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HSF Property: ROHS or Halogen-Free

CALVIN UMA

MV BUILD

2012.04.02

02-APR-2012	2012-ECO-005967	A
DATE	CHANGE NO.	REV

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DRAWER				POWER				INVENTEC			
DESIGN				DATE				TITLE			
CHECK				DATE				MODEL PROJECT FUNCTION			
RESPONSIBLE				DATE				CALVIN UMA MB			
SIZE				VER				DOC NUMBER			
FILE NAME				PIN				REV			
A3				A02				1310A24664-0-ALG			
CALVIN UMA MB 1310A2466401				6050A2466401				SHEET			

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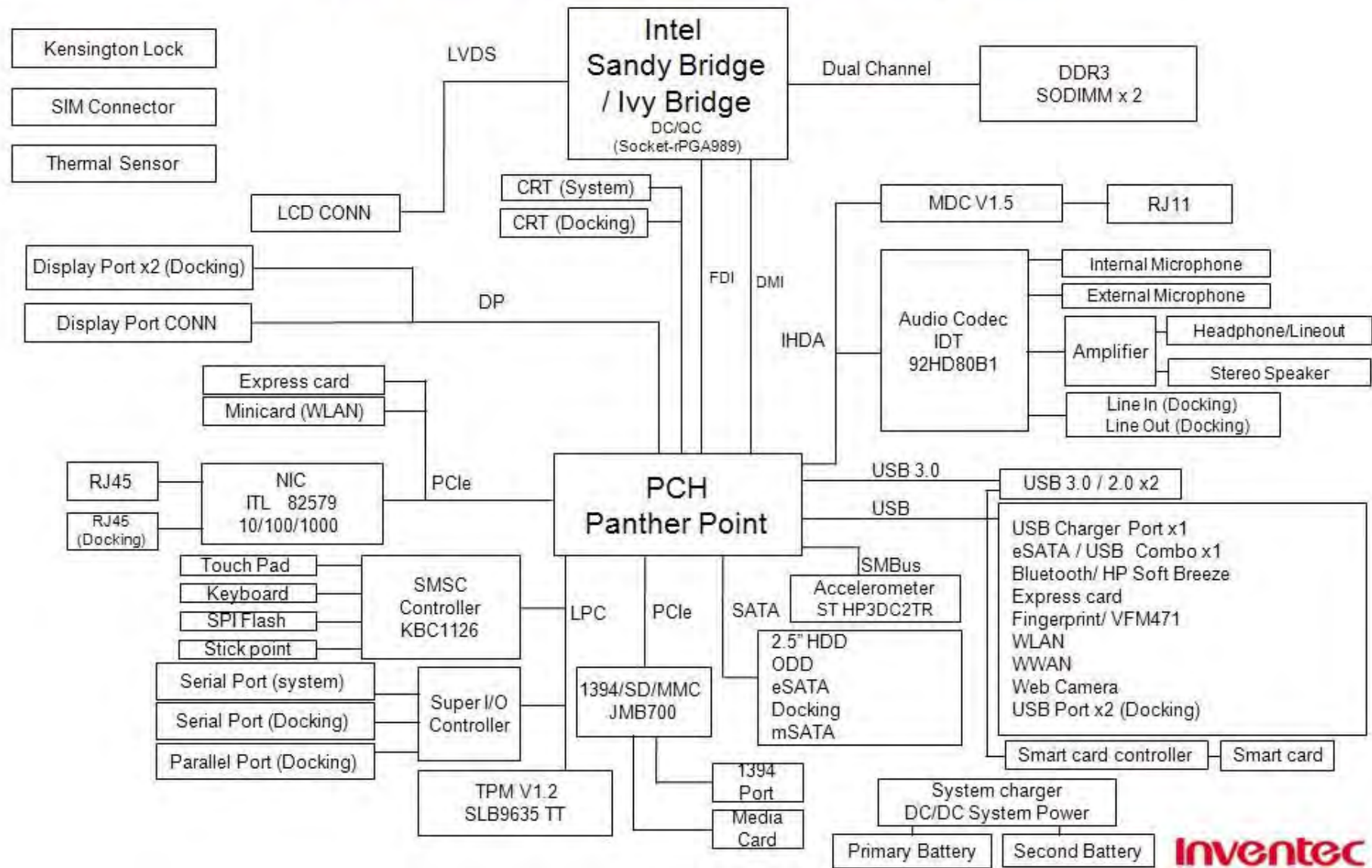
1. PROJECT NAME	23. IVY BRIDGE_1 (CLK,MISC,JTAG)	
2. TABLE OF CONTENTS	24. IVY BRIDGE_2 (POWER)	
3. BLOCK DIAGRAM	25. IVY BRIDGE_3 (DMI,DP,PEG,FDI)	
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13. SYSTEM POWER(PVSA)	35. PANTER POINT_5 (PCI,USB,NVRAM)	56. POWER & WLAN_LED
14. SYSTEM POWER(PVCORE&PVAXG-1)	36. PANTER POINT_6 (GPIO,VSS_NCFT,RSVD)	57. SCREW
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16. PVCORE_DGPU (SPARE)	38. PANTER POINT_8 (POWER)	59. SMART CARD
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18. HP_OCP	40. VGA SWITCH / CRT	61. EXPRESS CARD/POINT STICH/TOUCH PAD(SPARE)
19. POWER(SLEEP)	41. DISPLAY PORT CNTR	62. AUDIO
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21.FAN & THERMAL	43. EDP TO LVDS (SPARE)	64. CARD READER CTRL/1394 CONN/SD CONN
22. XDP CONN	44. SATA HDD & ODD CNTR	65. LID SWITCH
	45. USB & ESATA COMBO / USB CHARGER	66. RF SOLUTION
	46. USB CONN	

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TITLE			
MODEL PROJECT FUNCTION TABLE OF CONTENTS			
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CHANGE by: **XXX Chen** DATE: **18 MAR 2011**

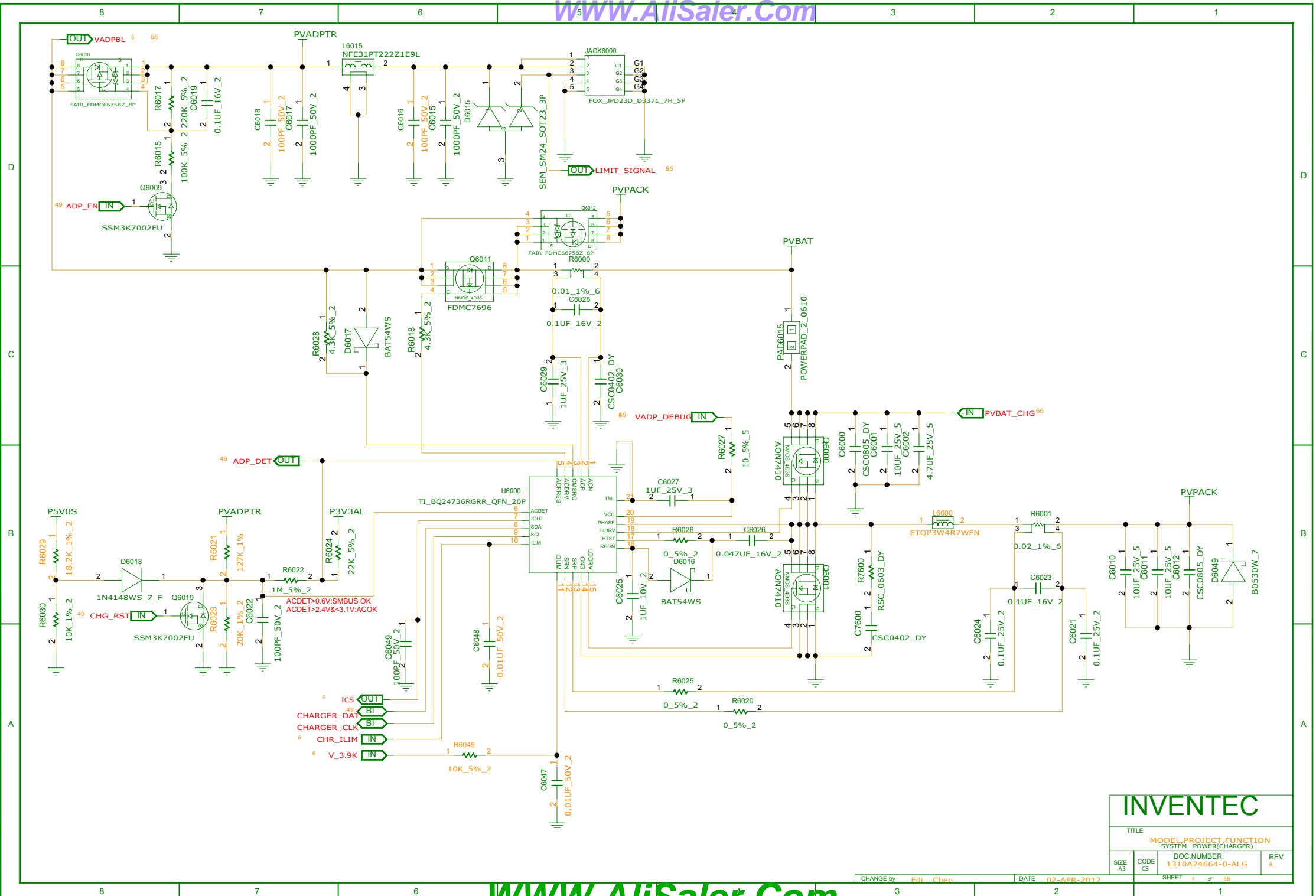
# CALVIN UMA Block Diagram



Inventec

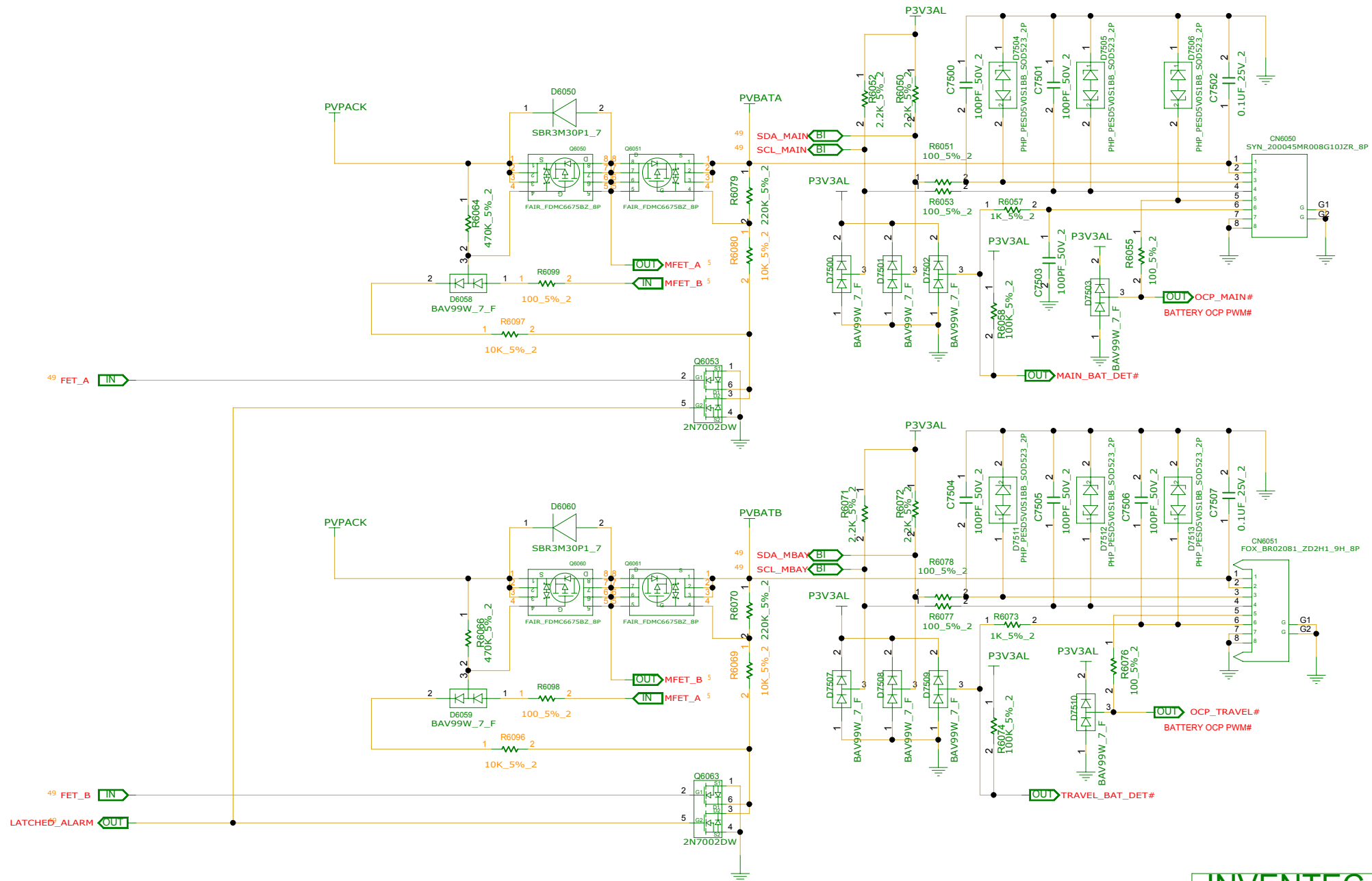
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MODEL PROJECT FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A



INVENTEC

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

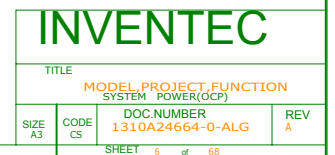


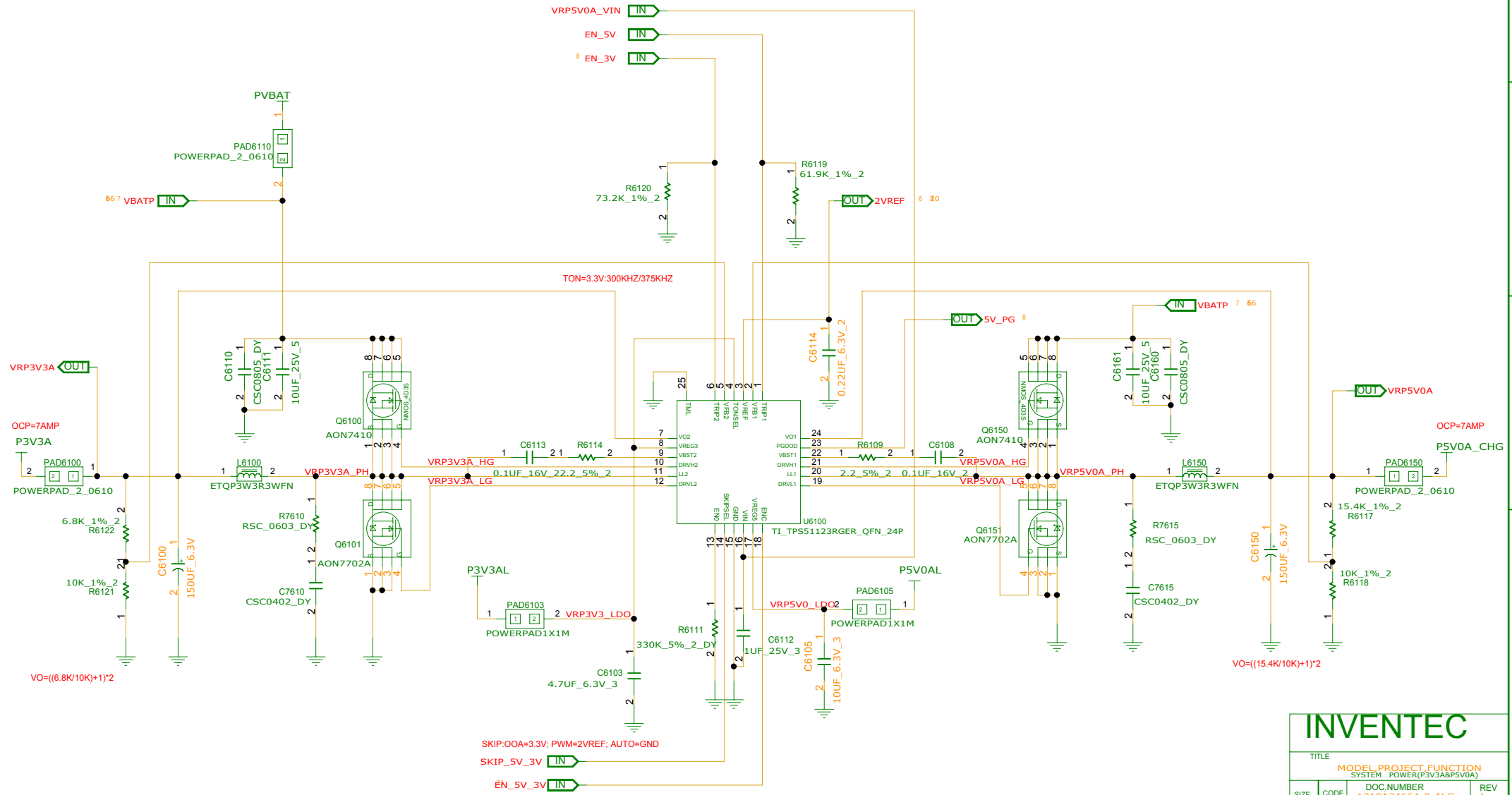
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DOC NUMBER 1310A24664-0-ALG			
SIZE A3	CODE CS	REV A	

CHANGE by Etl Chen DATE 02-APR-2012

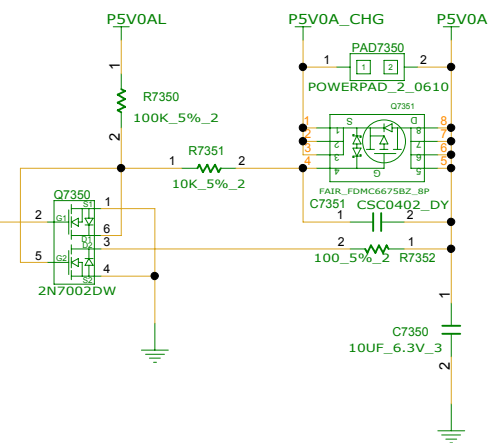
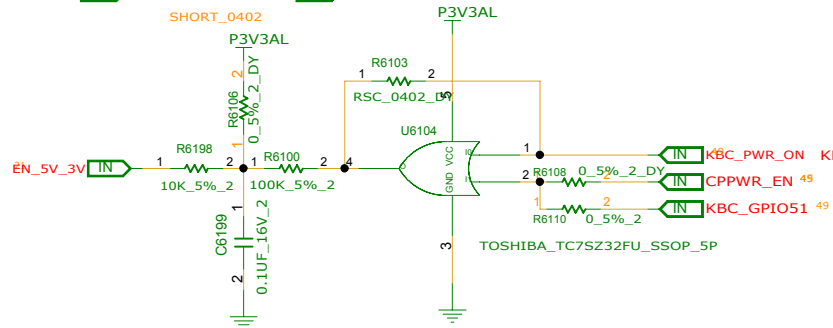
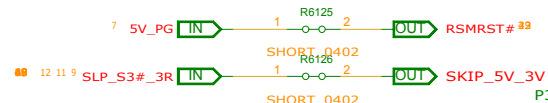
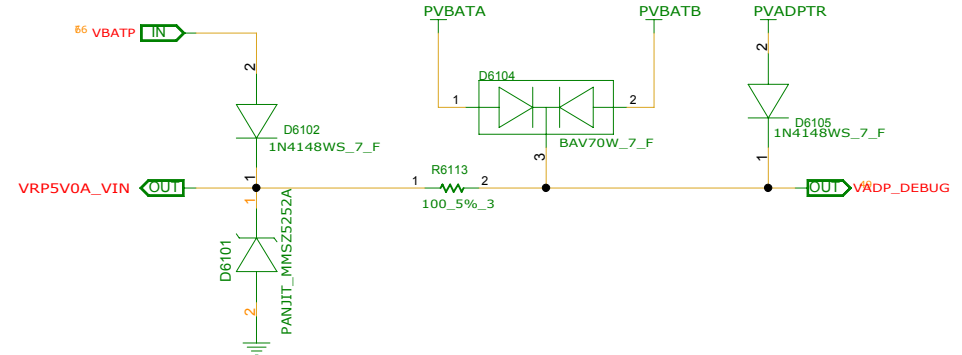
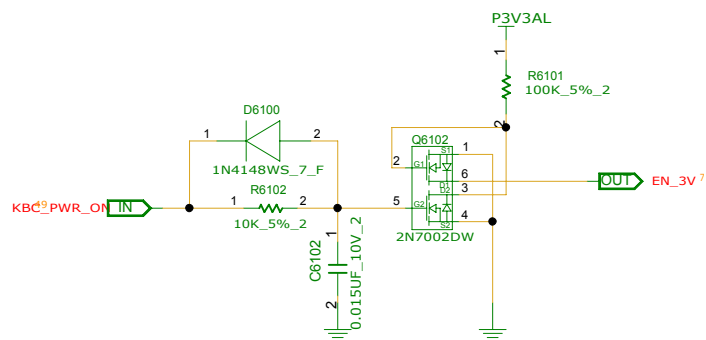
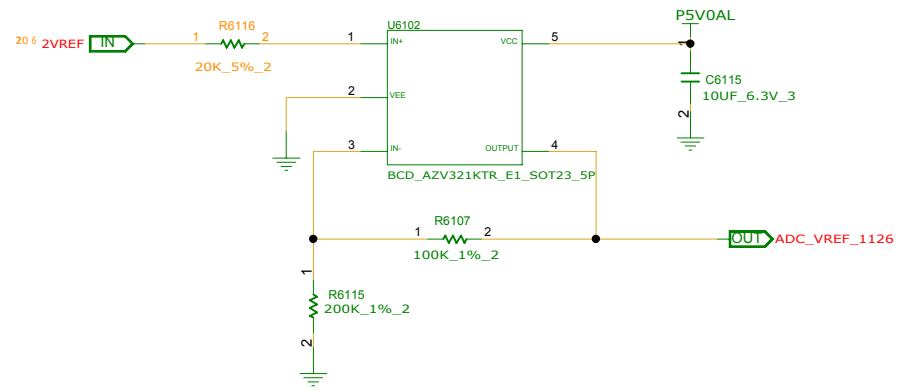
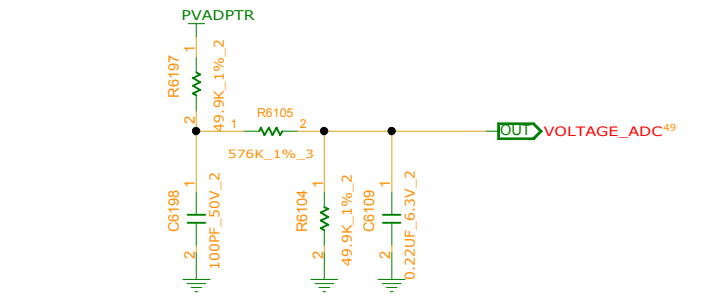
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INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(P3V3A&P5V0A)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 7 of 68			

