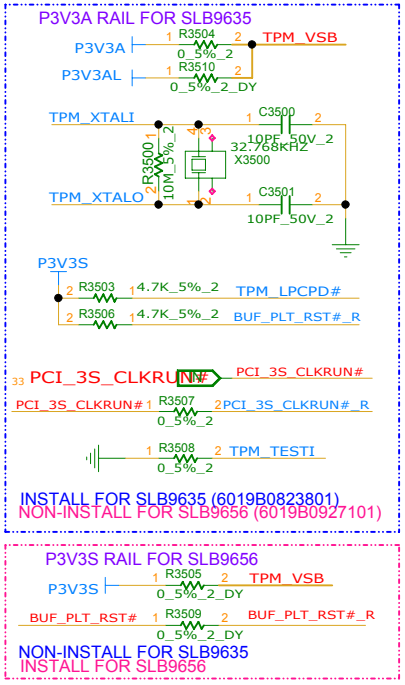
REV A

CHANGE by: Edi, Chen DATE: 02-APR-2012 SHEET 51 of 68

REFERENCE NUMER : 3500~3549

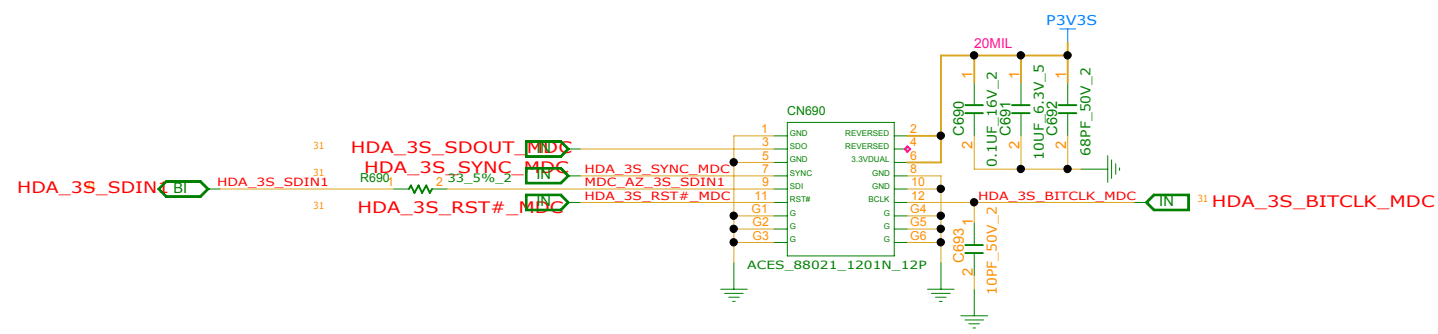


SLB9635SLB9656		
R3504	INSTALL	OPEN
R3503	INSTALL	OPEN
R3506	INSTALL	OPEN
R3507	INSTALL	OPEN
R3508	INSTALL	OPEN
R3500	INSTALL	OPEN
X3500	INSTALL	OPEN
C3500	INSTALL	OPEN
C3501	INSTALL	OPEN
R3505	OPEN	INSTALL
R3509	OPEN	INSTALL
R3510	OPTION	OPEN



