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HSF Property:ROHS or Halogen-Free

# BANDIT

## PV BUILD

2012.09.05

DATE	CHANGE NO.	REV

INVENTEC					TITLE		
DRAWER		EE	DATE	POWER	DATE	MODEL PROJECT FUNCTION	
DESIGN		xxx	21-OCT-2002	RAY CHEN	21-OCT-2002	ULTRABOOK MAIN BOARD	
CHECK		xxx	21-OCT-2002	RAY CHEN	21-OCT-2002		
RESPONSIBLE		xxx	21-OCT-2002	RAY CHEN	21-OCT-2002		
SIZE: A3					VER: A01	SIZE: A3	CODE: CS
FILE NAME: BANDIT.MB (3108251410)						DOC NUMBER	
PIN: gspaksc14101						1310000000-0-0	
						REV	
						X01	
						SHEET	
						of 64	

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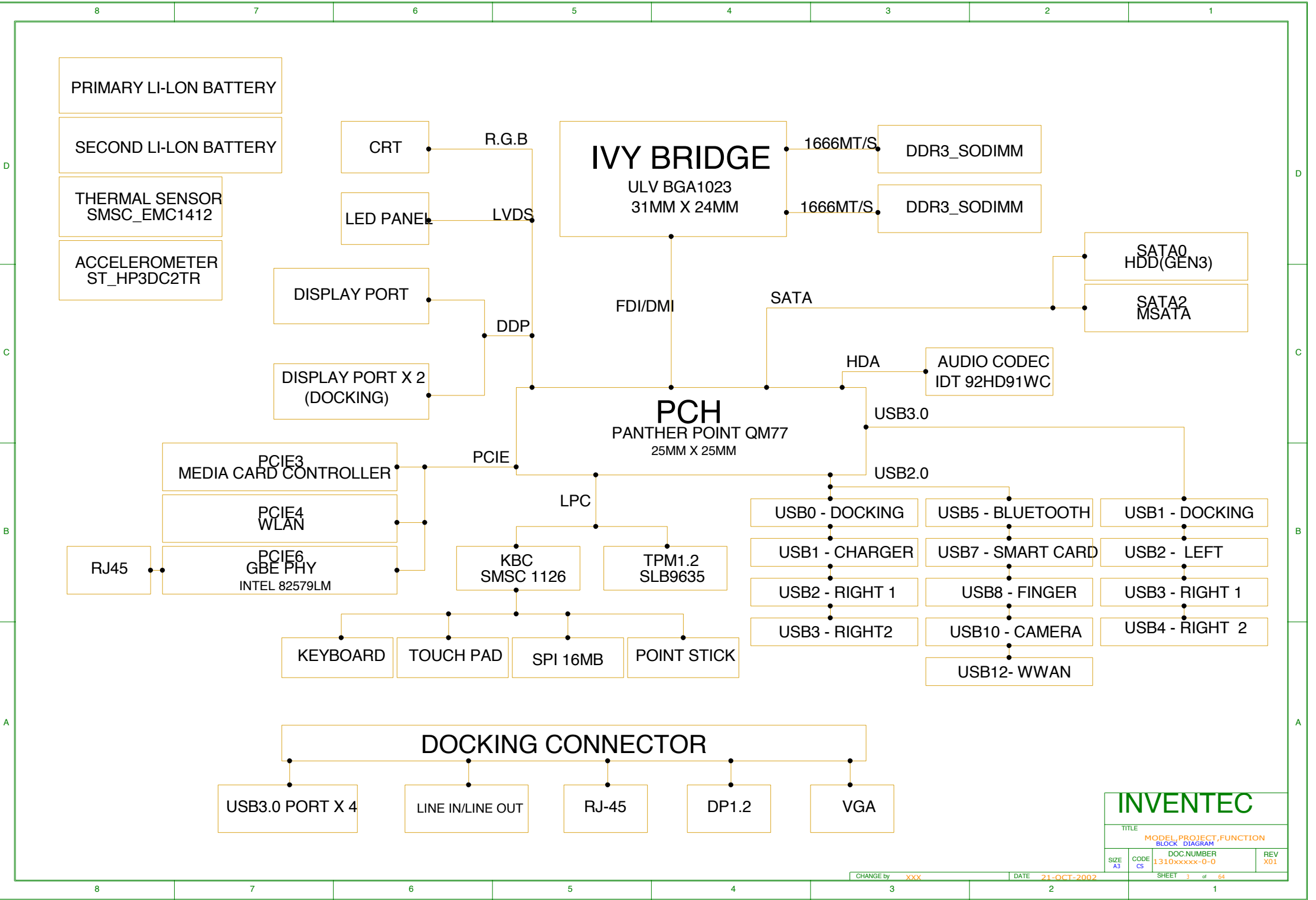
1. PROJECT NAME	23. IVY BRIDGE_1 (CLK,MISC,JTAG)	47. KEYBOARD
2. TABLE OF CONTENTS	24. IVY BRIDGE_2 (POWER)	48. TPM
3. BLOCK DIAGRAM	25. IVY BRIDGE_3 (DMI,DP,PEG,FDI)	49. LAN INTERFACE
4. SYSTEM POWER FLOW	26. IVY BRIDGE_4 (DDR3)	50. LAN RJ45 CNTR
5. SYSTEM POWER(CHARGER)	27. IVY BRIDGE_5 (GRAPHICS POWER)	51. WLAN
6. SYSTEM POWER(BATT SELECTOR)	28. IVY BRIDGE_6 (GND,RESERVED)	52. WWAN & SIM CARD
7. SYSTEM POWER(OCF)	29. DDR3_SO-DIMM0	53. DOCKING CNTR
8. SYSTEM POWER(P3V3A&P5V0A)	30. DDR3_SO-DIMM1	54. STICK POINT & B2B CNTR
8. SYSTEM POWER(P5V0A _CHG	31. PANTER POINT_1 (HDA,JTAG,SPI,SATA)	55. CODEC
10. SYSTEM POWER(P1V5)	32. PANTER POINT_2 (PCI-E,SMBUS,CLK)	56. EXT MIC AMP
11. SYSTEM POWER(P1V05M)	33. PANTER POINT_3 (DMI,FDI,GPIO)	57. JACK & USB3 CNTR
12. SYSTEM POWER(P1V05S)	34. PANTER POINT_4 (LVDS,DDI)	58. CARD READER
13. SYSTEM POWER(P1V8S)	35. PANTER POINT_5 (PCI,USB,NVRAM)	59. BUTTON LED
14. SYSTEM POWER(PVSA)	36. PANTER POINT_6 (GPIO,VSS_NCFT,RSVD)	60. SMART VARD & LED DB
15. SYSTEM POWER(PVCORE1)	37. PANTER POINT_7 (POWER)	61. MIC DB
16. SYSTEM POWER(PVCORE2)	38. PANTER POINT_8 (POWER)	62. SCREW
17. POWER TEST POINT	39. PANTER POINT_9 (GND)	63. EMI & RF SOLUTION
18. POWER PAD	40. CRT / DISPLAY PORT CNTR	64. SYSTEM SEQUENCE
19. POWER(SLEEP)	41. LCM & WEBCAM	
20. POWER(SEQUENCE)	42. SATA & MSATA CNTR	
21. XDP CONN	43. USB CNTR & USB CHARGER	
22. FAN & THERMAL	44. FINGER PRINTER CNTR	
	45. ACCELEMETOR	
	46. KBC / SPI	

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MODEL PROJECT FUNCTION  
TABLE OF CONTENTS

SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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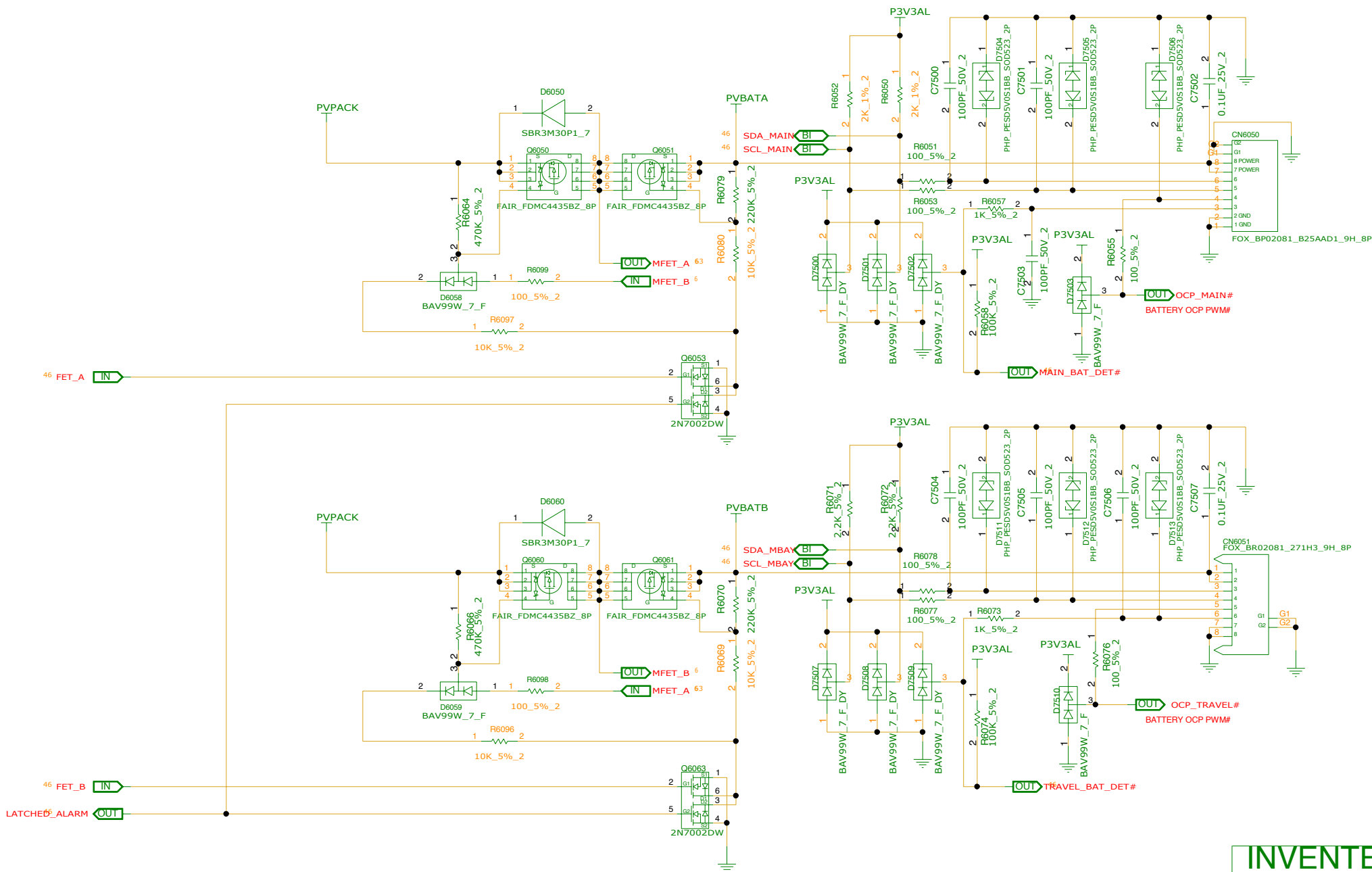
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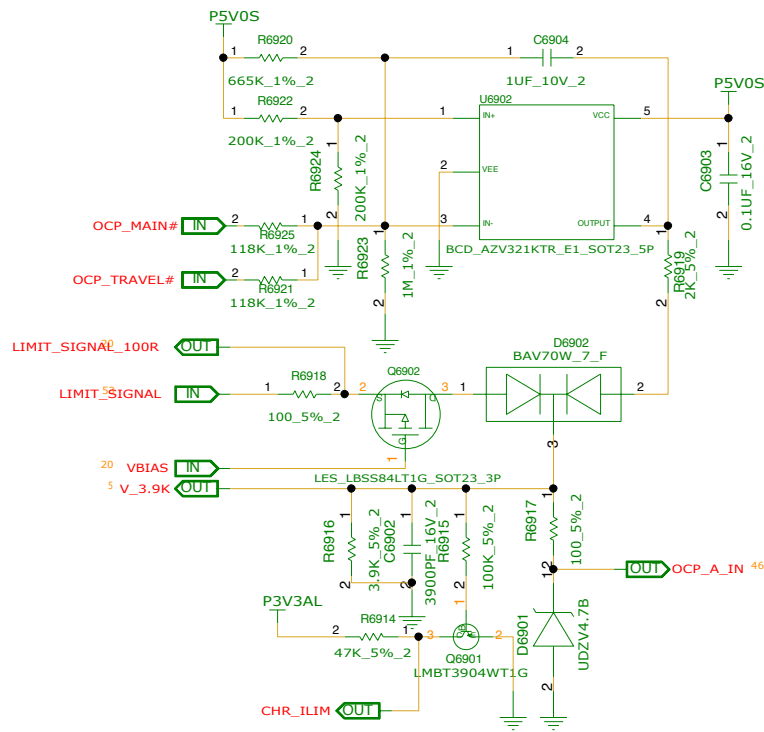
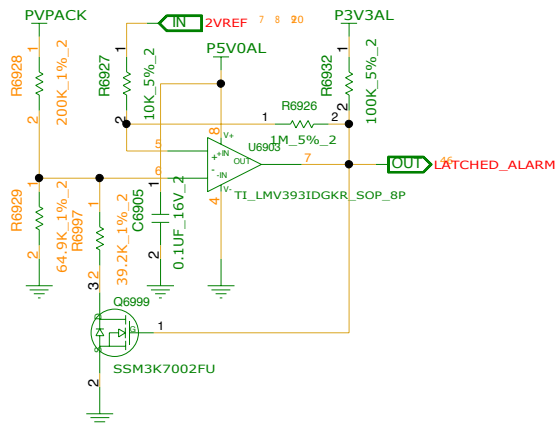
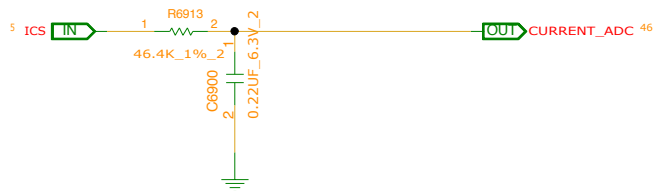
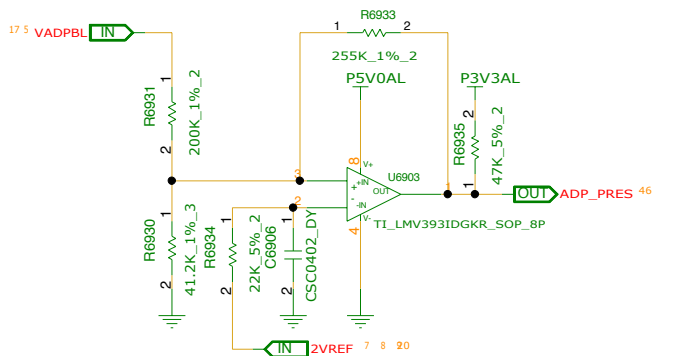
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**INVENTEC**

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by	XXX	DATE	21-OCT-2002
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# INVENTEC

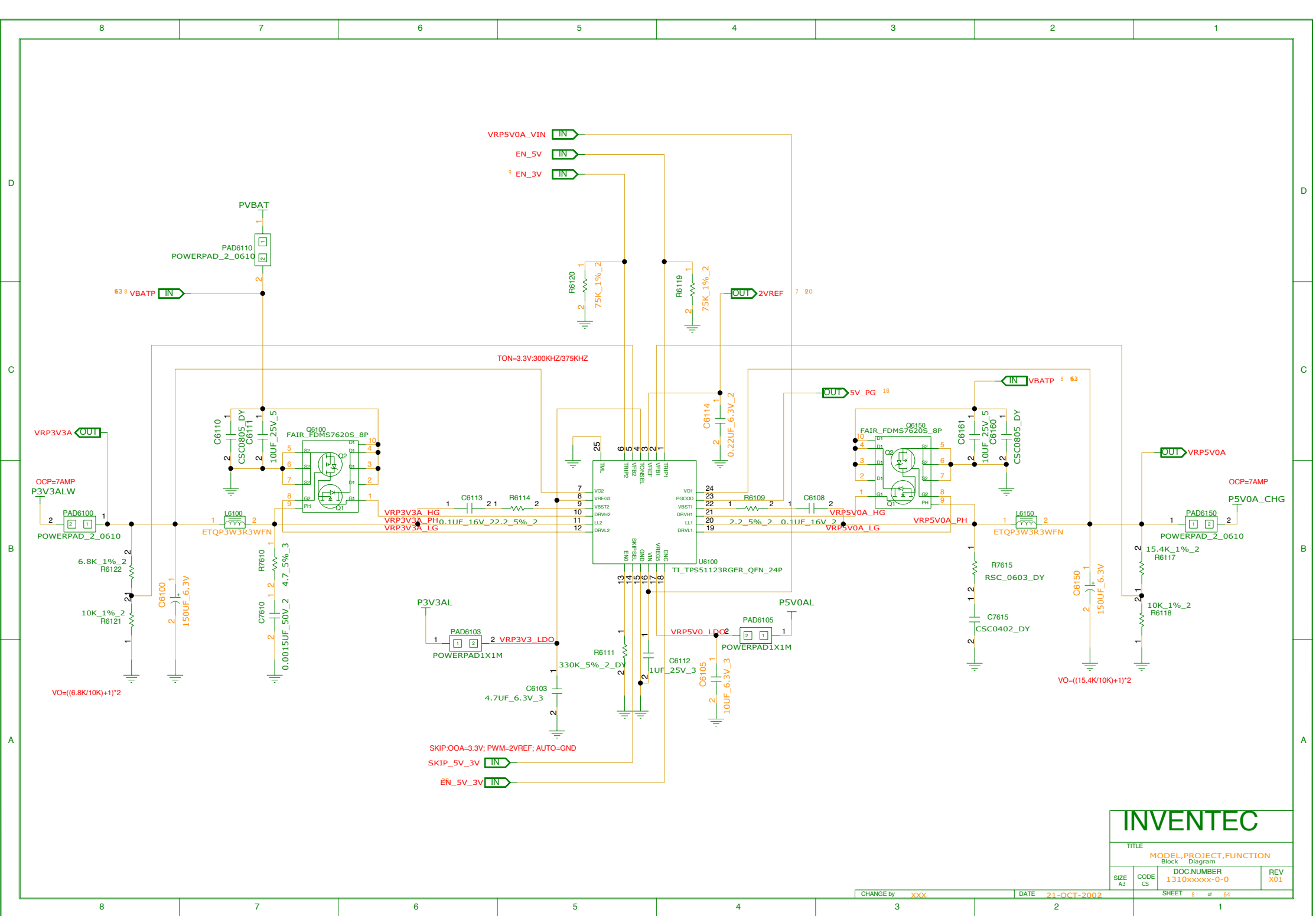
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MODEL,PROJECT,FUNCTION  
Block Diagram