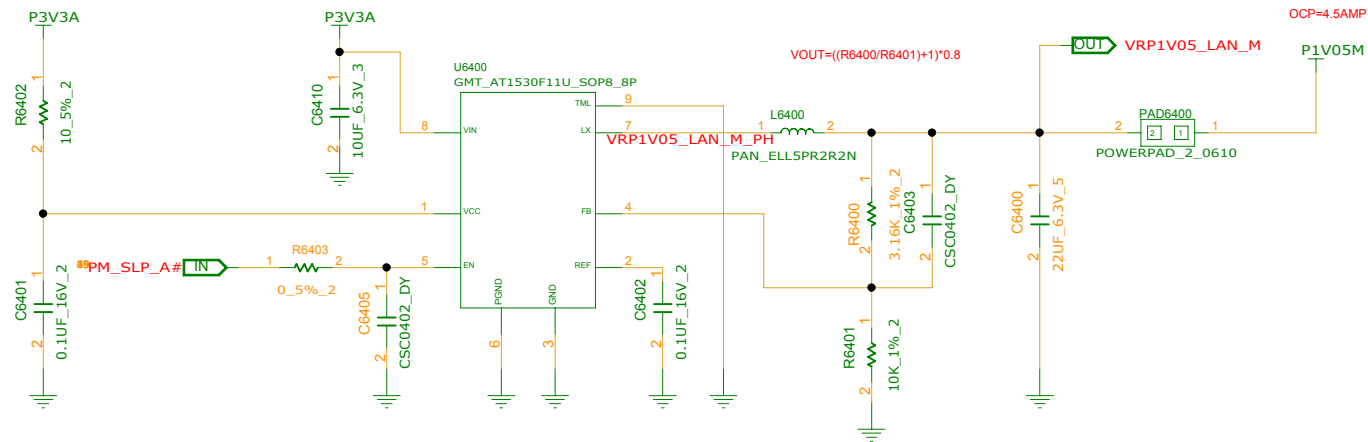


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MODEL PROJECT FUNCTION			
P3V3A&P5V0A_CHG_PORT			
DOC NUMBER			
1310A24664-0-ALG			
SIZE	CODE	REV	
A3	CS	A	





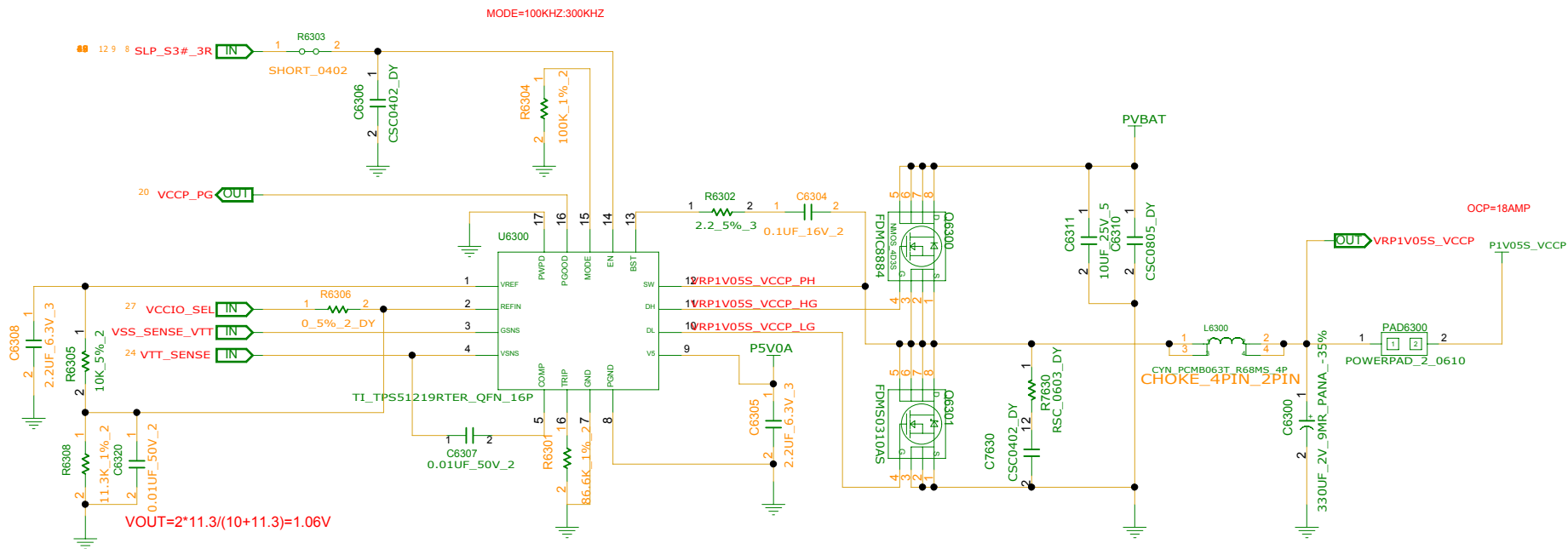


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MODEL PROJECT FUNCTION SYSTEM POWER(P1V05_LAN_M)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A

CHANGE by Edi Chen DATE 02-APR-2012

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INVENTEC

TITLE

MODEL PROJECT FUNCTION

SYSTEM POWER(P1V05S\_VCCP)

DOC NUMBER

1310A24664-0-ALG

REV

A

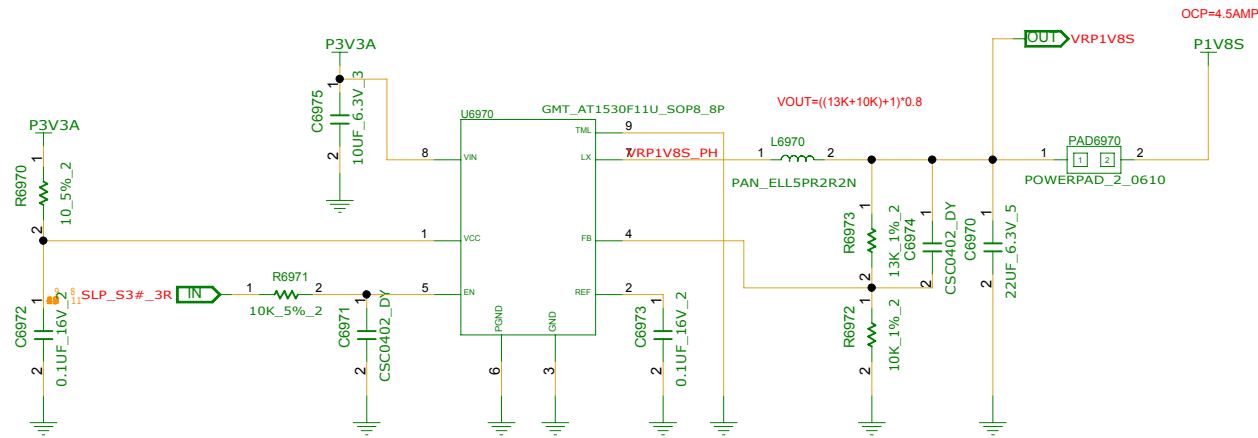
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CHANGE by

Edi Chen

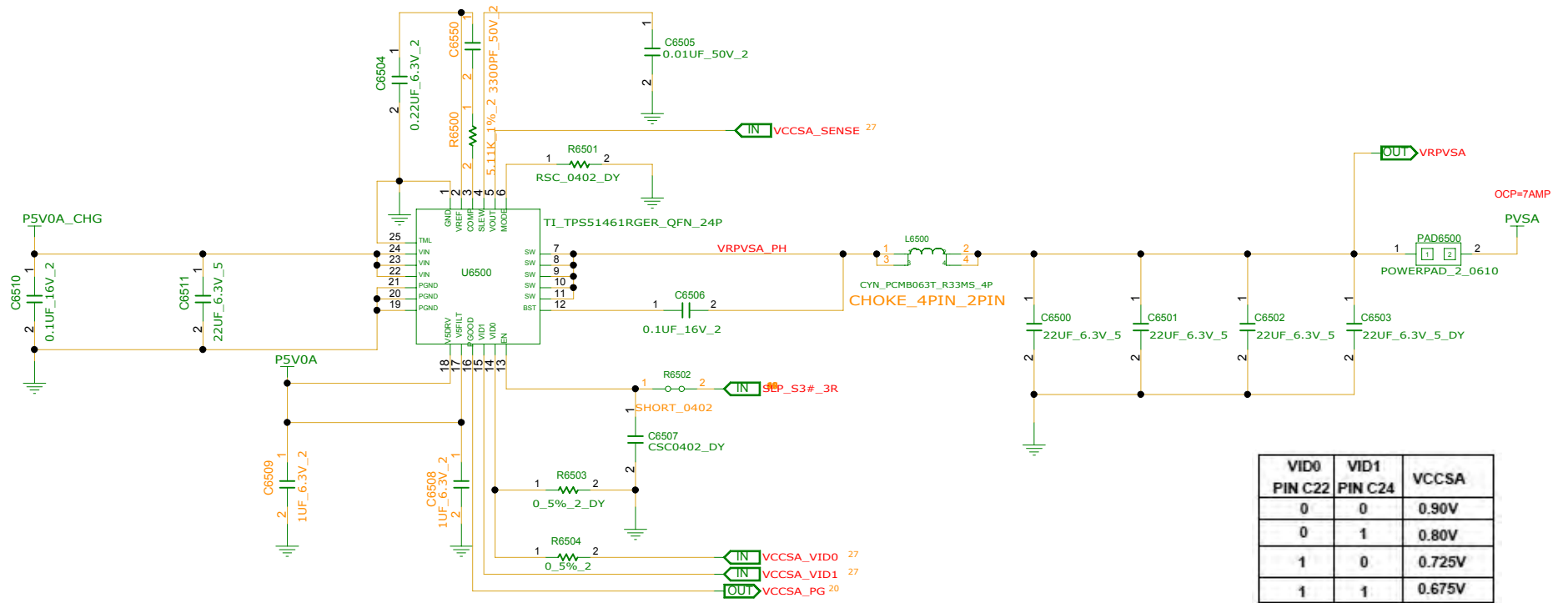
DATE

02-APR-2012



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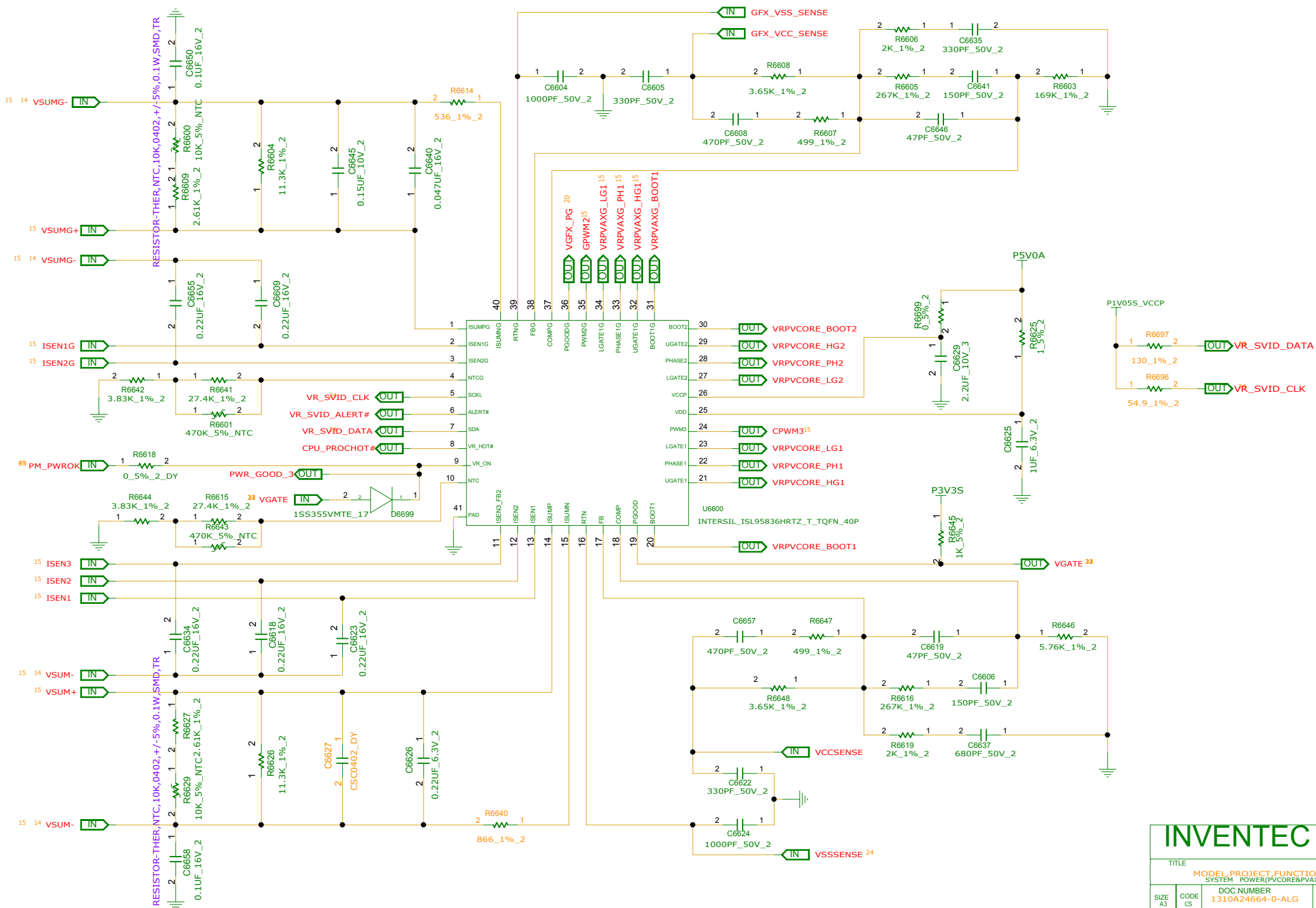
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MODEL PROJECT FUNCTION  
SYSTEM POWER(PVSA)

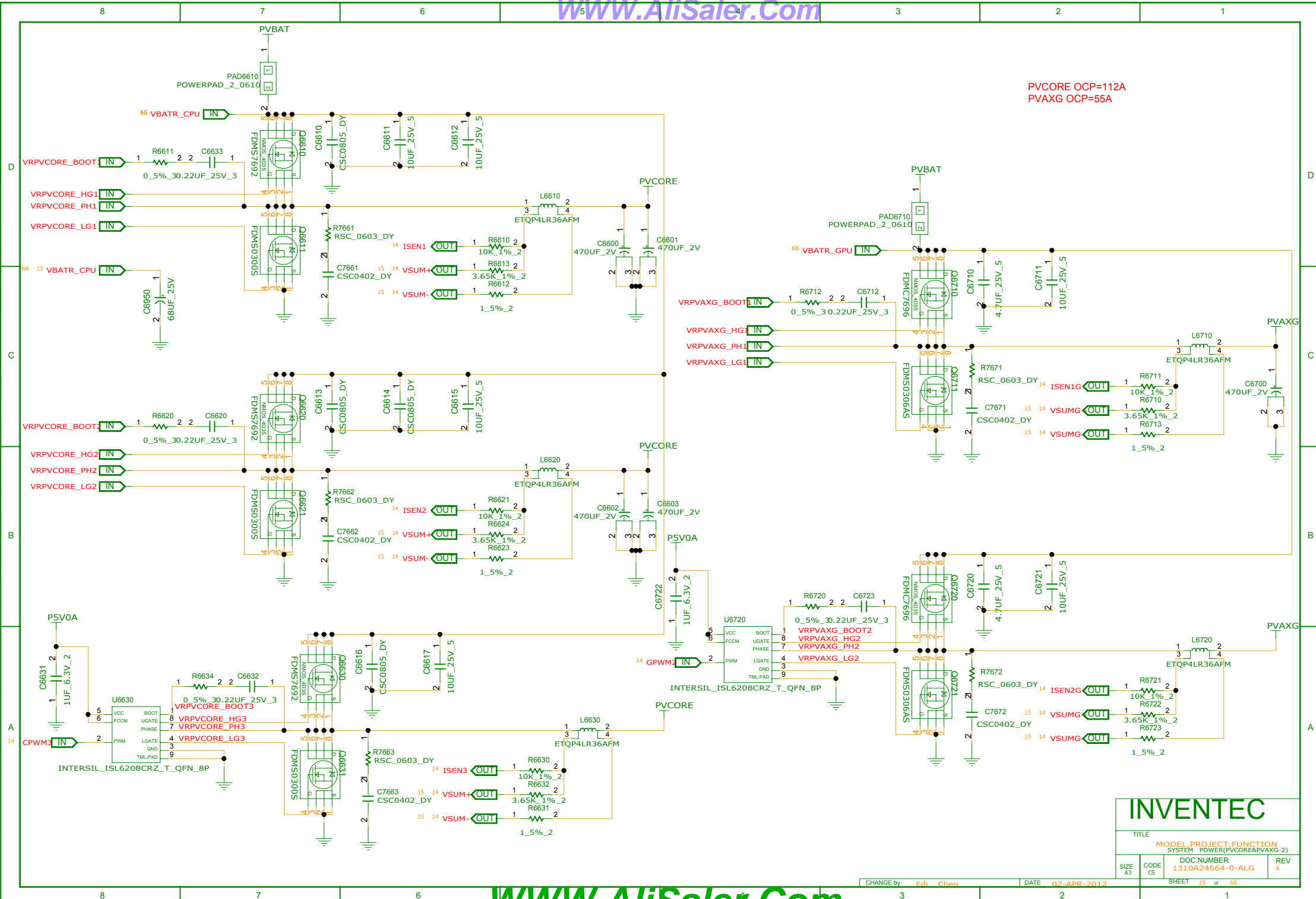
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REV  
A

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EMPTY

INVENTEC

TITLE			
MODEL PROJECT FUNCTION PVCORE_DGPU (SPARE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 16 of 68			

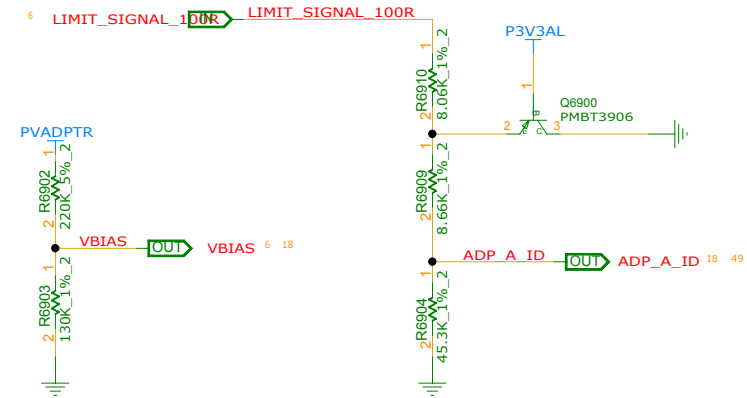


EMPTY

INVENTEC

TITLE			
MODEL PROJECT FUNCTION P1V35S_DGPU (SPARE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 17 of 68			

REFERENCE NUMBER : 6900~6999



INVENTEC

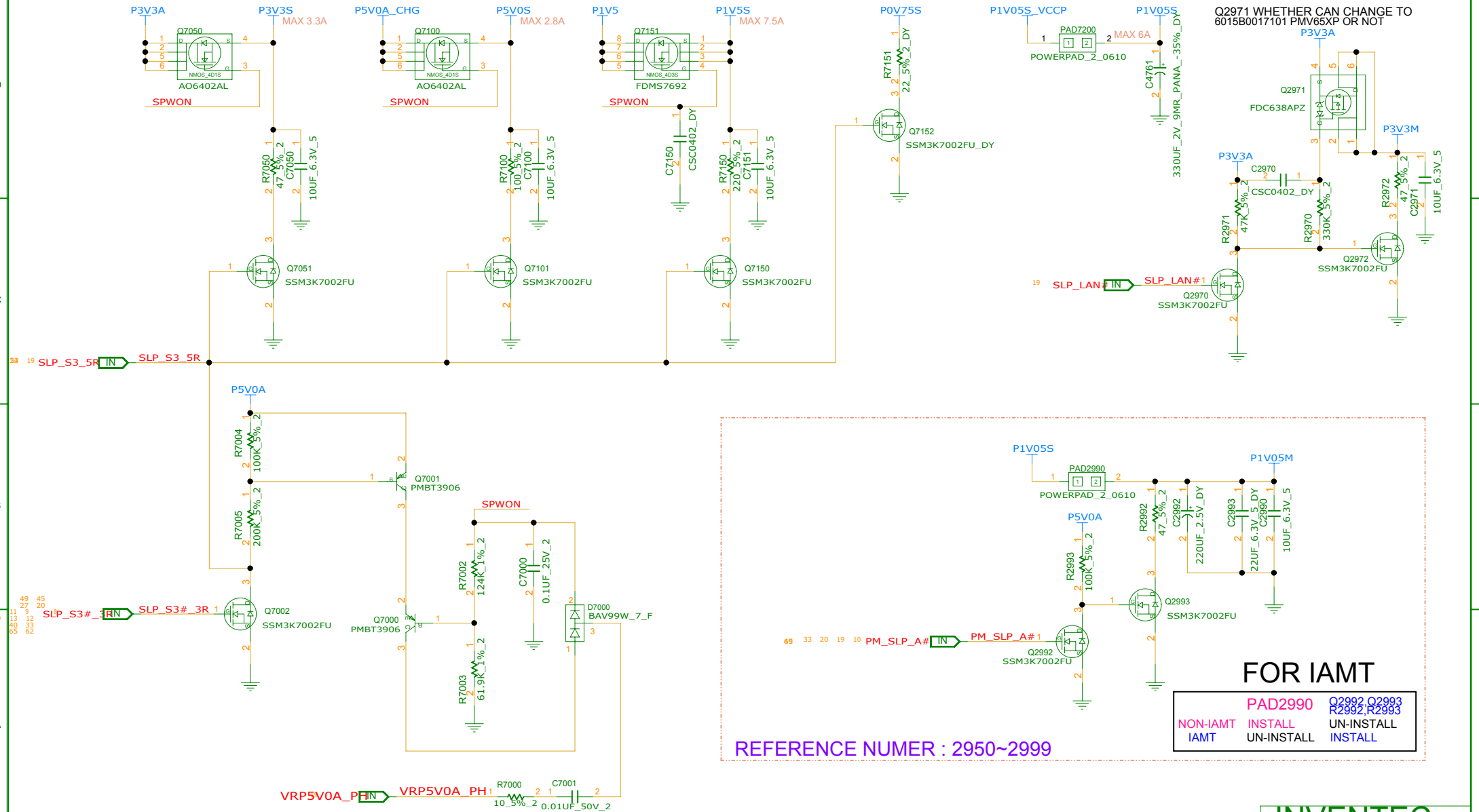
TITLE  
MODEL PROJECT,FUNCTION  
HP\_OCP