TPM1.2

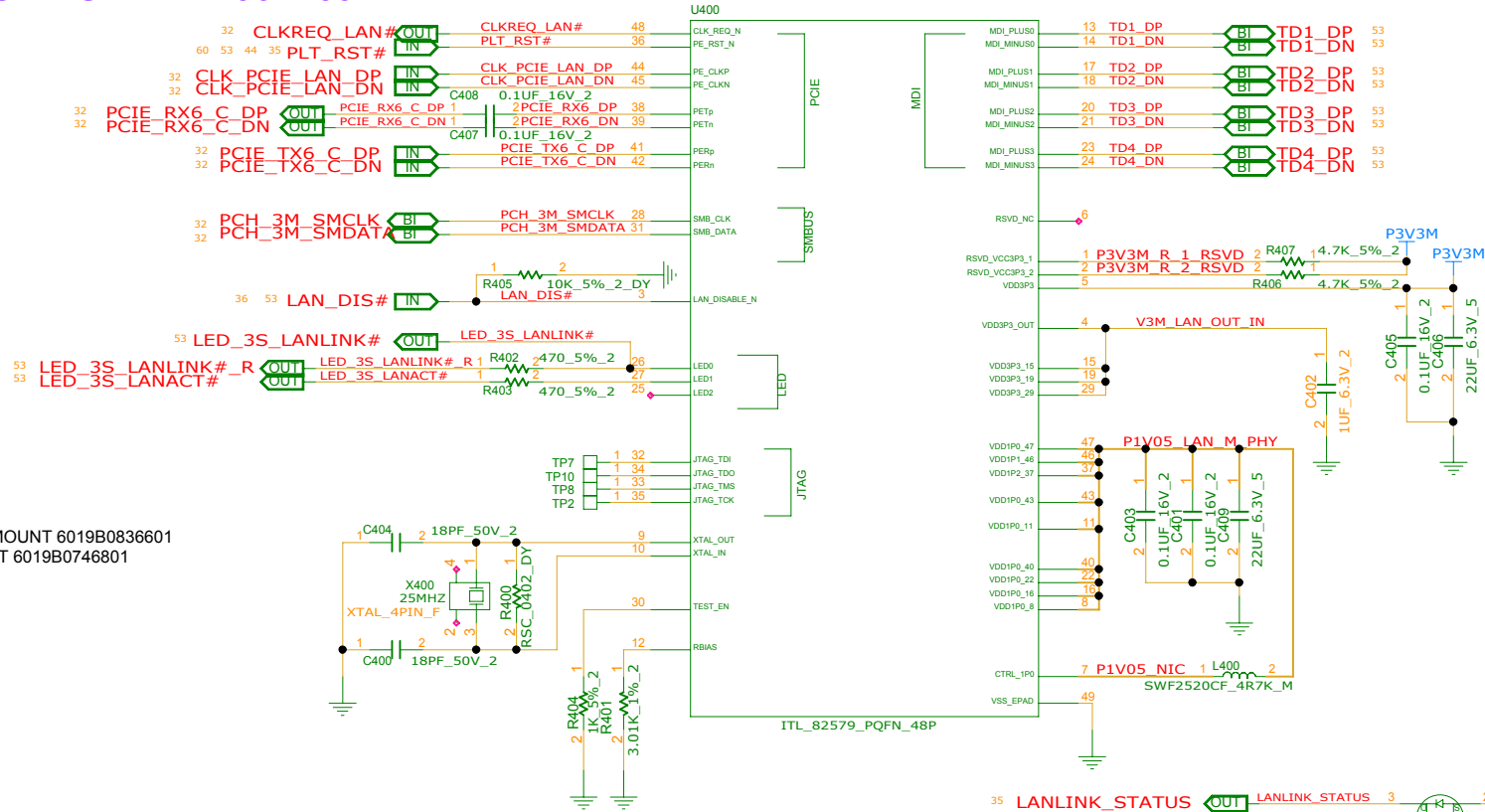
REFERENCE NUMER : 650~699



MDC CONN

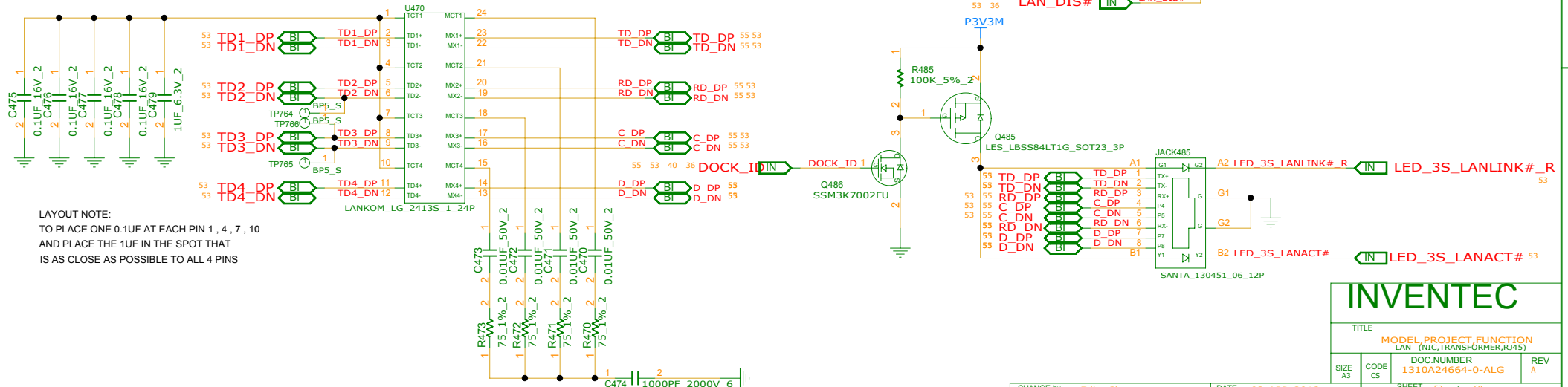
INVENTEC				
TITLE TPM & MDC				
MODEL PROJECT,FUNCTION				
DOC.NUMBER 1310A24664-0-ALG				
SIZE A3	CODE CS	REV A		
SHEET 52 of 68				

REFERENCE NUMER : 400~469



NOTE:
 NON-VPRO SKU U400 MOUNT 6019B0836601
 VPRO SKU U400 MOUNT 6019B0746801

REFERENCE NUMER : 470~499



LAYOUT NOTE:
 TO PLACE ONE 0.1UF AT EACH PIN 1, 4, 7, 10
 AND PLACE THE 1UF IN THE SPOT THAT
 IS AS CLOSE AS POSSIBLE TO ALL 4 PINS

INVENTEC

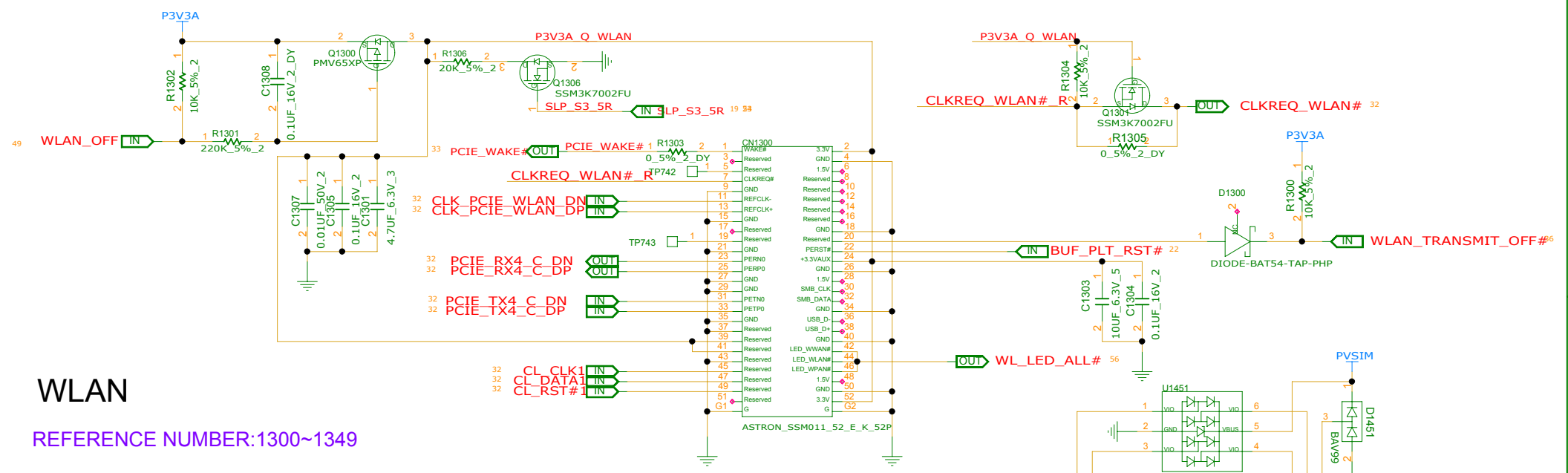
TITLE: MODEL PROJECT FUNCTION
 LAN (NIC TRANSFORMER, RJ45)