DOC NUMBER  
1310xxxxx-0-0

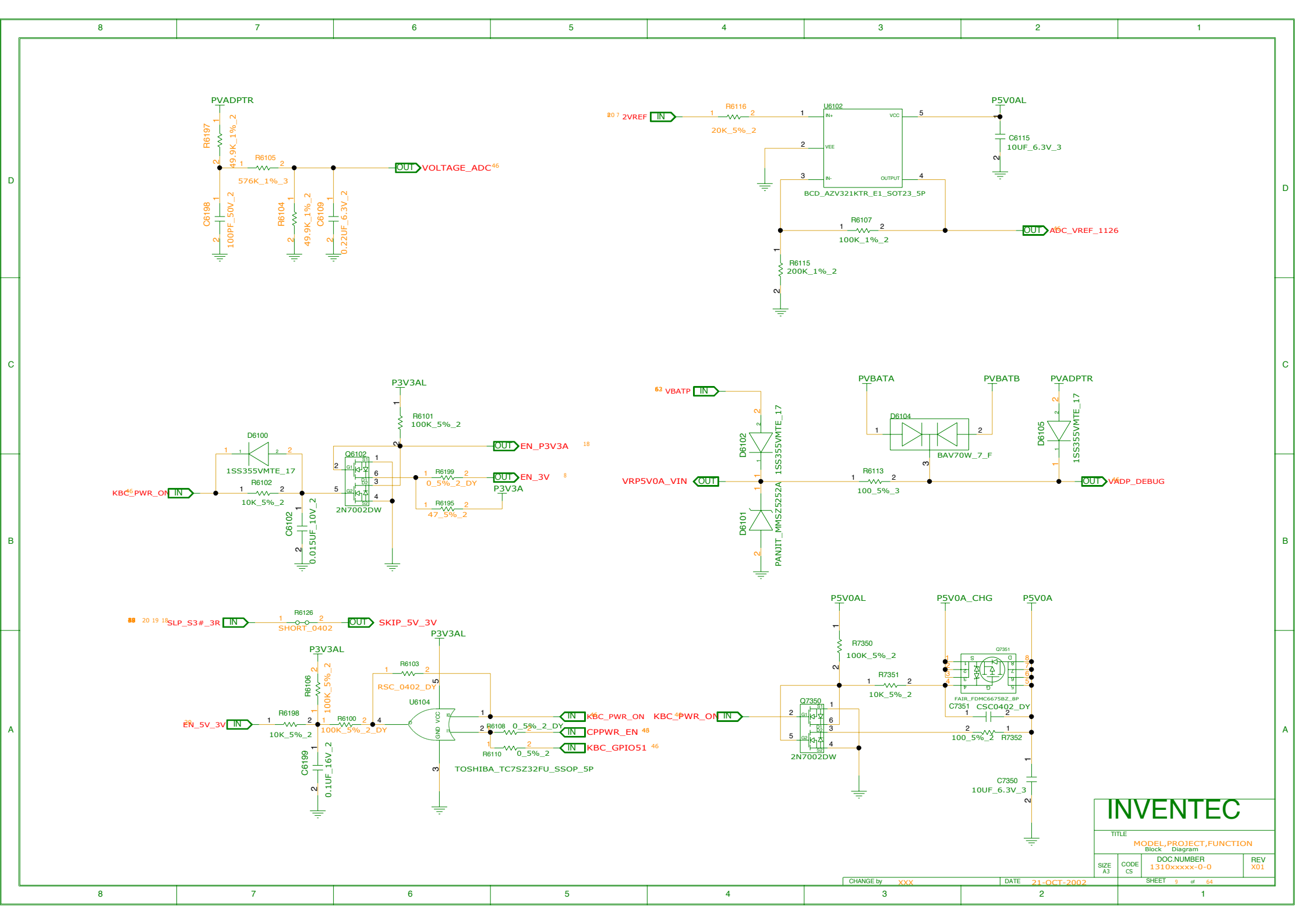
REV  
X01

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INVENTEC

TITLE  
MODEL,PROJECT,FUNCTION  
Block Diagram

DOC NUMBER  
1310xxxxx-0-0

REV  
X01

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A

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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
Block	Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	F X
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DATE	21-OCT-2002
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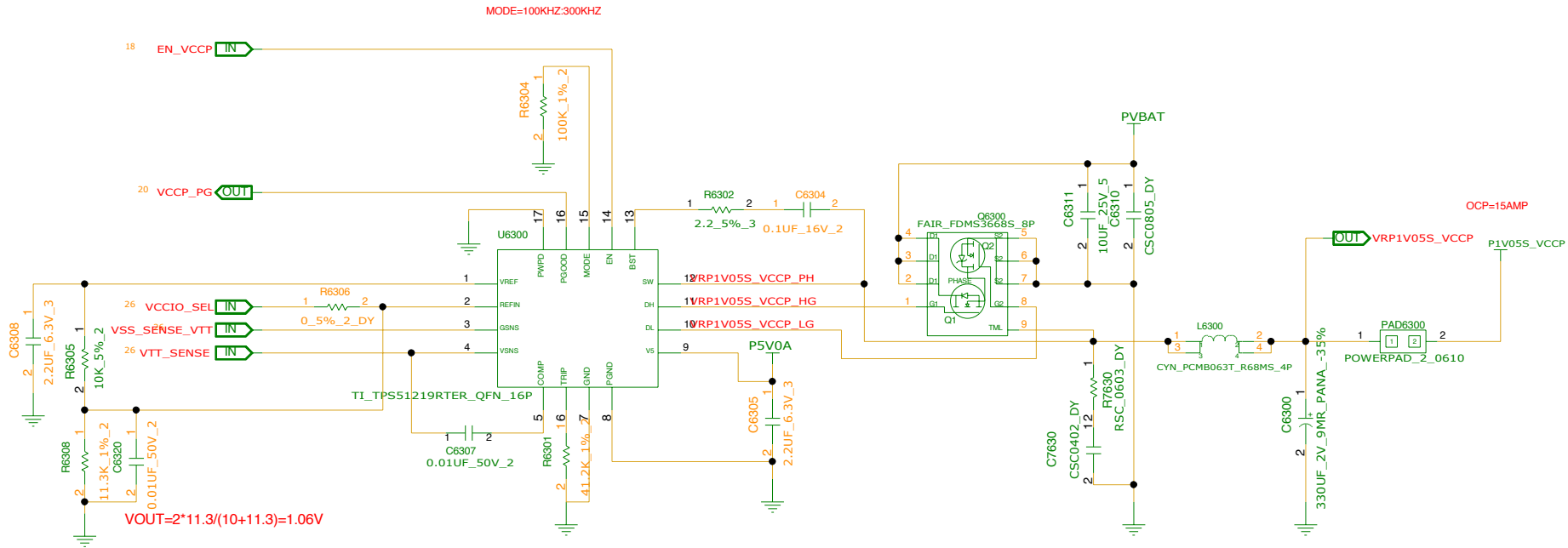
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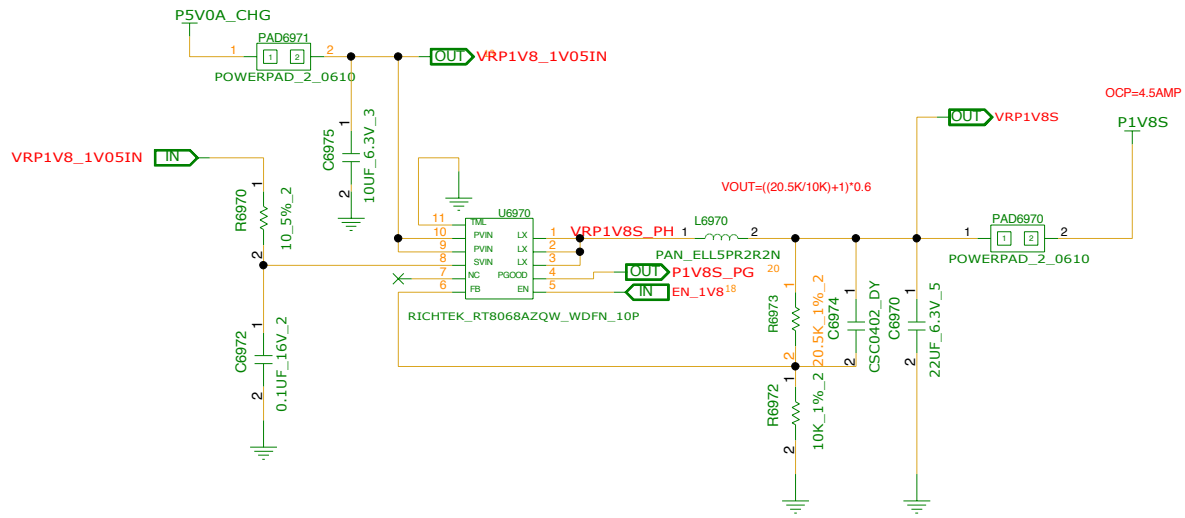
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2

1







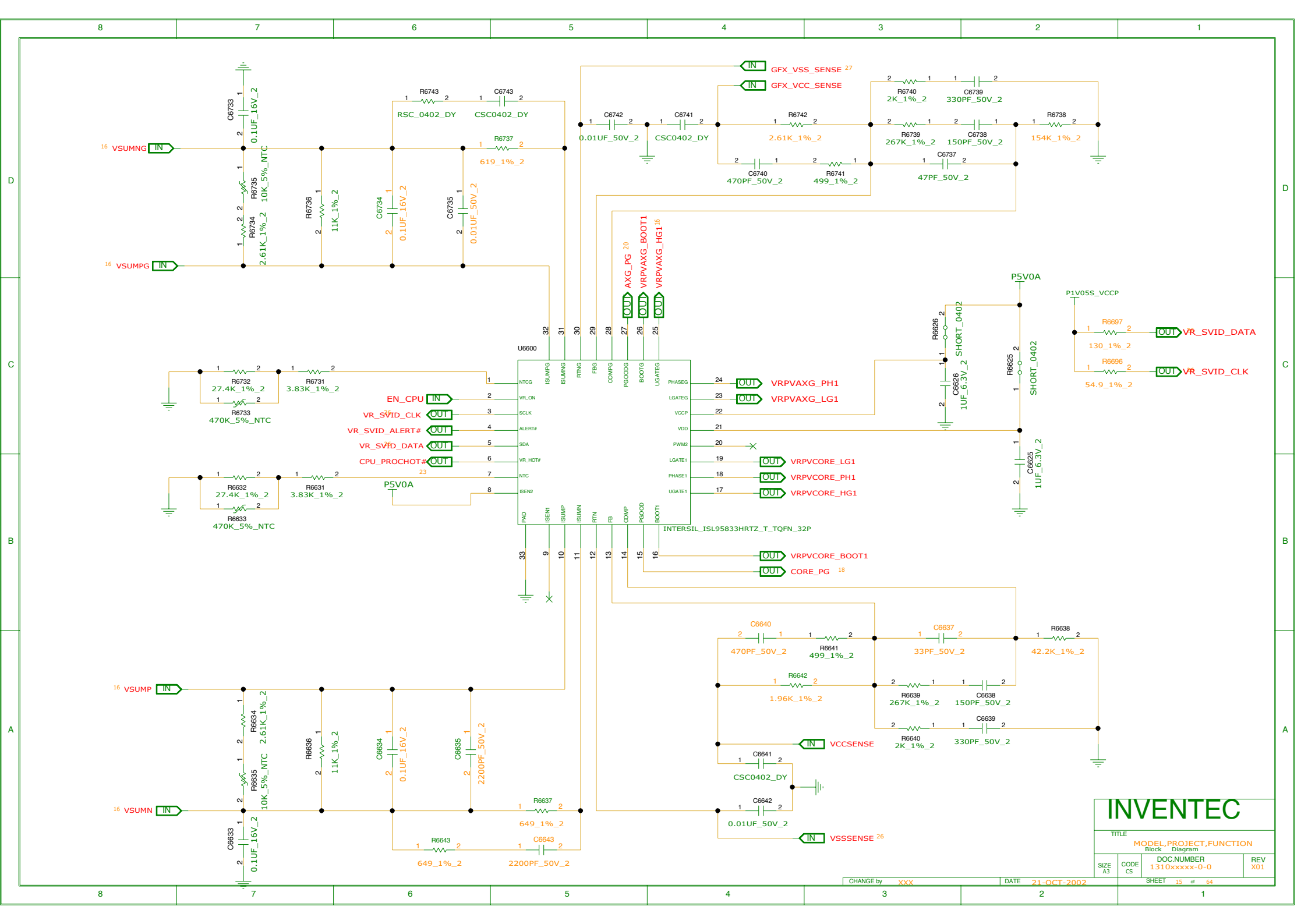
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TITLE  
MODEL,PROJECT,FUNCTION  
Block Diagram

SIZE A3 CODE CS DOC NUMBER 1310xxxxx-0-0 REV X01

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TITLE MODEL,PROJECT,FUNCTION

DOC NUMBER 1310xxxxx-0-0

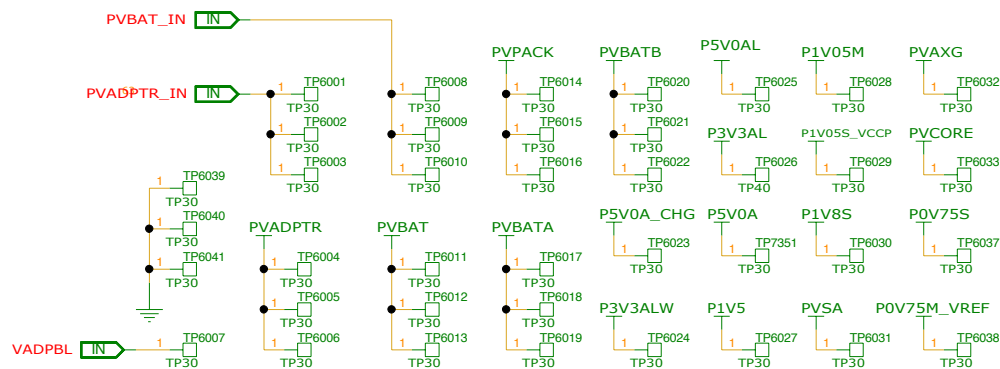
REV X01

SIZE A3 CODE CS SHEET 15 of 64

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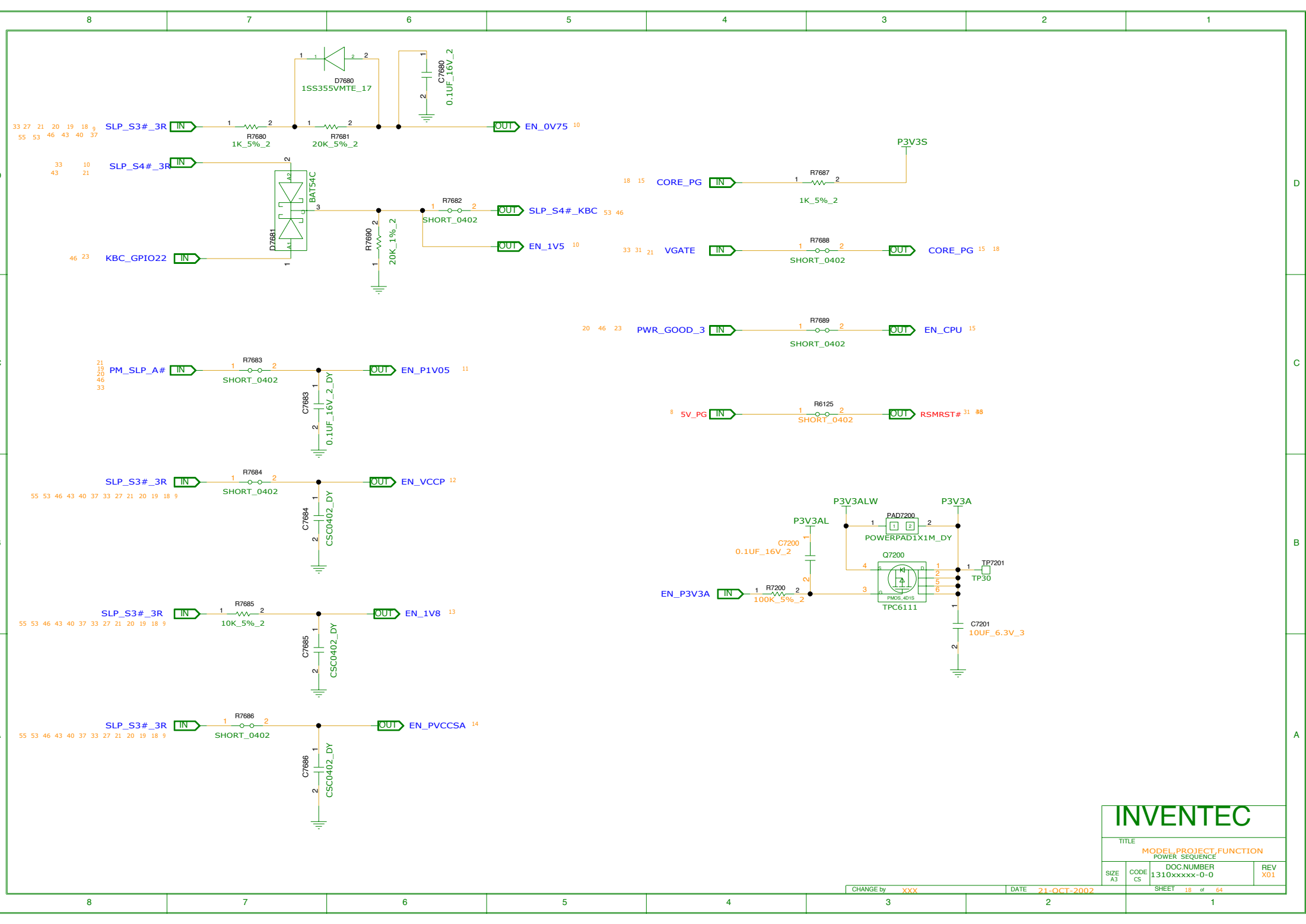


INVENTEC

TITLE  
MODEL,PROJECT,FUNCTION  
Block Diagram

SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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INVENTEC

TITLE MODEL PROJECT FUNCTION

POWER SEQUENCE

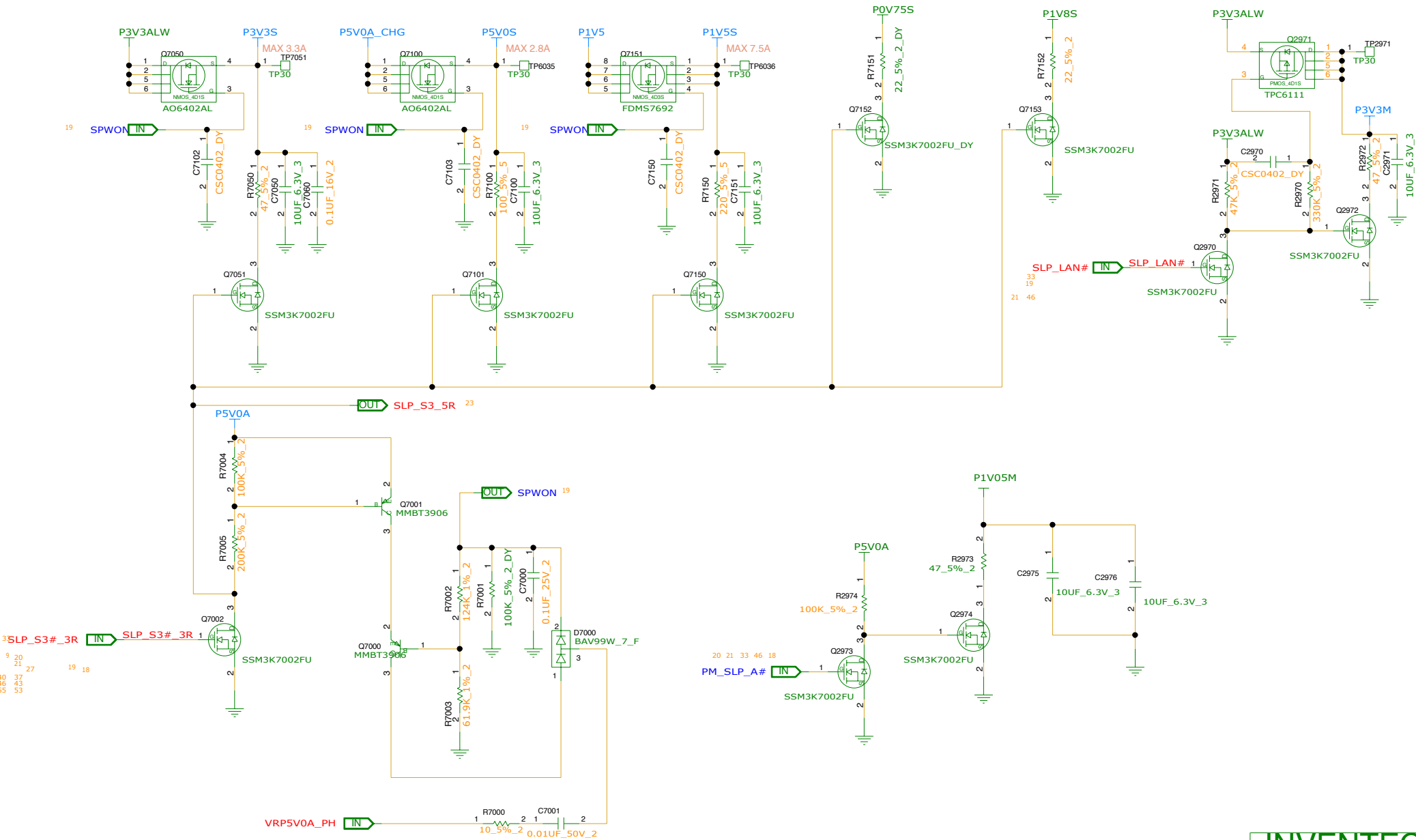
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REV X01

SIZE A3 CODE CS SHEET 18 of 64

CHANGE by XXX DATE 21-OCT-2002

REFERENCE NUMBER : 7000~7350



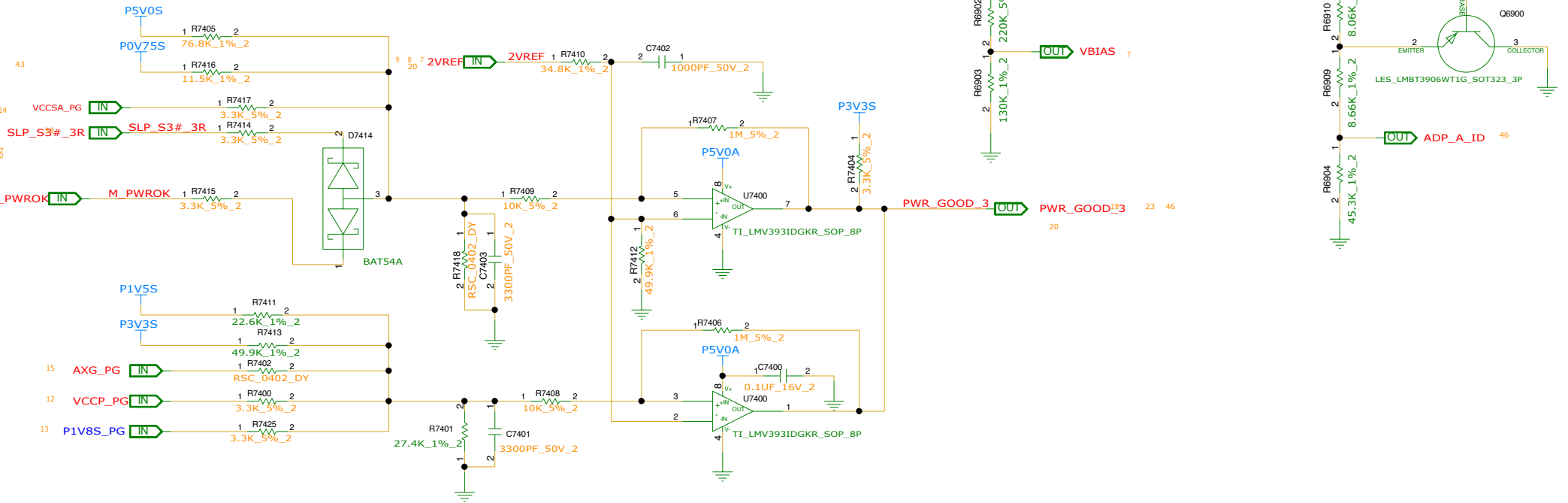
Q2971 WHETHER CAN CHANGE TO  
6015B0017101 PMV65XP OR NOT

REFERENCE NUMBER : 2950~2999

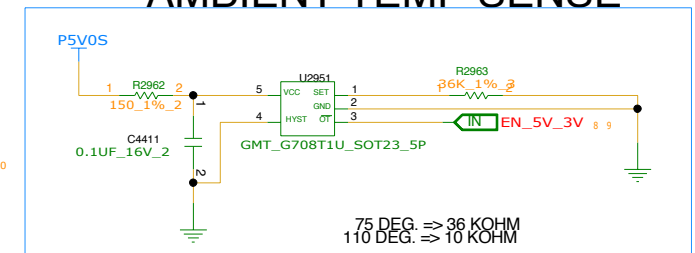
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION POWER(SLEEP)			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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REFERENCE NUMER : 7400~7450



