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HSF Property: ROHS or Halogen-Free(5L3?)

CALVIN DIS

SI BUILD

FINAL

2011.08.02

21 OCT 2002		
DATE	CHANGE NO.	

	EE	DATE	POWER	DATE	INVENTEC			
DRAWER					TITLE			
DESIGN					MODEL PROJECT FUNCTION			
CHECK					PROJECT NAME			
RESPONSIBLE								
SIZE				VER:	SIZE	CODE	DOC NUMBER	REV
FILE NAME					5	01	1310KXXXX-0-0	201
PIN					SHEET			

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TITLE			
MODEL, PROJECT, FUNCTION TABLE OF CONTENTS			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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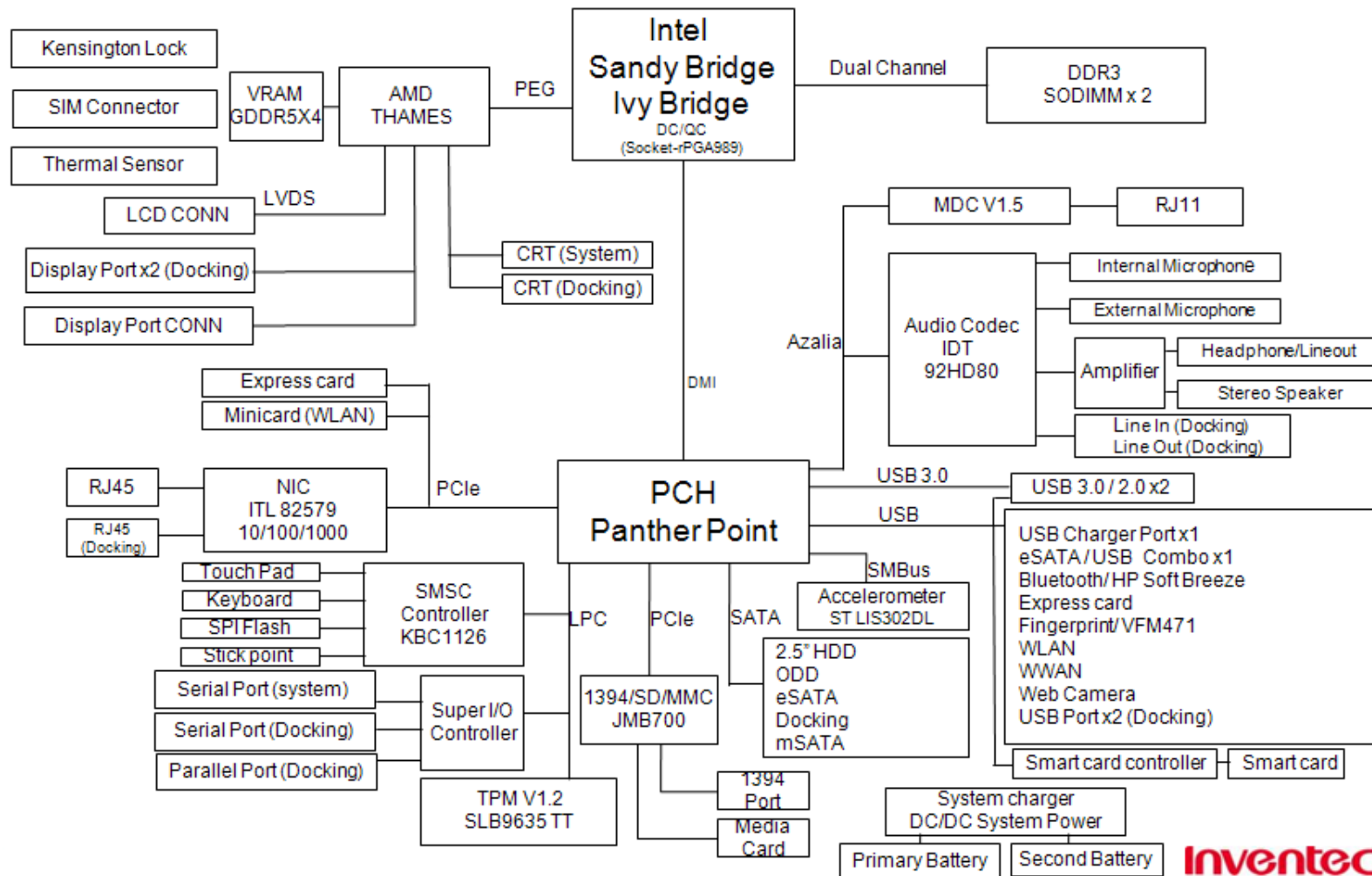
CHANGE by XXX DATE 21-OCT-2002