DOC NUMBER: 1310A24664-0-ALG REV A

CHANGE by: Fdi Chen DATE: 02-APR-2012 SHEET 53 of 68

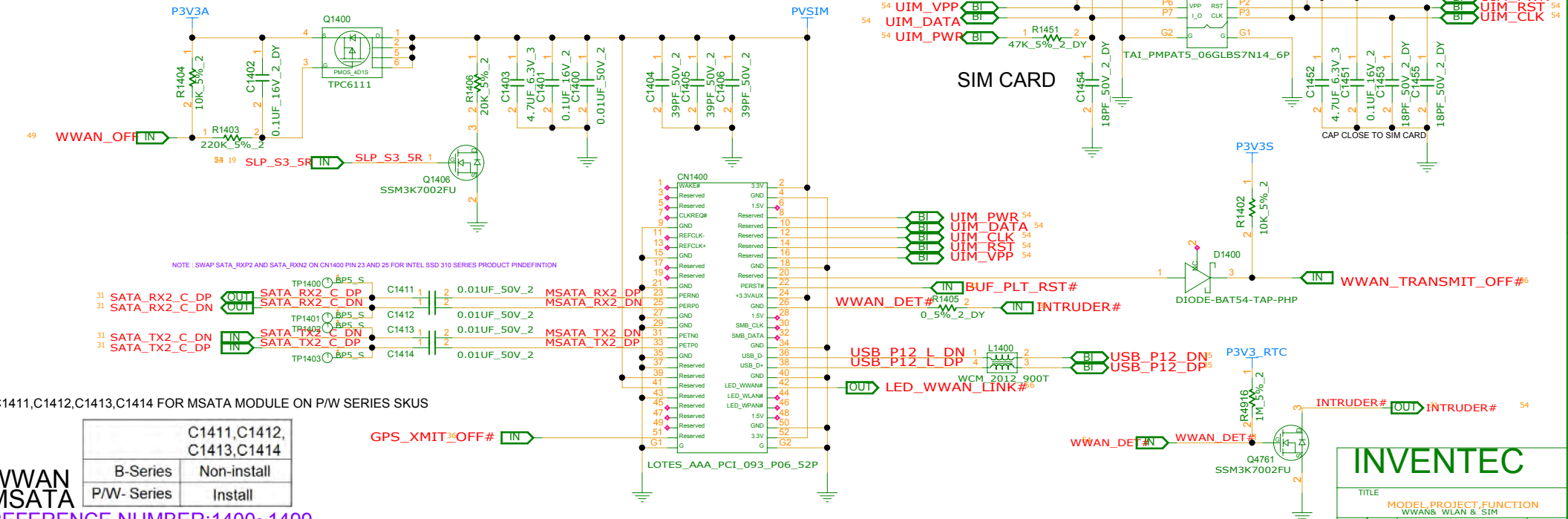
WLAN

REFERENCE NUMBER:1300~1349



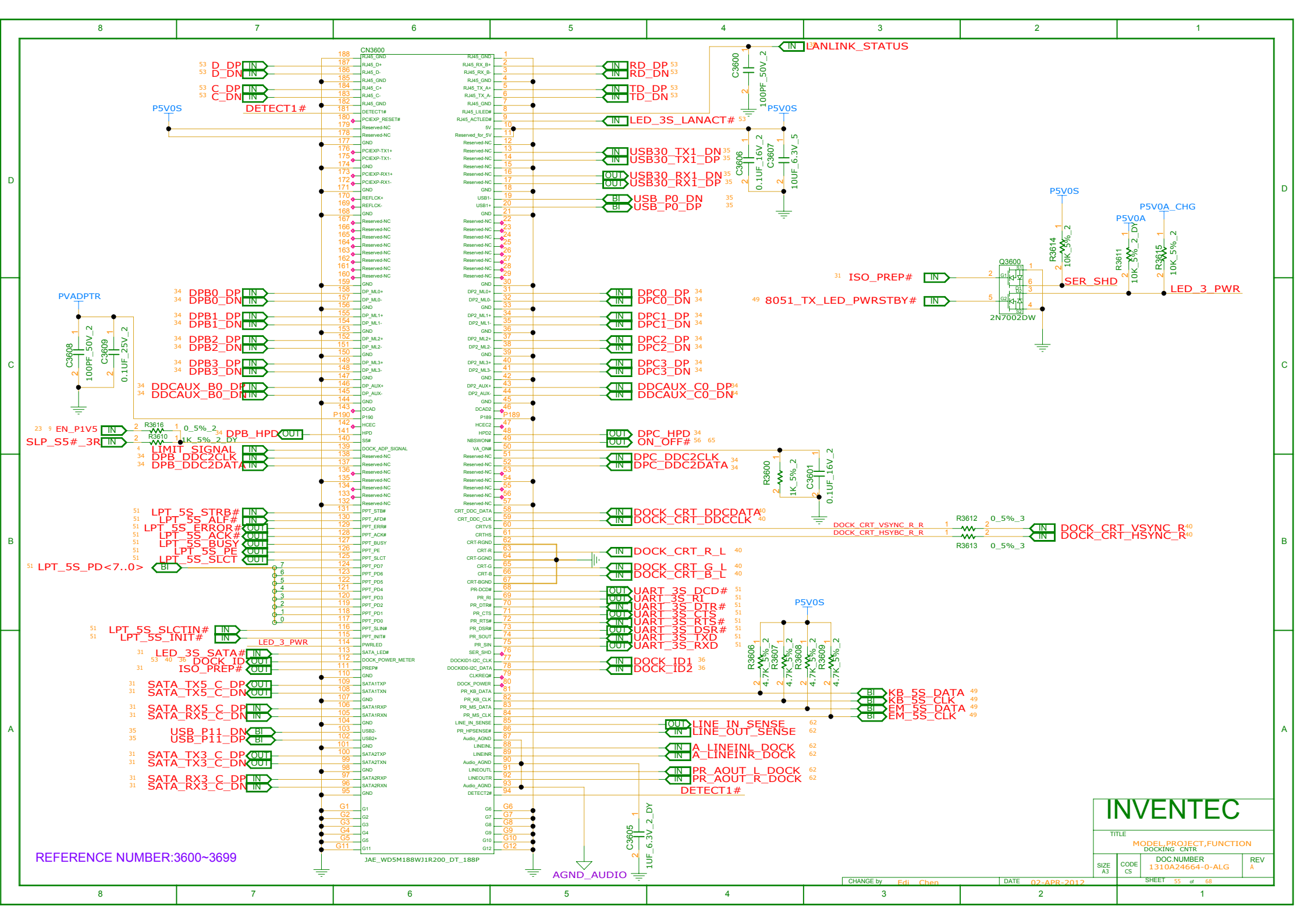
WWAN

REFERENCE NUMBER:1400~1499



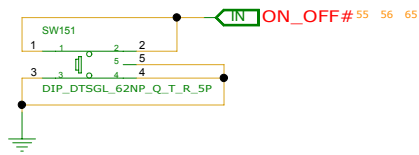
	C1411,C1412, C1413,C1414
B-Series	Non-install
P/W-Series	Install

INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION WWAN& WLAN & SIM			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

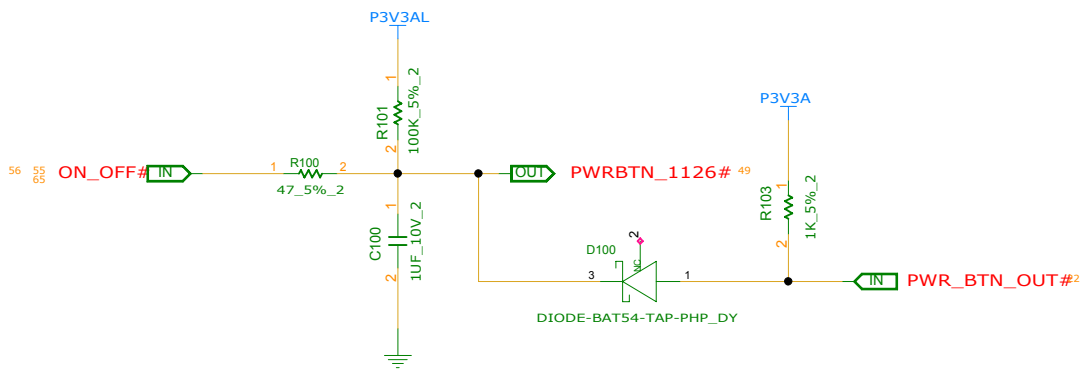
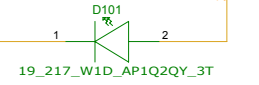


REFERENCE NUMBER:3600~3699

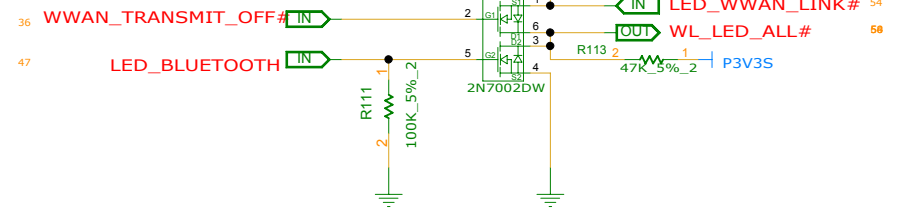
INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION DOCKING CN3			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
CHANGE by Edi Chen		DATE 02-APR-2012	SHEET 55 of 68