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

CHANGE by Edi Chen DATE 02-APR-2012

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REFERENCE NUMER : 7000~7350



Q2971 WHETHER CAN CHANGE TO 6015B0017101 PMV65XP OR NOT

REFERENCE NUMER : 2950~2999

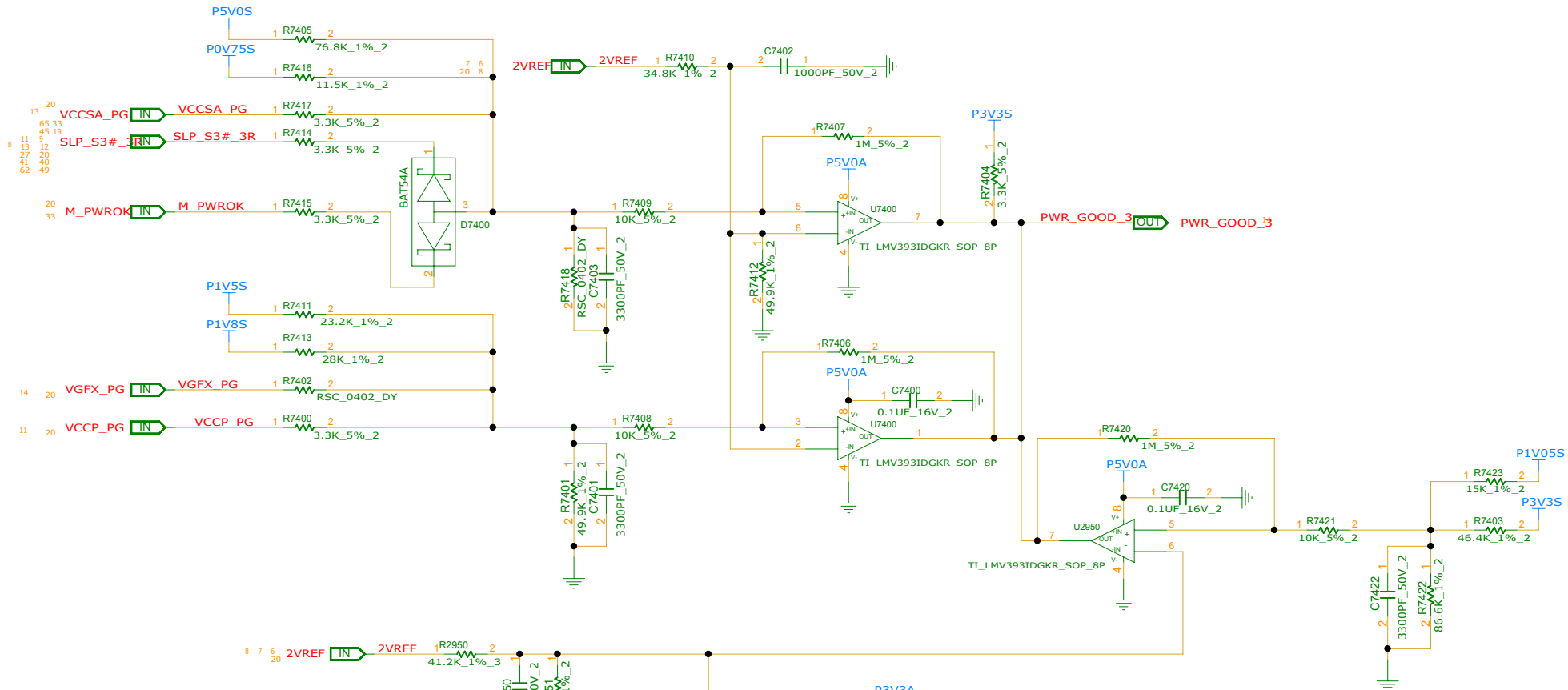
FOR IAMT

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

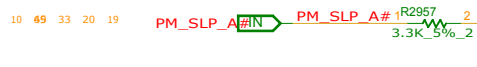
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MODEL PROJECT,FUNCTION			
POWER(SLEEP)			
DOC NUMBER			
1310A24664-0-ALG			
SIZE	CODE	REV	
A3	CS	A	

REFERENCE NUMER : 7400~7450



FOR IAMT

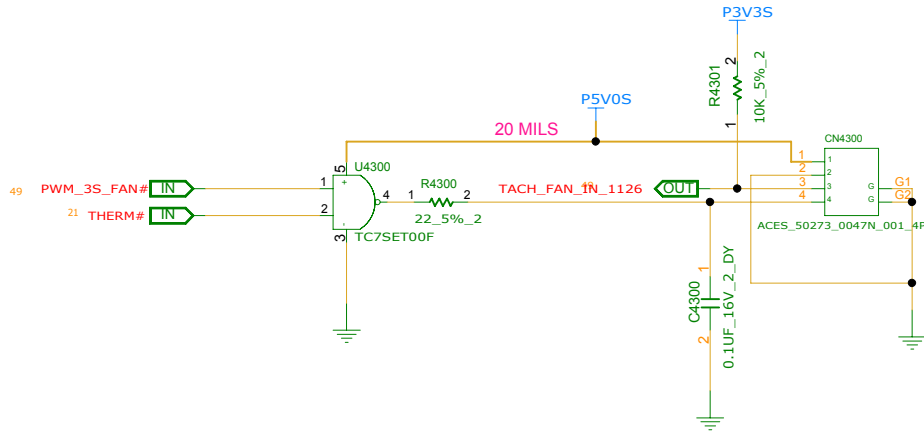


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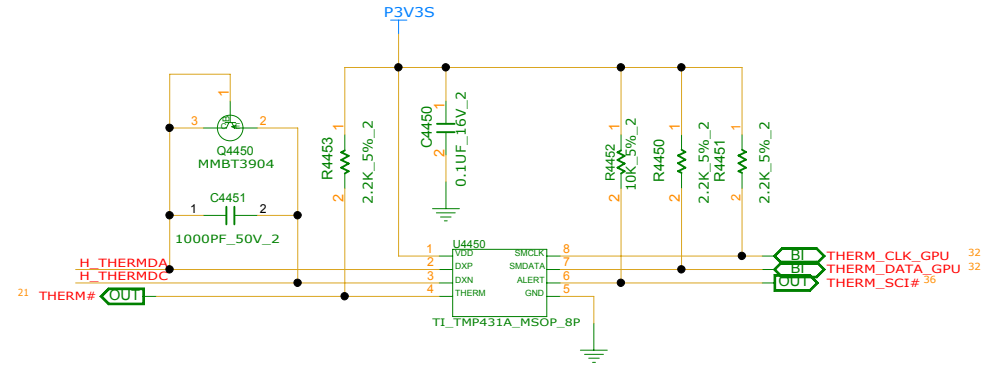
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MODEL PROJECT FUNCTION POWER (SEQUENCE)			
DOC NUMBER 1310A24664-0-ALG			
SIZE A3	CODE CS	REV A	

REFERENCE NUMBER:4400~4349



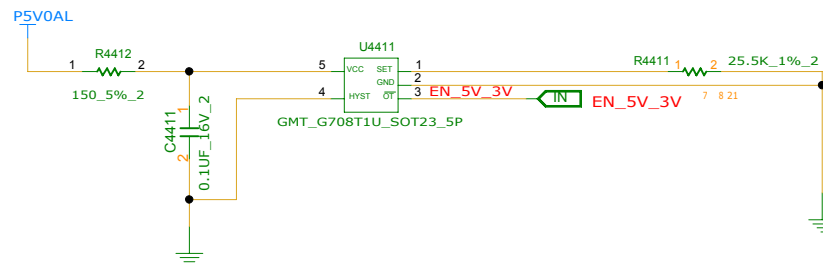
REFERENCE NUMBER:4450~4499

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.

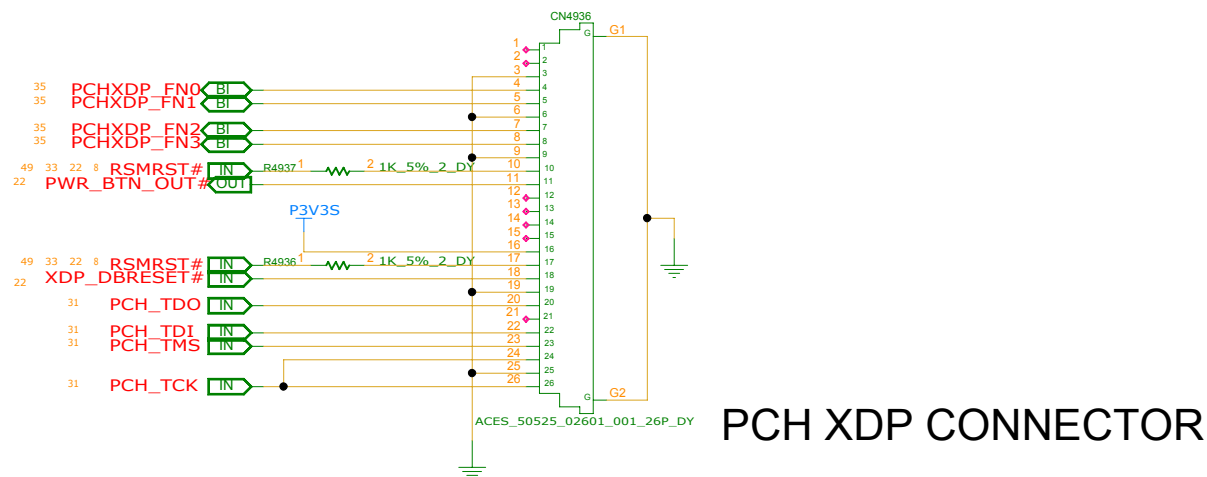
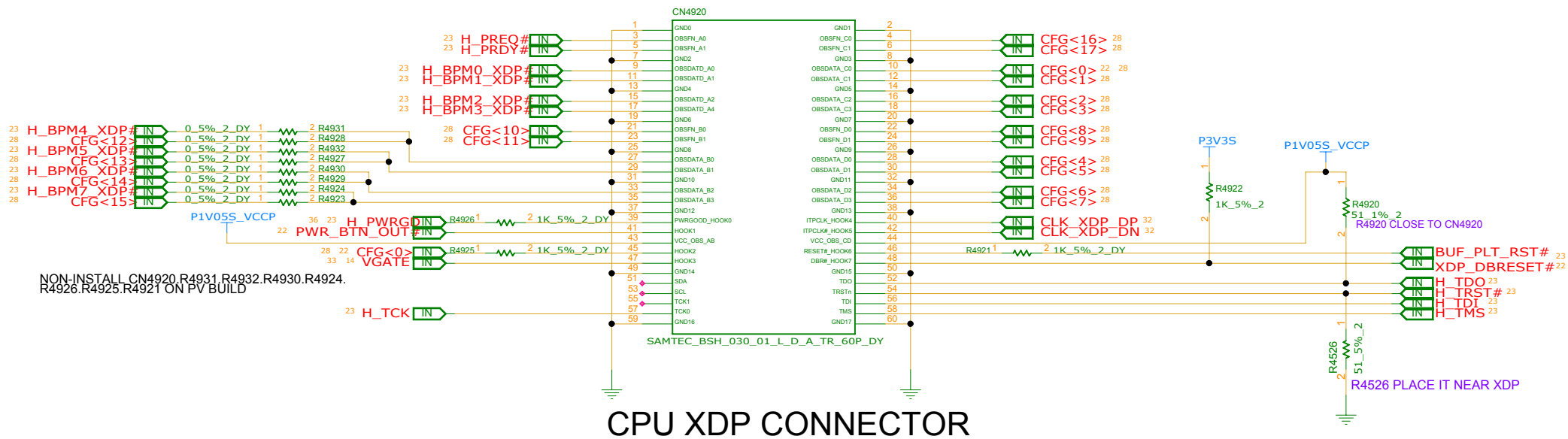
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INVENTEC

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

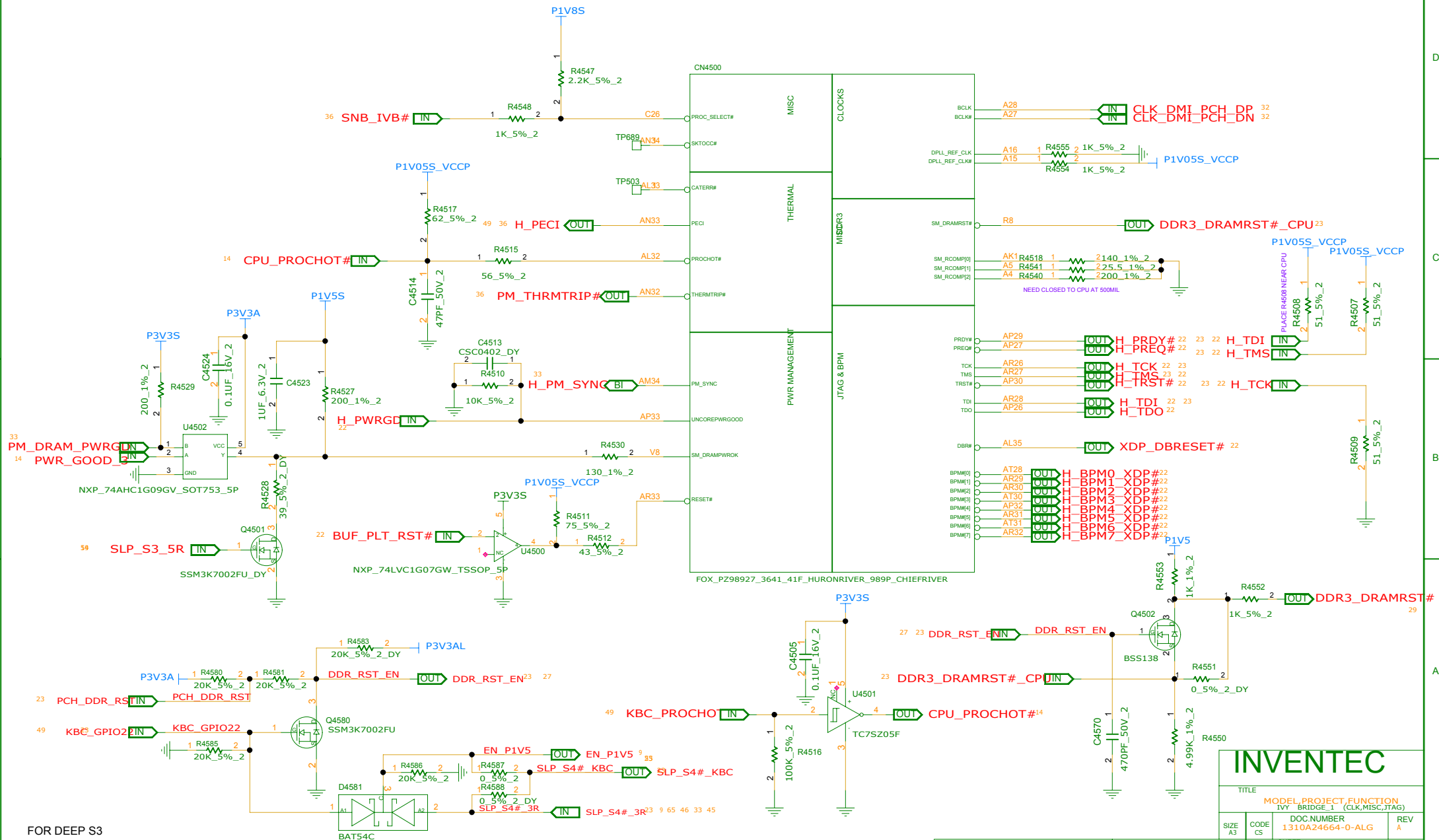
CHANGE by Etl Chen DATE 02-APR-2012

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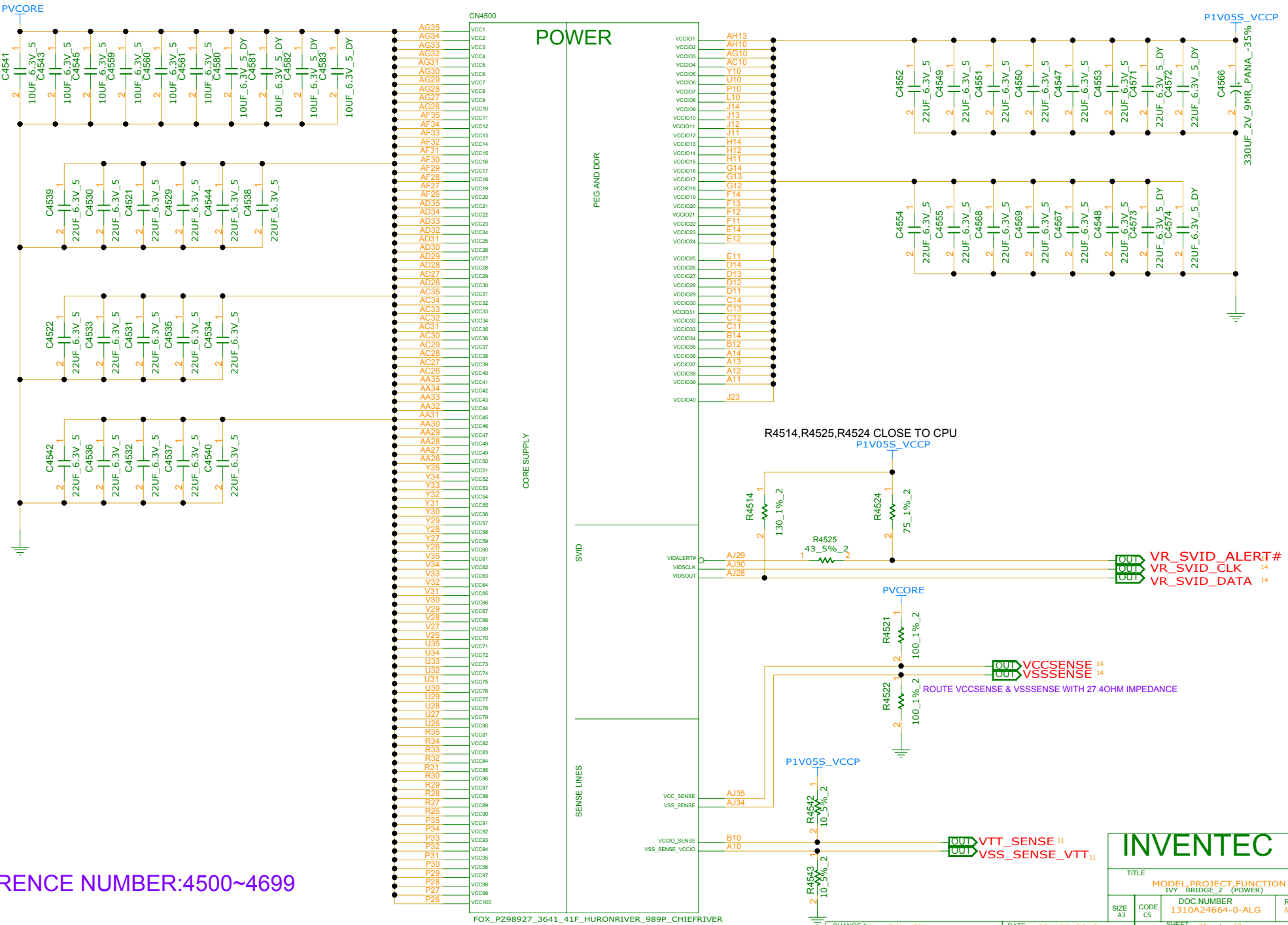
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TITLE			
MODEL PROJECT,FUNCTION			
XDP CONN			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 22 of 68			

REFERENCE NUMBER:4500~4699



INVENTEC				
TITLE				
MODEL	PROJECT	FUNCTION	IVY	BRIDGE-1 (CLK,MISC,JTAG)
SIZE	A3	CODE	CS	REV
DOC NUMBER	1310A24664-0-ALG	REV	A	
SHEET 23 of 68				