3

2

1

# CALVIN Discrete Block Diagram



**INVENTEC**

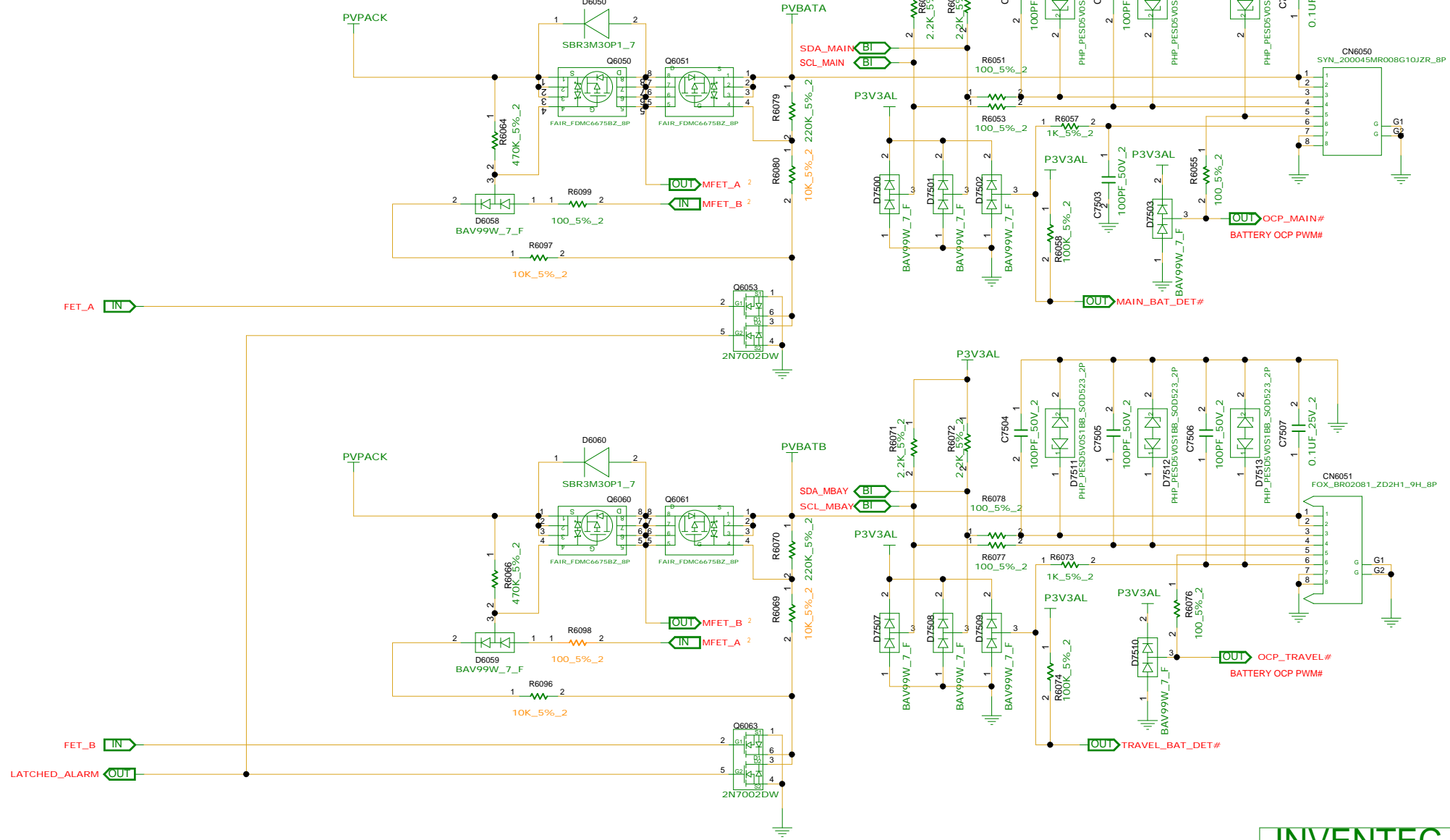
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MODEL, PROJECT, FUNCTION			
SIZE	CODE	DOC NUMBER	REV
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CHANGE by: XXX DATE: 21-OCT-2002