8051_TX_LED_PWRSTBY# 60



POWER / STANDBY LED



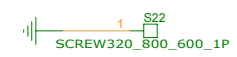
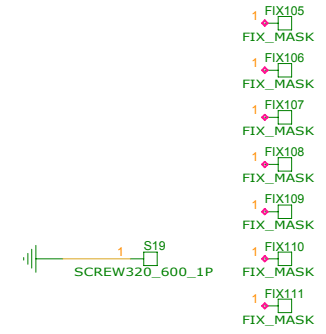
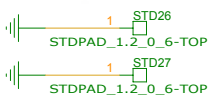
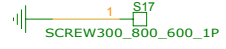
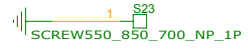
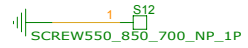
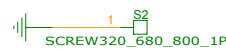
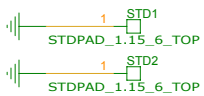
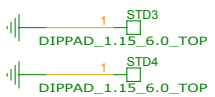
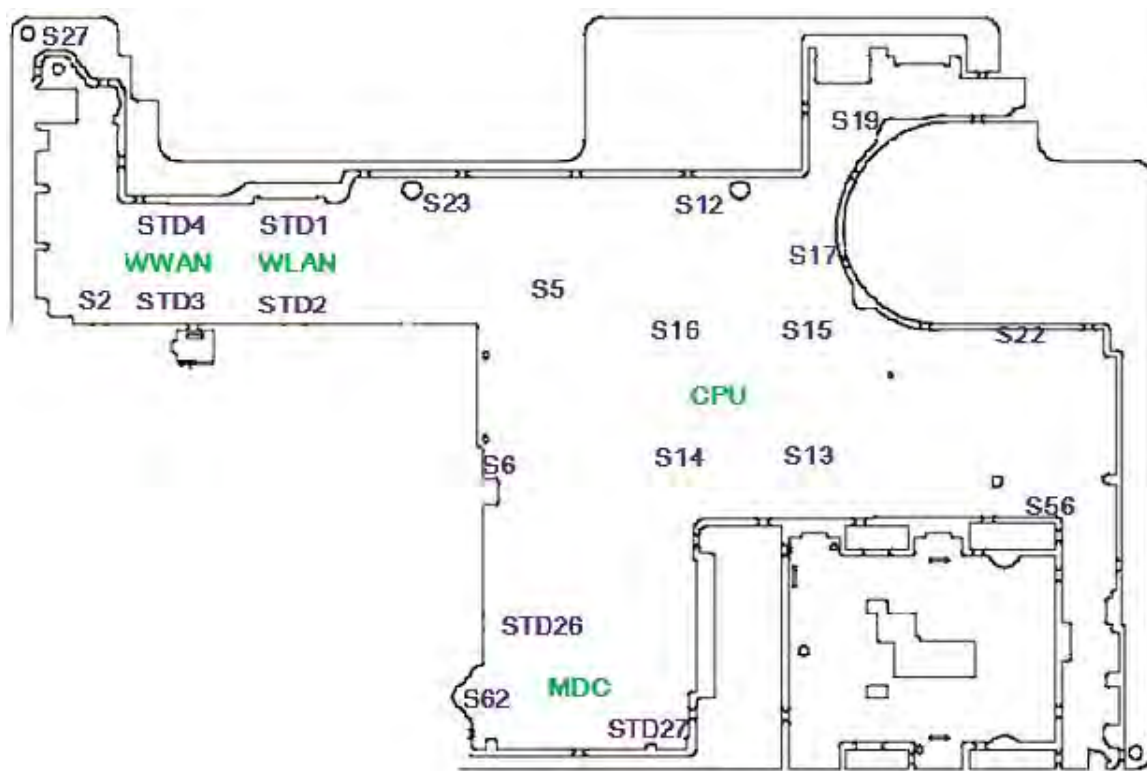
WLAN_WWAN_BLUETOOTH_LED

REFERENCE NUMBER:100~199

INVENTEC

TITLE			
MODEL PROJECT_FUNCTION POWER & WLAN_LED			
SIZE A3		CODE CS	REV A
DOC.NUMBER 1310A24664-0-ALG		REV A	

SCREW



WWAN

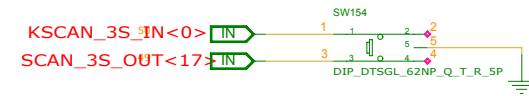
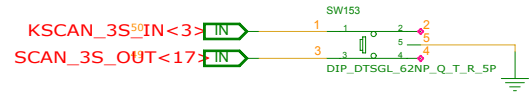
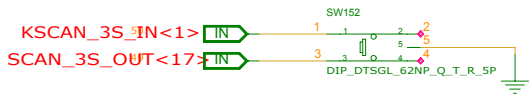
WLAN

CPU

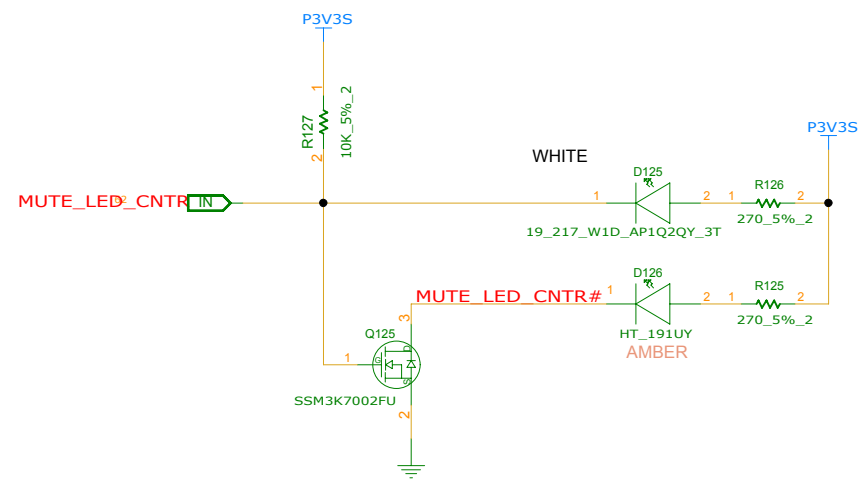
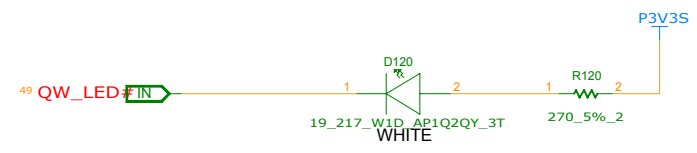
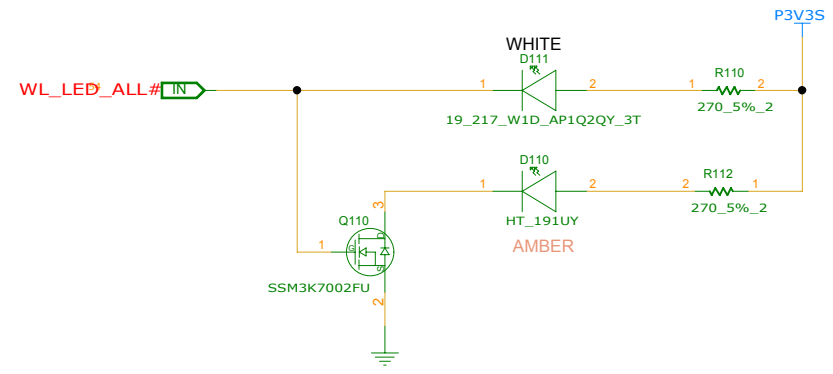
MDC

INVENTEC

TITLE			
SCREW			
MODEL,PROJECT,FUNCTION			
SCREW			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 57 of 68			