REFERENCE NUMBER:4500~4699





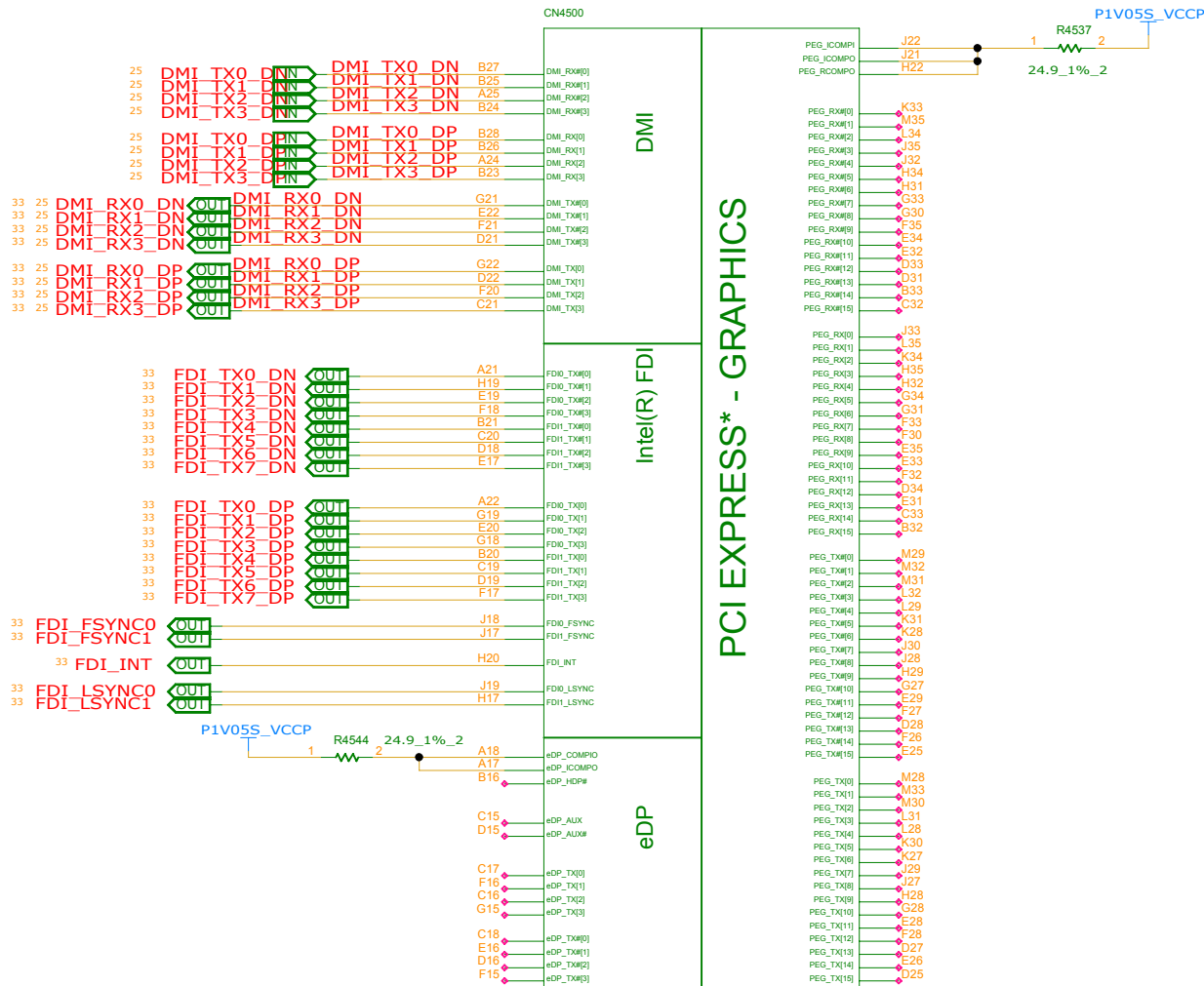
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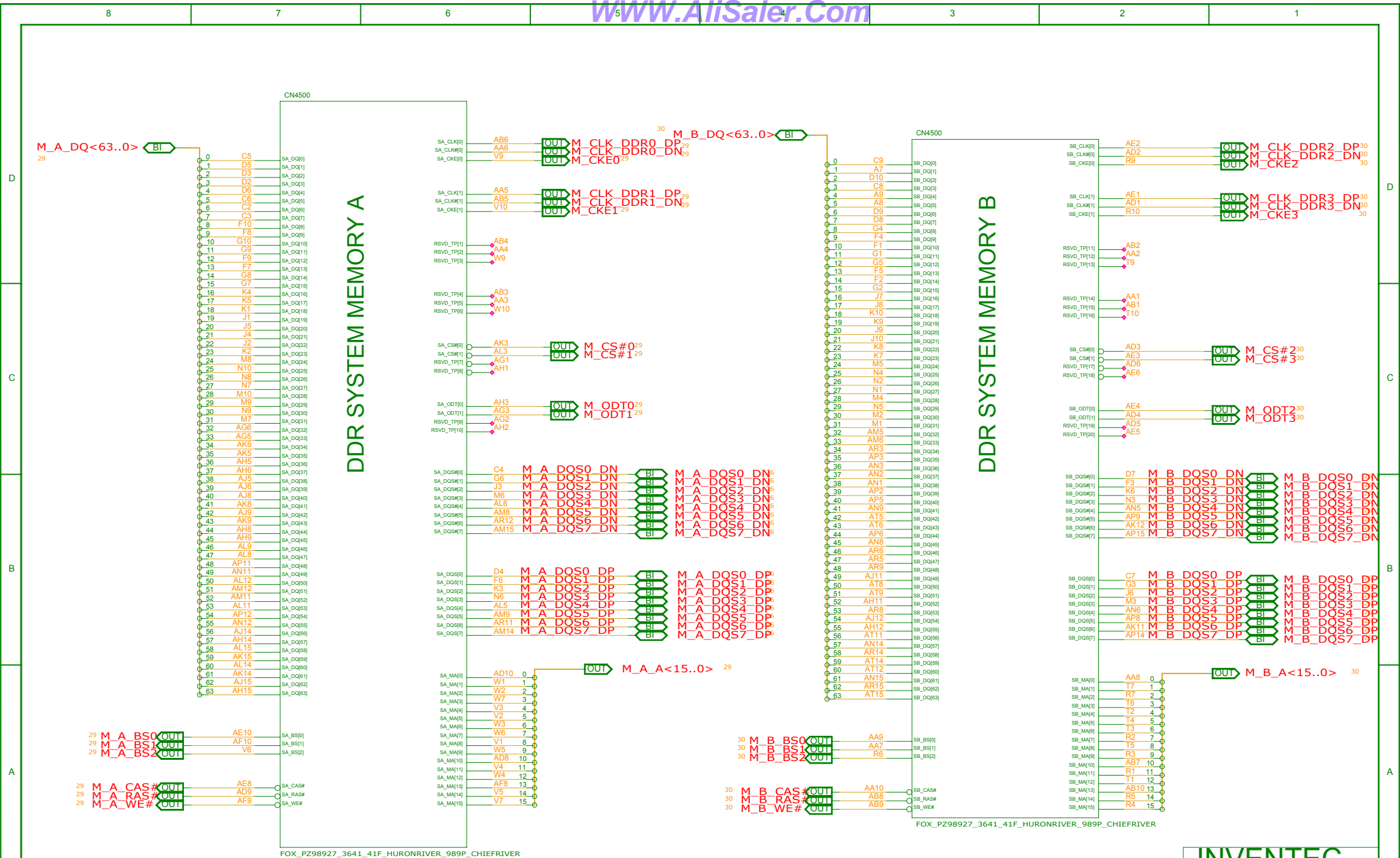
TITLE			
MODEL PROJECT FUNCTION			
IVY BRIDGE_3 (DMI,DP,PEG,FDI)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A

CHANGE by Fdi Chen DATE 02-APR-2012

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FOX\_PZ98927\_3641\_41F\_HURONRIVER\_989P\_CHIEFRIVER



REFERENCE NUMBER:4500~4699

INVENTEC

TITLE

MODEL PROJECT FUNCTION

1310A24664-0-ALG

REV A

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INVENTEC			
TITLE			
MODEL PROJECT FUNCTION IVY BRIDGE 5 (GRAPHICS POWER			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
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D

C

B

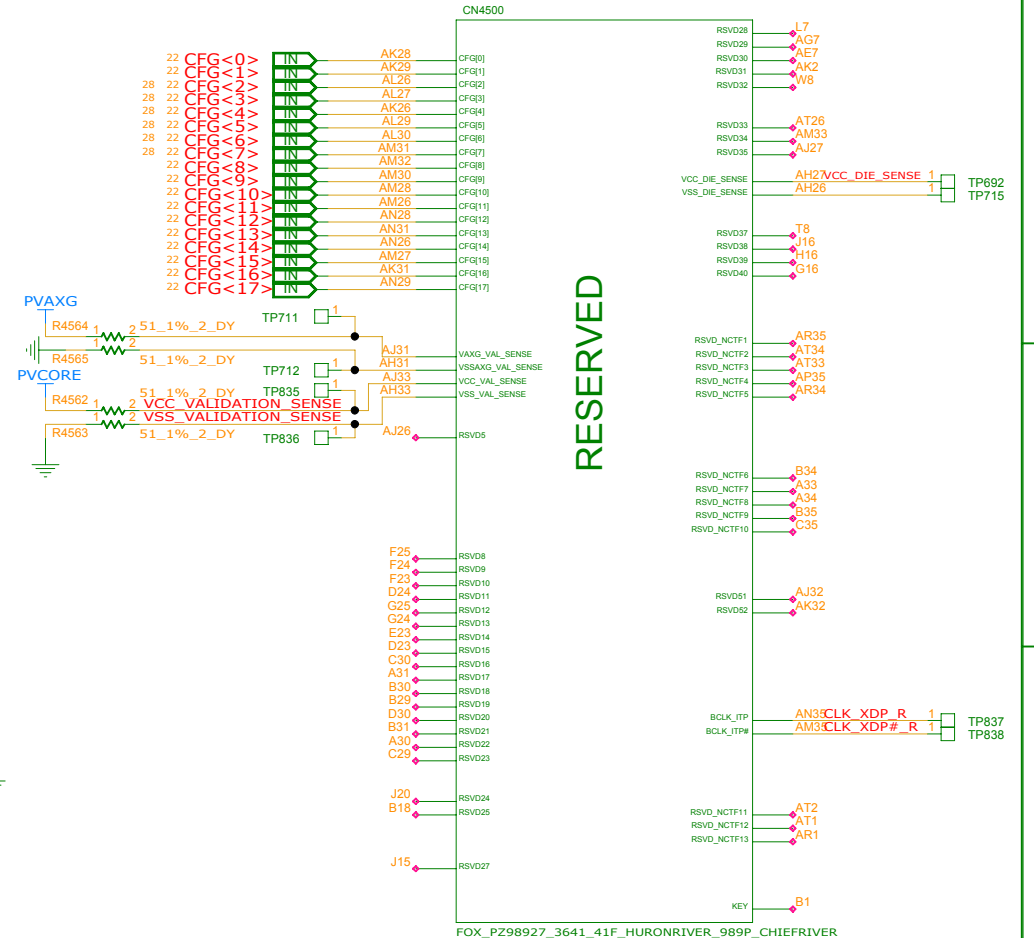
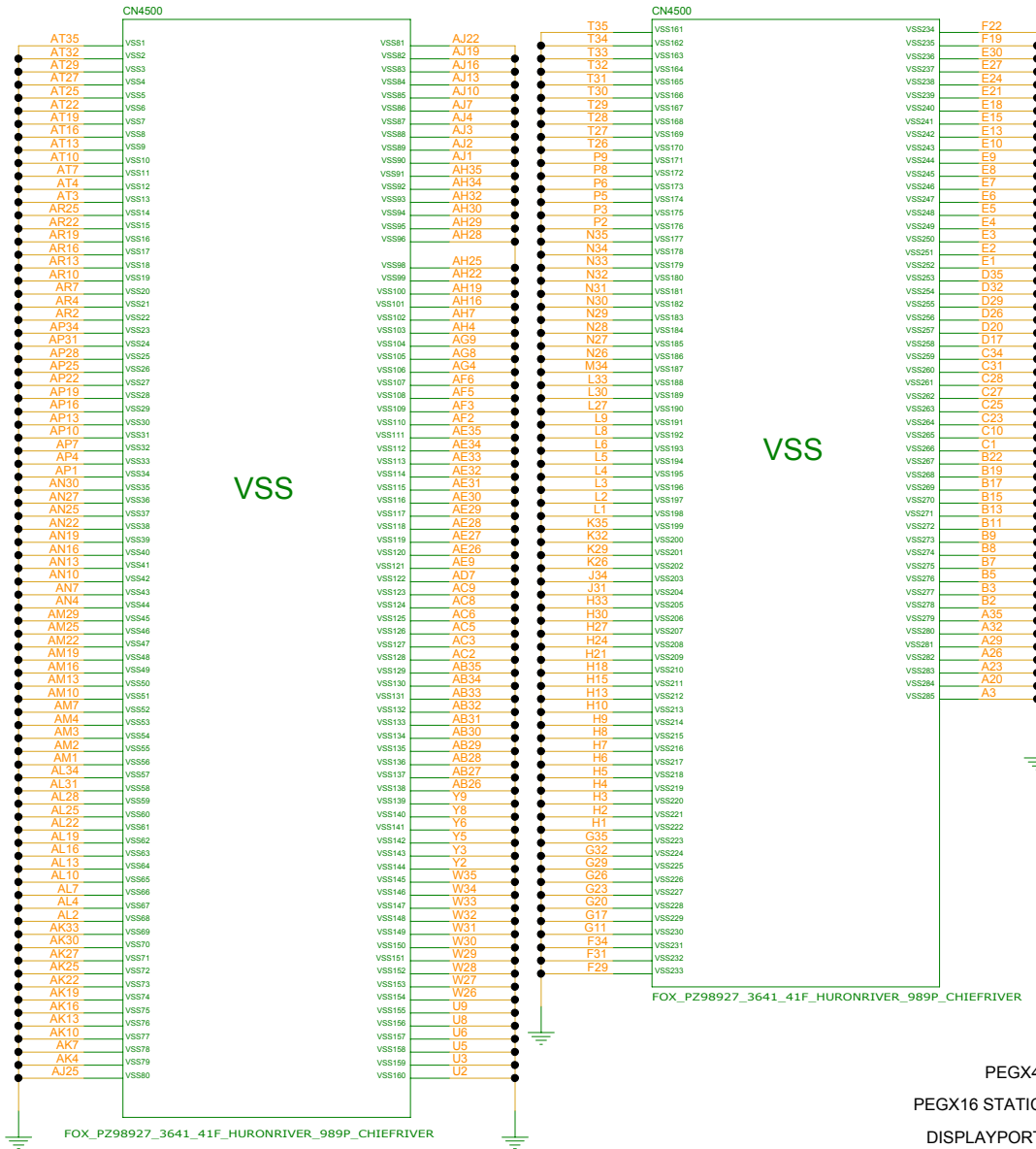
A

A

B

C

D



INVENTEC				
TITLE				
MODEL PROJECT FUNCTION				
I/VY BRIDGE.6 (GND,RESERVED)				
DOC NUMBER				
1310A24664-0-ALG				
REV				
A				
SIZE	CODE	SHEET		of 68
A3	CS	28		68

REFERENCE NUMBER:4500~4699

D

C

B

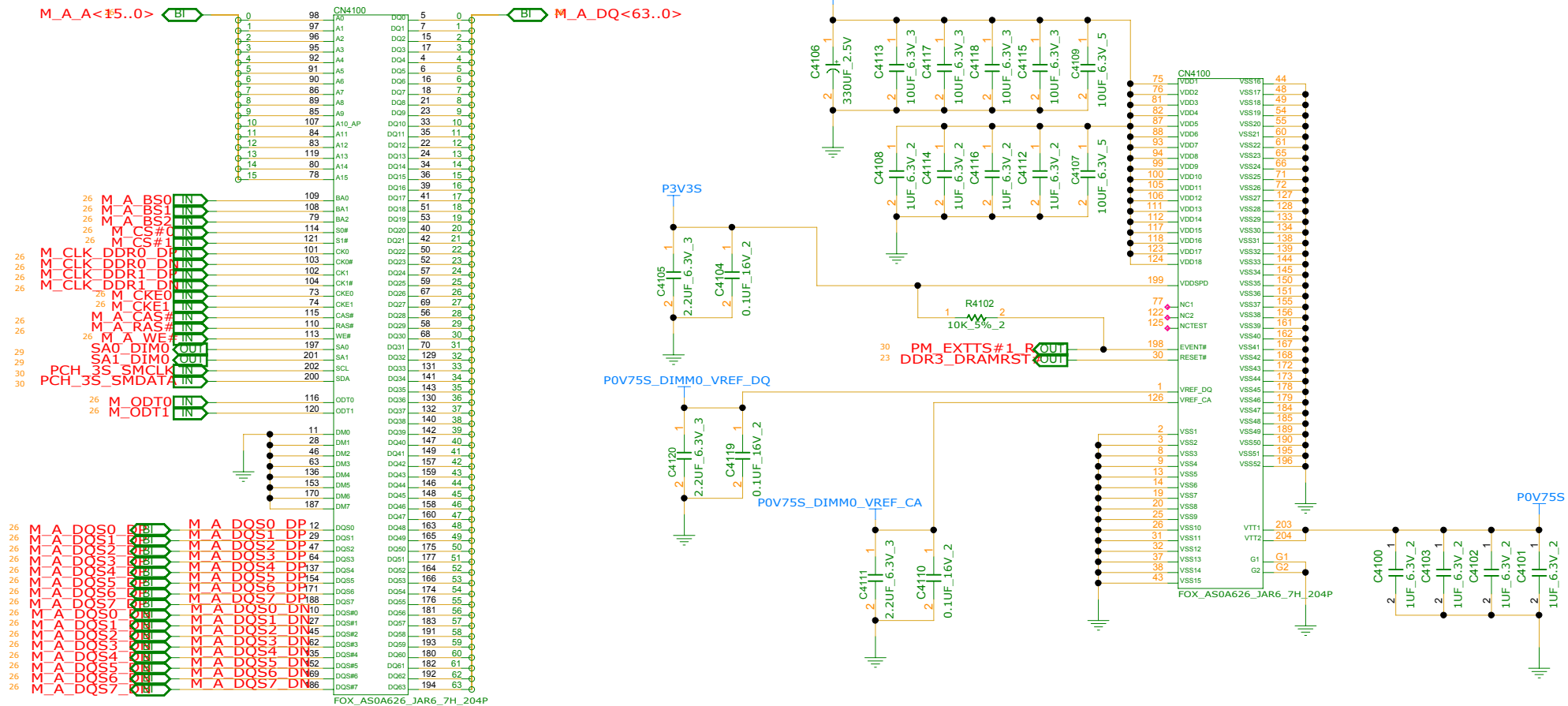
A

D

C

B

A



## 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

DOC NUMBER

1310A24664-0-ALG

REV

A

SIZE

A3

CODE

CS

SHEET

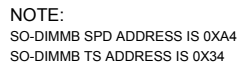
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CHANGE by

Edi Chen

DATE

02-APR-2012



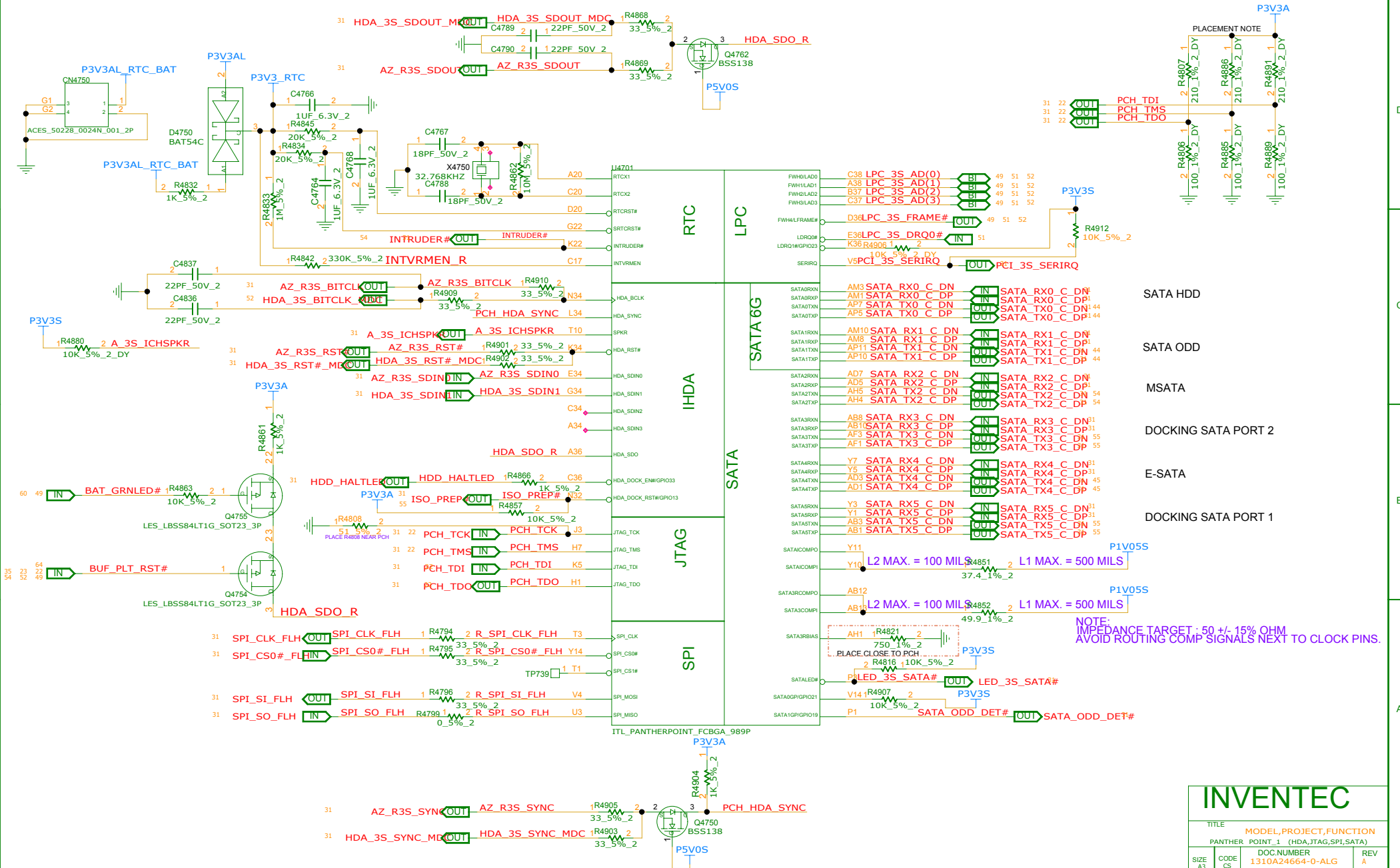
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MODEL,PROJECT,FUNCTION DDR3_SO-DIMM1			
SIZE A3	CODE CS	DOC.NUMBER 1310A24664-0-ALG	REV A
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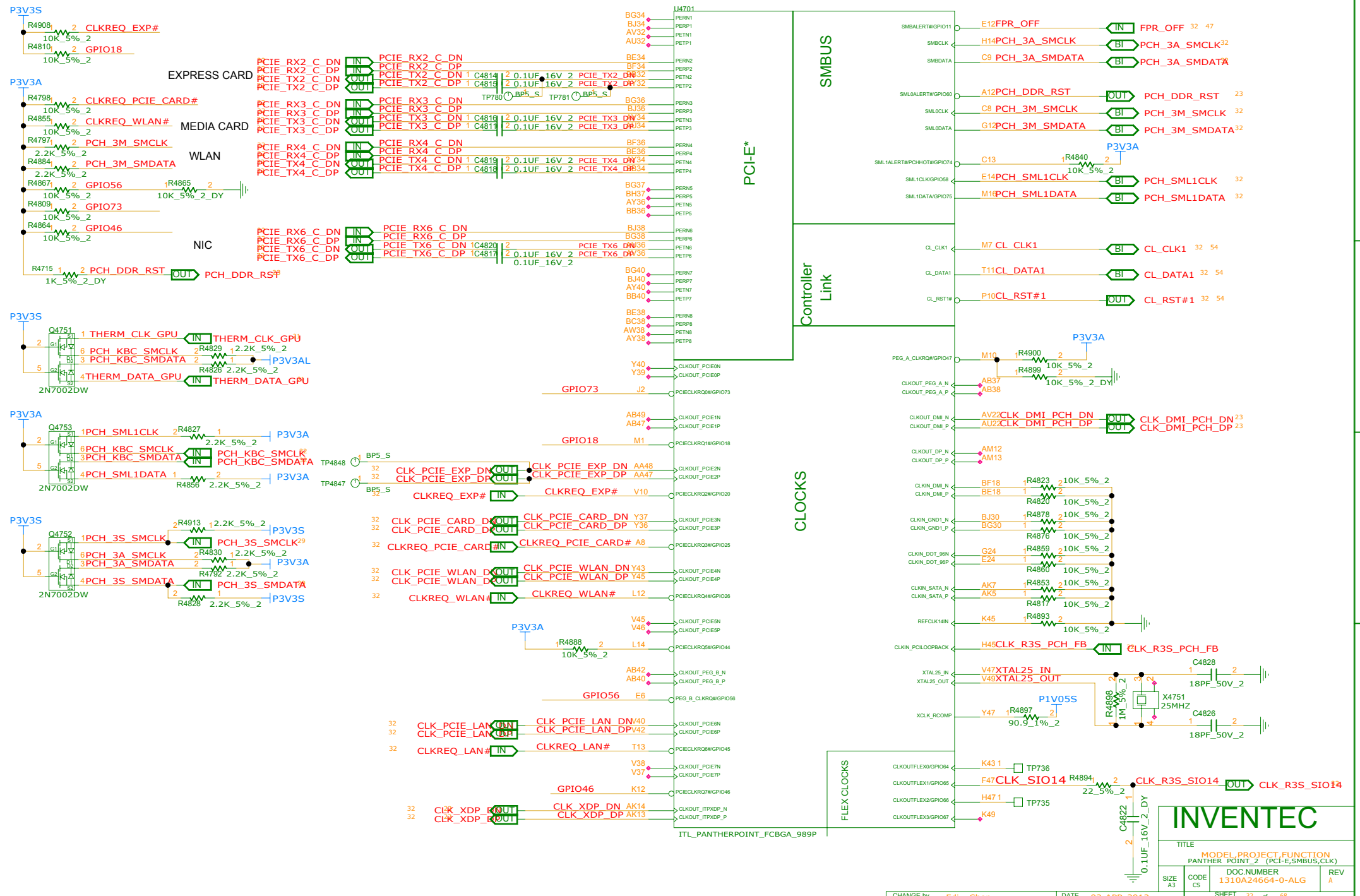
REFERENCE NUMER : 4700~4949