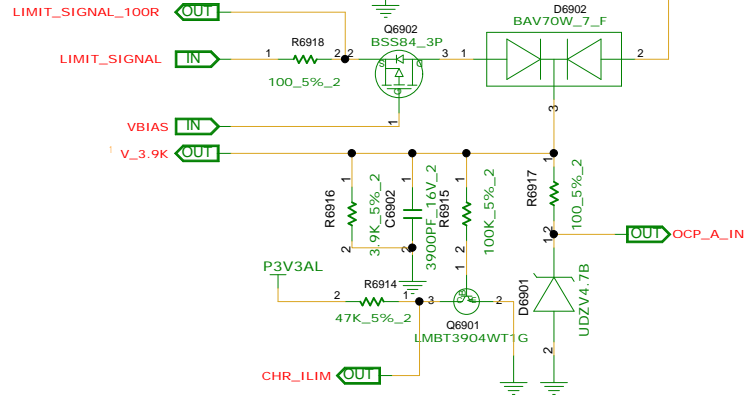
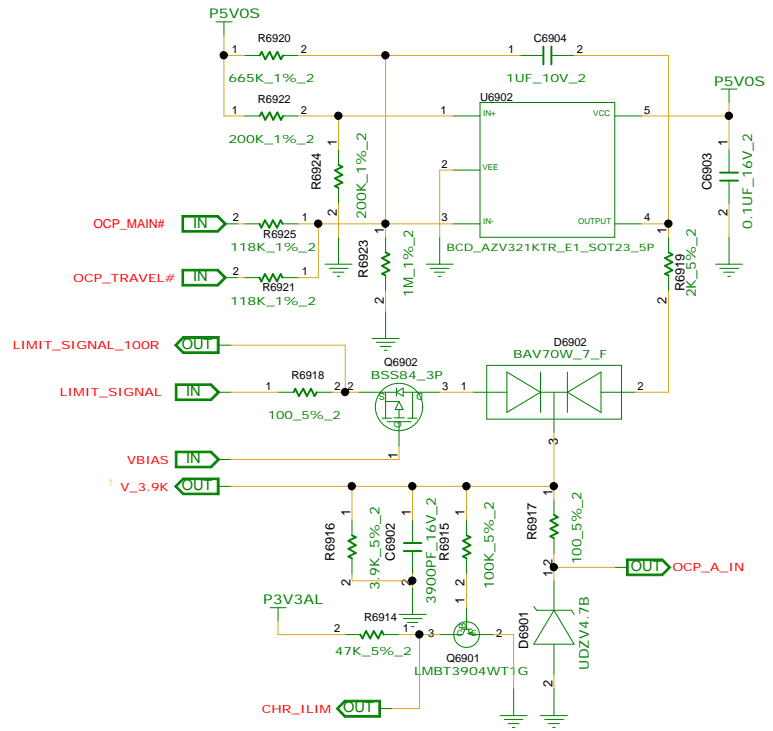
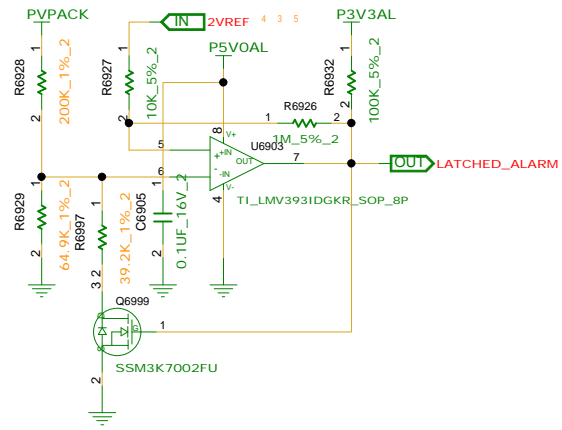
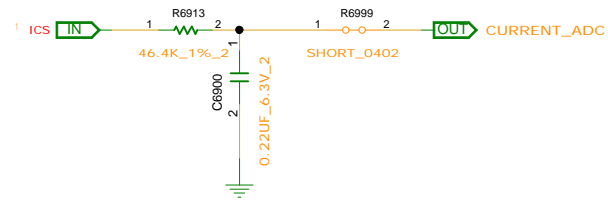
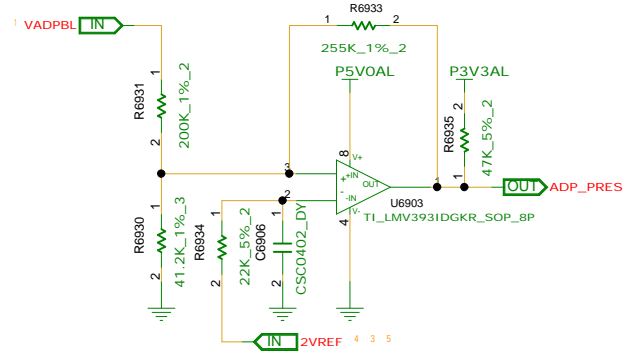
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TITLE			
MODEL,PROJECT,FUNCTION SYSTEM POWER(CHARGER)			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X0