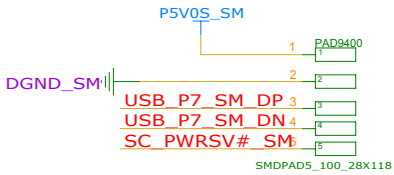


REFERENCE NUMBER:100~199

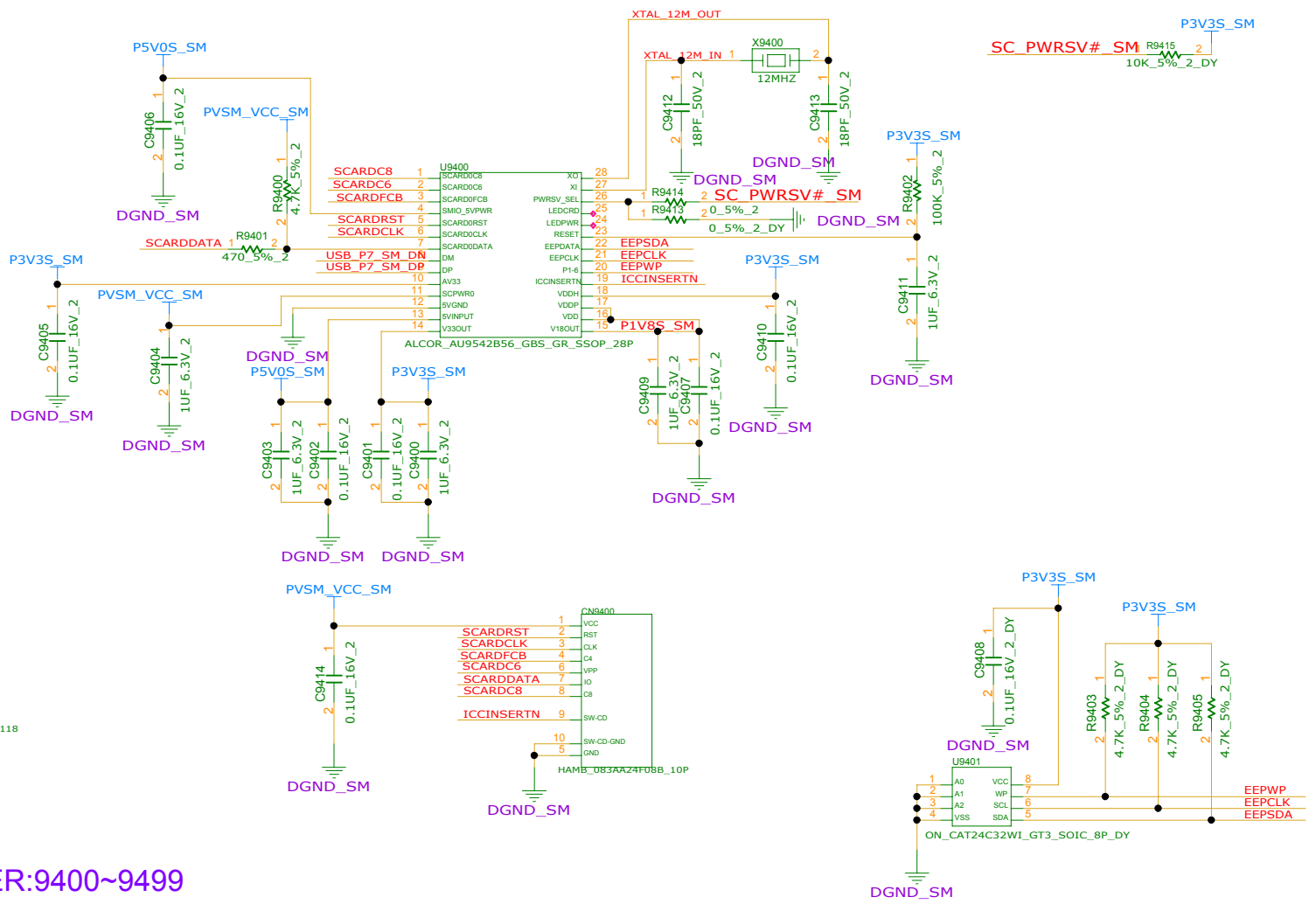
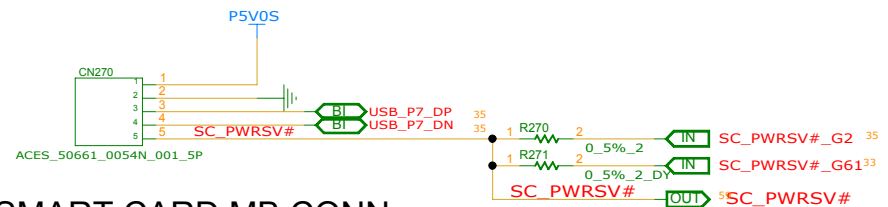


INVENTEC			
TITLE MODEL,PROJECT,FUNCTION WIRELESS / QUICK WEB / MUTE LED			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 58 of 68			

- FIX9401
- FIX9402
- FIX9403
- FIX9404
- FIX9405
- FIX9406
- FIX9407
- FIX9408
- FIX_MASK
- FIX_MASK
- FIX_MASK
- FIX_MASK



SMART CARD MB CONN.

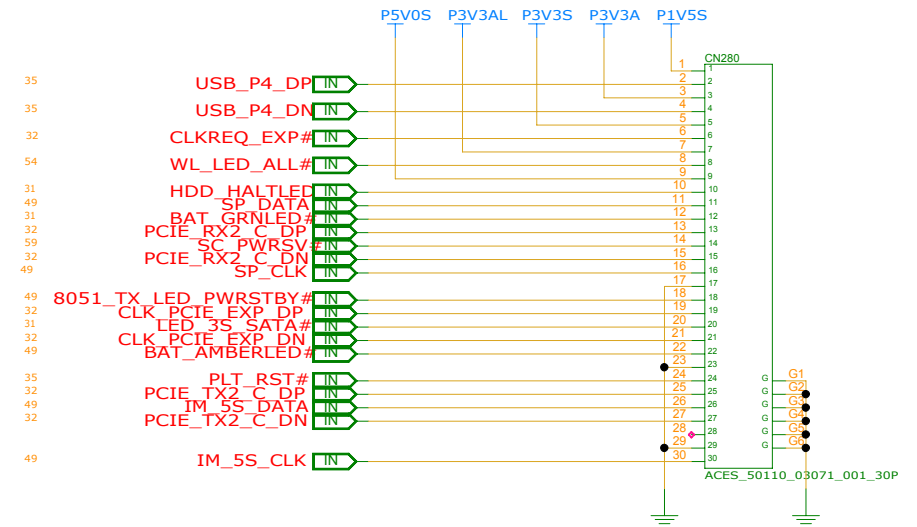
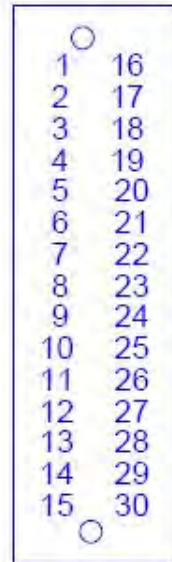


INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
SMART CARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
CHANGE by		DATE	SHEET
Edi Chen		02-APR-2012	59 of 68

EXPRESSCARD CONN

MB SIDE(CN280) PIN DEFINE

DB SIDE(CN9001) PIN DEFINE



EXCHANGE 6012B0069804 ON MB
 6012B0029801 ON EXP CARD
EXPRESS CARD MB CONN.

REFERENCE NUMBER:9000~9099

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION EXPRESS_CARD_CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

8

7

6

5

4

3

2

1

D

D

C

C

B

B

A

A

EMPTY

INVENTEC

TITLE			
EXPRESS	MODEL	PROJECT	FUNCTION
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 61 of 68			