## AMBIENT TEMP SENSE



75 DEG.  $\Rightarrow$  36 KOHM  
110 DEG.  $\Rightarrow$  10 KOHM

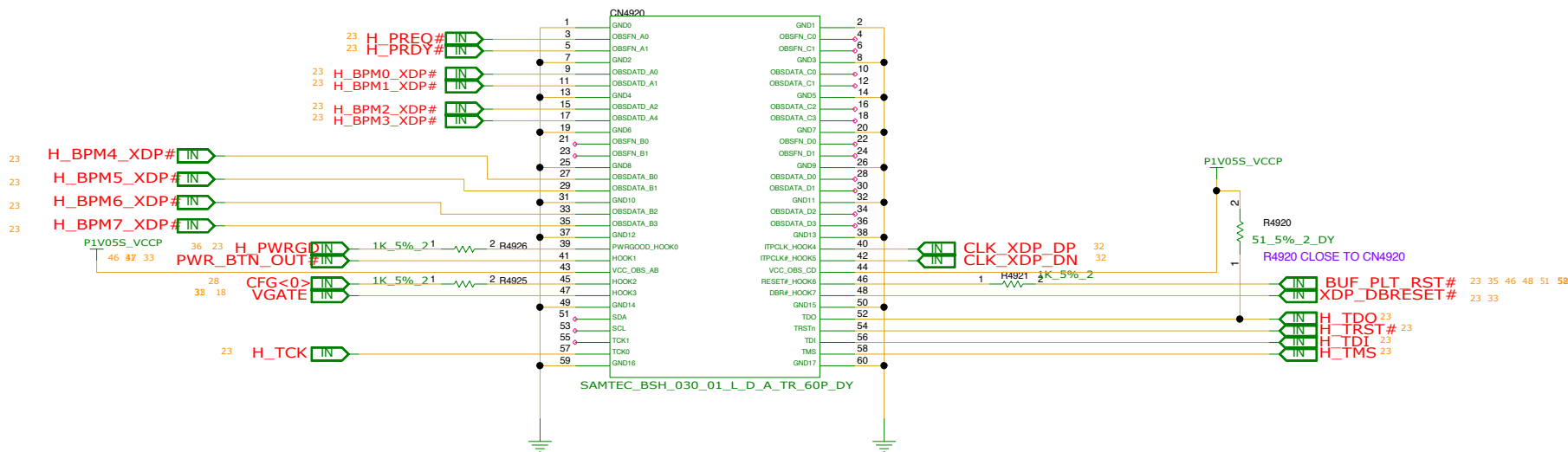
INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
POWER (SEQUENCE)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01

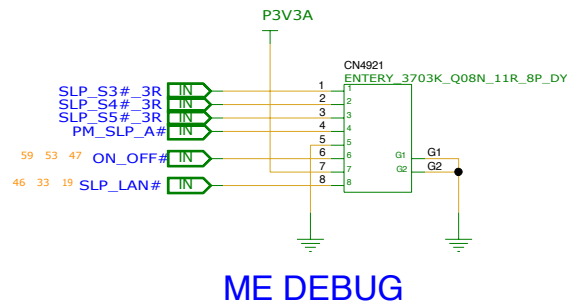
CHANGE by XXX DATE 21-OCT-2002

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REFERENCE NUMER : 2950~2999



## CPU XDP CONNECTOR



ME DEBUG

INVENTEC

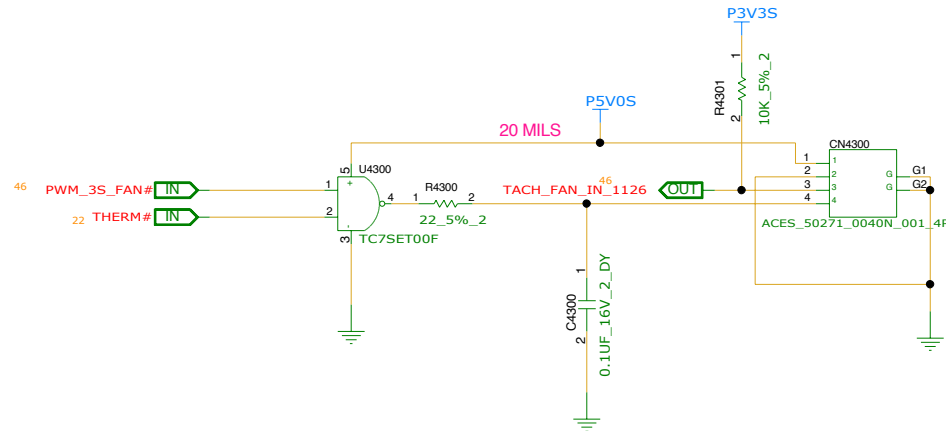
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MODEL PROJECT, FUNCTION  
XDP\_CONN

SIZE CODE DOC NUMBER REV  
A3 CS 1310xxxxx-0-0 X01

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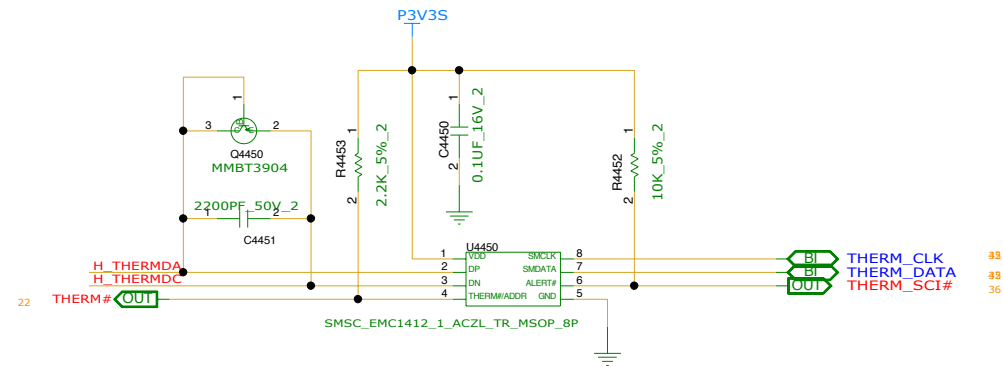
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REFERENCE NUMBER:4400~4349



REFERENCE NUMBER:4450~4499

THERM SENSOR



REFERENCE NUMBER:4411~4449

INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
FAN & THERMAL			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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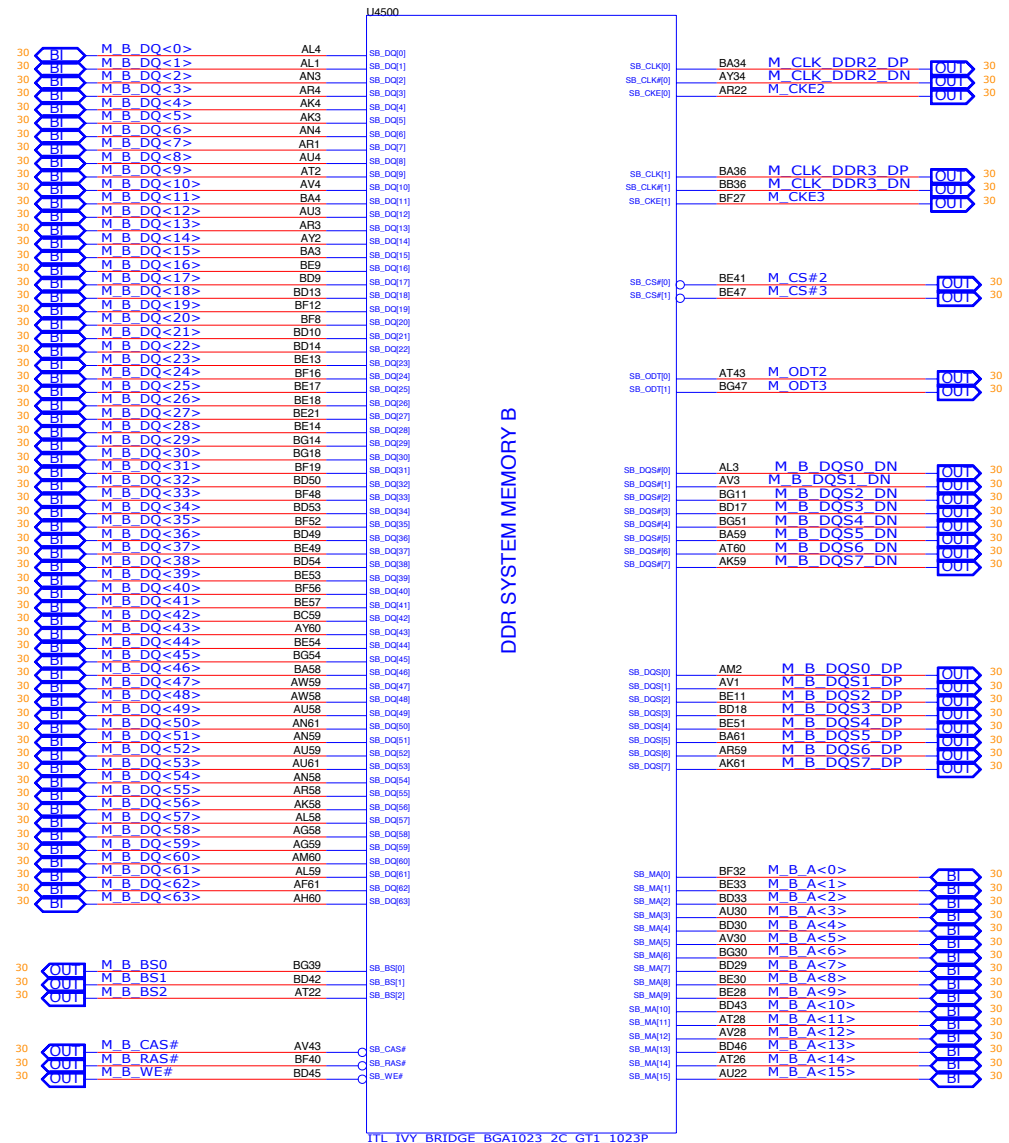
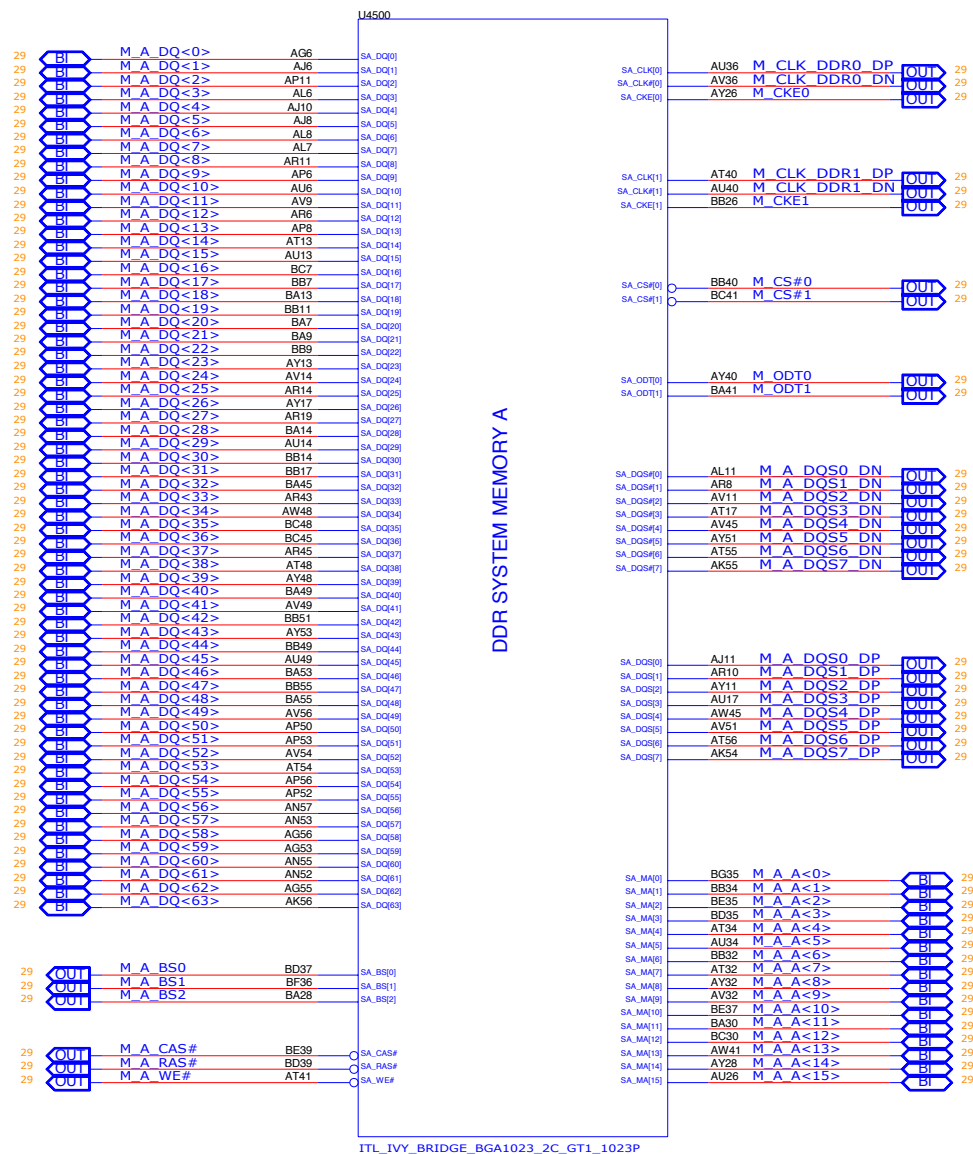


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INVENTEC

TITLE  
MODEL,PROJECT,FUNCTIONSIZE CODE DOC NUMBER REV  
A3 CS 1310xxxxx-0-0 X01

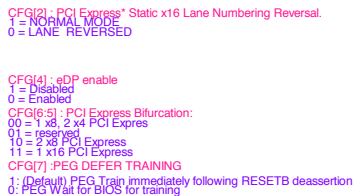
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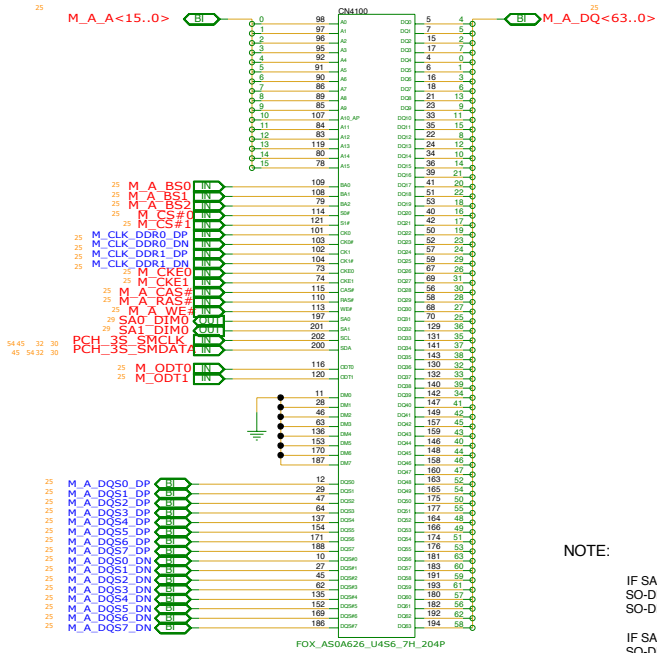
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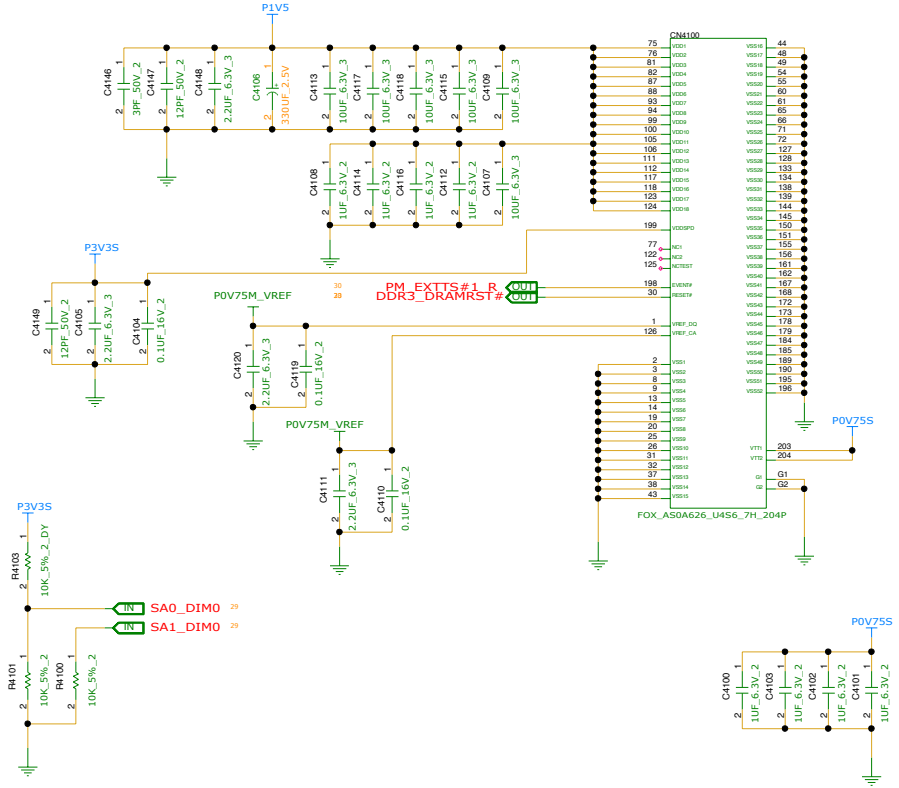




NOTE:

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



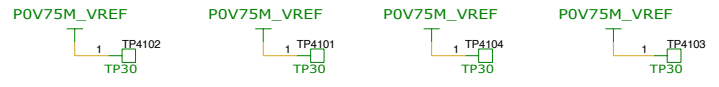
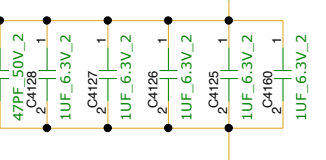
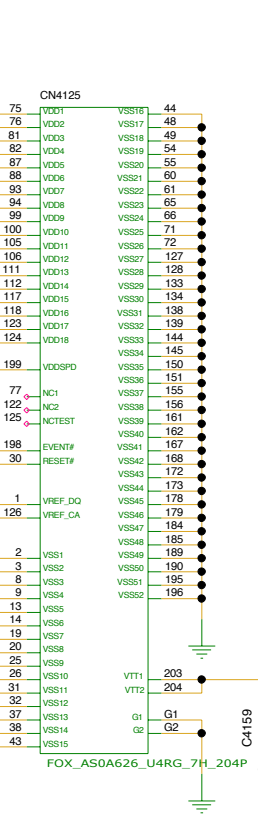
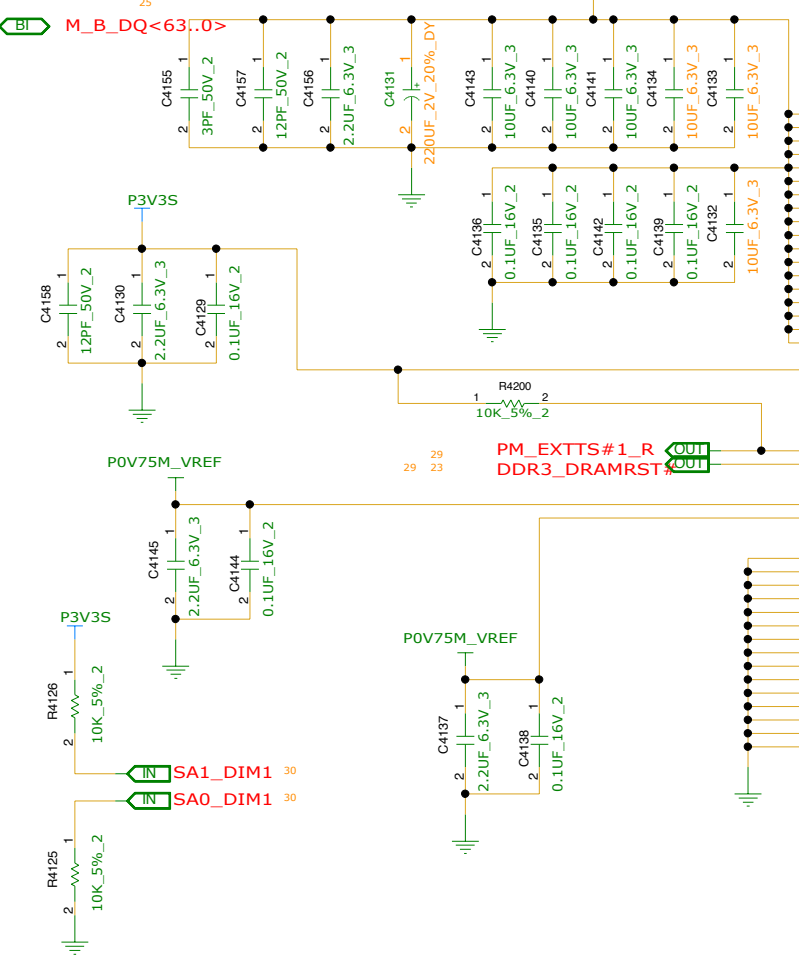
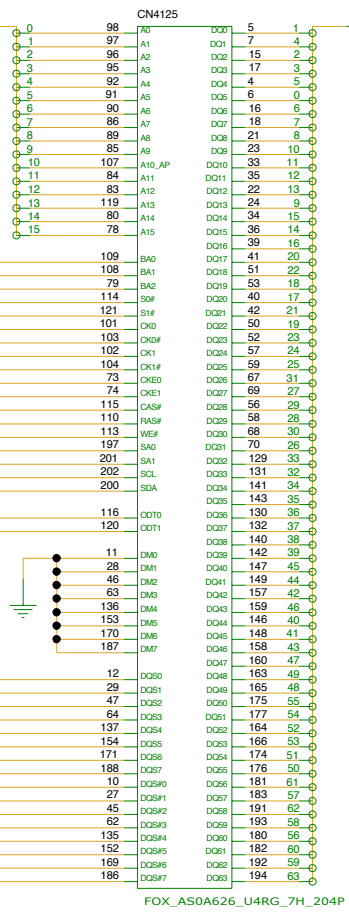
REFERENCE NUMBER:4100~4299

25 M\_B\_A<15..0>

25 M\_B\_BS0  
25 M\_B\_BS1  
25 M\_B\_BS2  
25 M\_CS#2  
25 M\_CS#3  
25 M\_CLK\_DDR2\_DP  
25 M\_CLK\_DDR2\_DN  
25 M\_CLK\_DDR3\_DP  
25 M\_CLK\_DDR3\_DN  
25 M\_CKE#  
25 M\_CKE#2  
25 M\_CKE#3  
25 M\_CAS#  
25 M\_CAS#2  
25 M\_CAS#3  
25 M\_WE#  
25 SA0\_DIM1  
25 SA1\_DIM1  
25 PCH\_3S\_SMCLK  
25 PCH\_3S\_SMDATA  
25 M\_ODT2  
25 M\_ODT3