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 XDP



INVENTEC					
TITLE		MODEL, PROJECT, FUNCTION			
PANTHER		POINT_1 (HDA, JTAG, SPI, SATA)			
SIZE		DOC. NUMBER		REV	
A3		1310A24664-0-ALG		A	
CHANGE by		DATE		SHEET	
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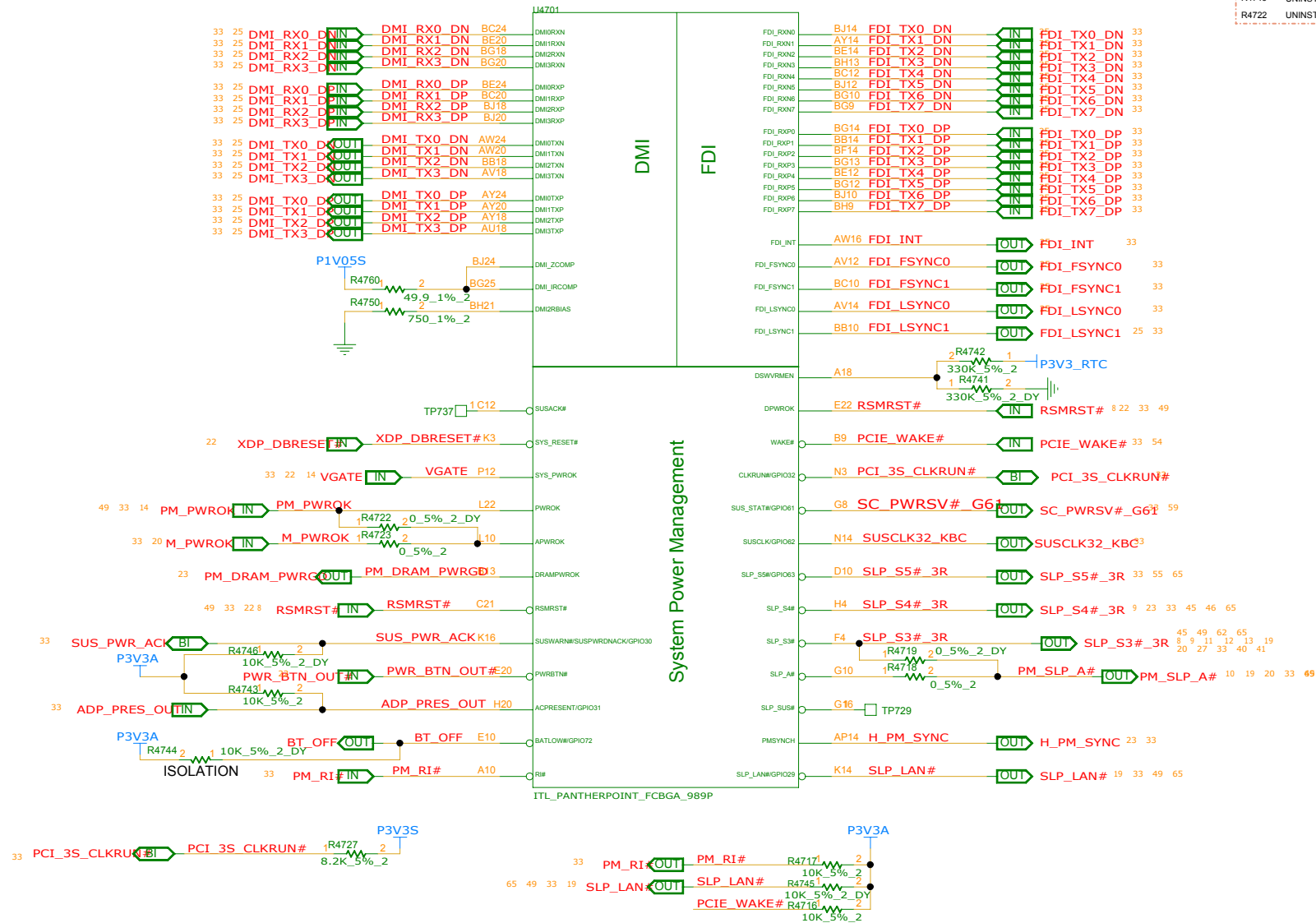


## REFERENCE NUMBER : 4700~4949

## 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)SIZE CODE  
A3 CSDOC NUMBER  
1310A24664-0-ALGREV  
A

CHANGE by Fdi Chen DATE 02-APR-2012

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REFERENCE NUMER : 4700~4949

D

C

B

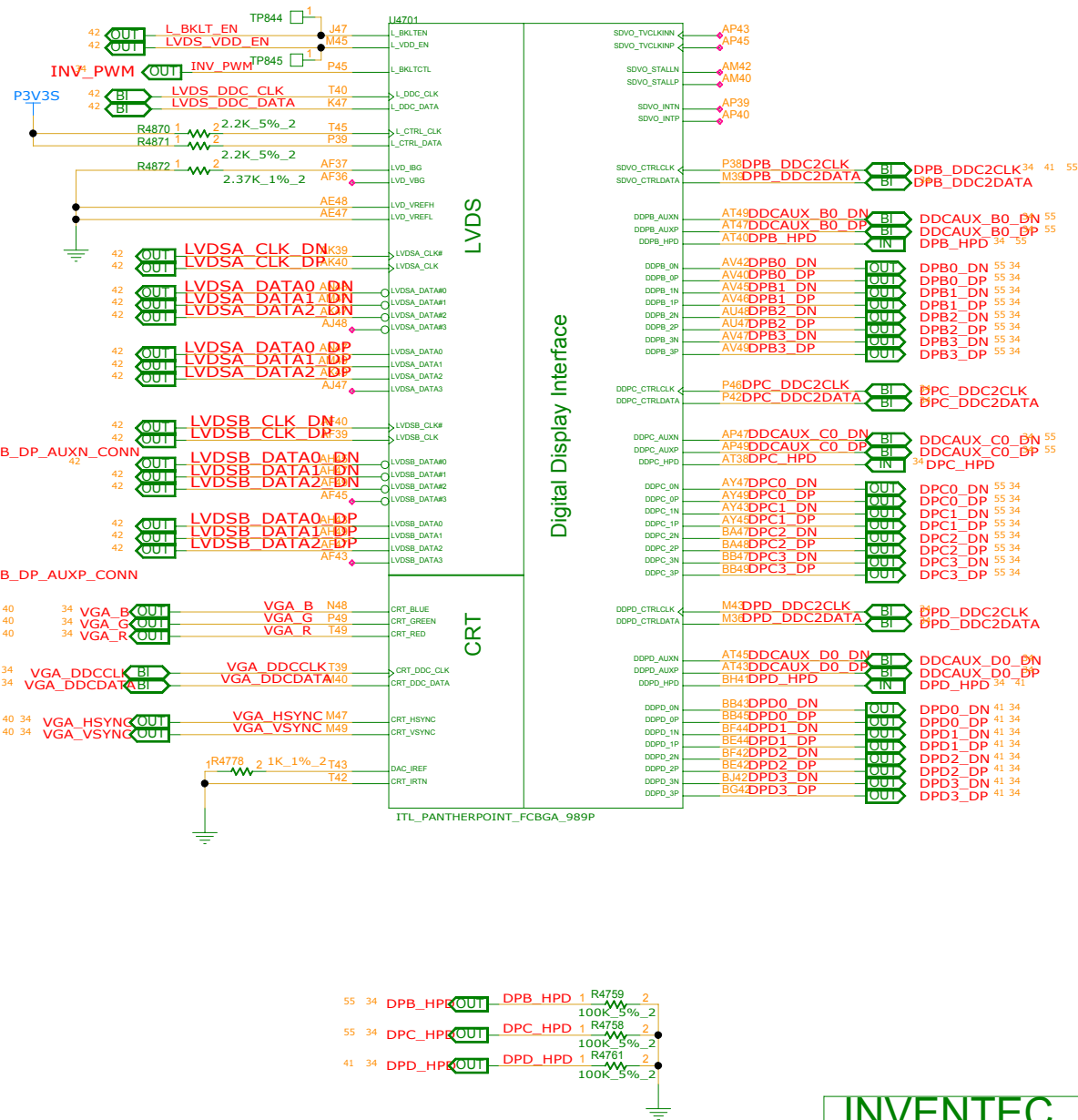
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A

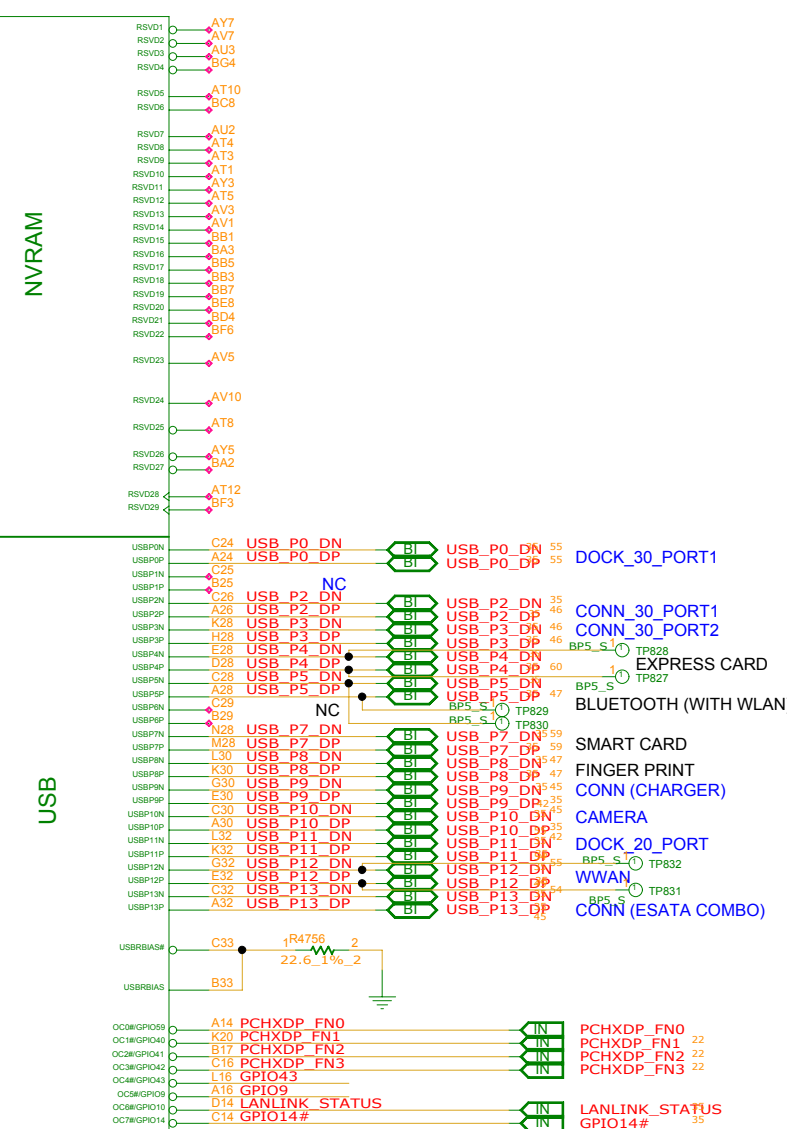
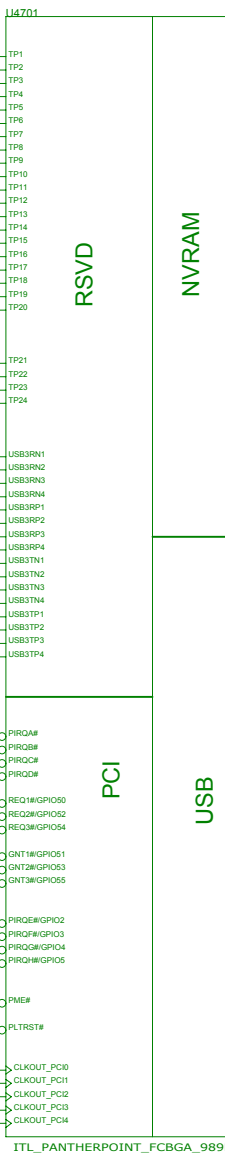
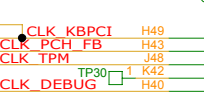
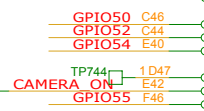
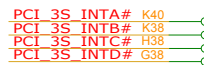
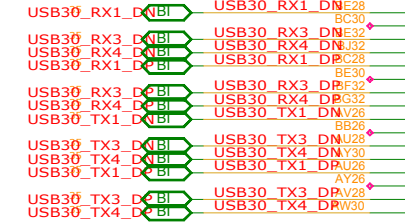
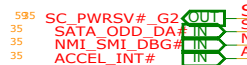
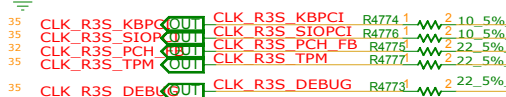
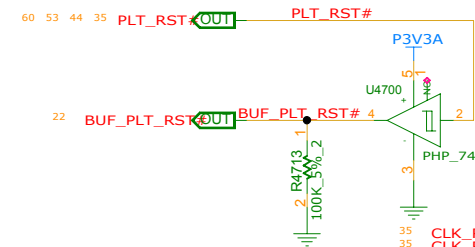
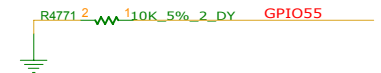
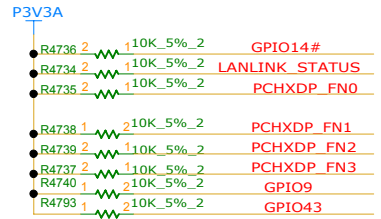
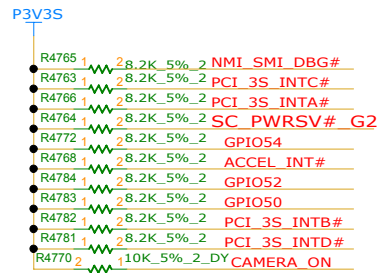


INVENTEC

TITLE			
MODEL PROJECT FUNCTION PANTHER POINT 4 (LVDS,DDI)			
DOC NUMBER 1310A24664-0-ALG		REV A	
SIZE A3	CODE CS	SHEET 34 of 68	

CHANGE by Eidi Chen DATE 02-APR-2012

REFERENCE NUMBER : 4700~4949



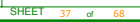
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
PANTHER POINT_5 (PCI,USB,NVRAM)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET		35 of 68	

A

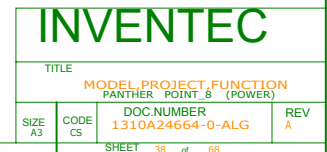


SHEET 36 of 68

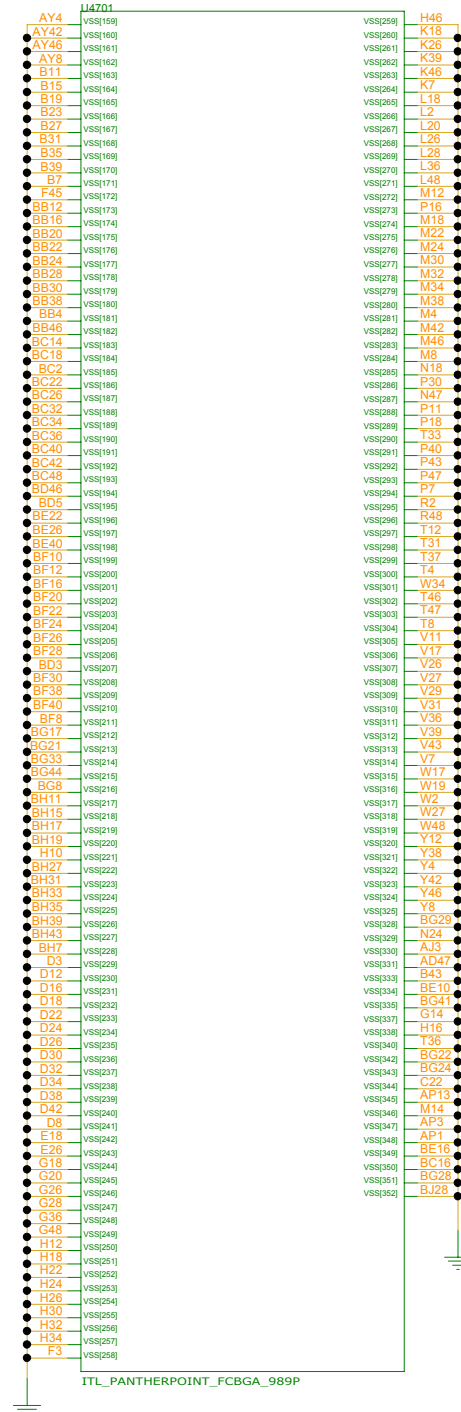
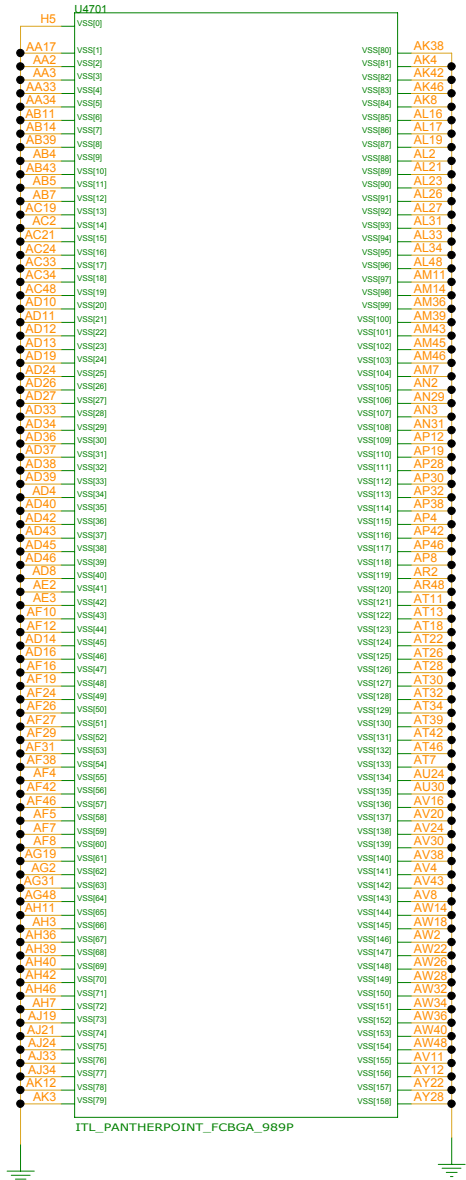
**WWW.AliSaler.Com**