CHANGE by **Edi Chen** DATE **02-APR-2012**

8

7

6

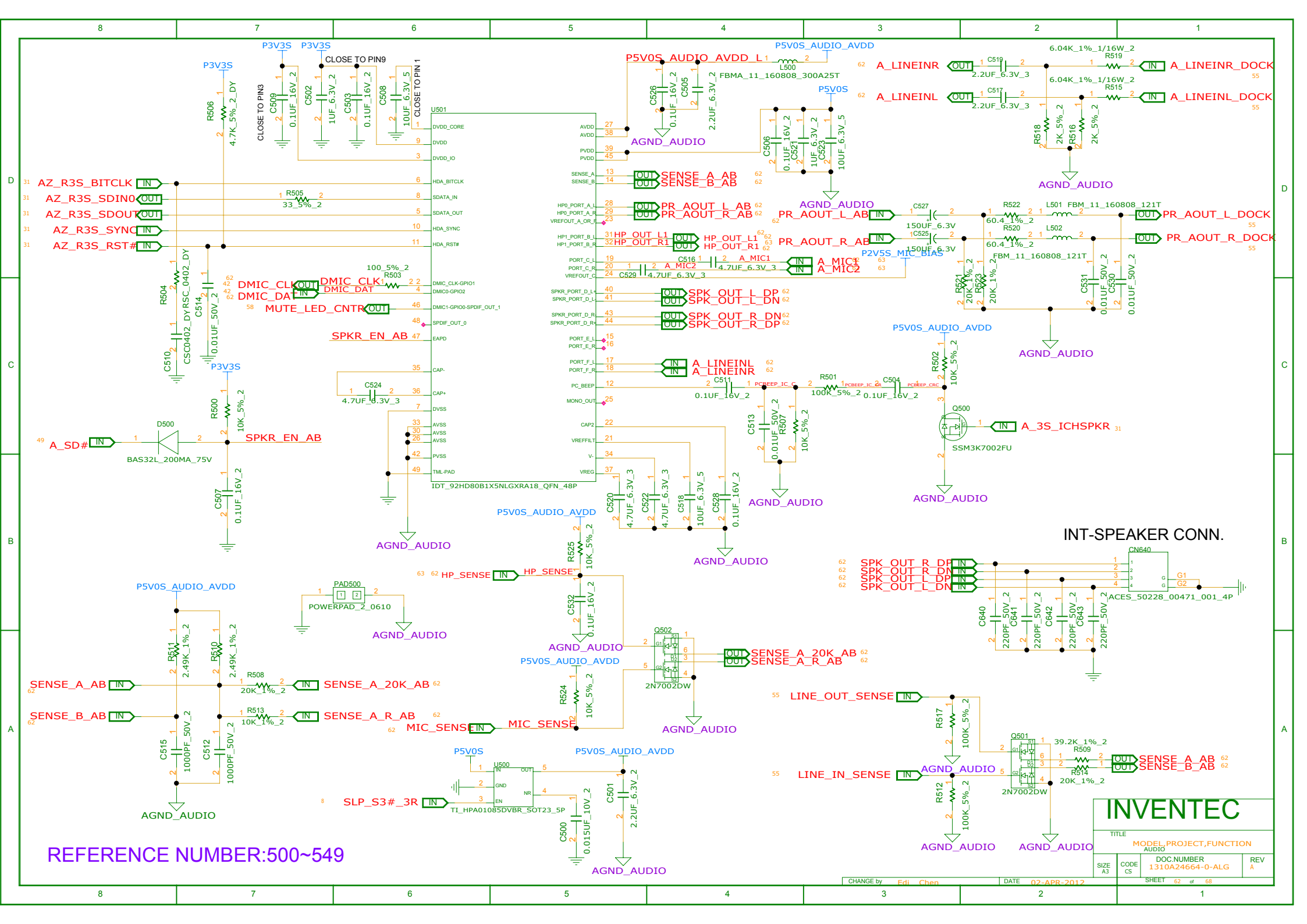
5

4

3

2

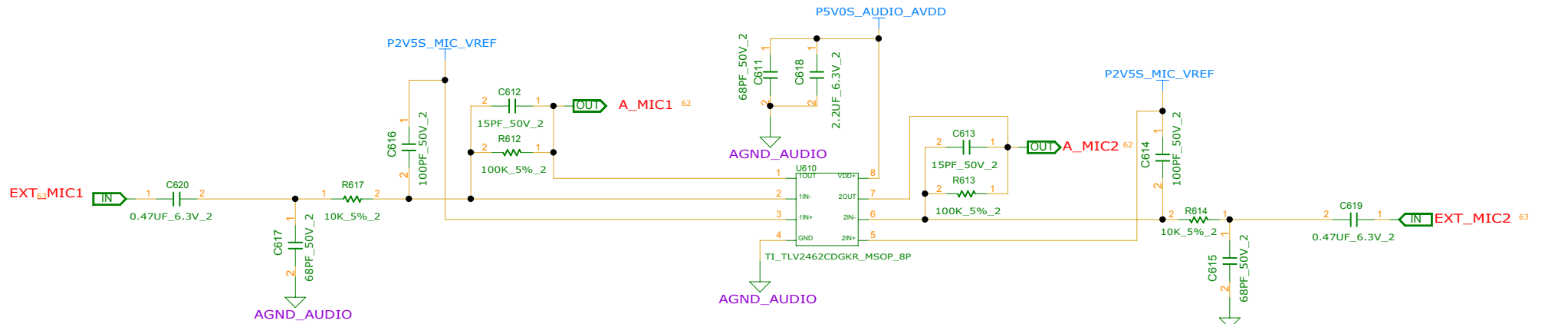
1



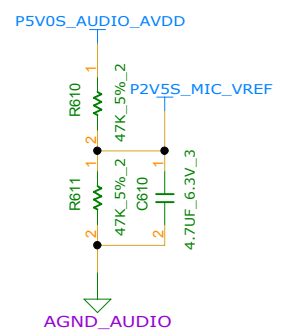
REFERENCE NUMBER:500~549

INVENTEC			
TITLE MODEL PROJECT,FUNCTION			
DOC NUMBER 1310A24664-0-ALG			
REV A			
SIZE A3	CODE CS	DATE 02-APR-2012	SHEET 62 of 68