25 M\_B\_DQS0\_DP  
25 M\_B\_DQS1\_DP  
25 M\_B\_DQS2\_DP  
25 M\_B\_DQS3\_DP  
25 M\_B\_DQS4\_DP  
25 M\_B\_DQS5\_DP  
25 M\_B\_DQS6\_DP  
25 M\_B\_DQS7\_DP  
25 M\_B\_DQS0\_DN  
25 M\_B\_DQS1\_DN  
25 M\_B\_DQS2\_DN  
25 M\_B\_DQS3\_DN  
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25 M\_B\_DQS5\_DN  
25 M\_B\_DQS6\_DN  
25 M\_B\_DQS7\_DN

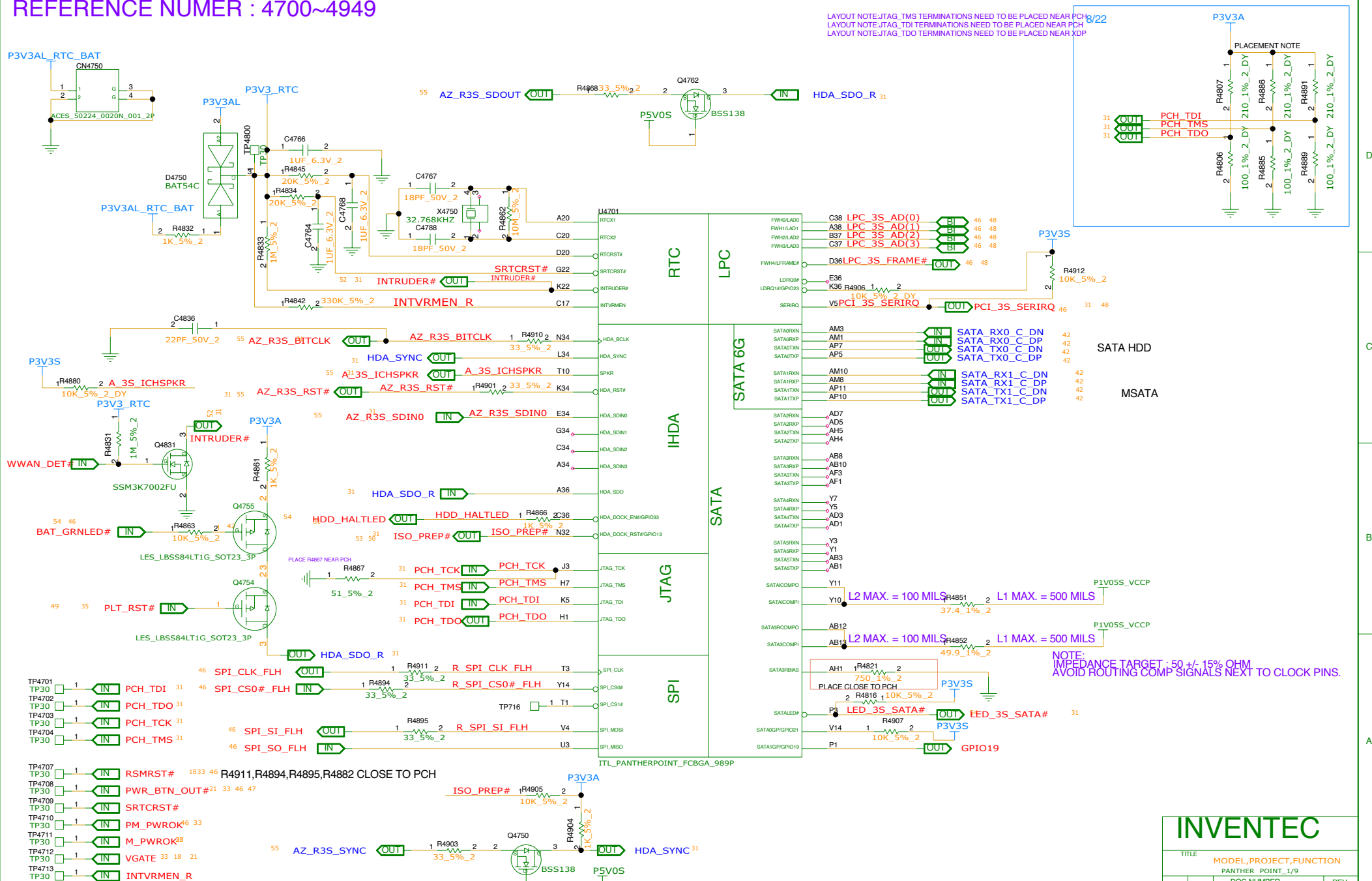
NOTE:  
SO-DIMMB SPD ADDRESS IS 0XA4  
SO-DIMMB TS ADDRESS IS 0X34



REFERENCE NUMBER:4100~4299

INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
DDR3_SO_DIMM1			
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INVENTEC			
TITLE PANTHER_PROJECT_FUNCTION PANTHER_POINT_1/9			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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CHANGE by XXX

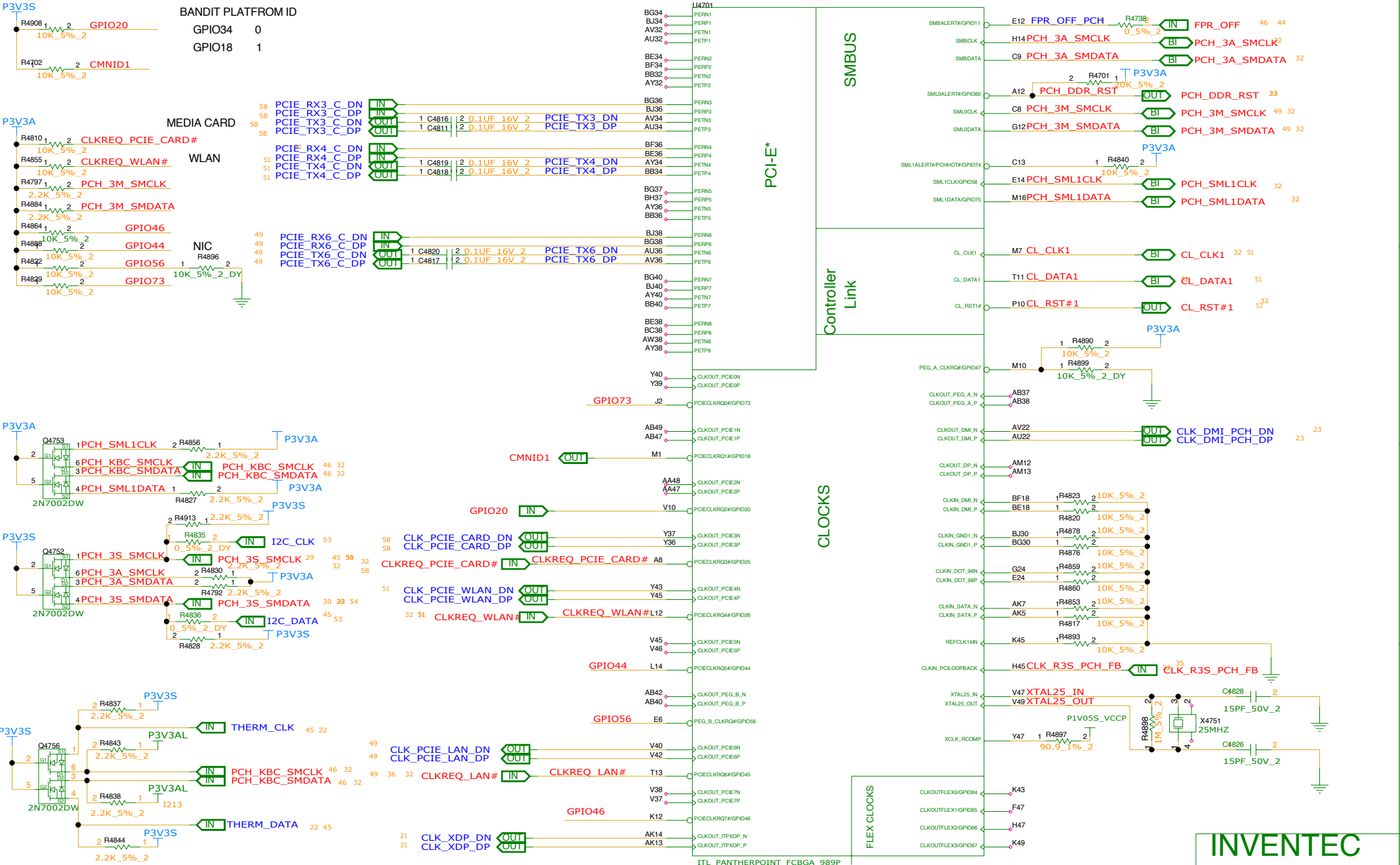
DATE	21-OCT-2002
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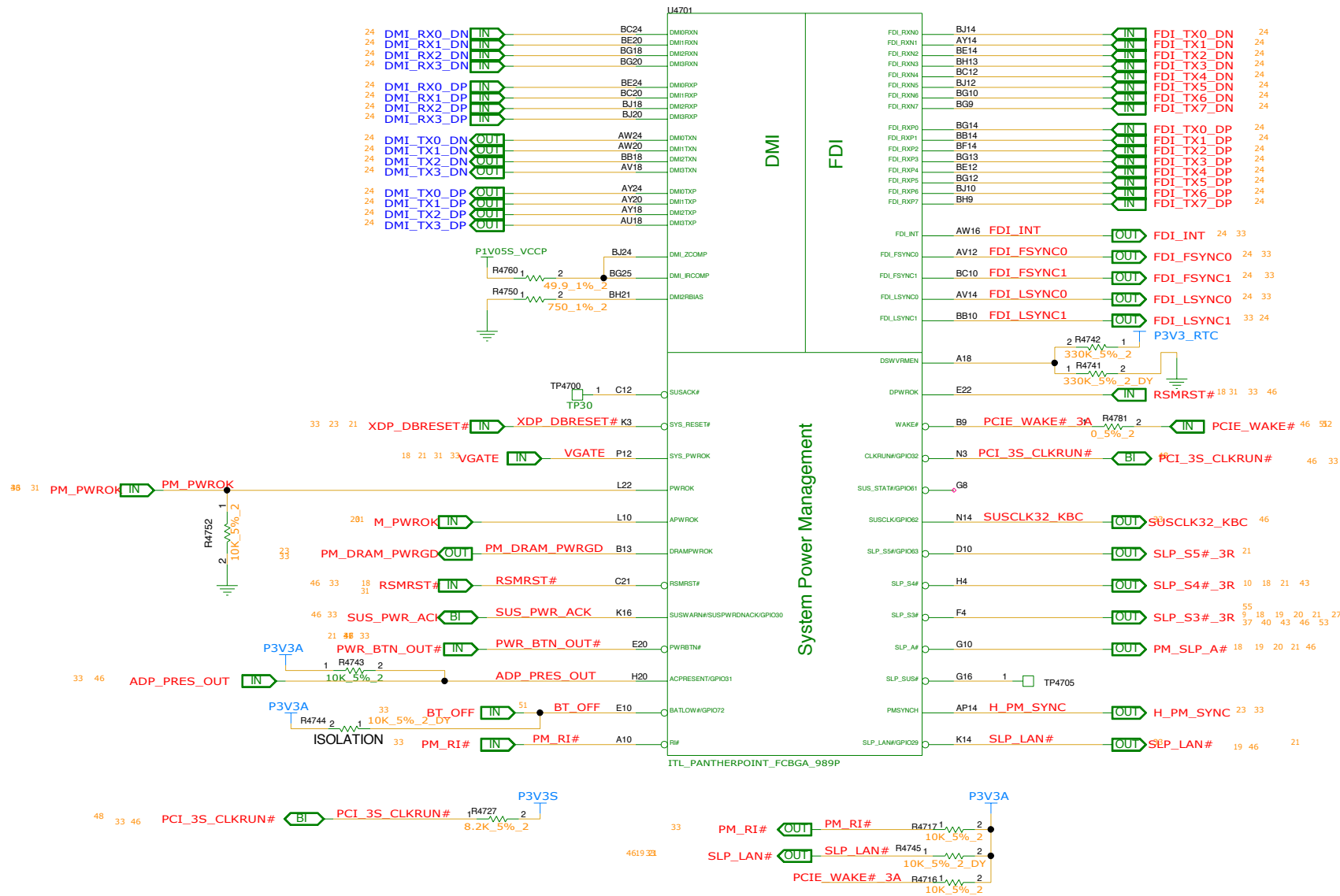
REFERENCE NUMBER : 4700~4949



INVENTEC			
TITLE			
PANTHER POINT 2/9			
MODEL PROJECT,FUNCTION			
DOC NUMBER			
1310xxxxx-0-0			
REV			
X01			
SIZE	CODE	SHEET	
A3	CS	32 of 64	



- 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



## System Power Management

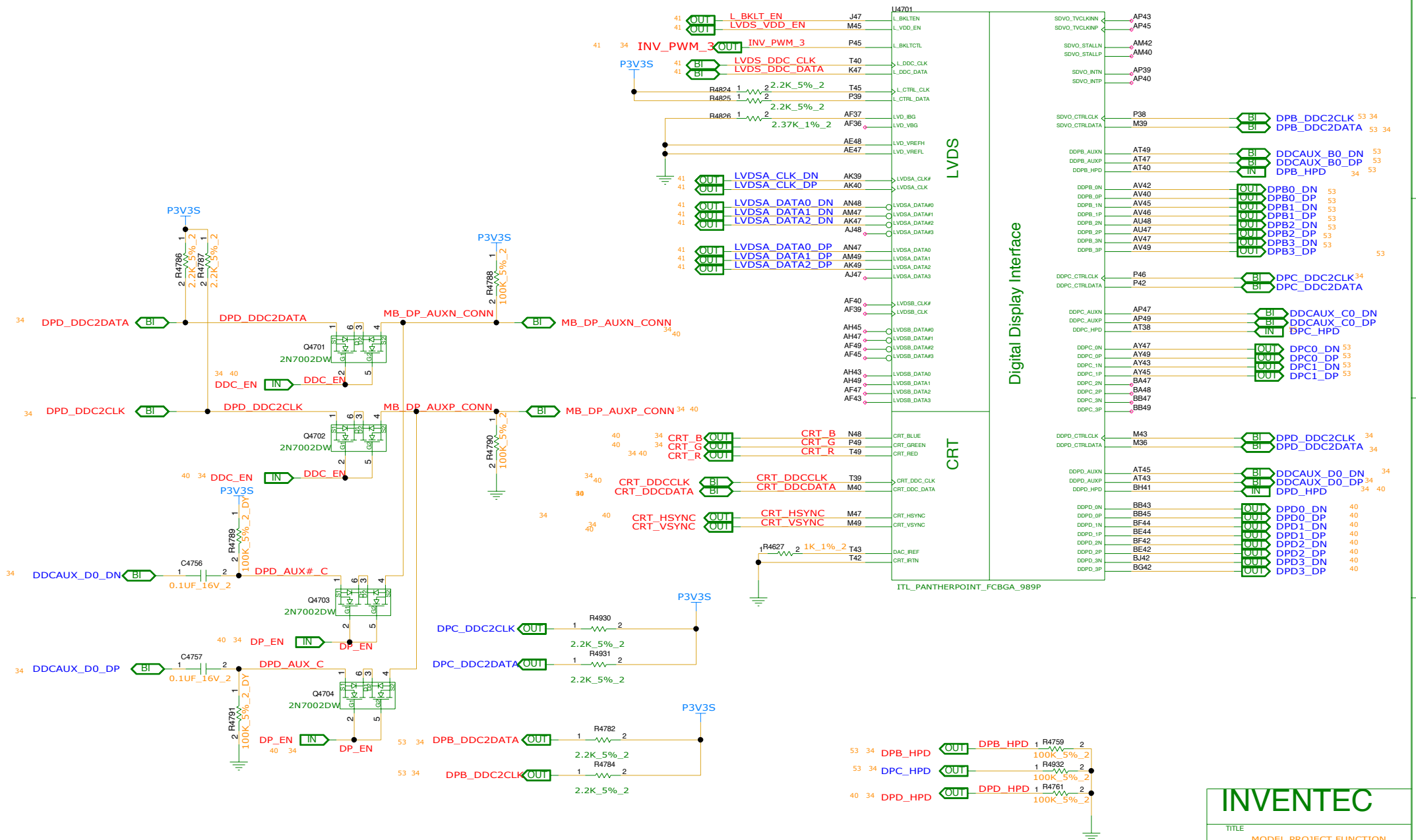
# INVENTEC

TITLE	MODEL,PROJECT,FUNCTION
	PANTHER POINT_3/9

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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# INVENTEC

TITLE	MODEL PROJECT FUNCTION
1. <b>Project Overview</b>	1. <b>Project Overview</b>
2. <b>Project Objectives</b>	2. <b>Project Objectives</b>
3. <b>Project Scope</b>	3. <b>Project Scope</b>
4. <b>Project Organization</b>	4. <b>Project Organization</b>
5. <b>Project Schedule</b>	5. <b>Project Schedule</b>
6. <b>Project Budget</b>	6. <b>Project Budget</b>
7. <b>Project Risks</b>	7. <b>Project Risks</b>
8. <b>Project Communication</b>	8. <b>Project Communication</b>
9. <b>Project Monitoring and Control</b>	9. <b>Project Monitoring and Control</b>
10. <b>Project Closure</b>	10. <b>Project Closure</b>

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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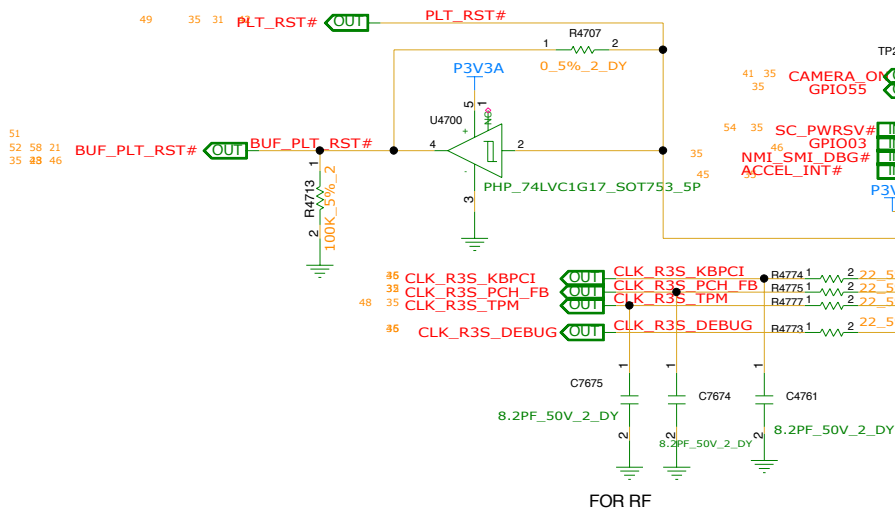
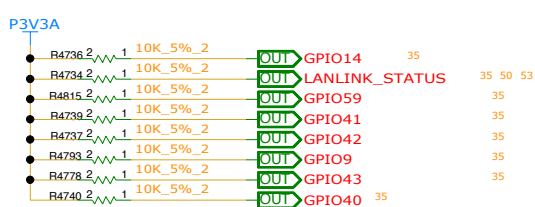
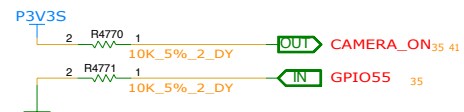
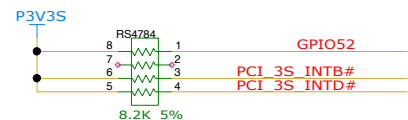
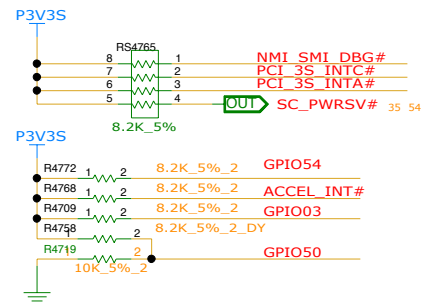
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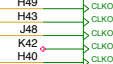
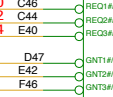
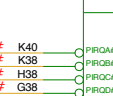
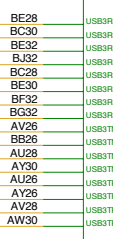
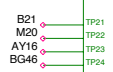
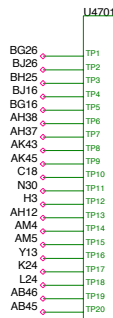
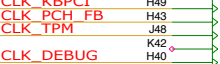
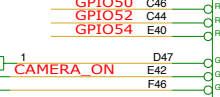
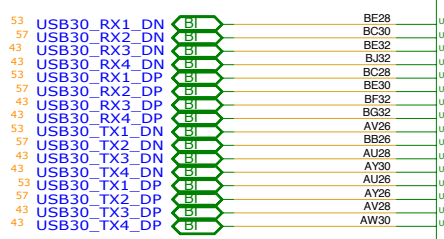


PORT1:DOCKING

PORT2:LEFT USB2.0(CHARGE PORT)+USB3.0

PORT3:RIGHT1 USB2.0+USB3.0

PORT4:RIGHT2 USB2.0+USB3.0



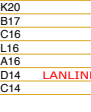
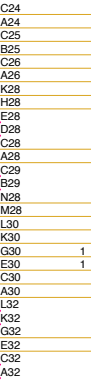
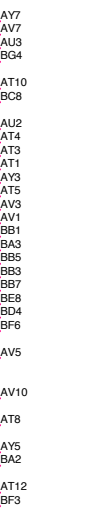
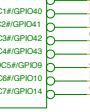
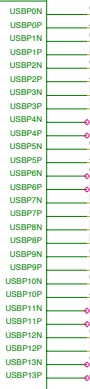
ITL\_PANTHERPOINT\_FCBGA\_989P

RSVD

NVRAM

PCI

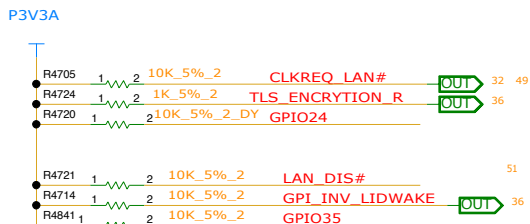
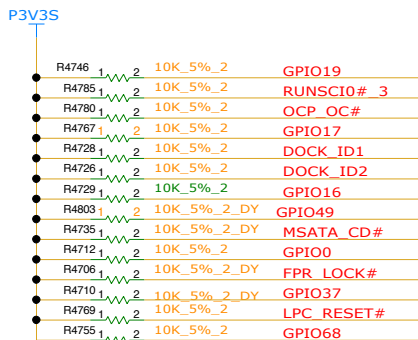
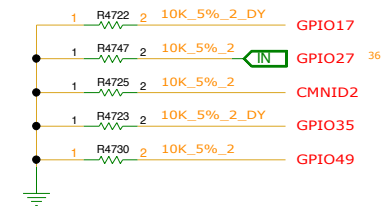
USB