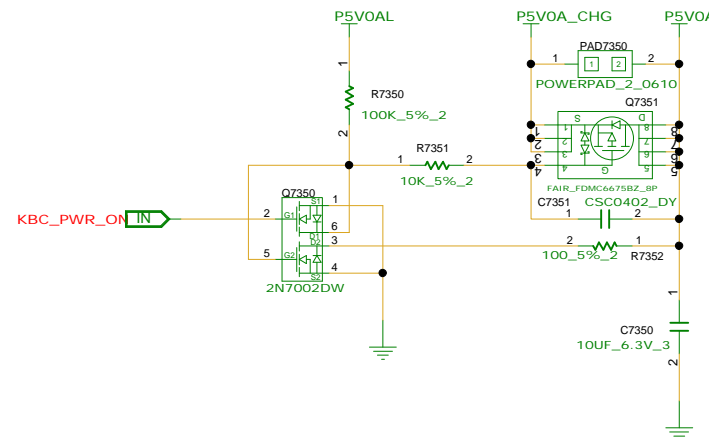
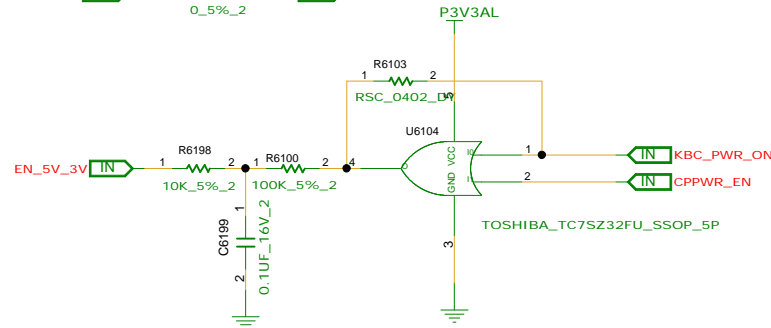
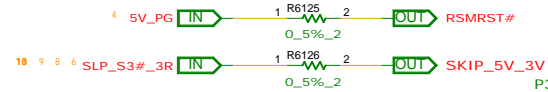
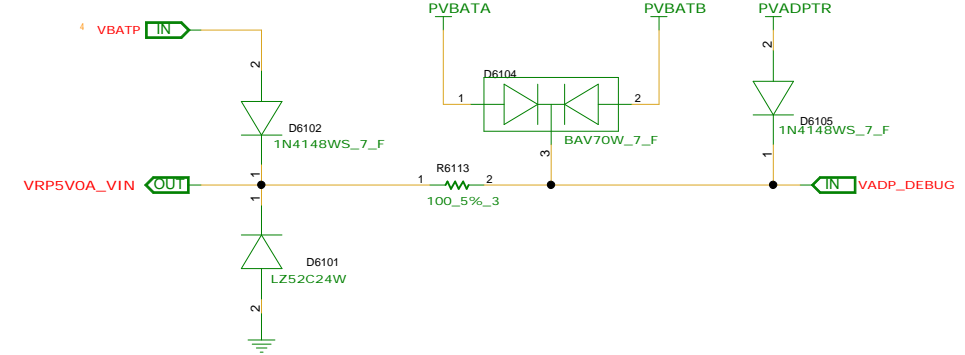