CHANGE by Edi Chen DATE 02-APR-2012

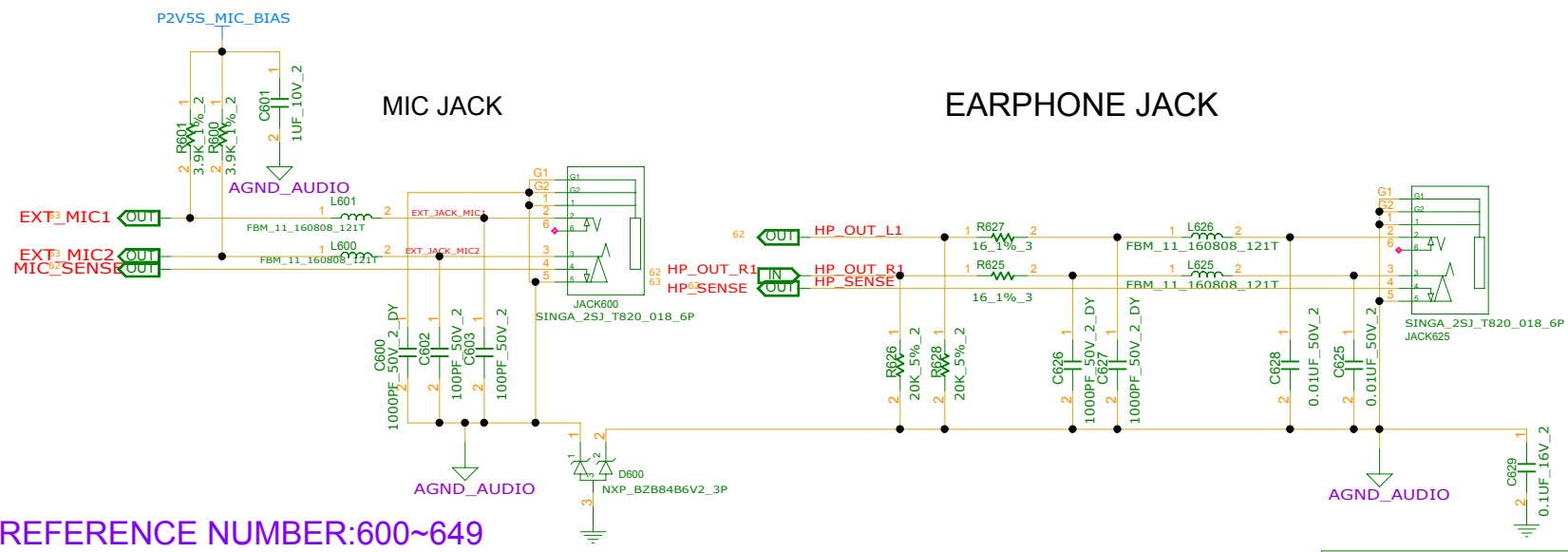


EXT. MIC
REFERENCE NUMBER:610~624



MIC JACK

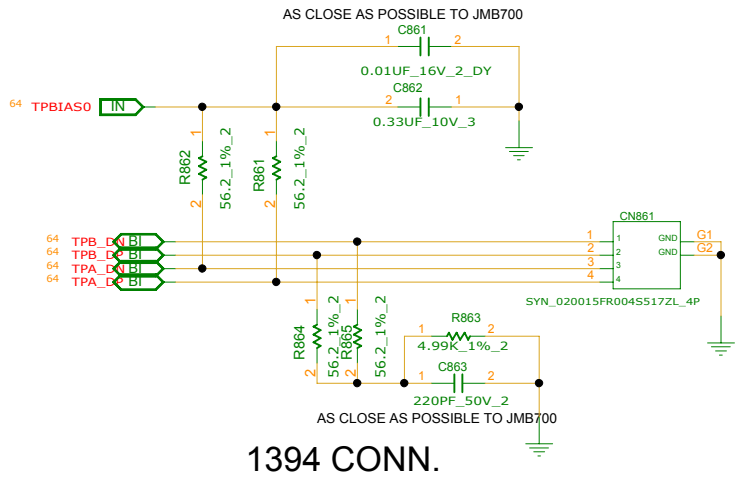
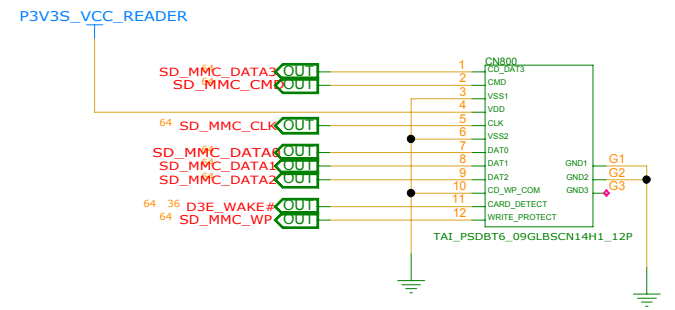
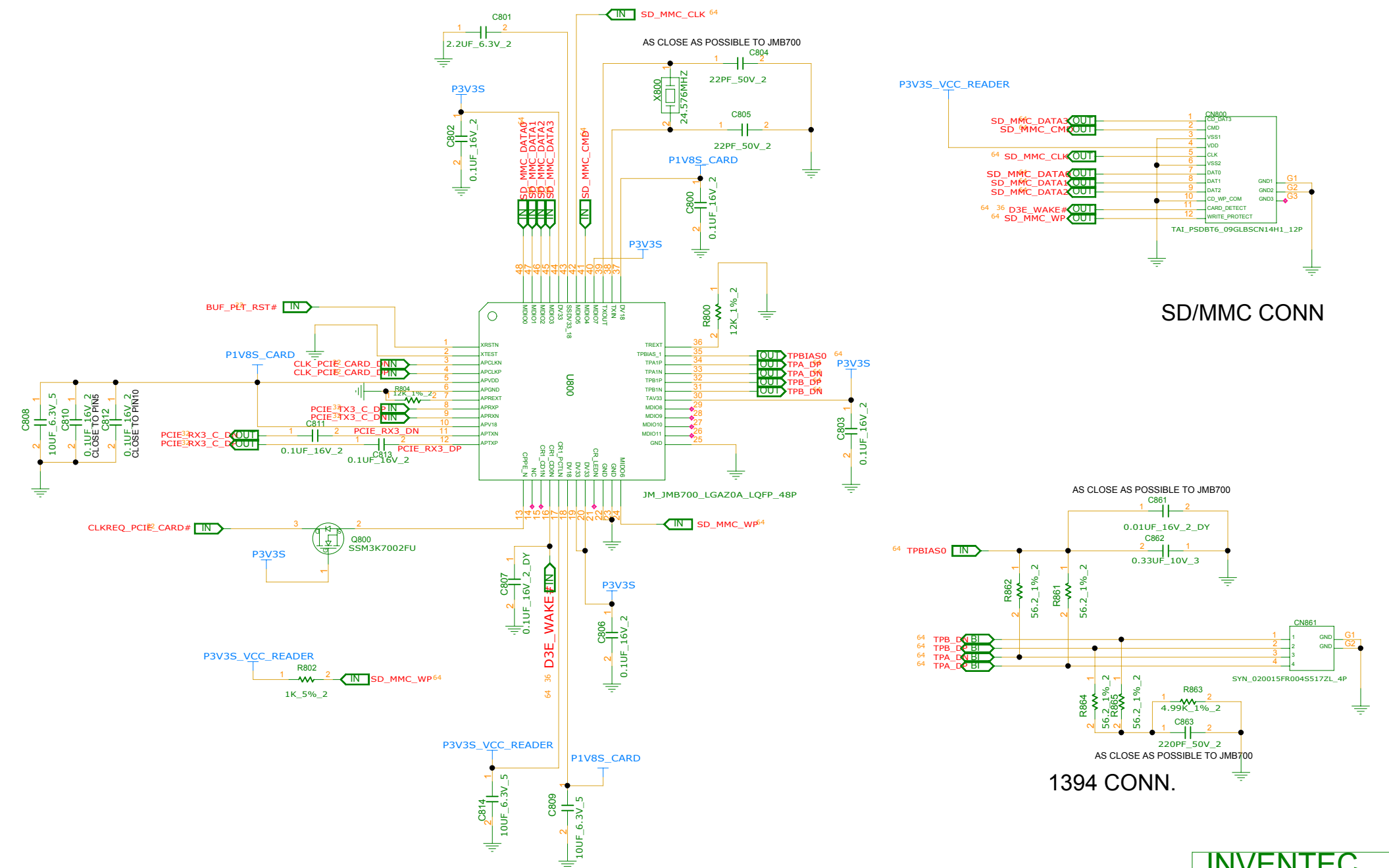
EARPHONE JACK



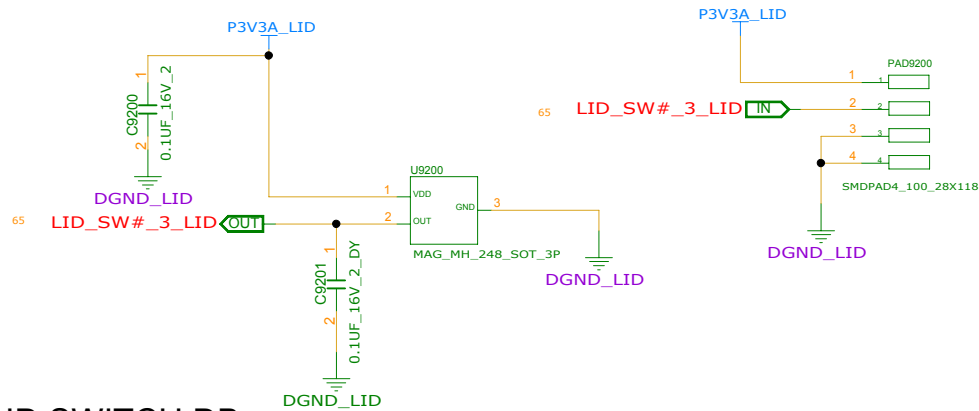
REFERENCE NUMBER:600~649

INVENTEC			
TITLE MODEL,PROJECT,FUNCTION EXT. MIC / MIC / HP			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 63 of 68			

REFERENCE NUMBER:800~899

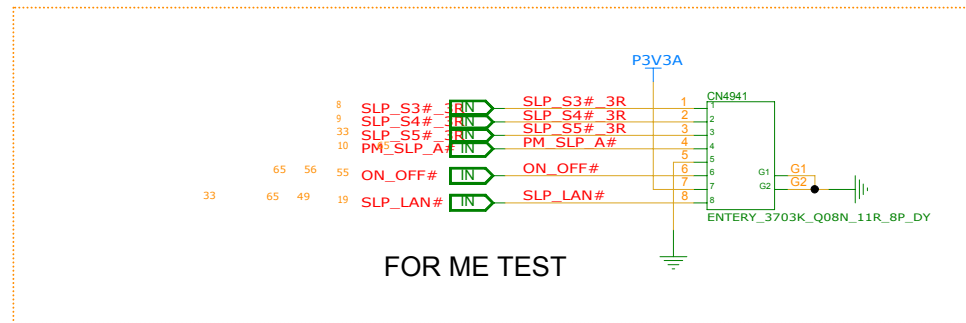


INVENTEC			
TITLE			
CARD READER CTRL / 1394 CONN / SD CONN		MODEL PROJECT FUNCTION	
SIZE A3		DOC NUMBER 1310A24664-0-ALG	
CODE CS		REV A	