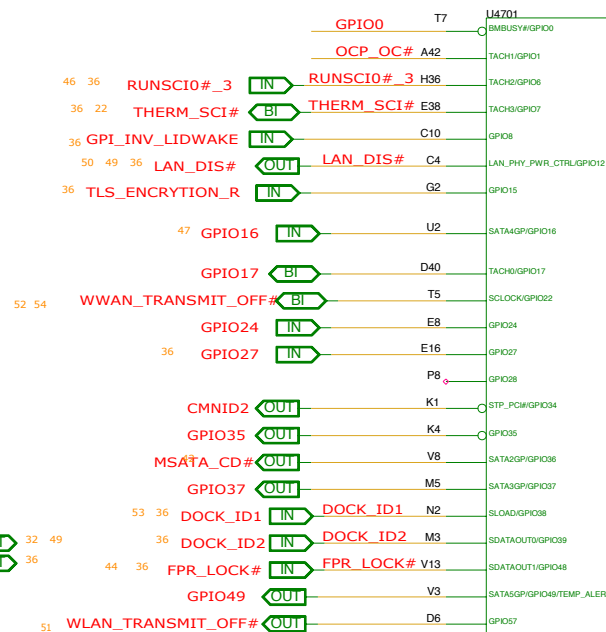
INVENTEC

TITLE			
MODEL/PROJECT/FUNCTION			
PANTHER POINT_5/6			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01
SHEET 35 of 64			

# REFERENCE NUMBER : 4700~4949



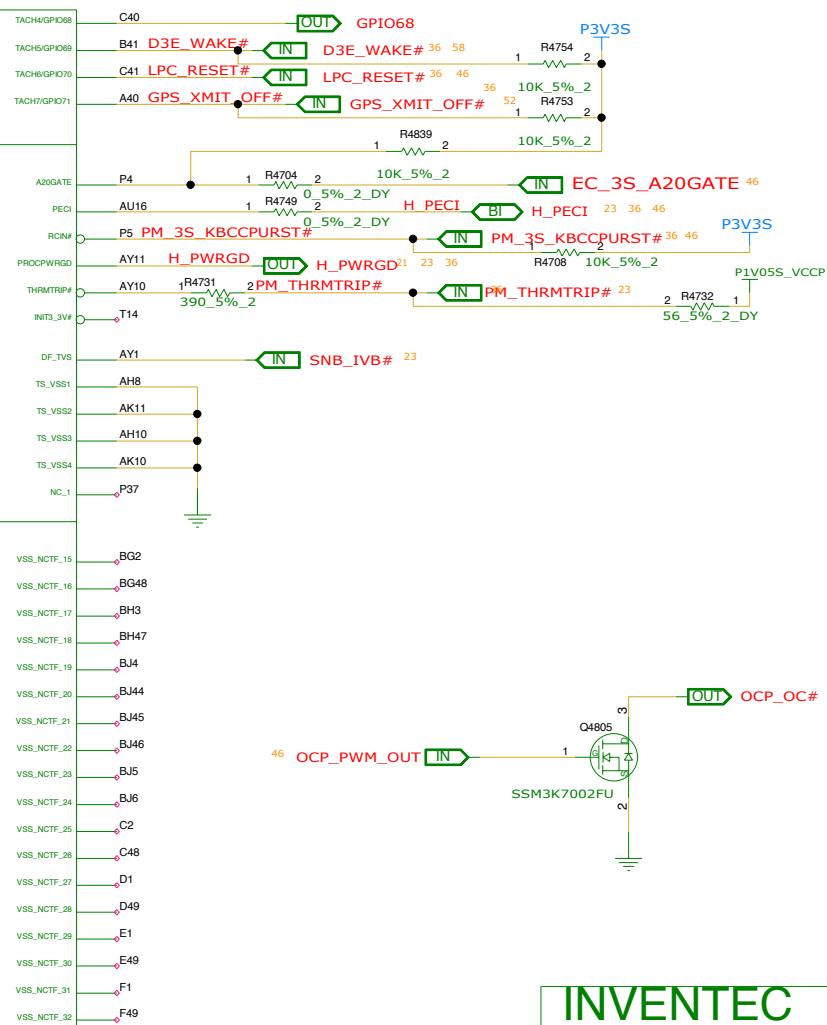
GPIO17	GPIO35	GPIO49	GPIO50	
R4767	R4841	R4803	R4758	H
R4722	R4723	R4730	R4719	L
0	1	0	0	SI 1
0	1	0	1	SI 1B
0	1	1	0	SI 2
1	0	0	0	PV 1
1	1	0	0	MV



GPIO

CPU/MISC

NCTF

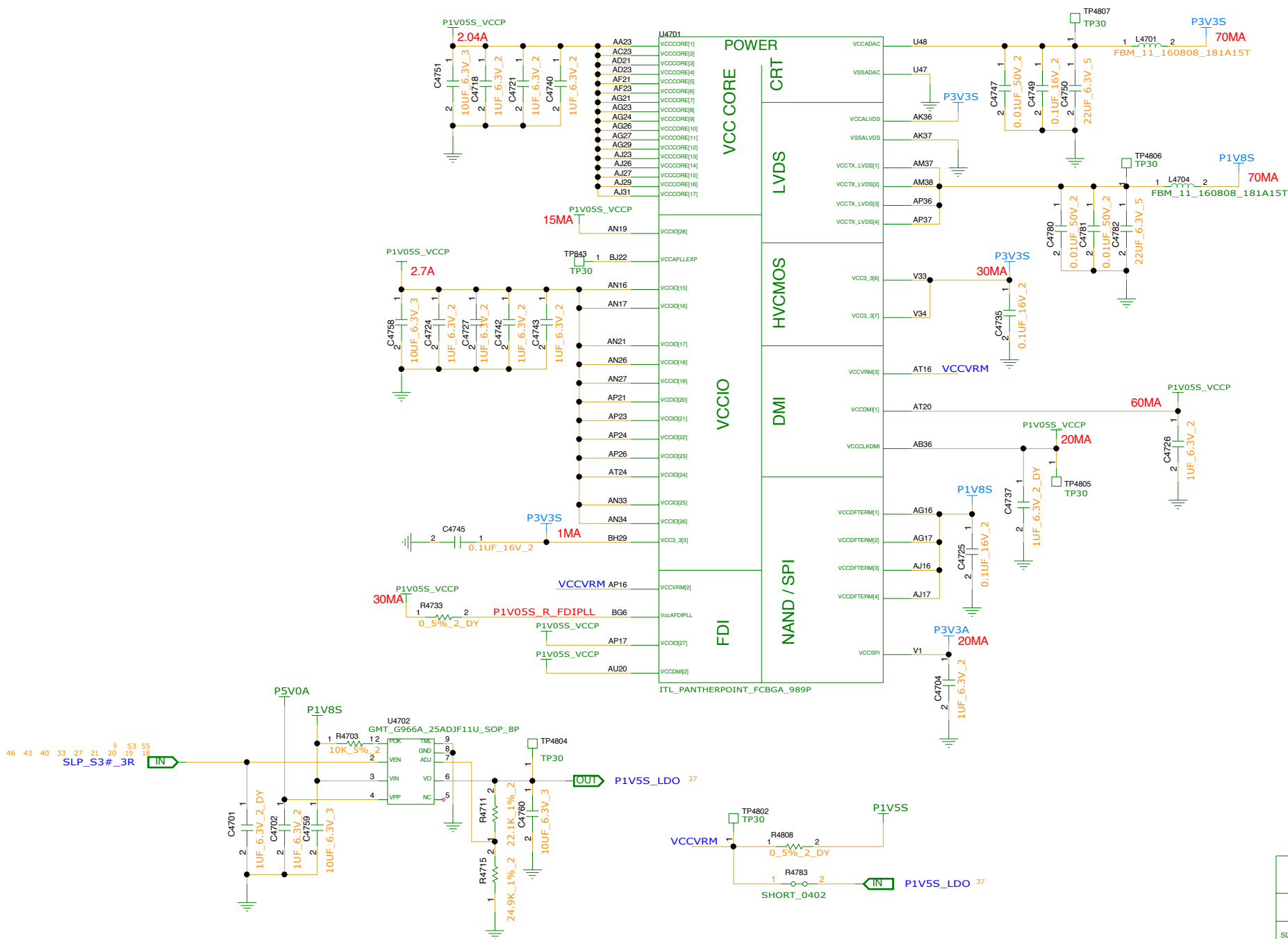


INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
PANTHER POINT_6/9			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002 SHEET 36 of 64

REFERENCE NUMBER : 4700~4949



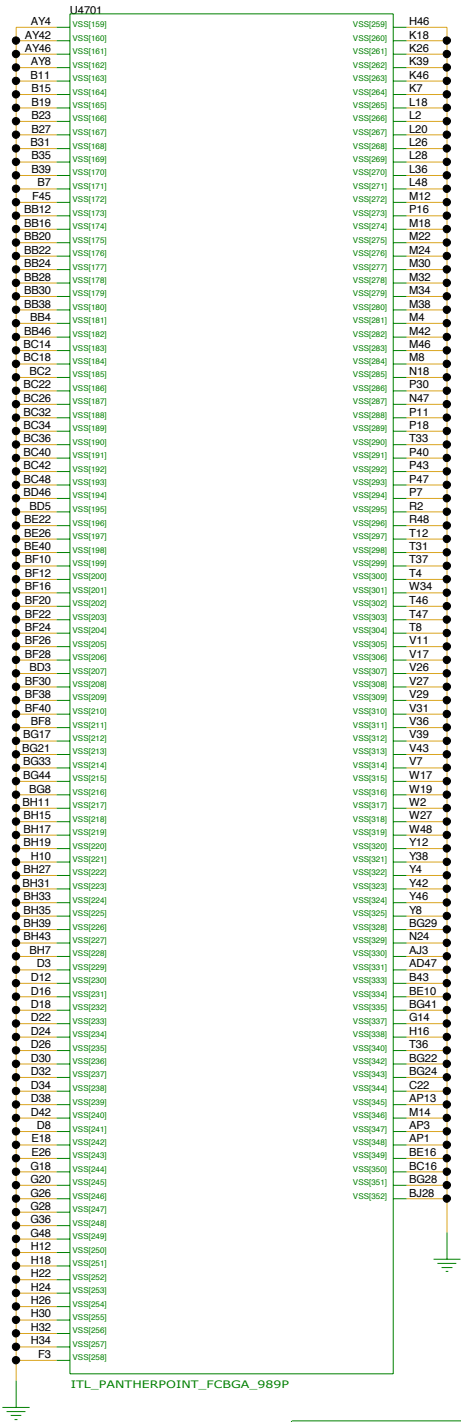
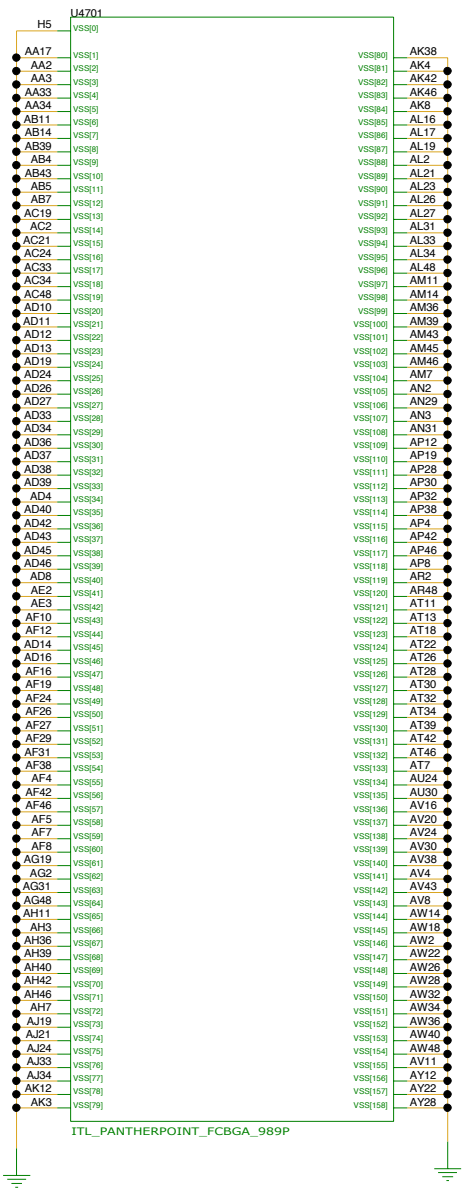
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION PANTHER POINT 7/9			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 37 of 64			

CHANGE by	XXX	DATE	21-OCT-2002
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REFERENCE NUMBER : 4700~4949

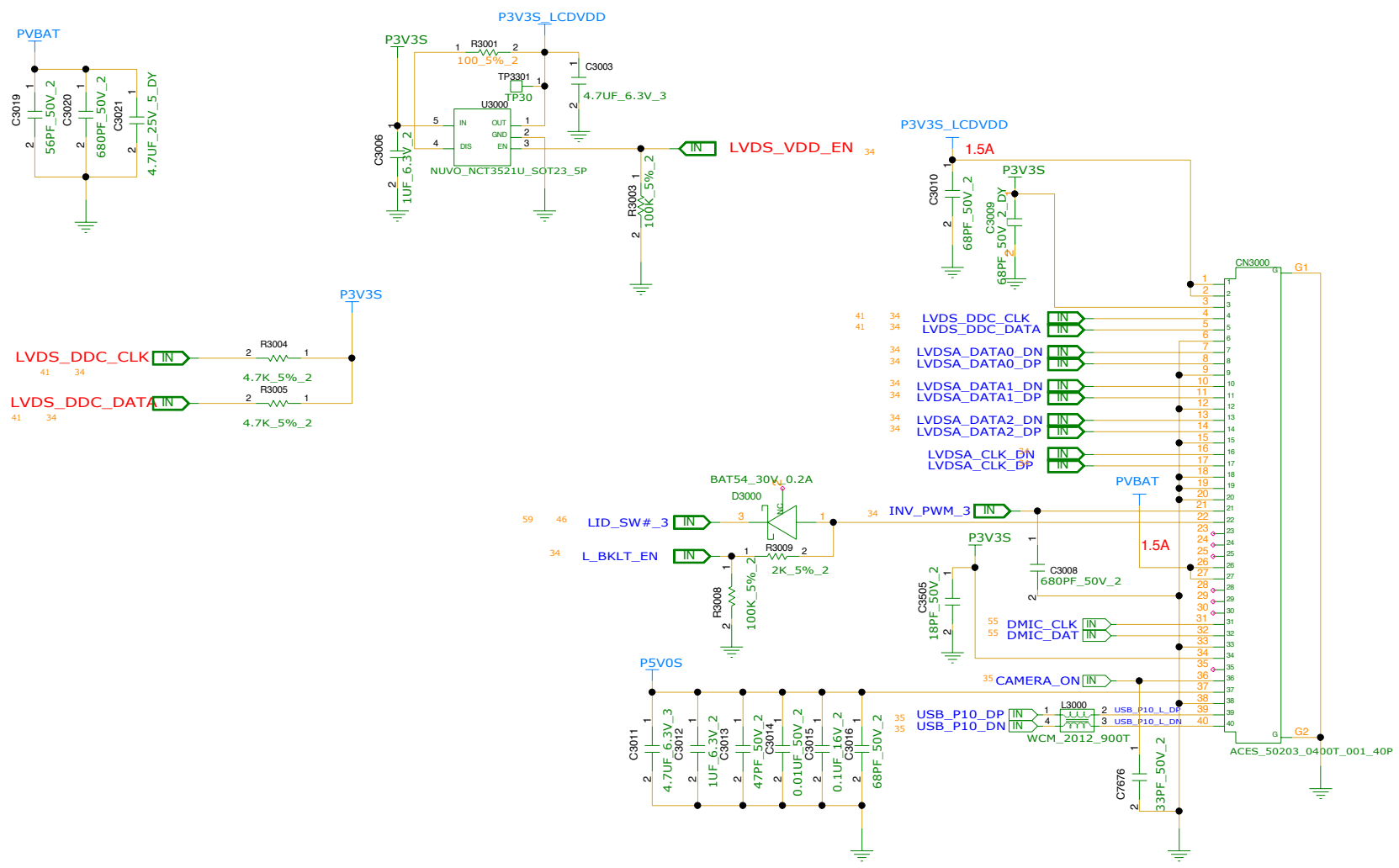


INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
PANTHER POINT 3/9			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 39 of 64			







REFERENCE NUMBER:3000~3049

INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
LCM & WEBCAM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by

XXX

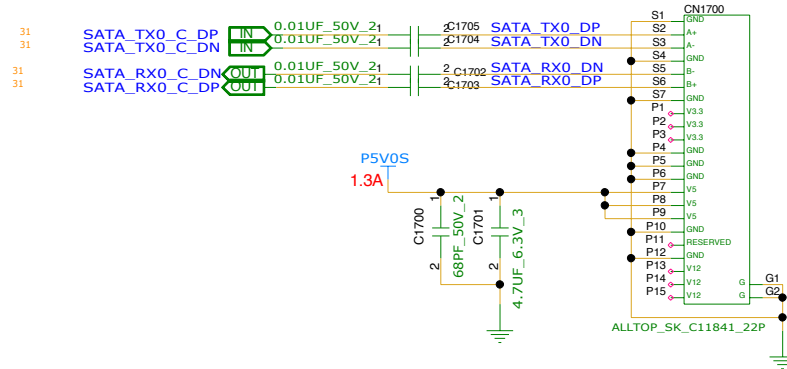
DATE

21-OCT-2002

SHEET

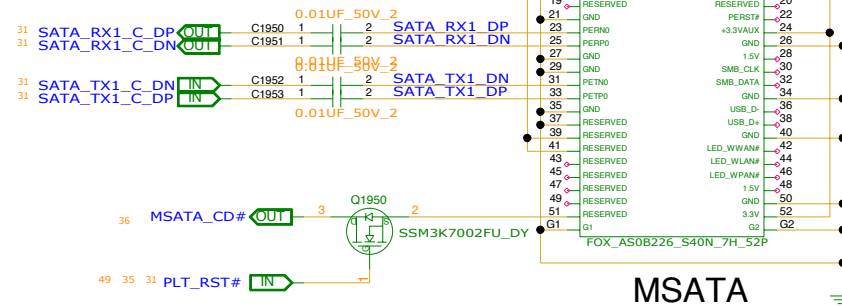
41 of 64

REFERENCE NUMBER:1700~1749



SATA HDD

NOTE : SWAP SATA\_RXP2 AND SATA\_RXN2 ON CN1950 PIN 23 AND 25 FOR INTEL SSD 310 SERIES PRODUCT PINDEFINTION



MSATA

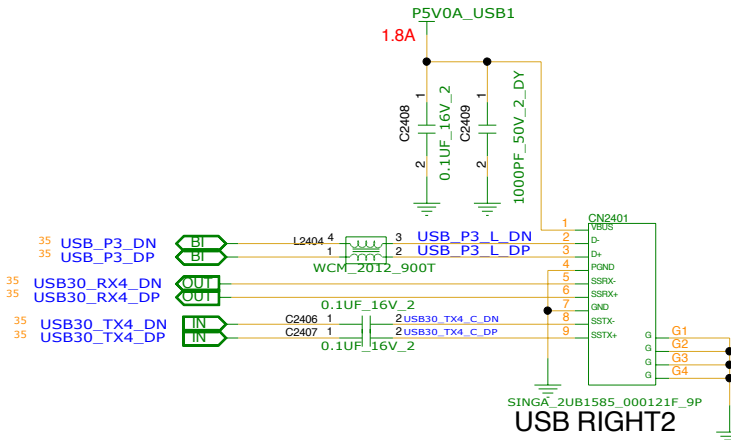
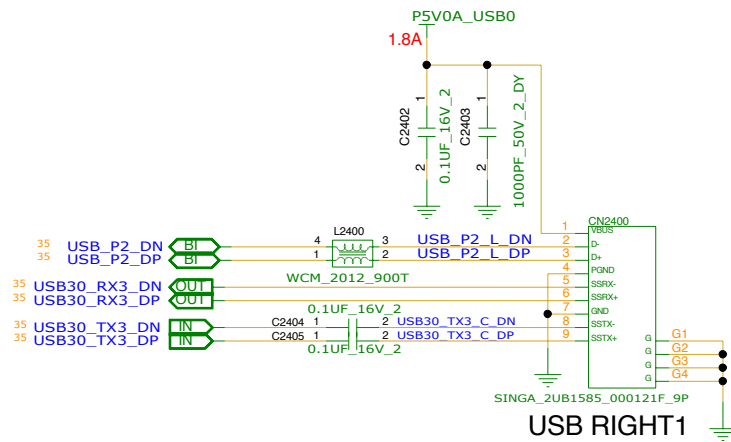
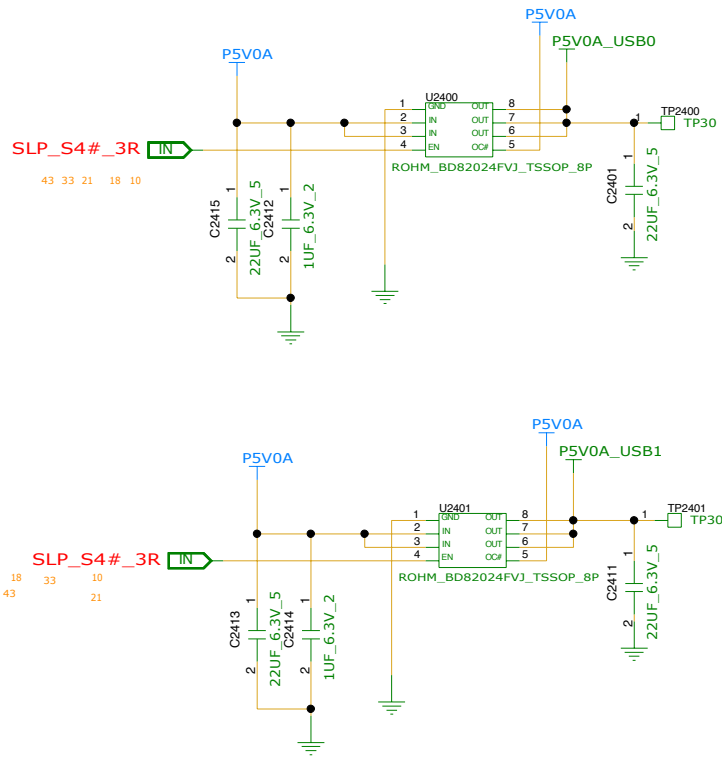
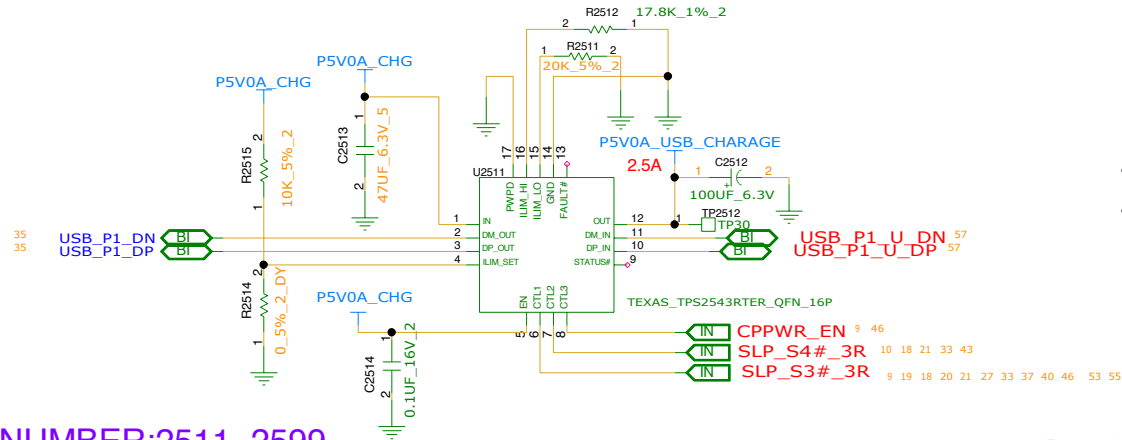
REFERENCE NUMBER:1950~1999