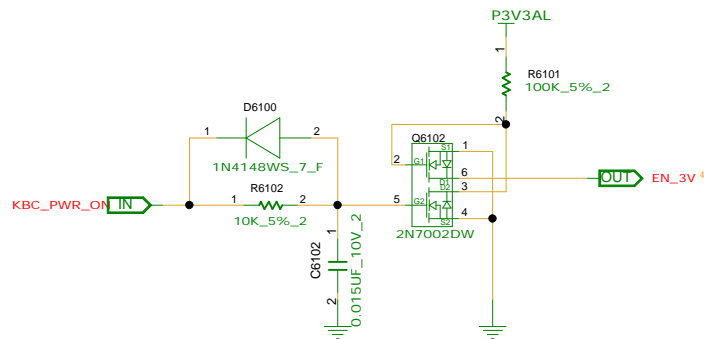
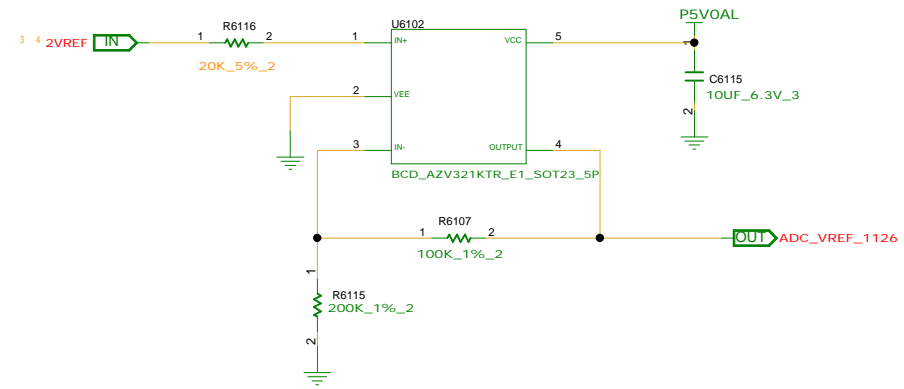
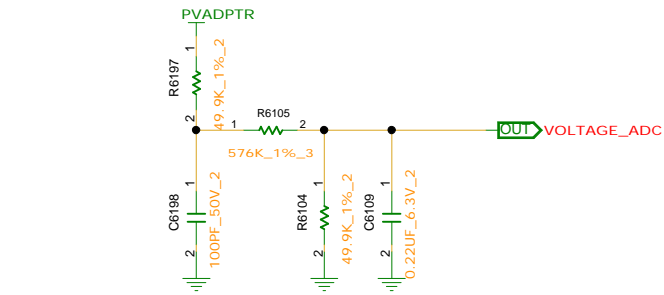