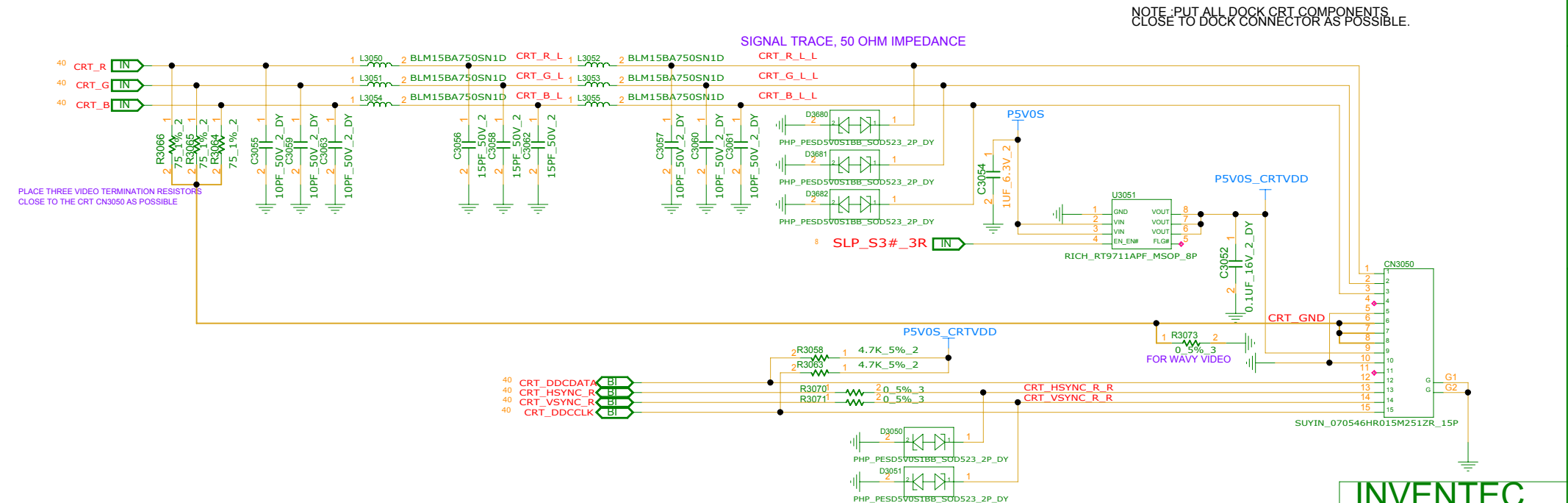
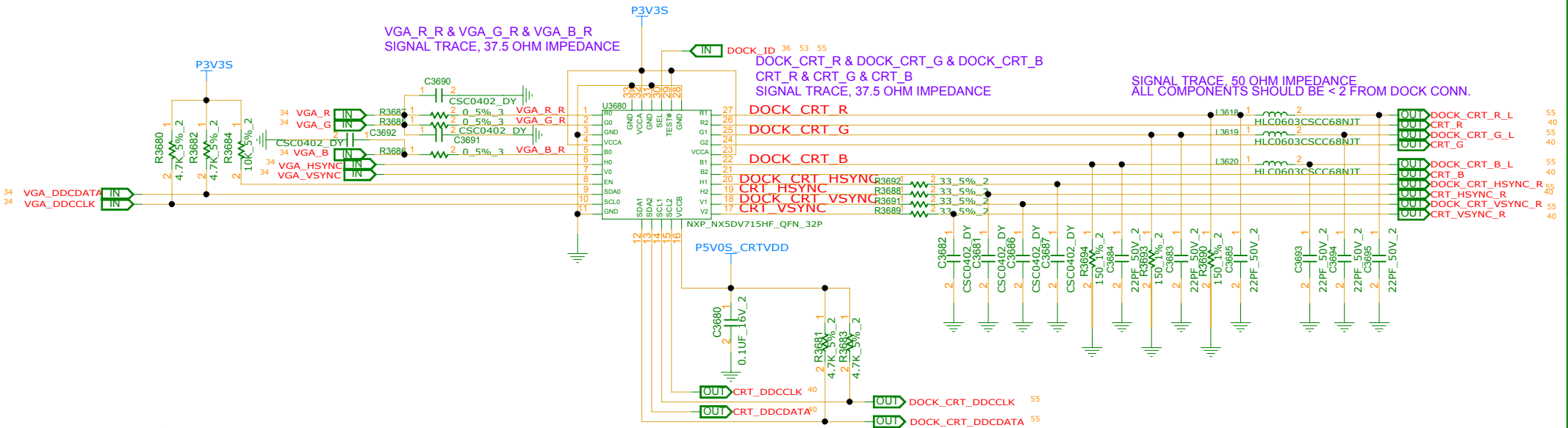
**WWW.AliSaler.Com**



REFERENCE NUMBER : 4700~4949



INVENTEC				
TITLE				
MODEL PROJECT FUNCTION				
PANTHER POINT 3 (GND)				
DOC NUMBER				
1310A24664-0-ALG				
REV				
A				
SIZE	CODE	DATE		SHEET
A3	CS	02-APR-2012		39 of 68



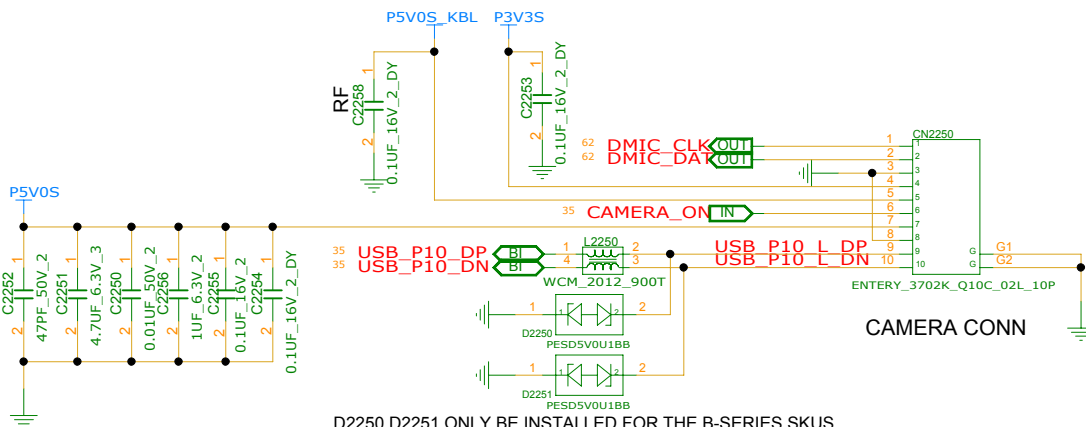
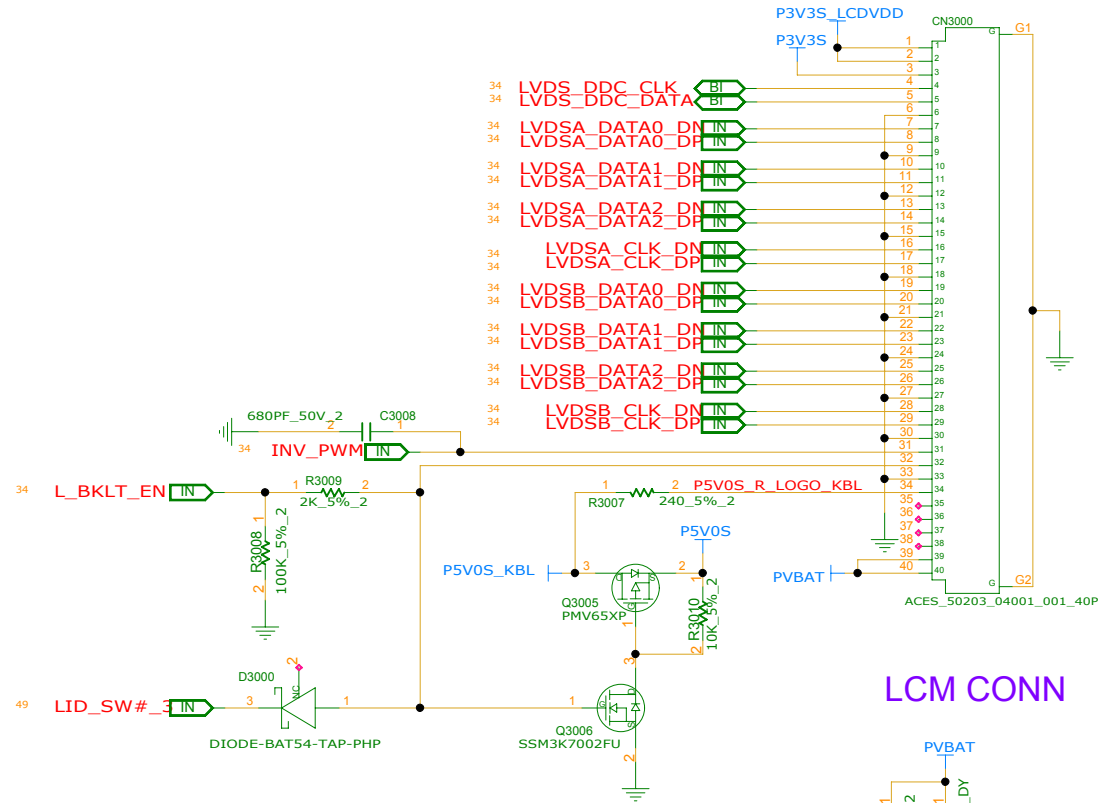
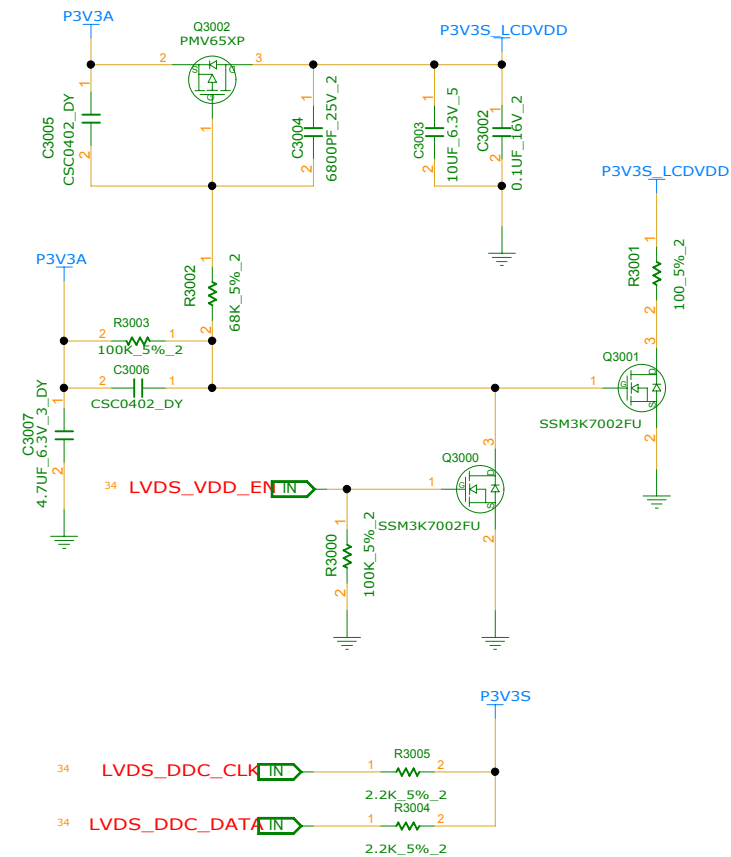
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
VGA SWITCH / CRT			
DOC NUMBER			
1310A24664-0-ALG			
REV			
A			
SIZE	CODE	SHEET	
A3	CS	40 of 68	



REFERENCE NUMBER:3300~3399

# INVENTEC

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



REFERENCE NUMBER:2250~2299

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

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

EMPTY

REFERENCE NUMBER:3400~3499

INVENTEC

TITLE MODEL PROJECT FUNCTION  
EDP TO LVDS (SPARE)

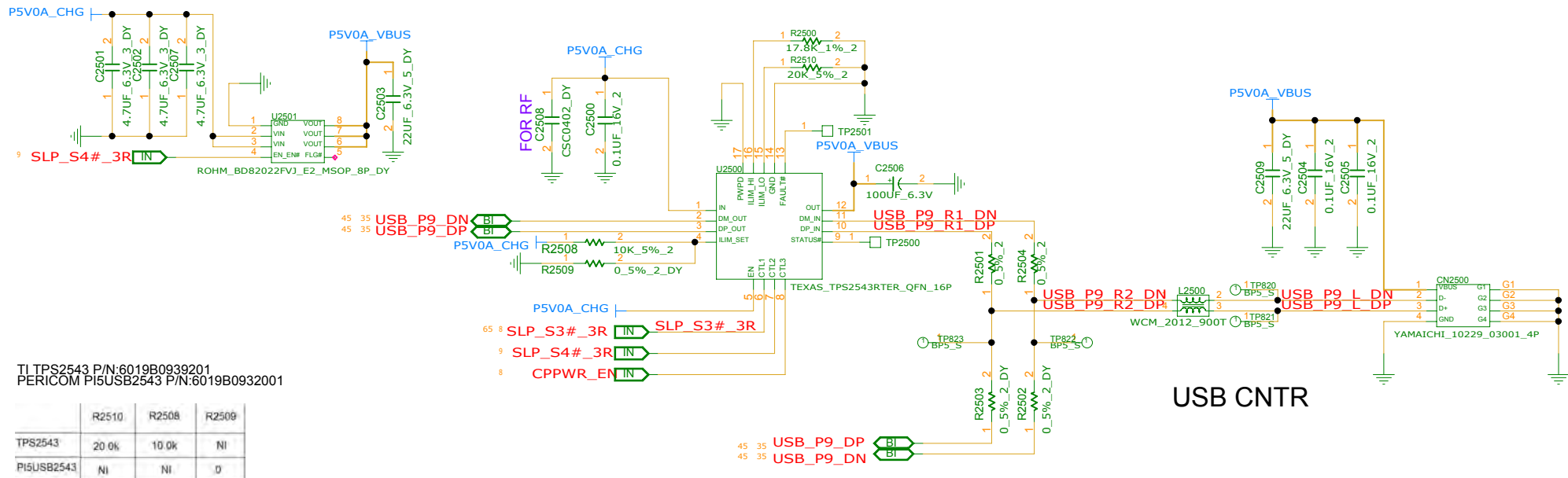
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
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CHANGE by Eui Chen DATE 02-APR-2012

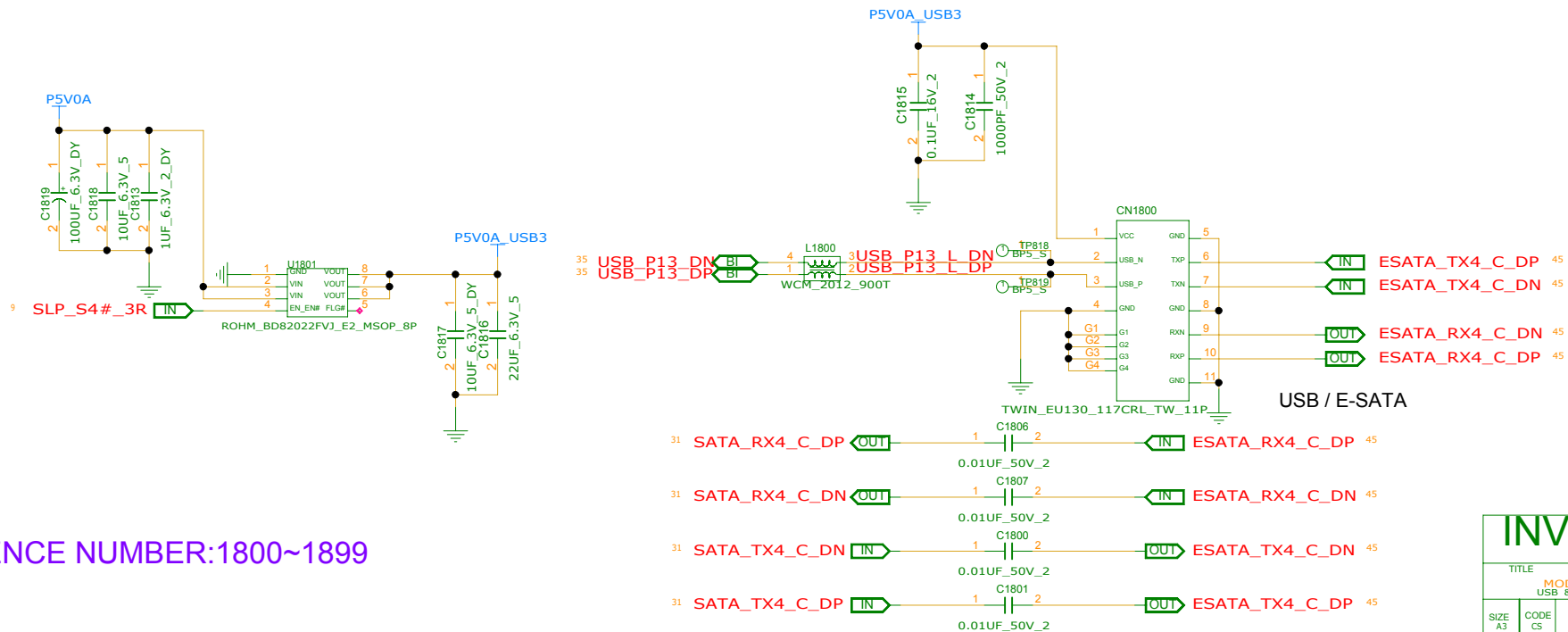
SHEET 43 of 68



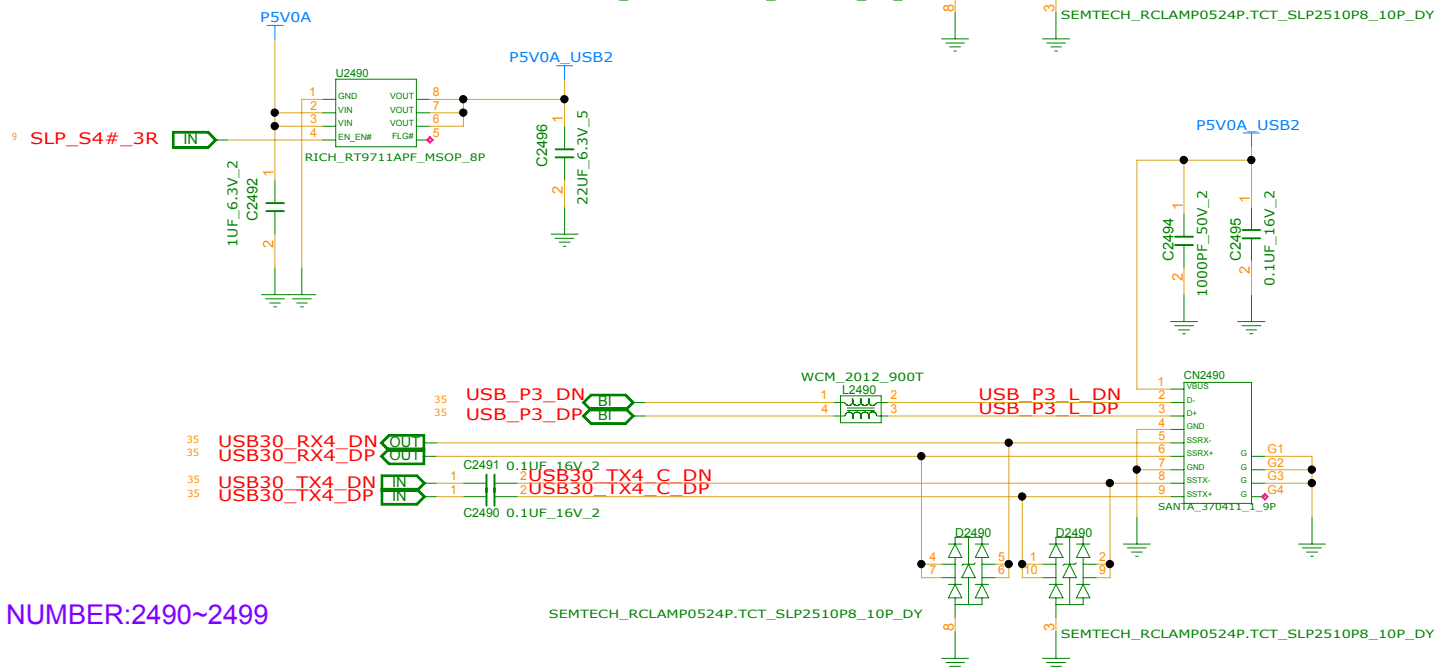
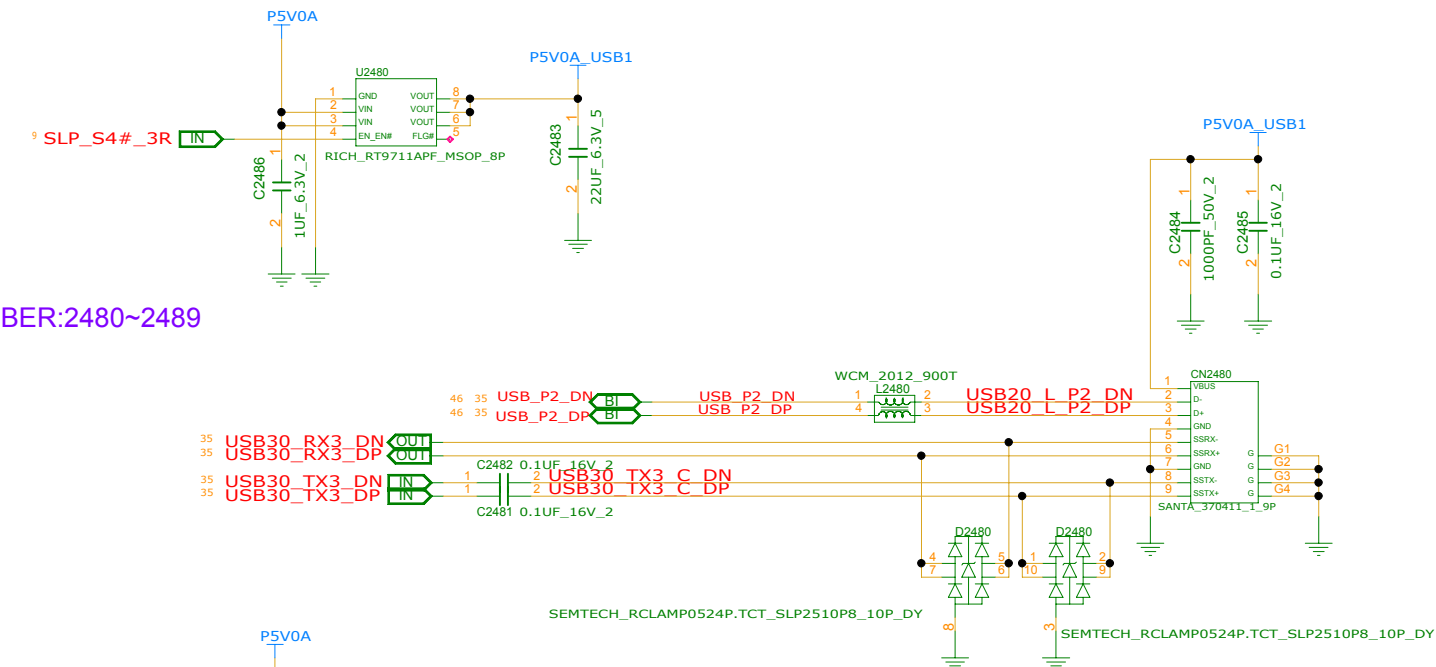
CHANGE by	Edi Chen	DATE	02-APR-2012
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REFERENCE NUMBER:2500~2599