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION SATA HDD & M-SATA CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 42 of 64

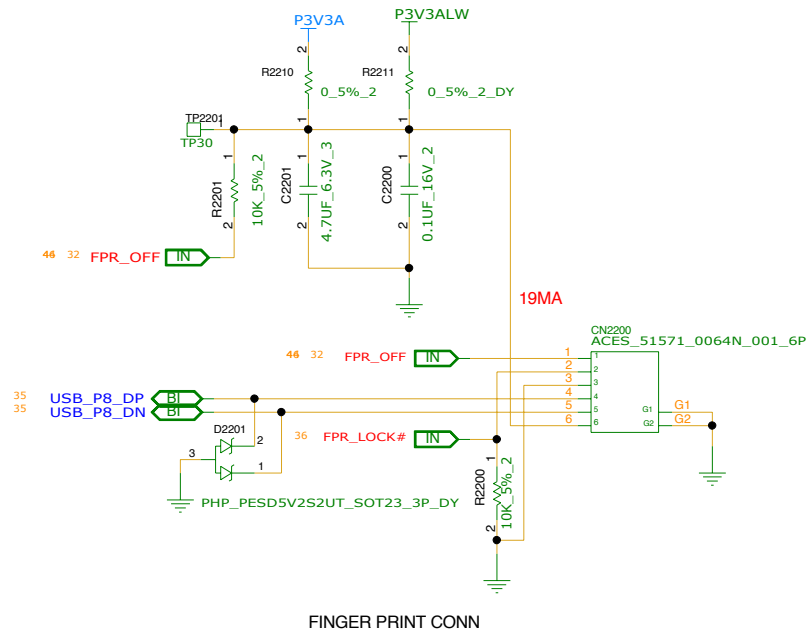
REFERENCE NUMBER:2511~2599



REFERENCE NUMBER:2400~2499

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
USB & USB CHARGER			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01
SHEET 43 of 64			

CHANGE by XXX DATE 21-OCT-2002

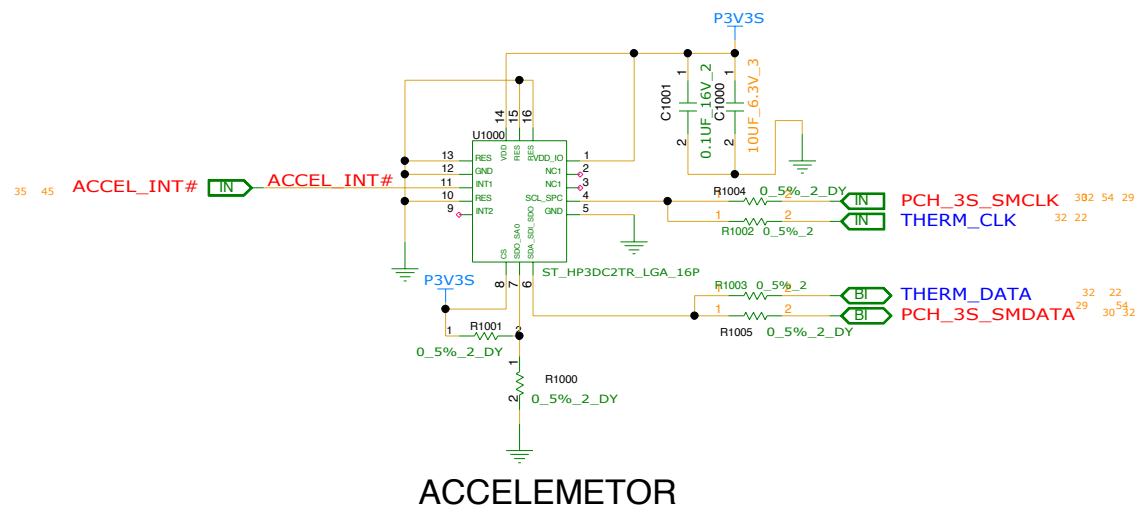


REFERENCE:2200~2249

INVENTEC

TITLE			
MODEL PROJECT FUNCTION FINGER PRINTER CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 44 of 64			

CHANGE by XXX DATE 21-OCT-2002



REFERENCE NUMER : 1000~1099

INVENTEC

TITLE MODEL PROJECT,FUNCTION  
ACCELEMETOR

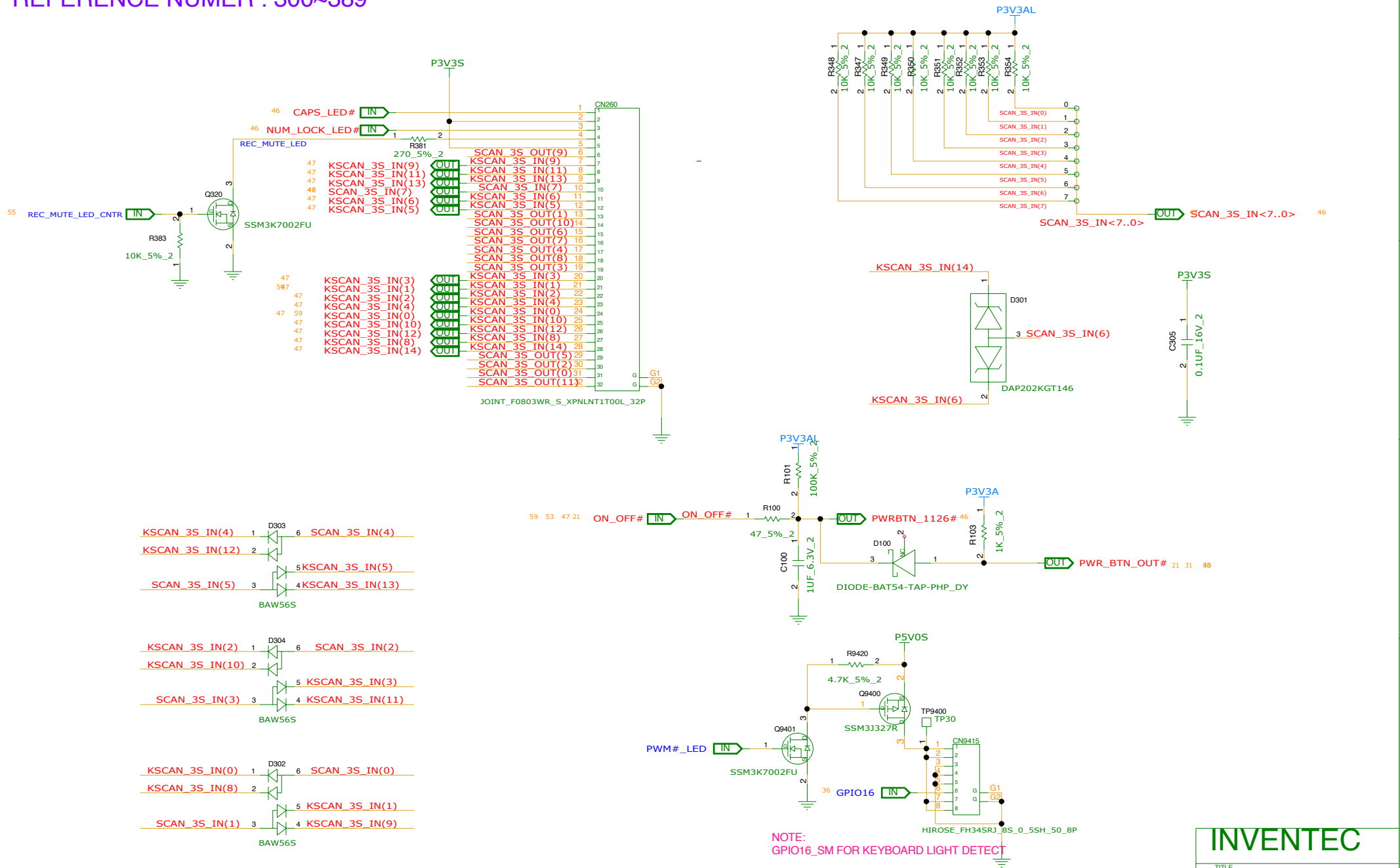
SIZE CODE DOC NUMBER REV  
A3 CS 1310xxxxx-0-0 X01

SHEET 45 of 64

CHANGE by XXX DATE 21-OCT-2002

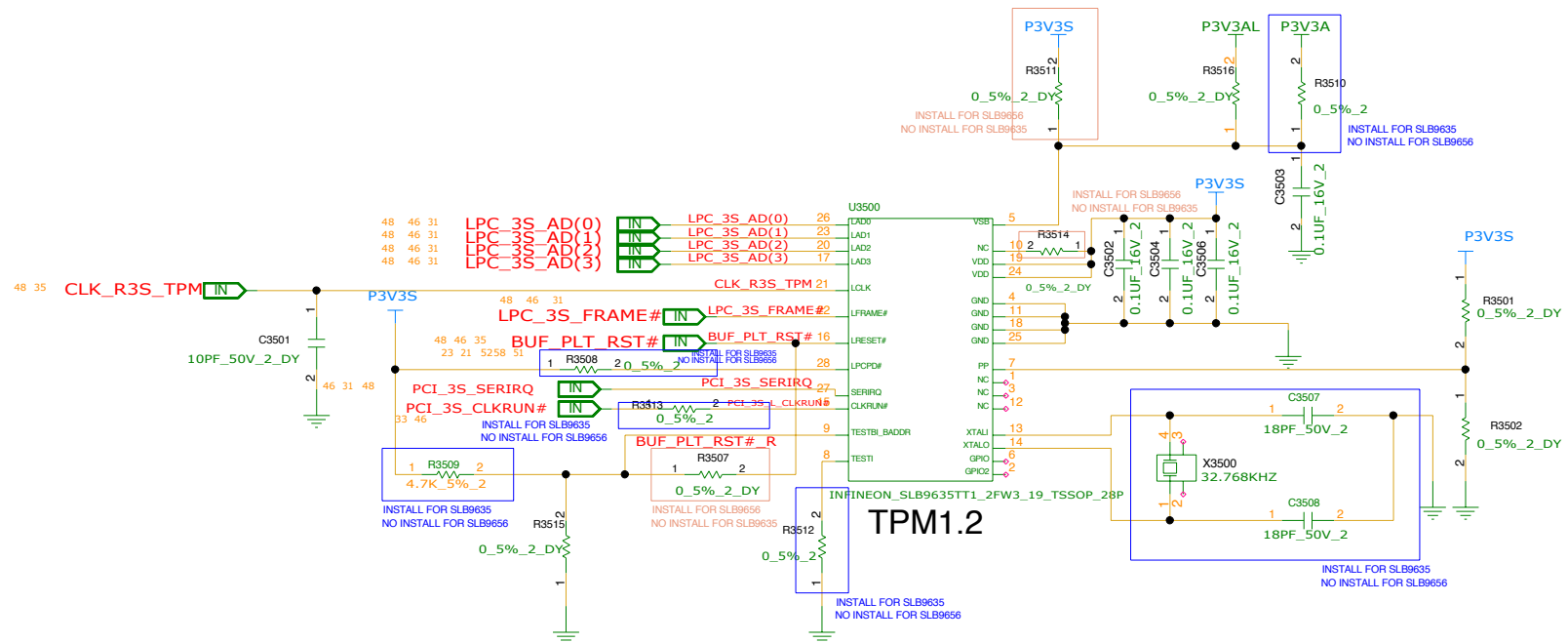


REFERENCE NUMER : 300~389



KEYBOARD BACK LIGHT CNTR

INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION KEYBOARD			
SIZE A3	CODE CS	DOC.NUMBER	REV
		1310xxxxx-0-0	X01
SHEET 47 of 64			



SLB9656TT1.2 SLB9635TT1.2

R3507	INSTALL	OPEN
R3508	OPEN	INSTALL
R3509	OPEN	INSTALL
R3510	OPEN	INSTALL
R3511	INSTALL	OPEN
R3512	OPEN	INSTALL
R3513	OPEN	INSTALL
R3514	INSTALL	OPEN
X3500	OPEN	INSTALL
C3507	OPEN	INSTALL
C3508	OPEN	INSTALL

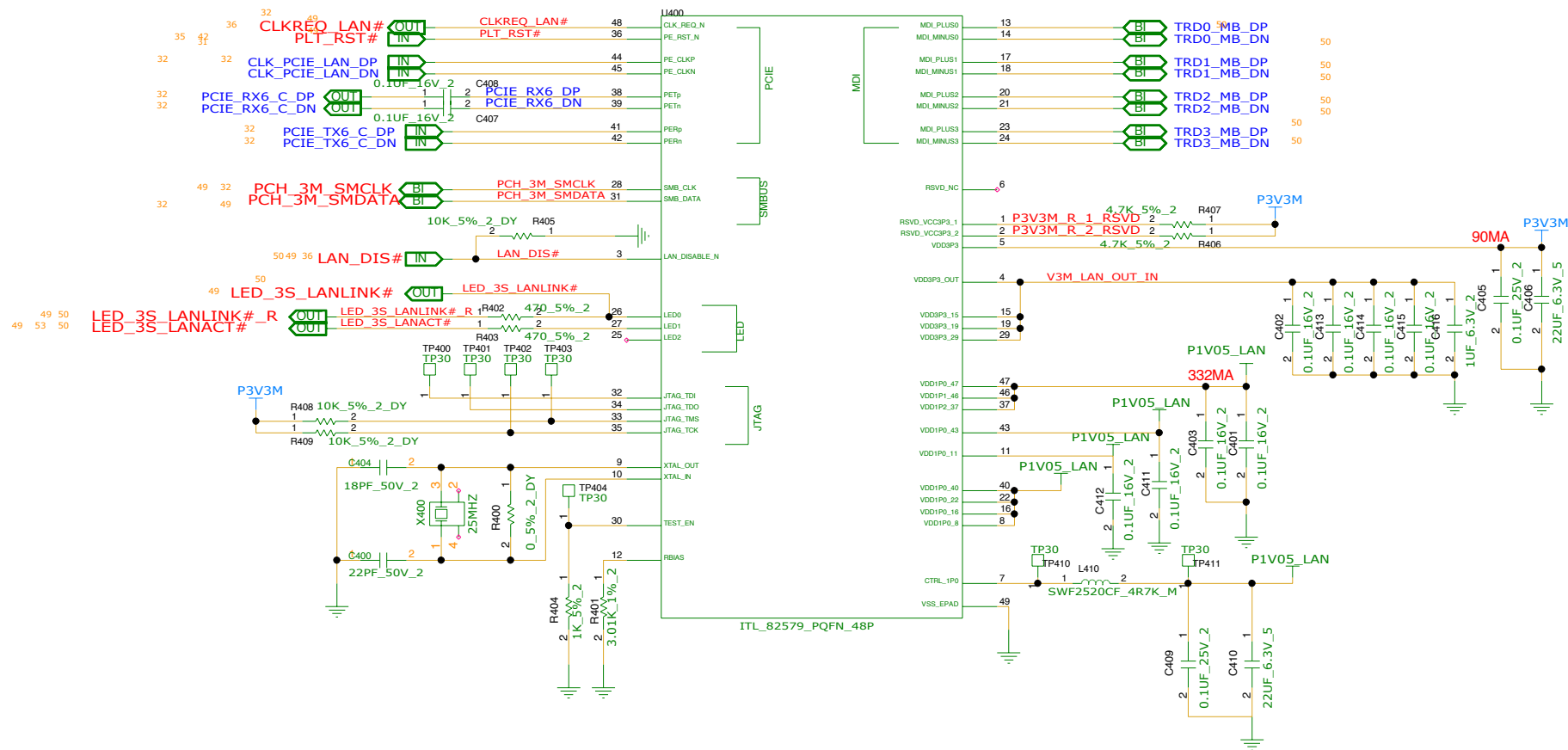
REFERENCE NUMER : 3500~3549

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
TPM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01
SHEET 48 of 64			



REFERENCE NUMER : 400~469



INVENTEC

TITLE  
MODEL,PROJECT,FUNCTION  
LAN

DOC NUMBER  
1310xxxxx-0-0

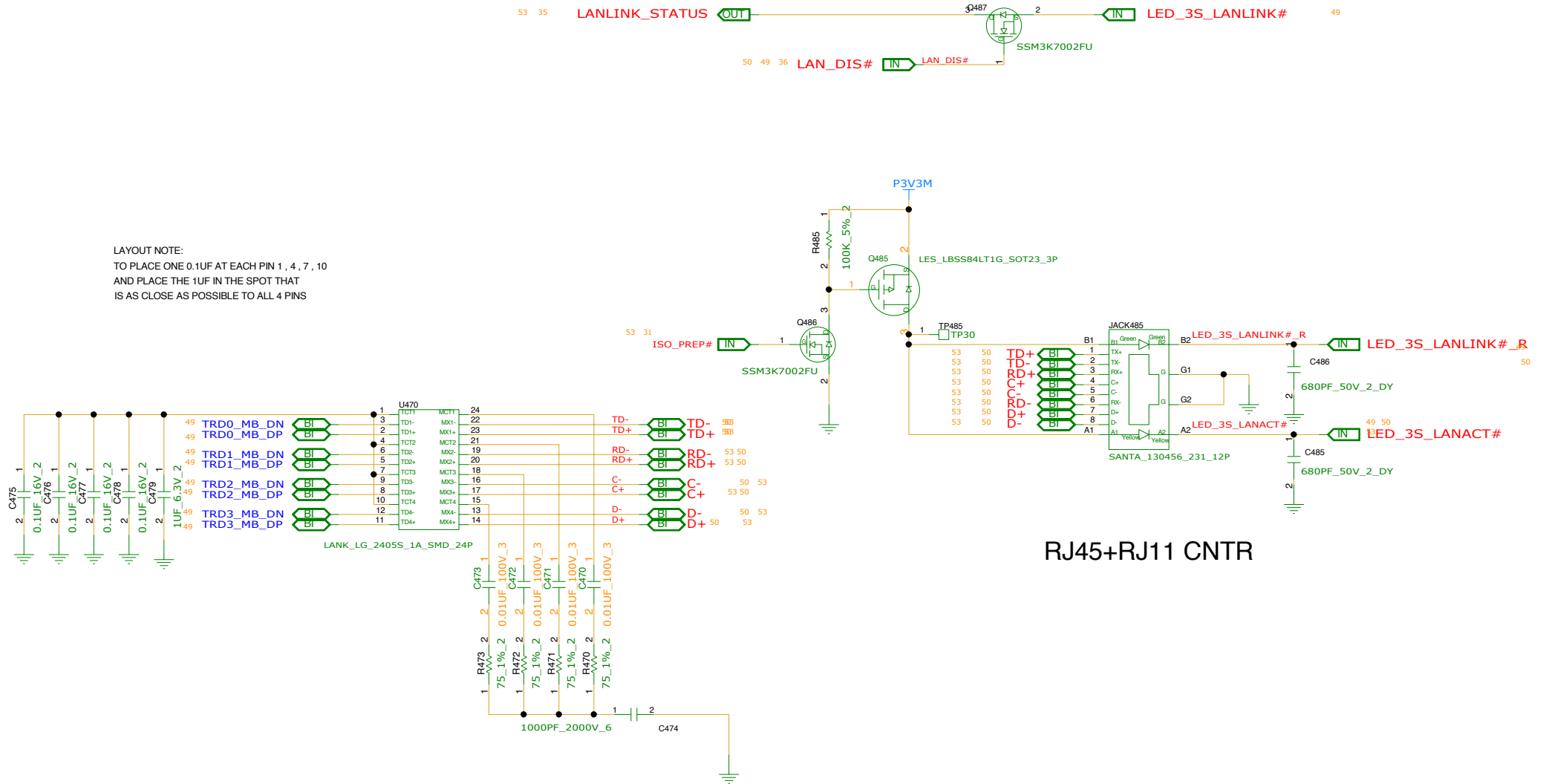
REV  
X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 49 of 64

# 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



RJ45+RJ11 CNTR

INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
LAN RJ45+RJ11			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01
SHEET 50 of 64			