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TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(BATT_SELECTOR)			
DOC NUMBER			
1310xxxxx-0-0			
REV			
X01			
SIZE	CODE	SHEET	
A3	CS	5	73



INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
SYSTEM POWER(OCP)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
P3V3A&P5VOA_CHG PORT			
DOC NUMBER			
1310xxxxx-0-0			
REV			
X01			
SIZE	CODE	SHEET	
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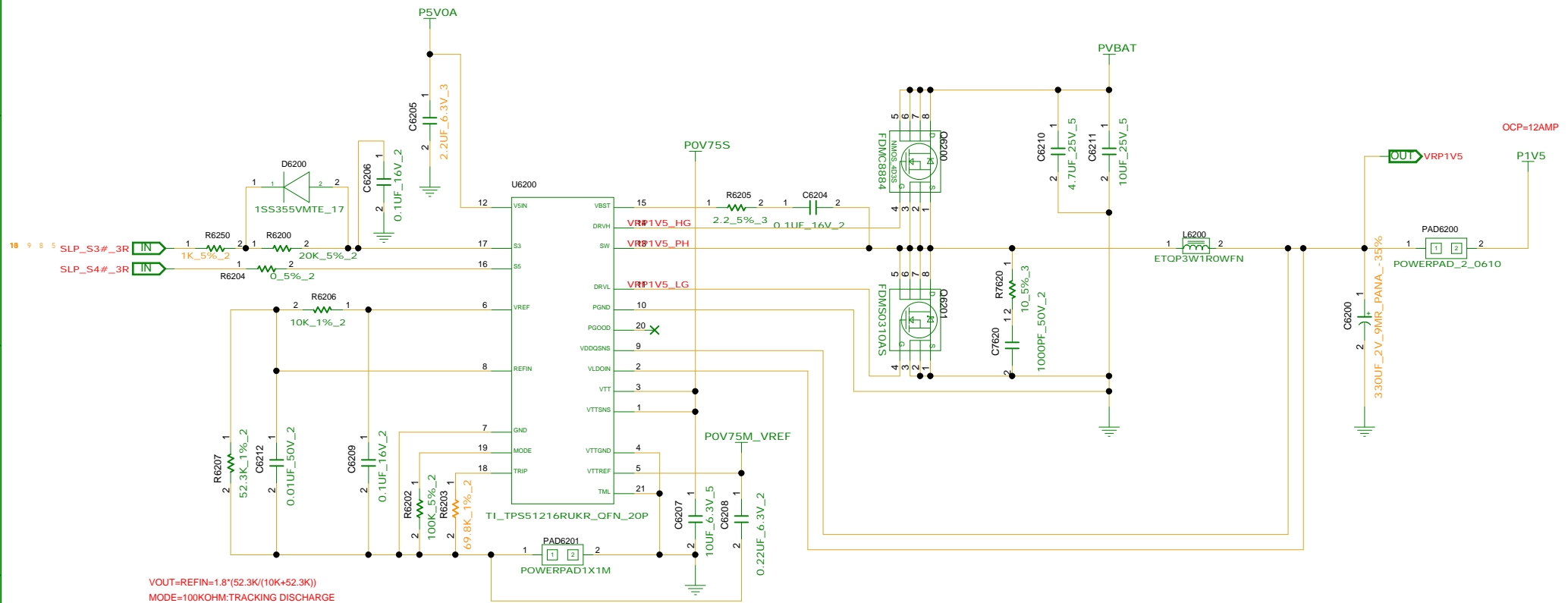