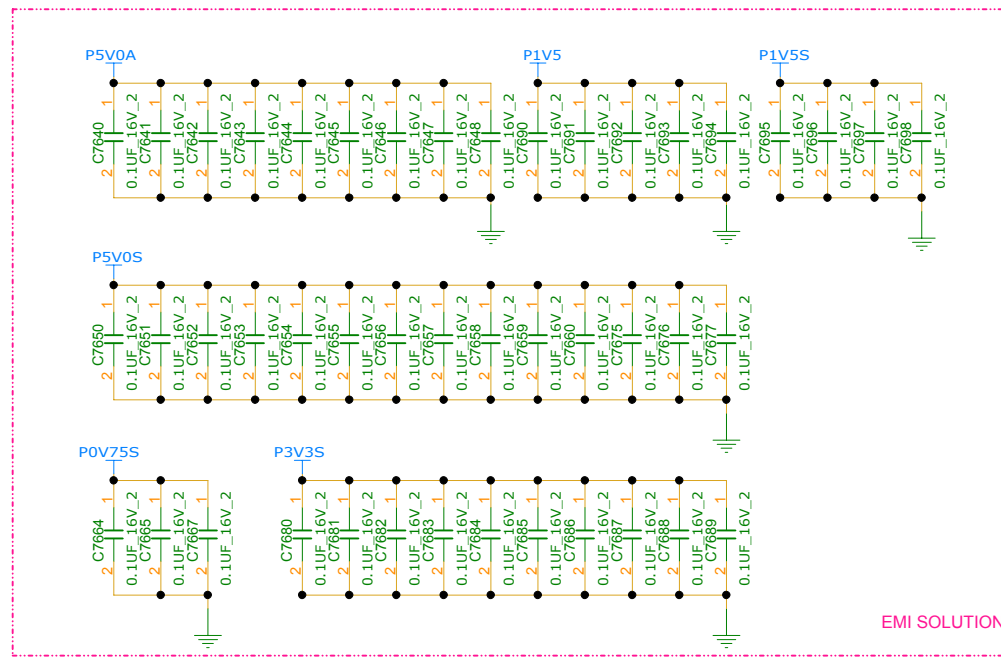
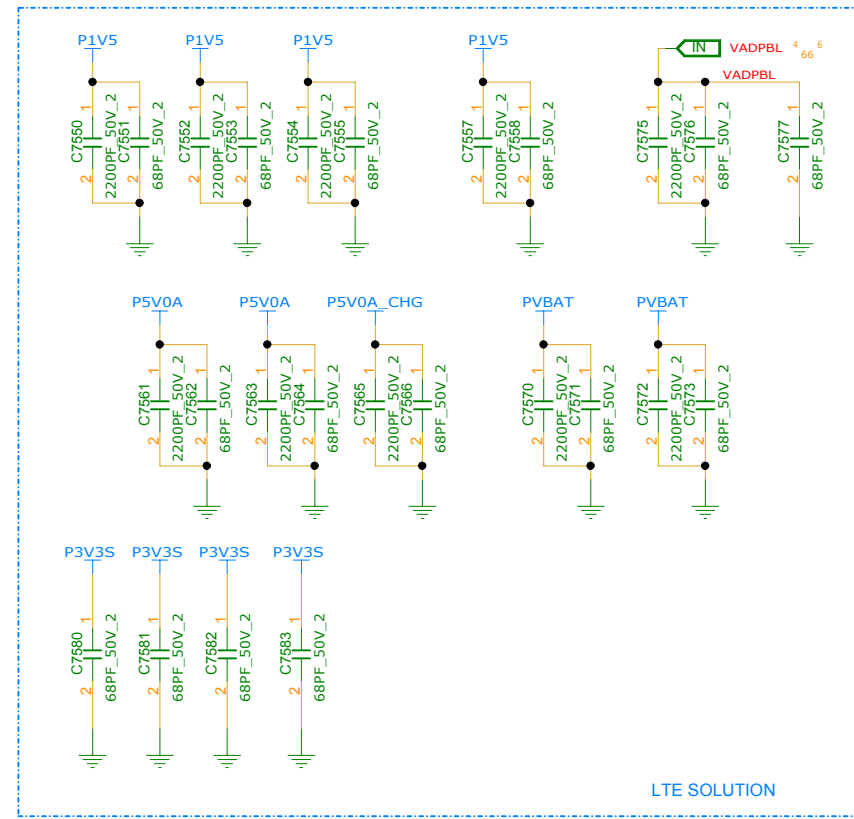
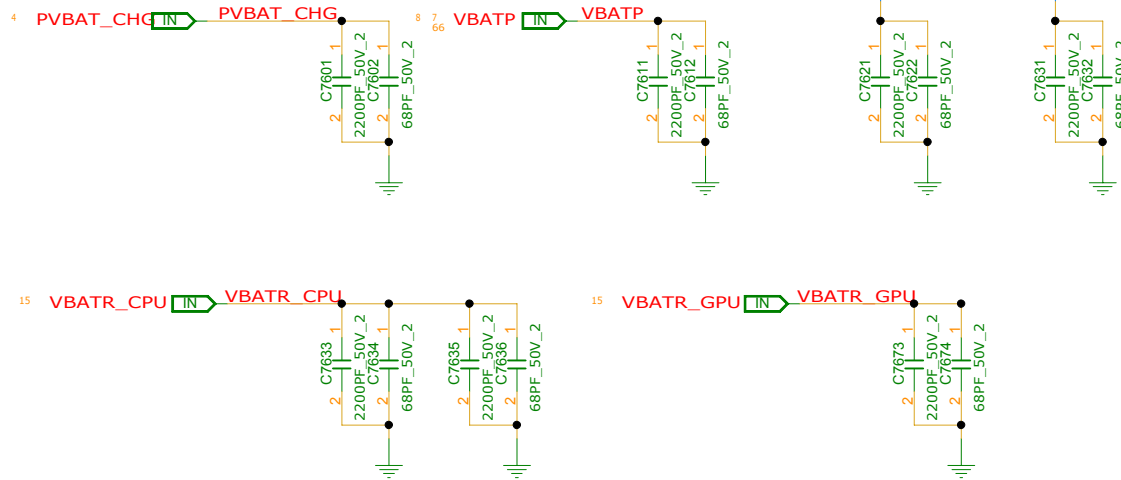
LID SWITCH DB

REFERENCE NUMBER:9200~9299

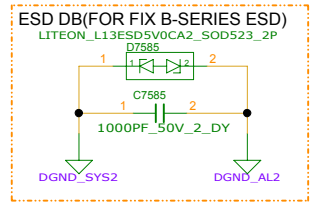


LID SWITCH MB CONN.

INVENTEC			
TITLE MODEL PROJECT,FUNCTION LID SWITCH			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A



INVENTEC			
TITLE MODEL,PROJECT,FUNCTION			
RF SOLUTION			
DOC NUMBER 1310A24664-0-ALG			
SIZE A3	CODE CS	REV A	
SHEET 66 of 68			



INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
ESD DB			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A25051-0-ALG	A
CHANGE by		DATE	SHEET
Edi Chen		02-APR-2012	68 of 68