CHANGE by XXX DATE 21-OCT-2002



# SIM CARD

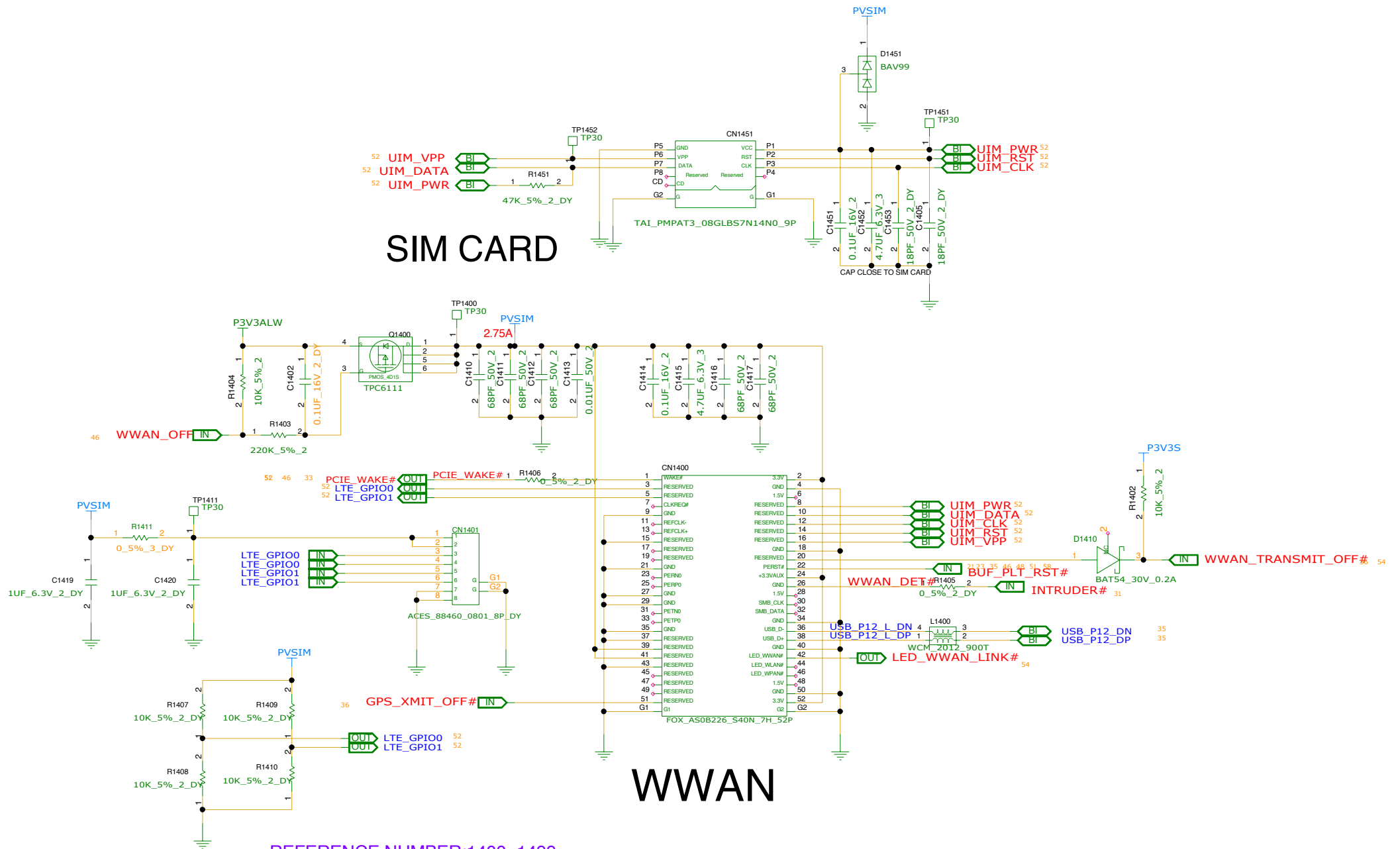
# WWAN

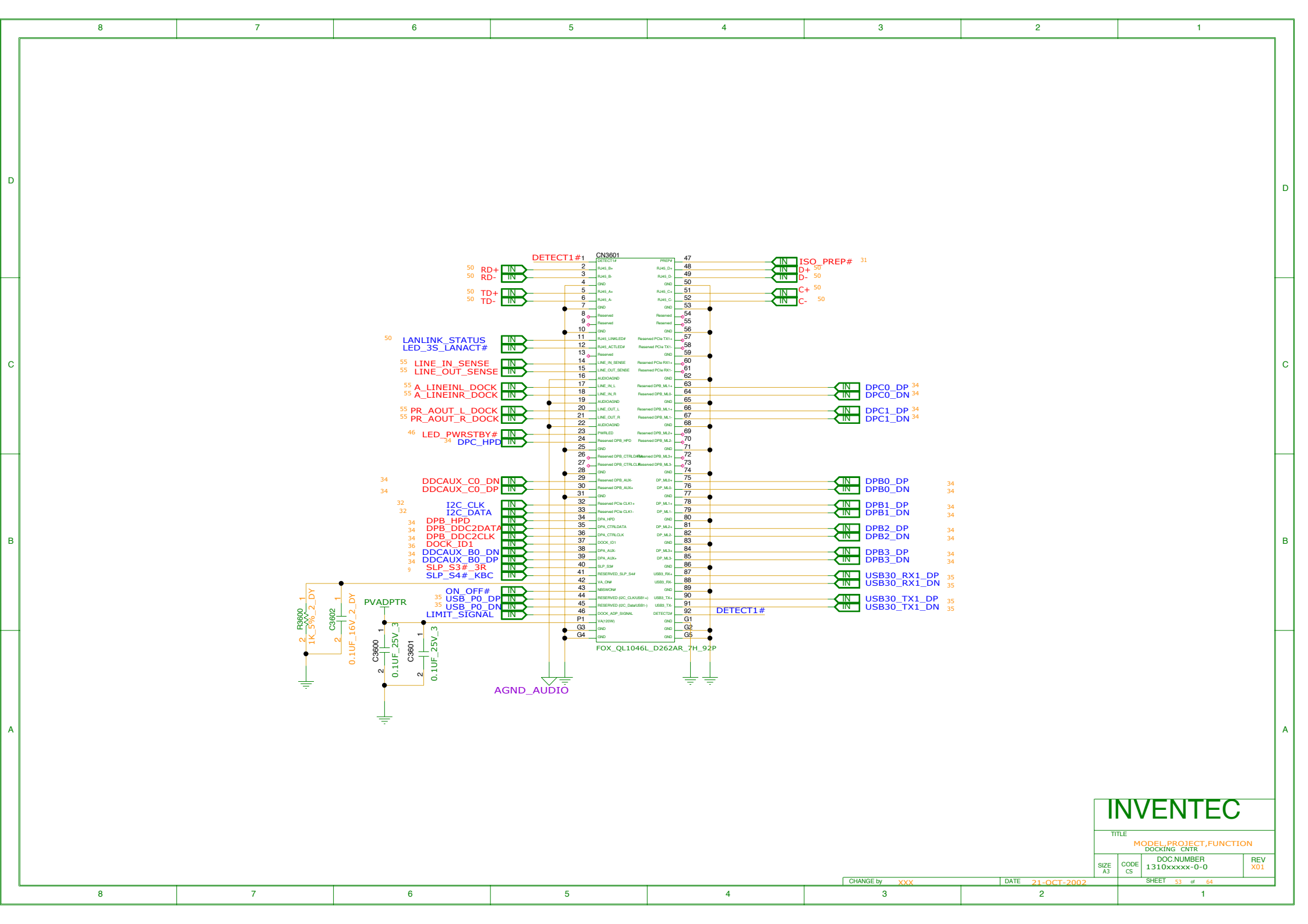
REFERENCE NUMBER:1400~1499

INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
WWAN & SIM CARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 52 of 64			

CHANGE by XXX DATE 21-OCT-2002





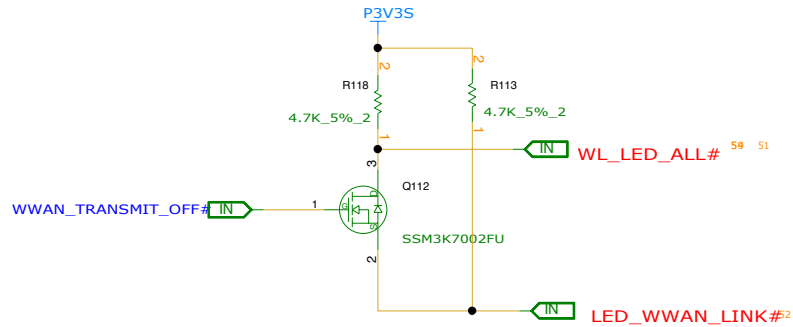
INVENTEC

TITLE  
MODEL PROJECT,FUNCTION  
DOCKING CNTR

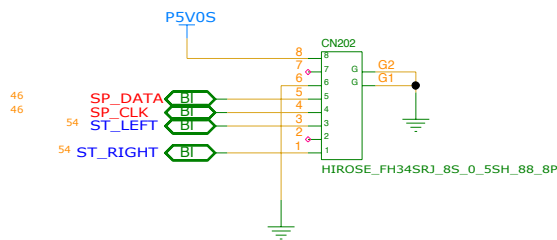
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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SHEET 53 of 64

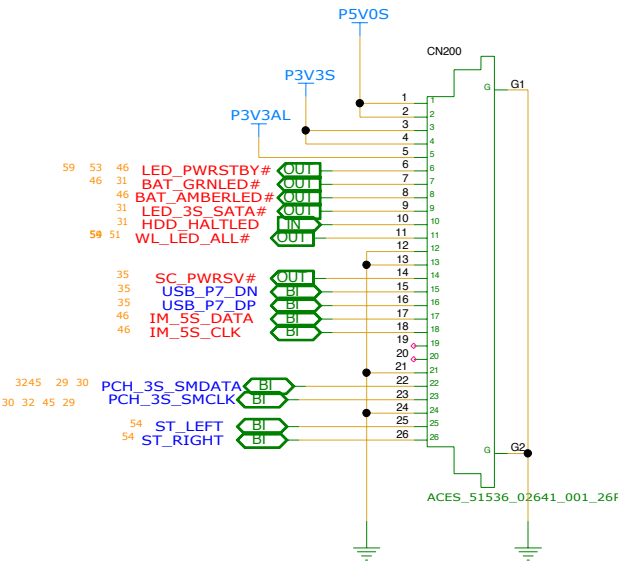
CHANGE by XXX DATE 21-OCT-2002



WLAN\_WWAN\_BLUETOOTH\_LED



POINT STICK

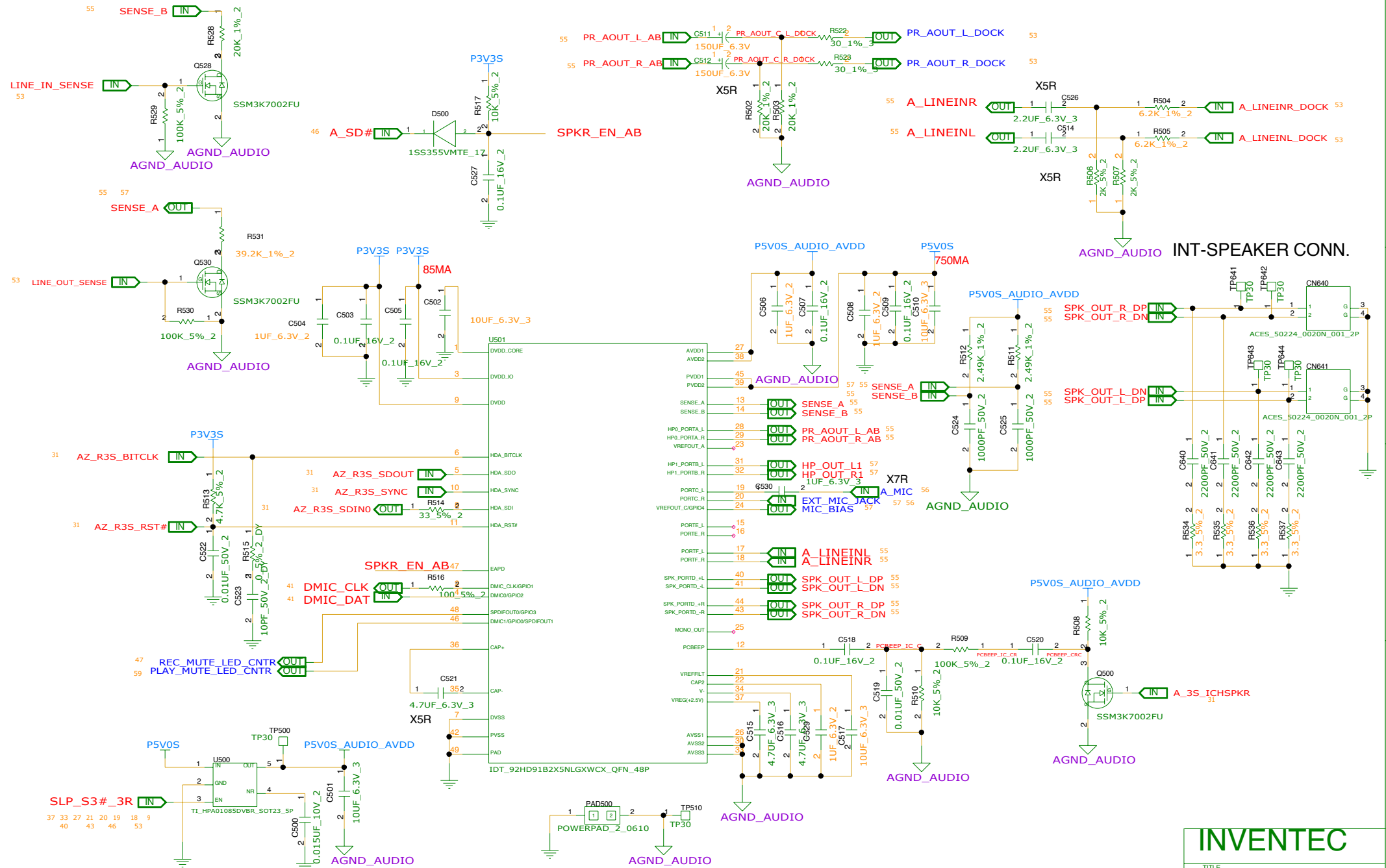


SMART CARD

REFERENCE NUMBER:100~199

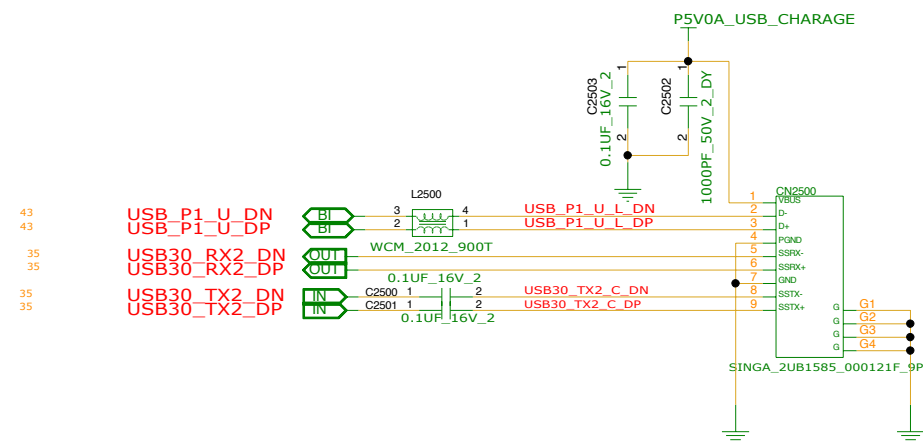
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION STICK POINT & B2B CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 54 of 64			

REFERENCE NUMBER:500~549



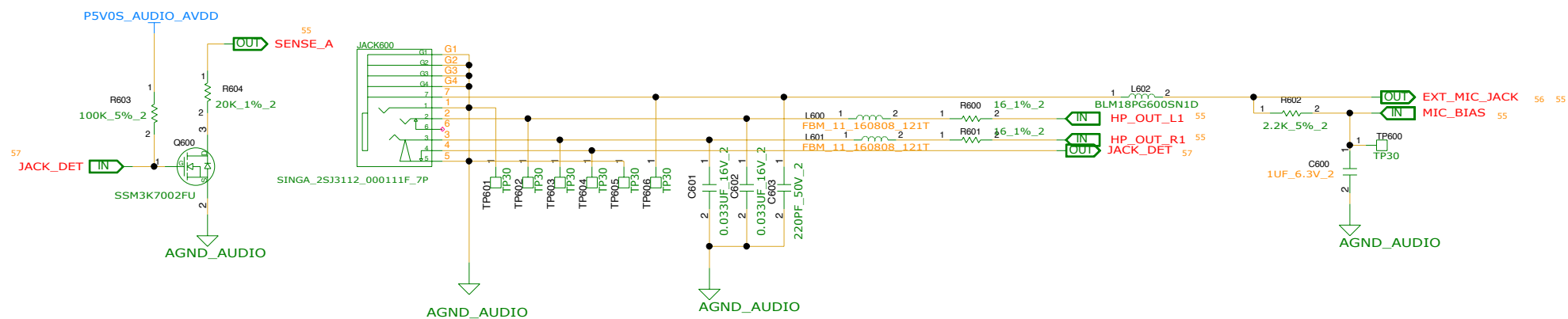






## USB CHARGER

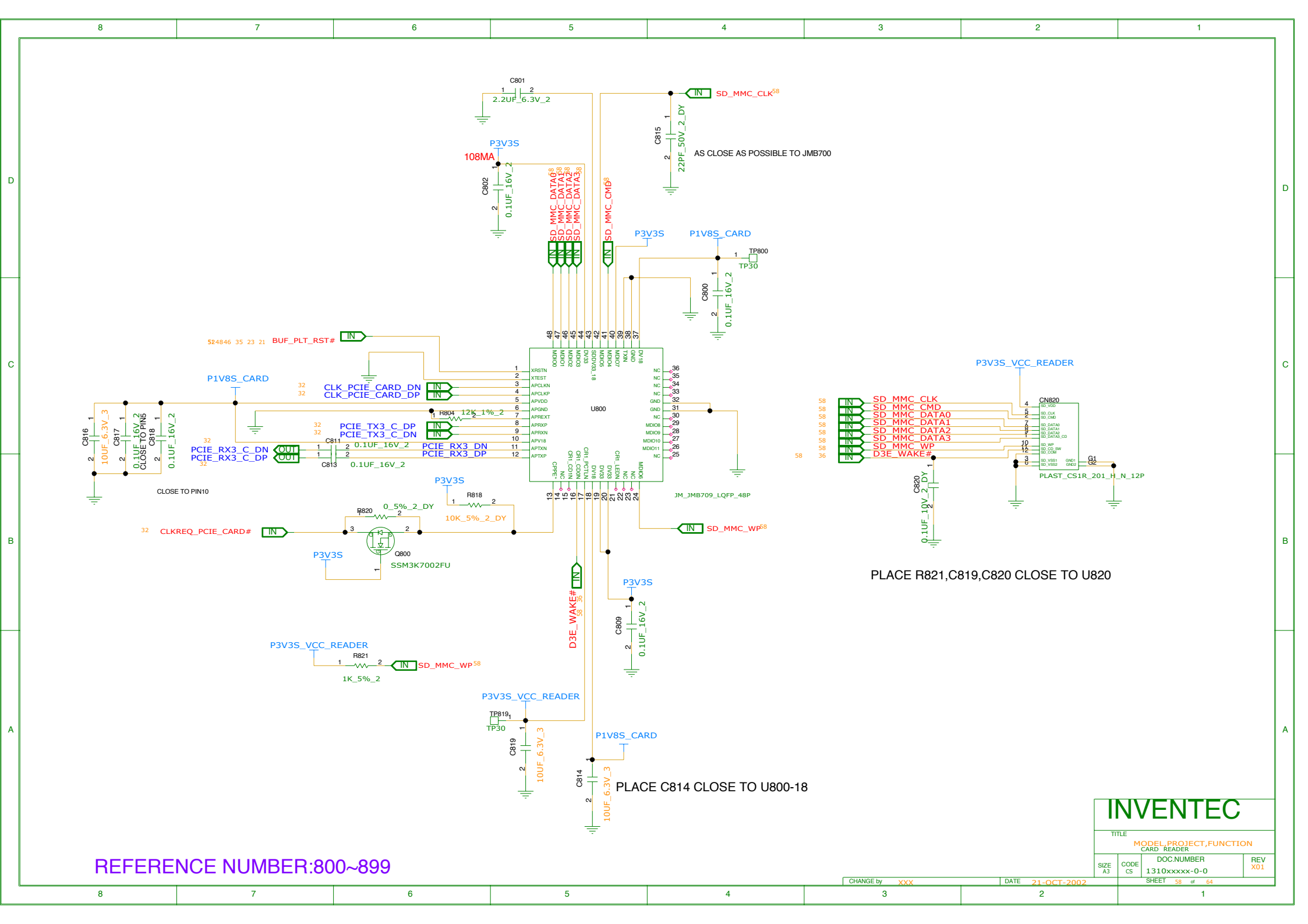
REFERENCE NUMBER:2500~2510



REFERENCE NUMBER:600~610

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION AUDI JACK & USB3.0(LEFT) DB			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
SHEET 57 of 64			



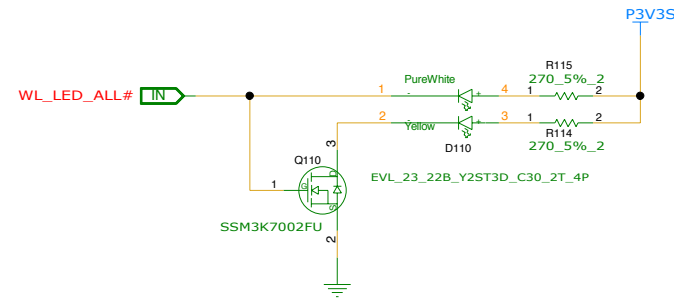
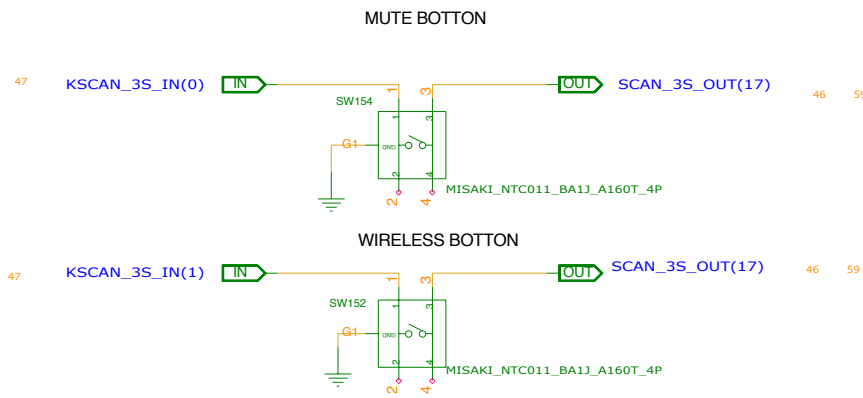
REFERENCE NUMBER:800~899