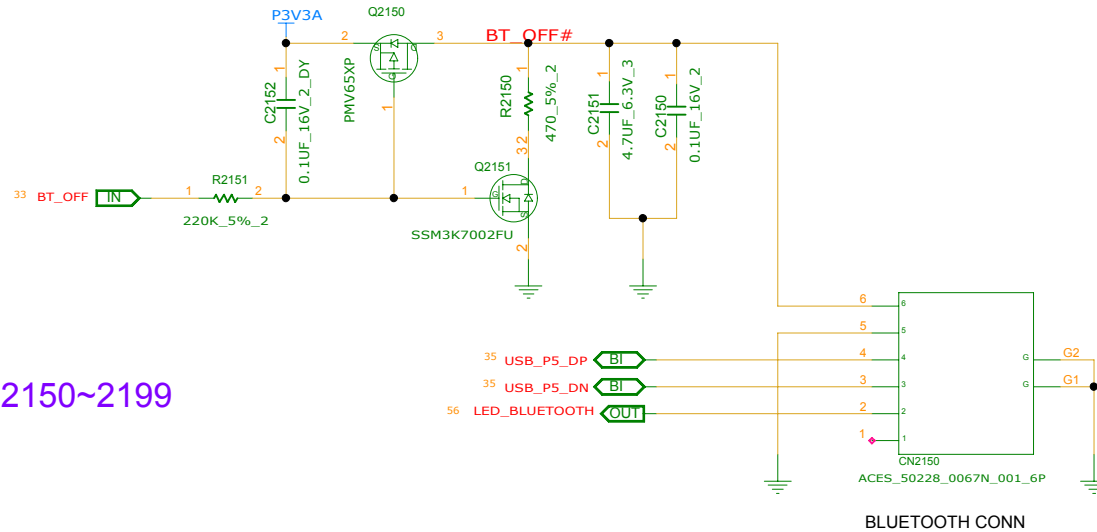
REFERENCE NUMBER:2480~2489



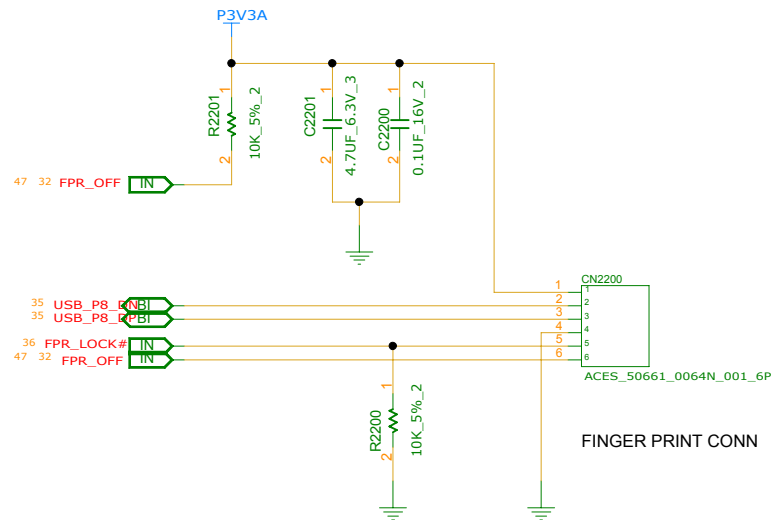
REFERENCE NUMBER:2490~2499

INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
USB_CONN			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 46 of 68			

REFERENCE:2150~2199



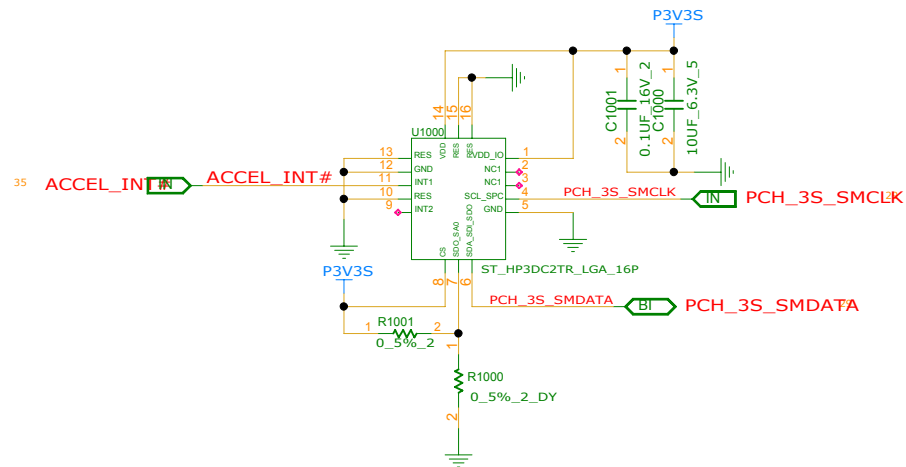
REFERENCE:2200~2249



INVENTEC

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

REFERENCE NUMER : 1000~1099



ACCELEMETOR

INVENTEC

TITLE  
MODEL PROJECT,FUNCTION  
ACCELEMETOR

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

CHANGE by Edi Chen DATE 02-APR-2012

SHEET 48 of 68



REFERENCE NUMER : 300~399

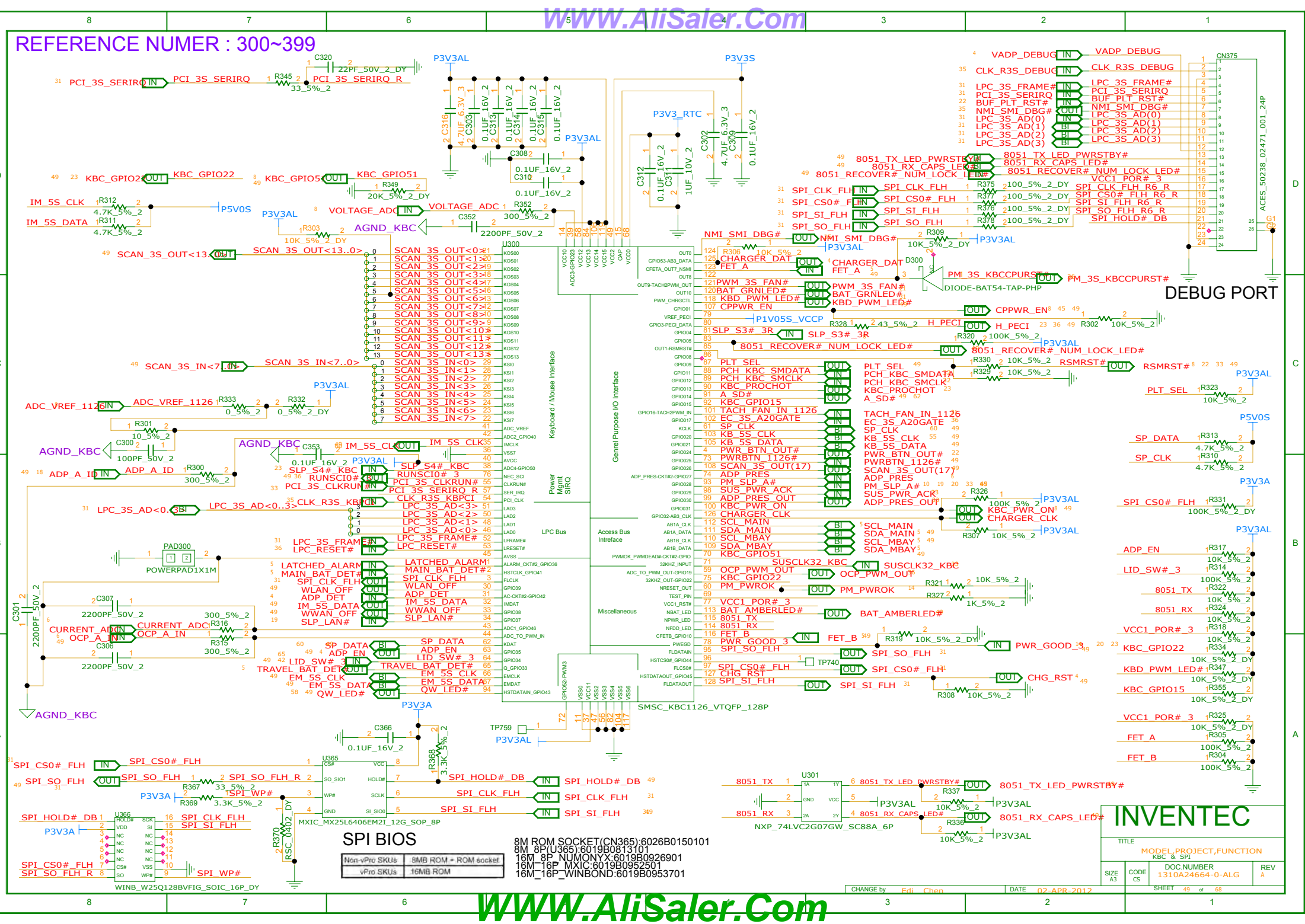
D

C

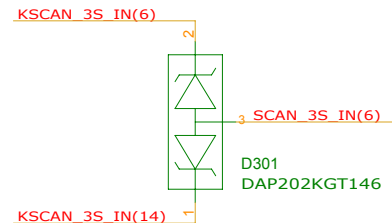
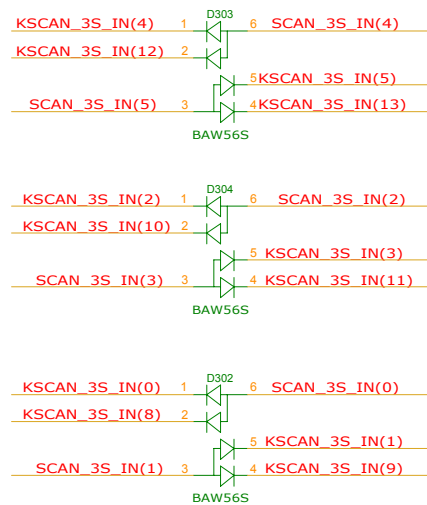
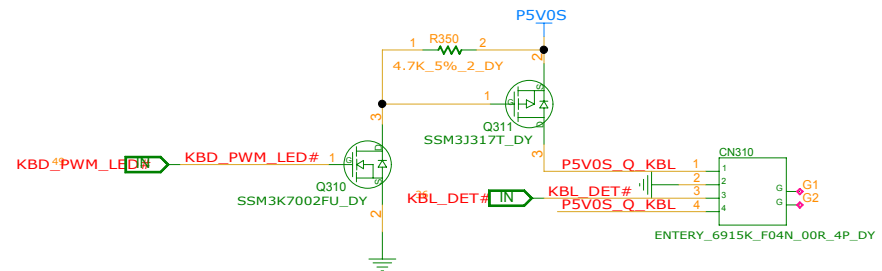
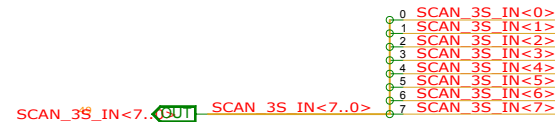
B

A

A



# REFERENCE NUMER : 300~389



INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
KEYBOARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 50 of 68			

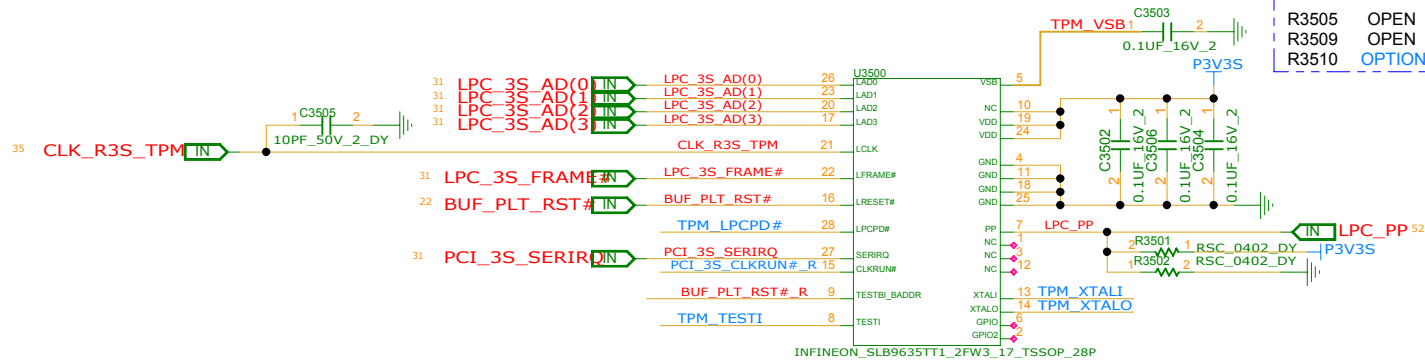
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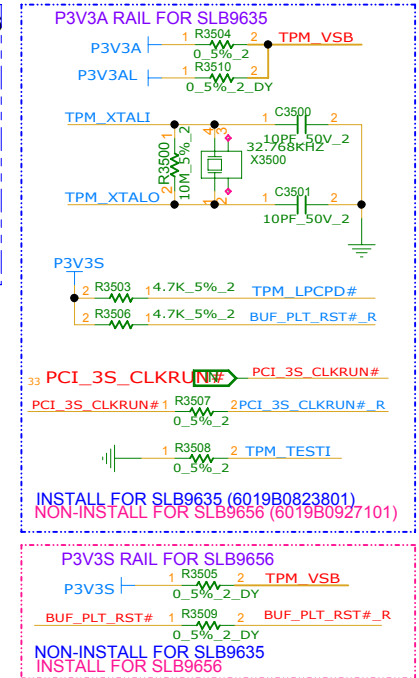
REFERENCE NUMER : 3500~3549

TPM1.2  
SLB9635 TCG REV 103  
SLB9656 TCG REV 116 (W/OTP)

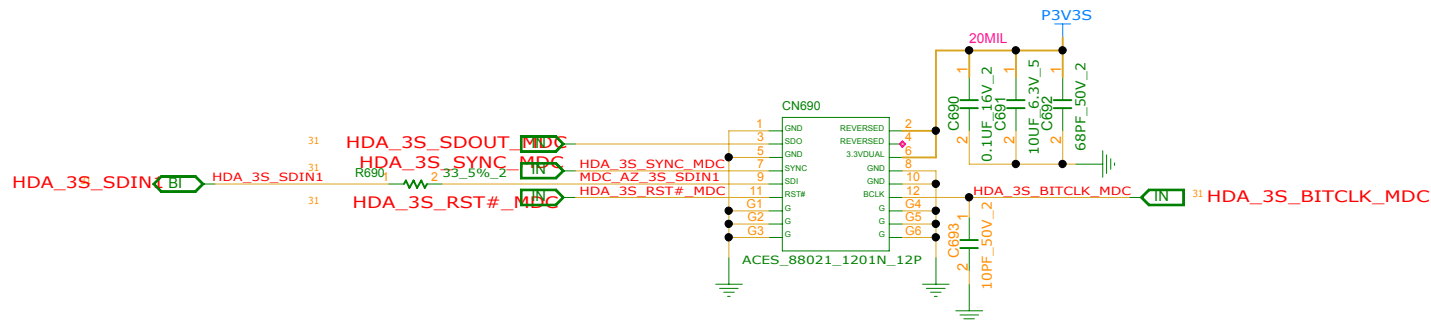
SLB9635SLB9656		
R3504	INSTALL	OPEN
R3503	INSTALL	OPEN
R3506	INSTALL	OPEN
R3507	INSTALL	OPEN
R3508	INSTALL	OPEN
R3500	INSTALL	OPEN
X3500	INSTALL	OPEN
C3500	INSTALL	OPEN
C3501	INSTALL	OPEN
R3505	OPEN	INSTALL
R3509	OPEN	INSTALL
R3510	OPTION	OPEN



TPM1.2



REFERENCE NUMER : 650~699



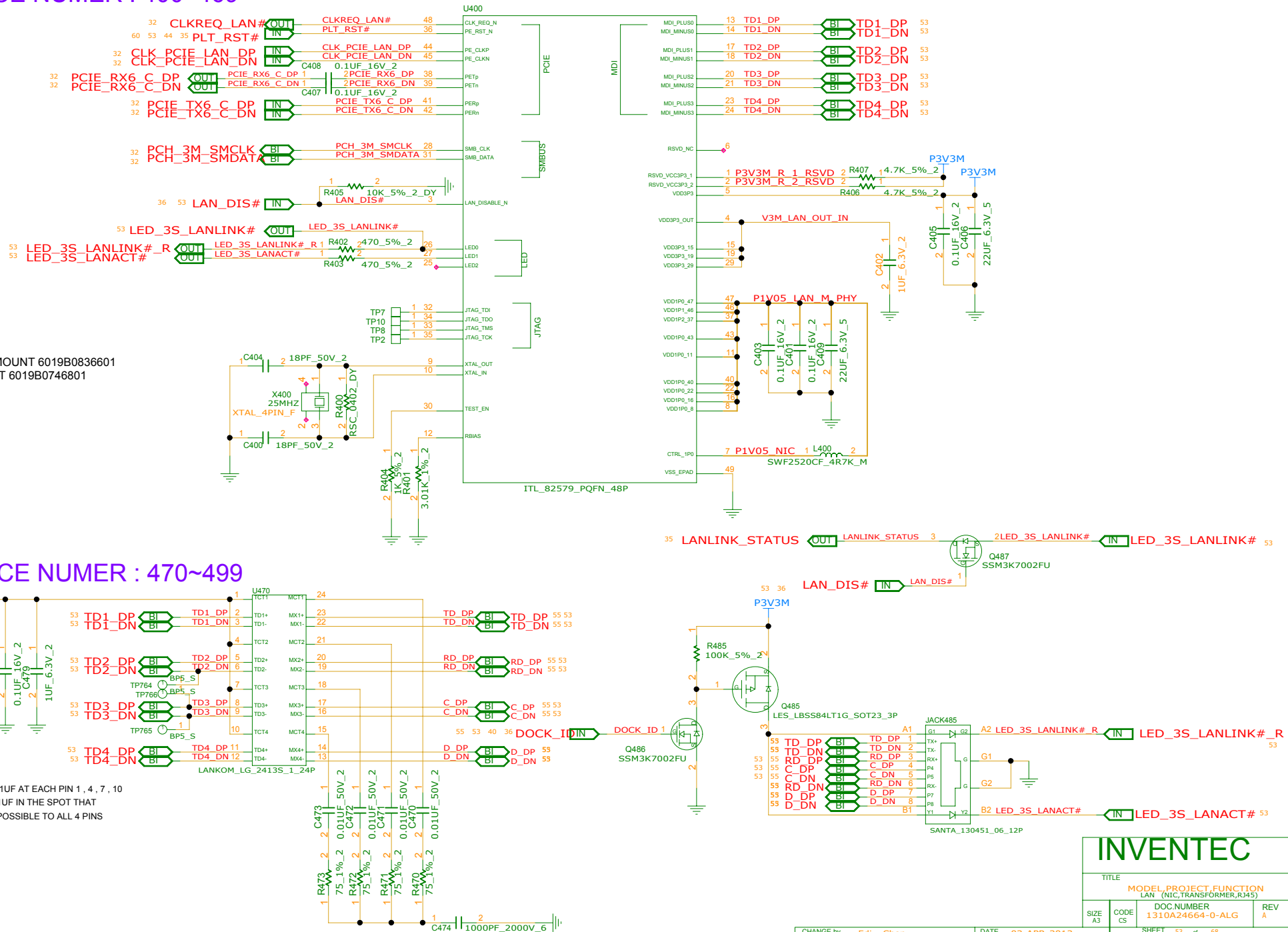
MDC CONN

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

CHANGE by Fdi Chen DATE 02-APR-2012

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SHEET 53 of 68







D

C

B

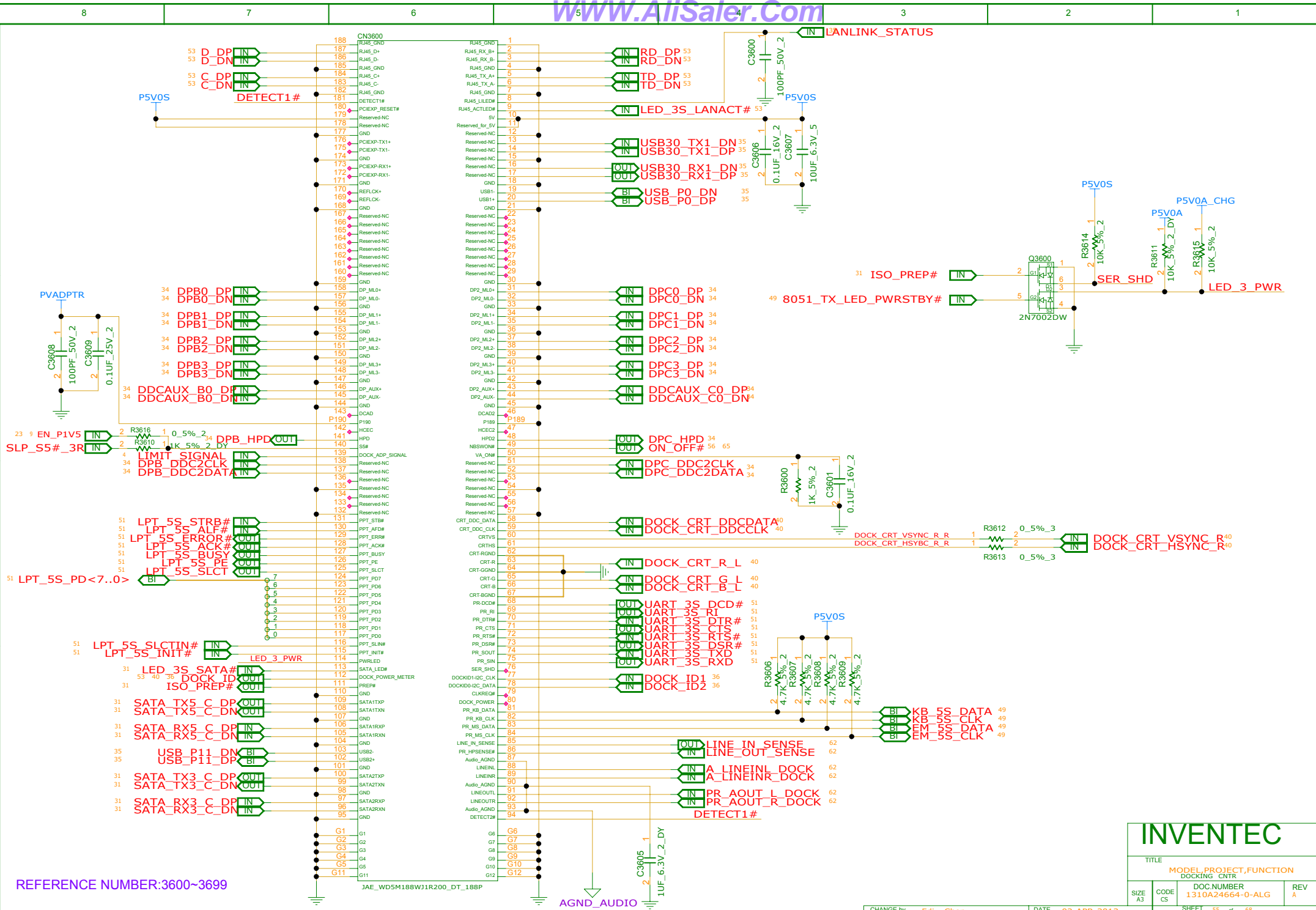
A

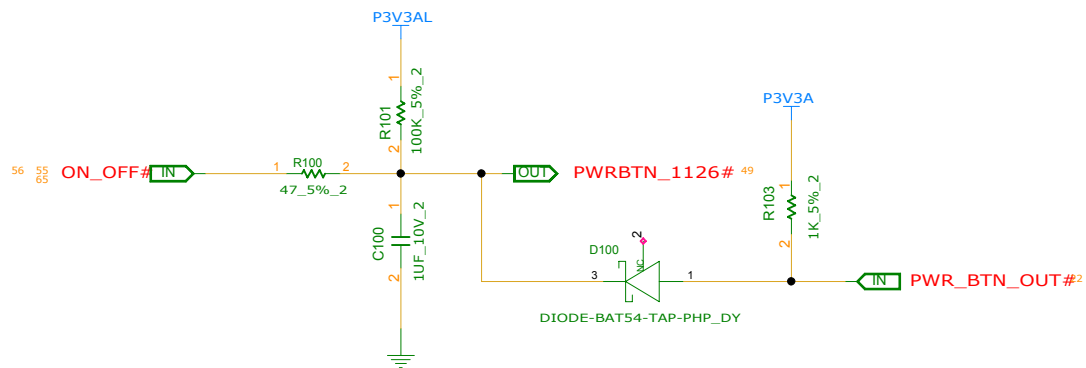
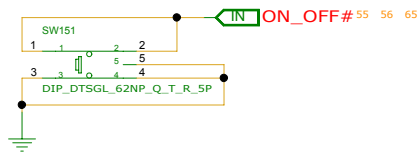
D