INVENTEC

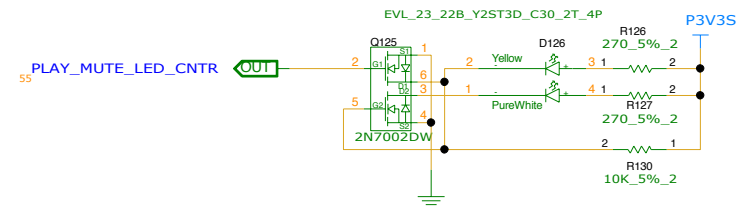
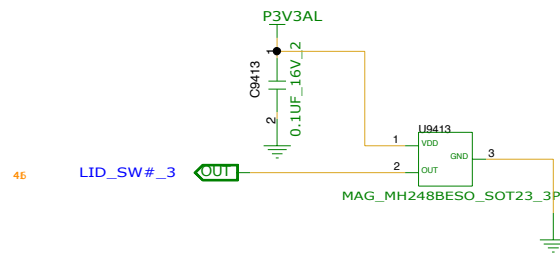
TITLE  
MODEL PROJECT,FUNCTION  
CARD READER

SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by	DATE	SHEET
XXX	21-OCT-2002	58 of 64

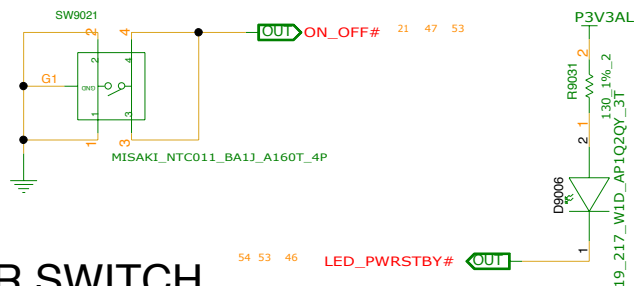


## WIRELESS/BLUETOOTH LED



## MUTE LED

## POWER SWITCH



**INVENTEC**

TITLE MODEL PROJECT FUNCTION

DOC NUMBER 1310xxxxx-0-0 REV X01

SIZE A3 CODE CS SHEET 59 of 64

CHANGE by XXX DATE 21-OCT-2002

# SMART CARD DOUGHTER BOARD

REFERENCE NUMBER:9400~9499

TOUCHPAD

SATA LED & HDD-HALTED LED

WIRELESS LED

BATTERY LED

POWER LED

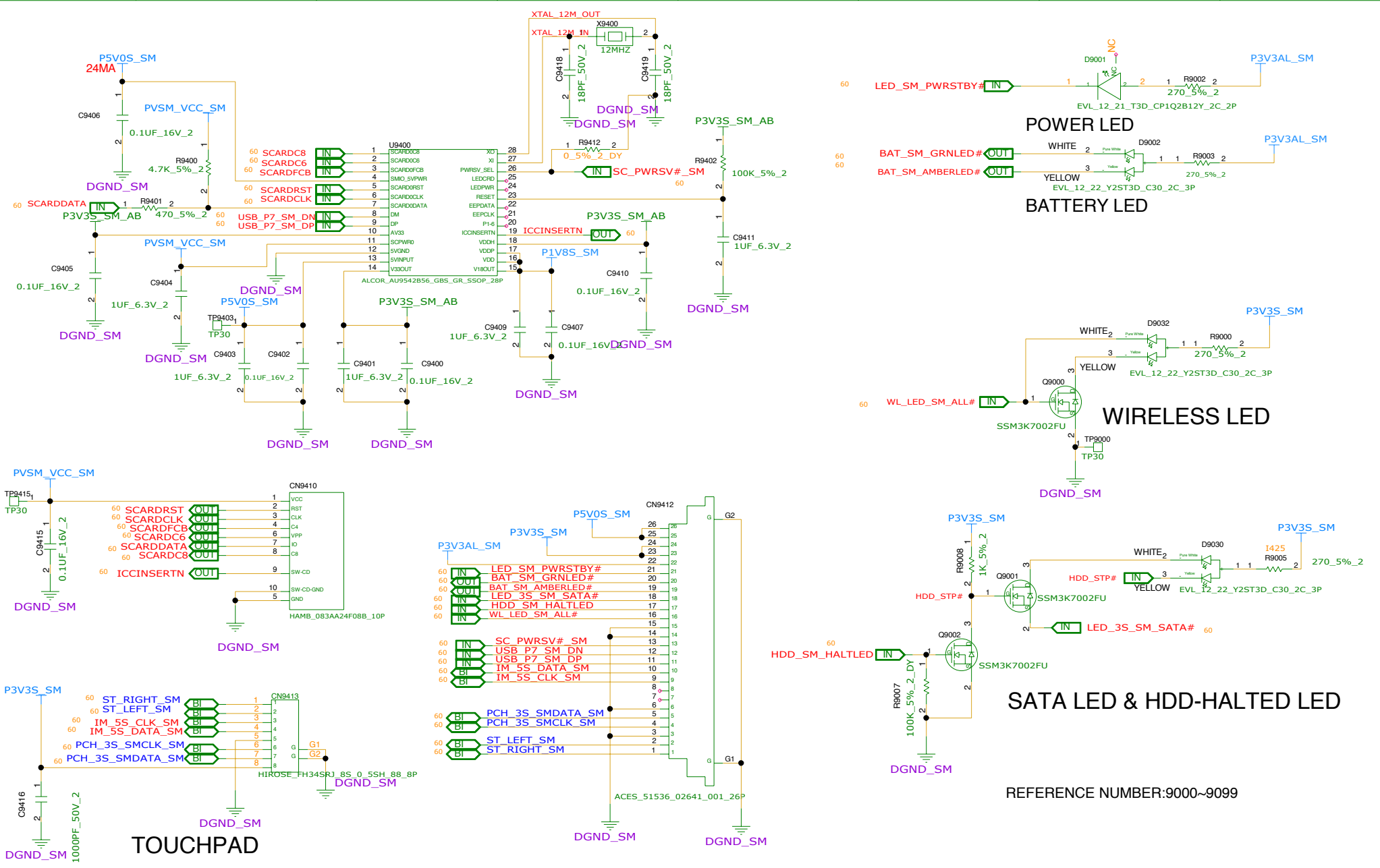
INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
SMART CARD DB			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET		60 of 64	

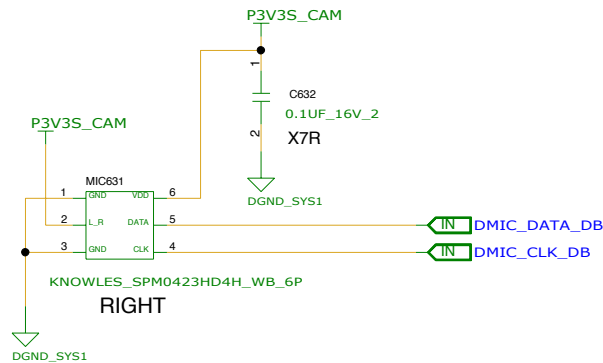
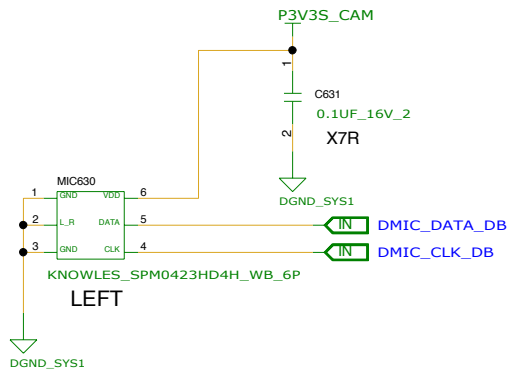
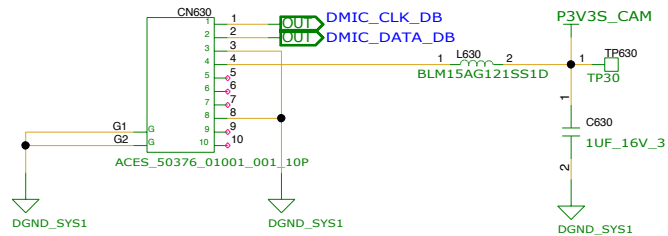
DATE 21-OCT-2002

CHANGE by XXX

FIX9400  
FIX9401  
FIX9402  
FIX9403  
FIX9404  
FIX9405

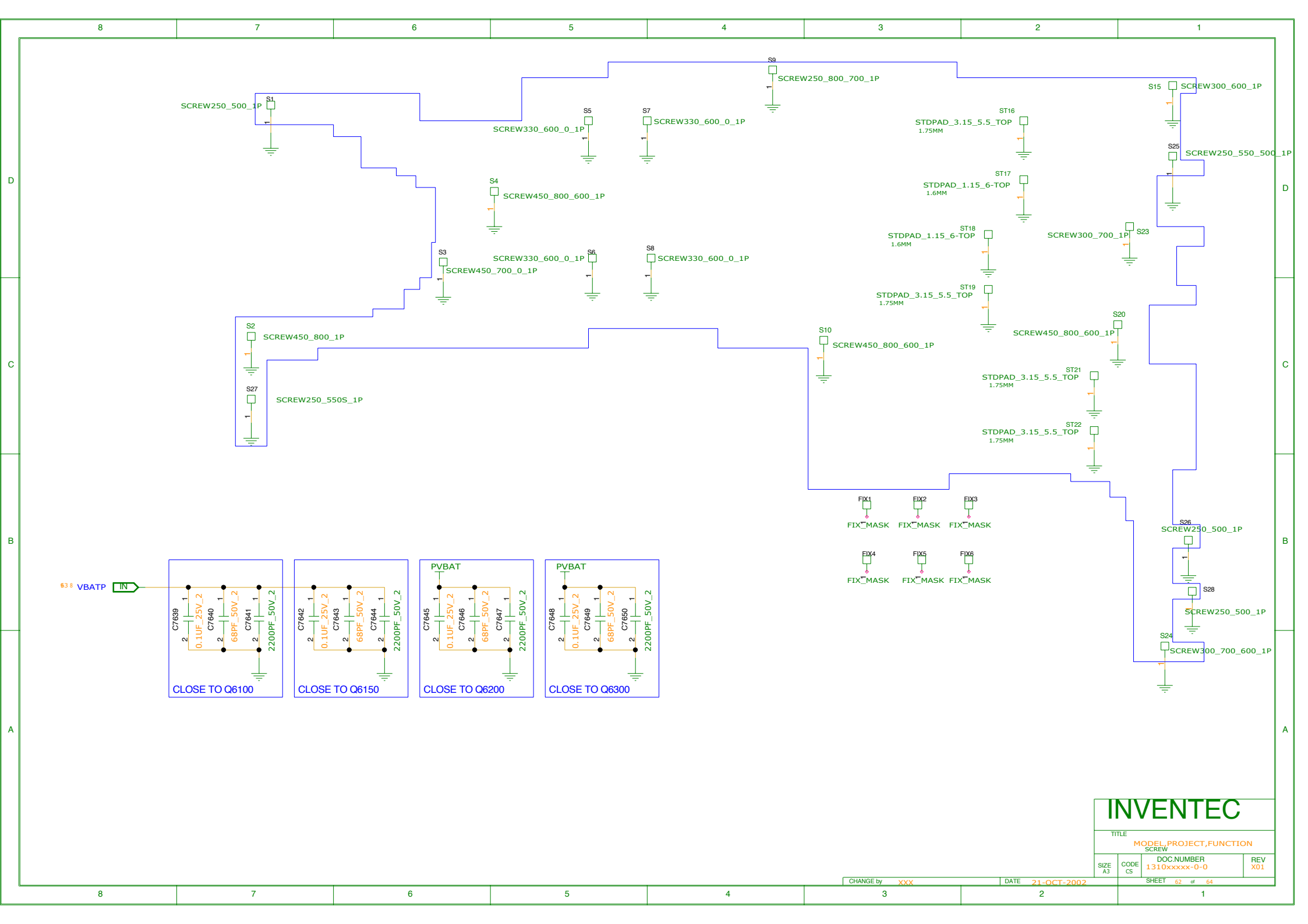


REFERENCE NUMBER:630~639  
MIC DOUGHTER BOARD



INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
MIC DB			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 61 of 64			



INVENTEC

TITLE  
MODEL PROJECT,FUNCTION  
SCREW

SIZE A3 CODE CS DOC NUMBER 1310xxxxx-0-0 REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 62 of 64

D

C

B

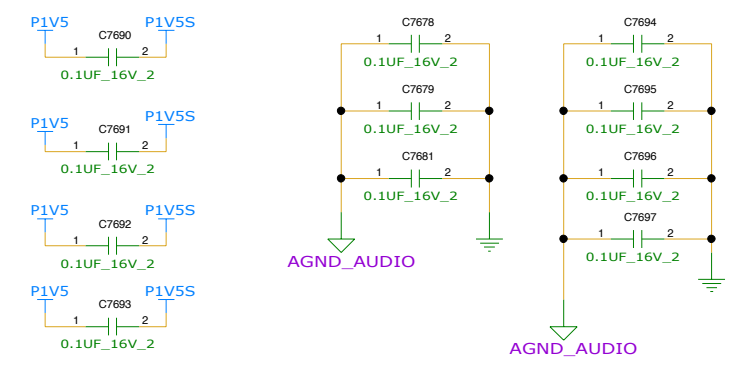
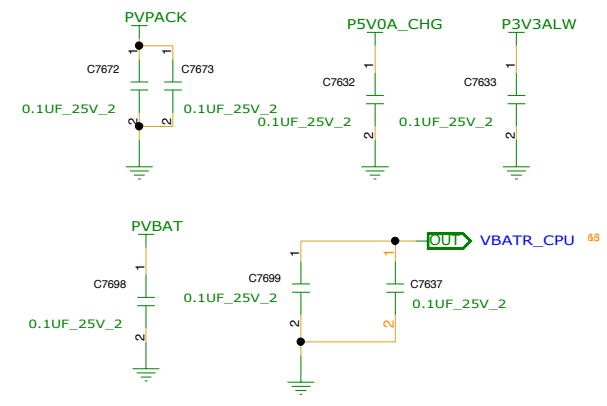
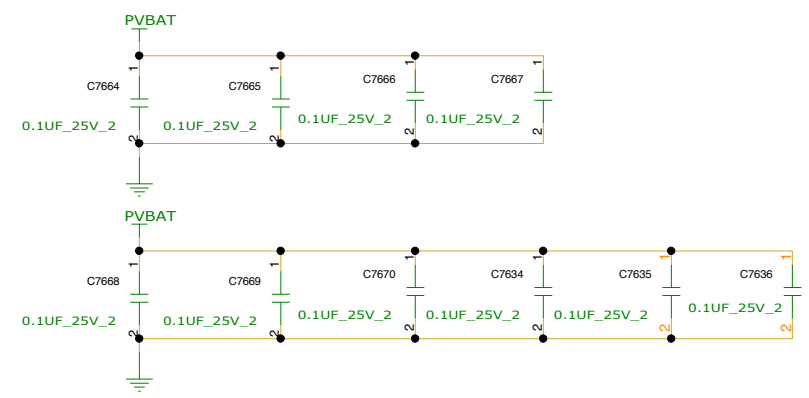
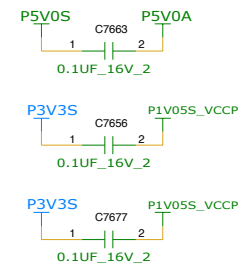
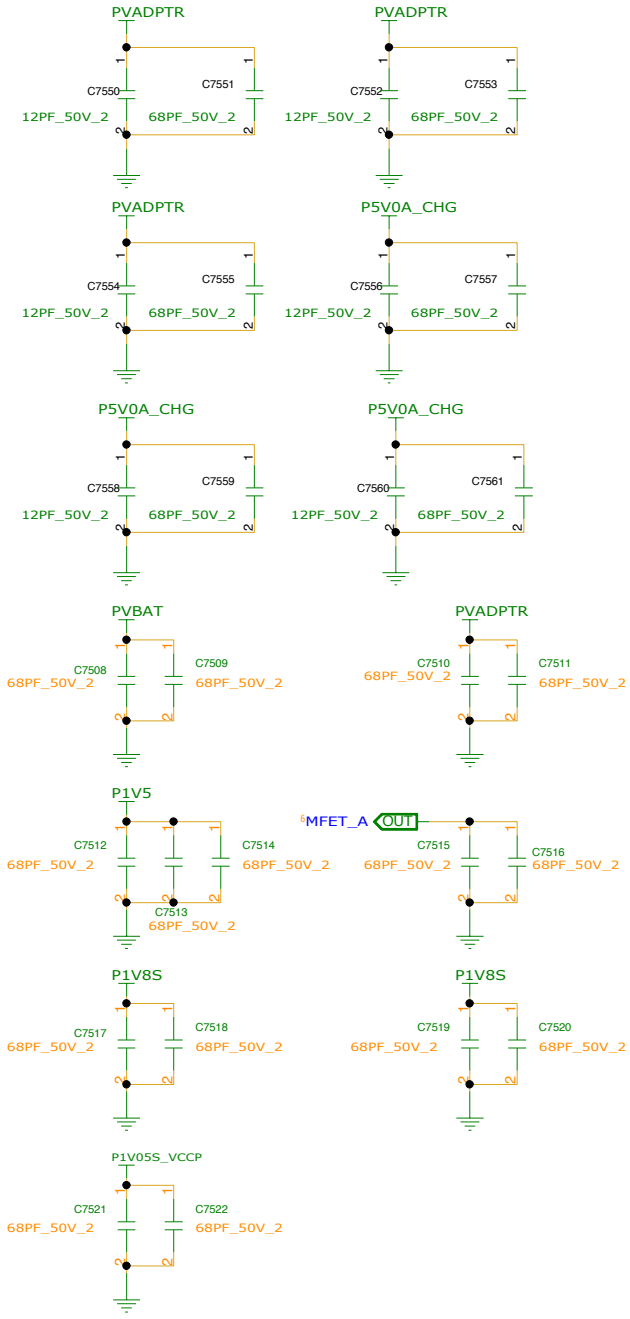
A

D

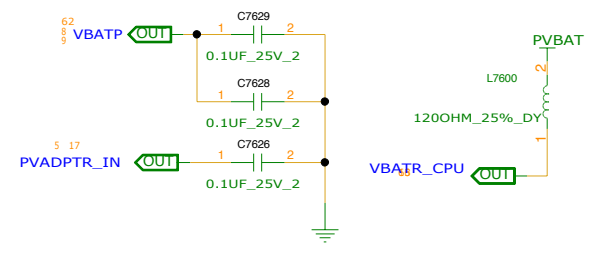
C

B

A



EMI SOLUTION



INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
EMI & RF SOLUTION			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 63 of 64			

D

C

B

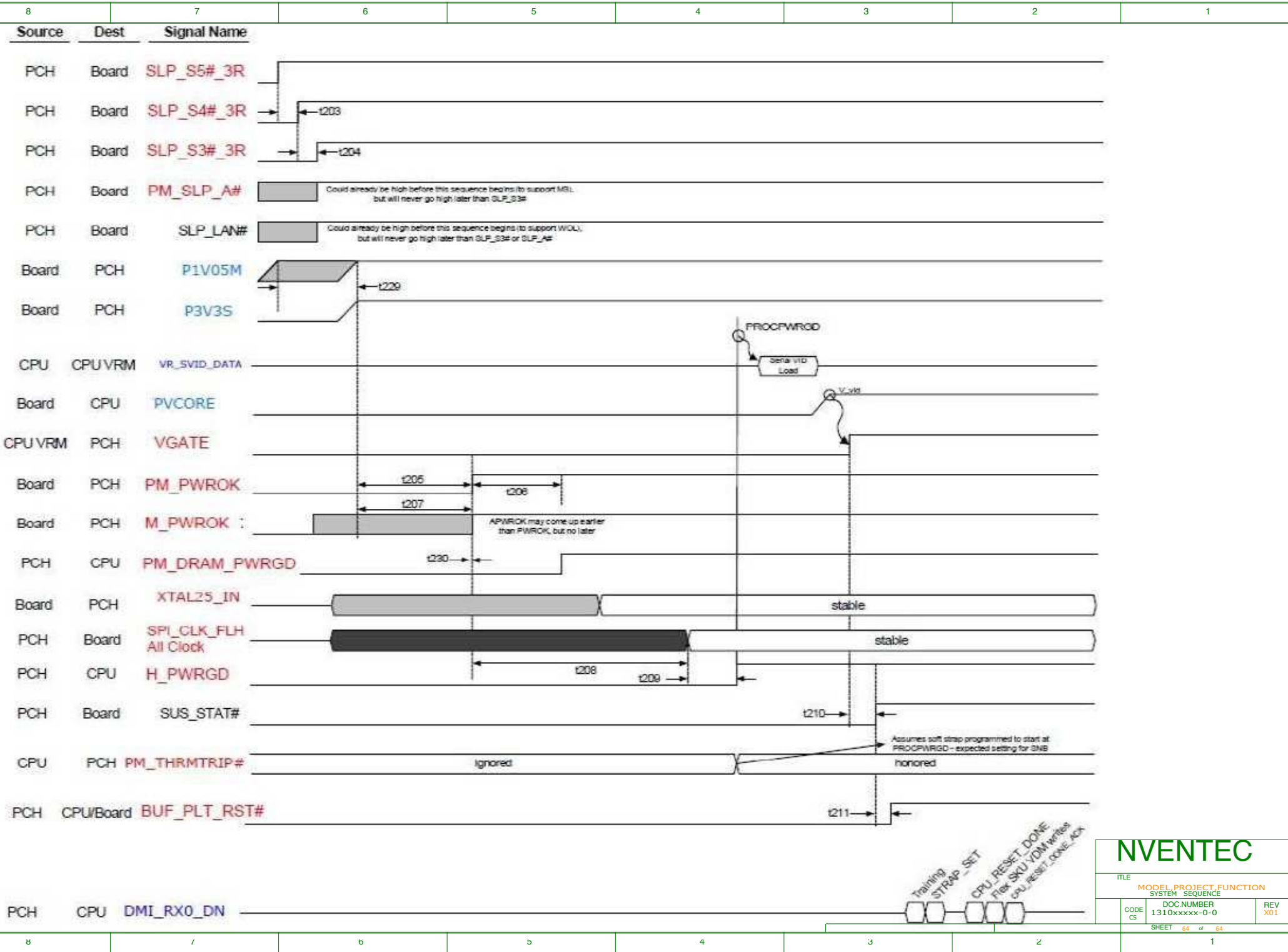
A

D

C

B

A



NVENTEC

TITLE MODEL PROJECT FUNCTION  
SYSTEM SEQUENCE

CODE CS DOC NUMBER 1310xxxxx-0-0 REV X01

SHEET 64 of 64