C

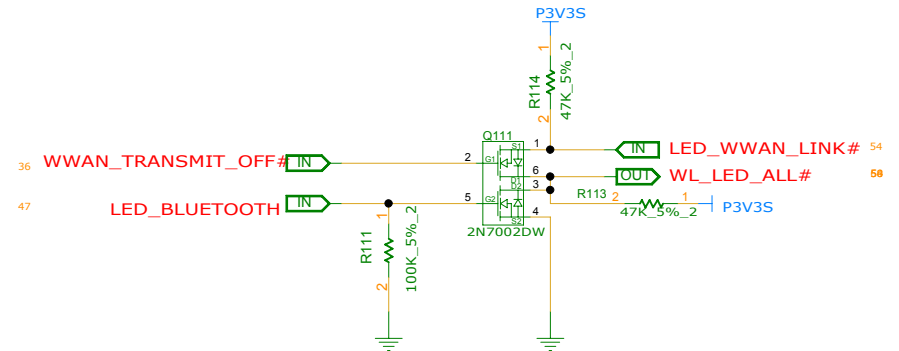
B

A





POWER / STANDBY LED



WLAN\_WWAN\_BLUETOOTH\_LED

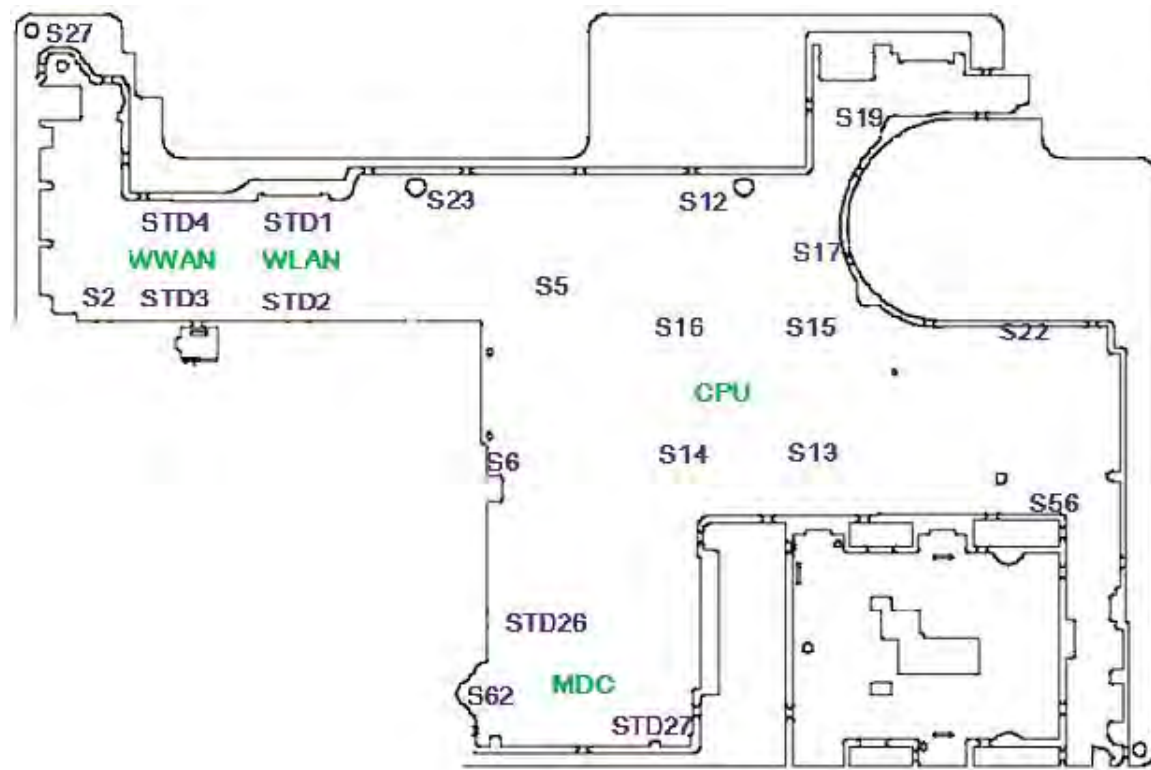
REFERENCE NUMBER:100~199

INVENTEC

TITLE			
MODEL PROJECT FUNCTION POWER & WLAN_LED			
SIZE A3	CODE CS	DOC NUMBER 1310A24664-0-ALG	REV A
SHEET 56 of 68			



# SCREW



- 1 FIX105  
FIX\_MASK
- 1 FIX106  
FIX\_MASK
- 1 FIX107  
FIX\_MASK
- 1 FIX108  
FIX\_MASK
- 1 FIX109  
FIX\_MASK
- 1 FIX110  
FIX\_MASK
- 1 FIX111  
FIX\_MASK

1 S19  
SCREW320\_600\_1P

1 S22  
SCREW320\_800\_600\_1P

1 S13  
SCREW330\_600\_1P

1 S15  
SCREW330\_600\_1P

1 S16  
SCREW330\_600\_1P

1 S14  
SCREW330\_0\_500\_1P

1 S56  
SCREW320\_800\_1P

CPU

1 S27  
SCREW320\_900\_1P

1 STD3  
DIPPAD\_1.15\_6.0\_TOP

1 STD4  
DIPPAD\_1.15\_6.0\_TOP

1 STD1  
STDPAD\_1.15\_6\_TOP

1 STD2  
STDPAD\_1.15\_6\_TOP

1 S2  
SCREW320\_680\_800\_1P

1 S5  
SCREW300\_700\_800\_1P

1 S6  
SCREW320\_800\_1P

1 S12  
SCREW550\_850\_700\_NP\_1P

1 S23  
SCREW550\_850\_700\_NP\_1P

1 S17  
SCREW300\_800\_600\_1P

WWAN

WLAN

1 S62  
SCREW280\_500\_1P

1 STD26  
STDPAD\_1.2\_0\_6-TOP

1 STD27  
STDPAD\_1.2\_0\_6-TOP

MDC

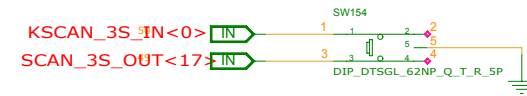
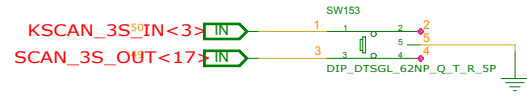
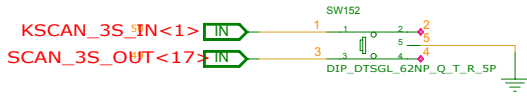
INVENTEC

TITLE  
MODEL PROJECT,FUNCTION  
SCREW

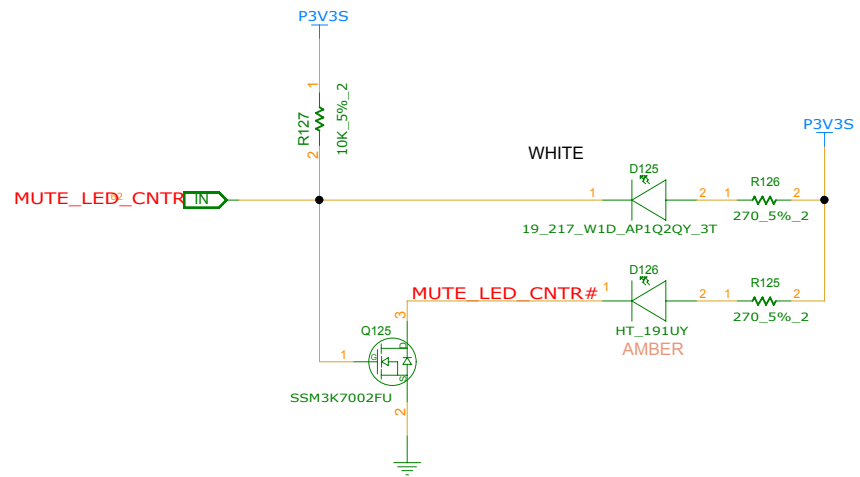
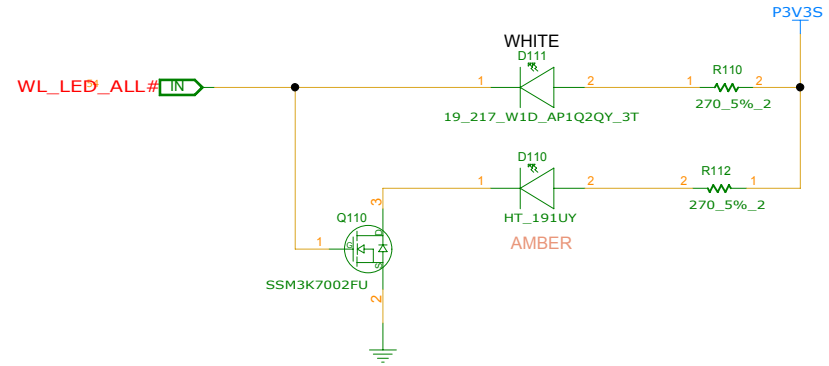
SIZE CODE DOC NUMBER REV  
A3 CS 1310A24664-0-ALG A

SHEET 57 of 68

CHANGE by Edl Chen DATE 02-APR-2012



REFERENCE NUMBER:100~199



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

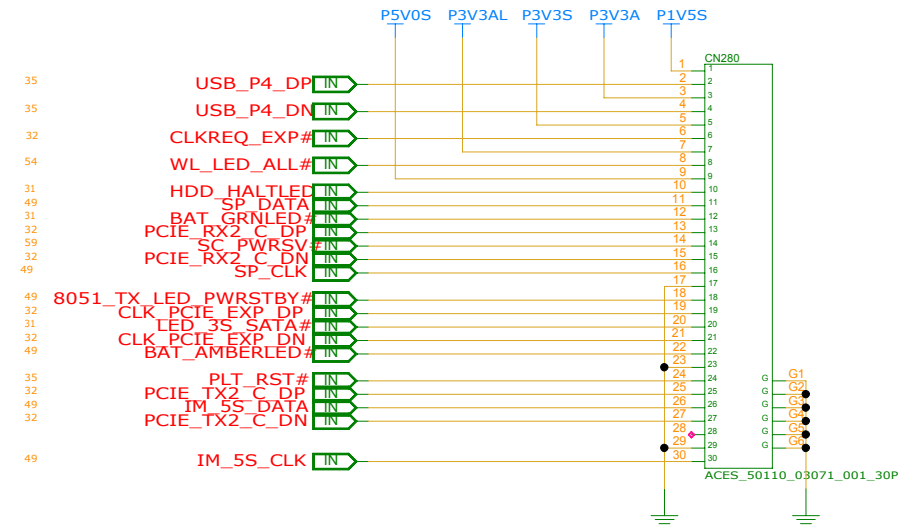
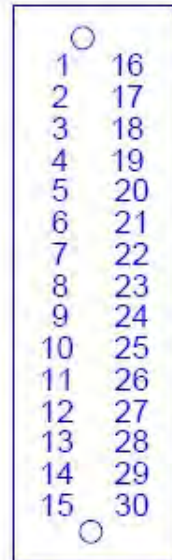
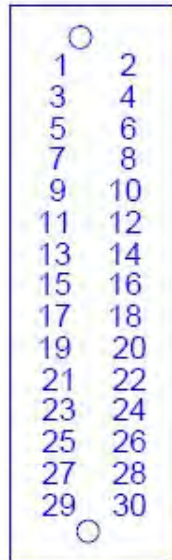


CHANGE by	Edi Chen	DATE	02-APR-2012
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EXPRESSCARD CONN

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
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SHEET 60 of 68

CHANGE by Edl Chen DATE 02-APR-2012

EMPTY

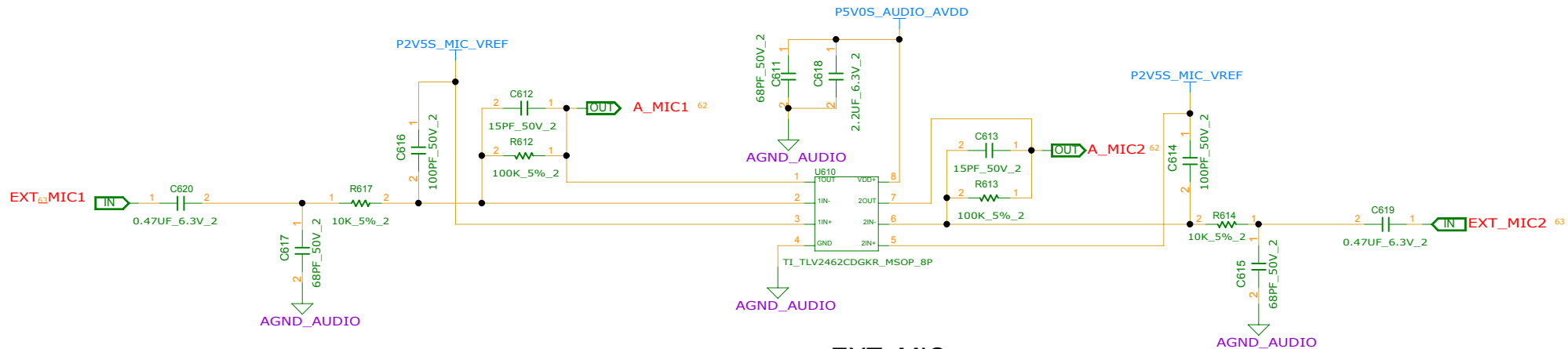
INVENTEC

TITLE			
EXPRESS MODEL PROJECT FUNCTION			
CARD/POINT STICH/TOUCH PAD(SPARE)			
DOC NUMBER		REV	
1310A24664-0-ALG		A	

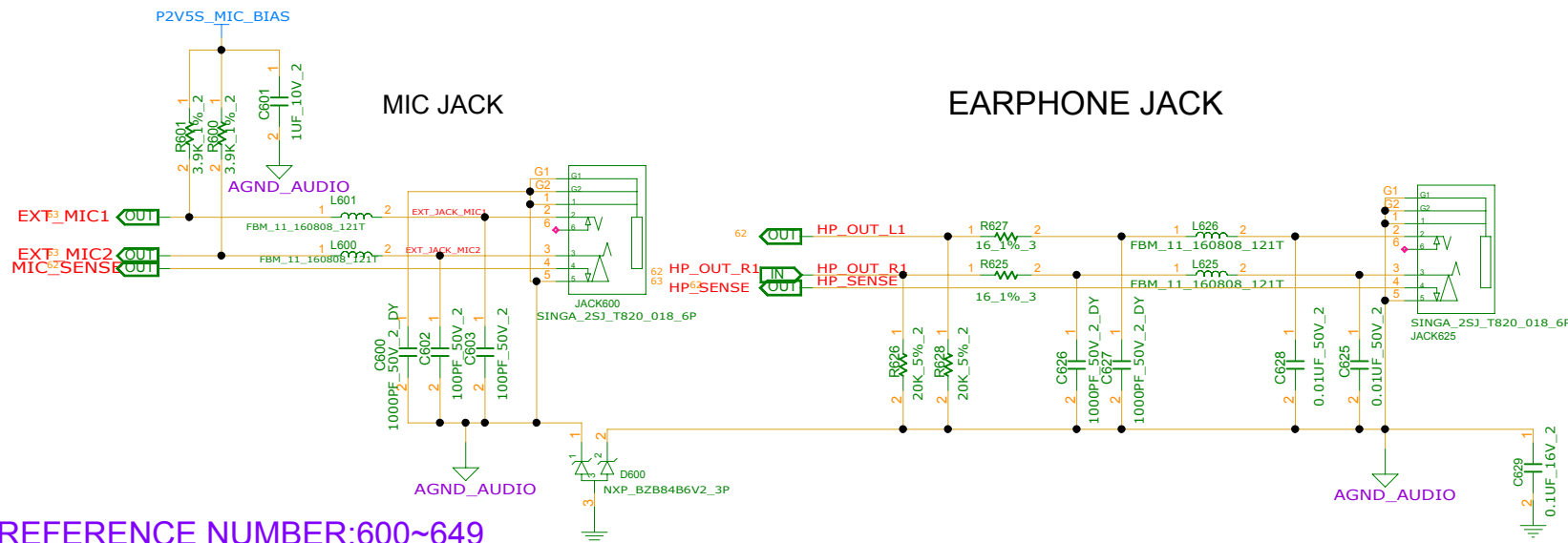


REFERENCE NUMBER:500~549

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



EXT. MIC  
REFERENCE NUMBER:610~624



REFERENCE NUMBER:600~649

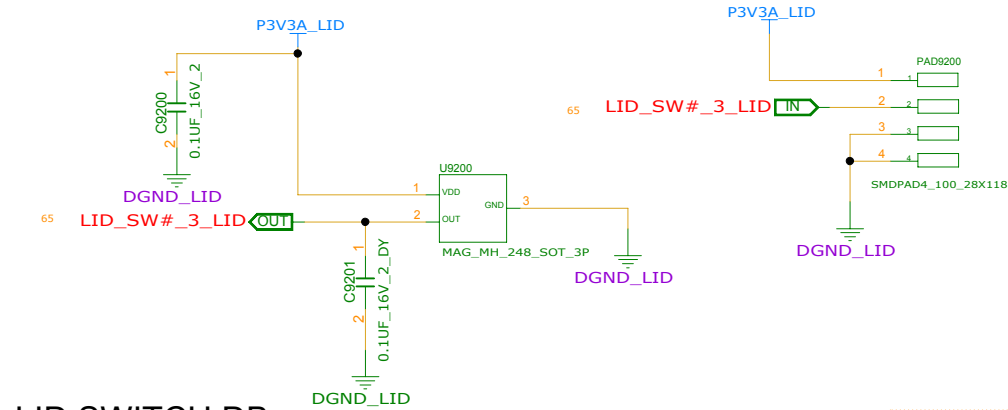
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
EXT. MIC / MIC / HP			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24664-0-ALG	A
SHEET 63 of 68			

CHANGE by Edi Chen DATE 02-APR-2012



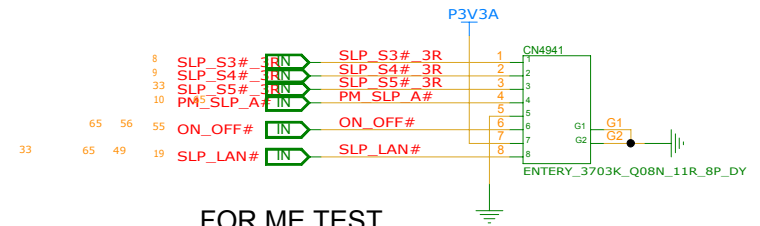
**WWW.AliSaler.Com**



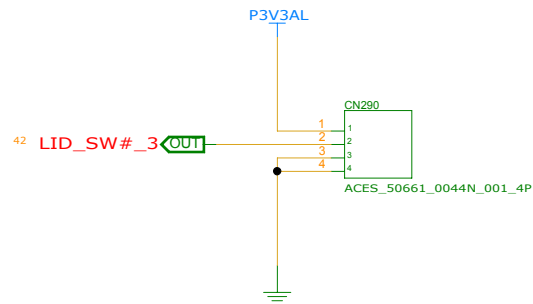


LID SWITCH DB

REFERENCE NUMBER:9200~9299



FOR ME TEST



LID SWITCH MB CONN.

INVENTEC

TITLE  
MODEL PROJECT,FUNCTION  
LID SWITCH

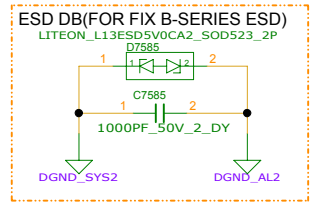
SIZE A3 CODE CS DOC NUMBER 1310A24664-0-ALG REV A

CHANGE by Edi Chen DATE 02-APR-2012

SHEET 65 of 68



CHANGE by	Edi Chen	DATE	02-APR-2012
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INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
ESD DB			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A25051-0-ALG	A
SHEET 68 of 68			