Table 1. S3/S5 Power State Control

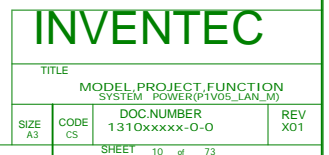
STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

**INVENTEC**

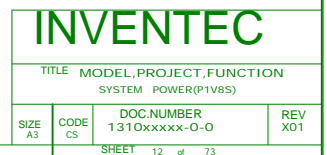
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MODEL PROJECT FUNCTION  
SYSTEM POWER(P1V5)

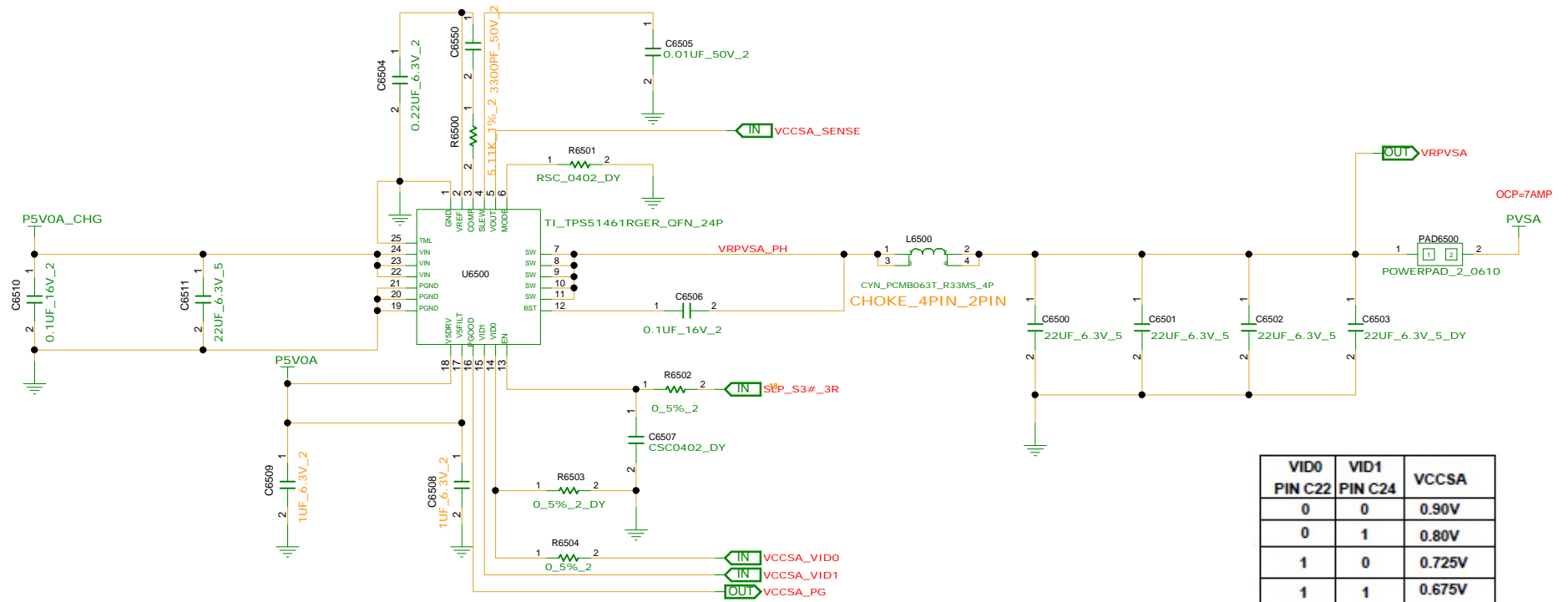
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TITLE  
MODEL PROJECT FUNCTION  
SYSTEM POWER(PVSA)

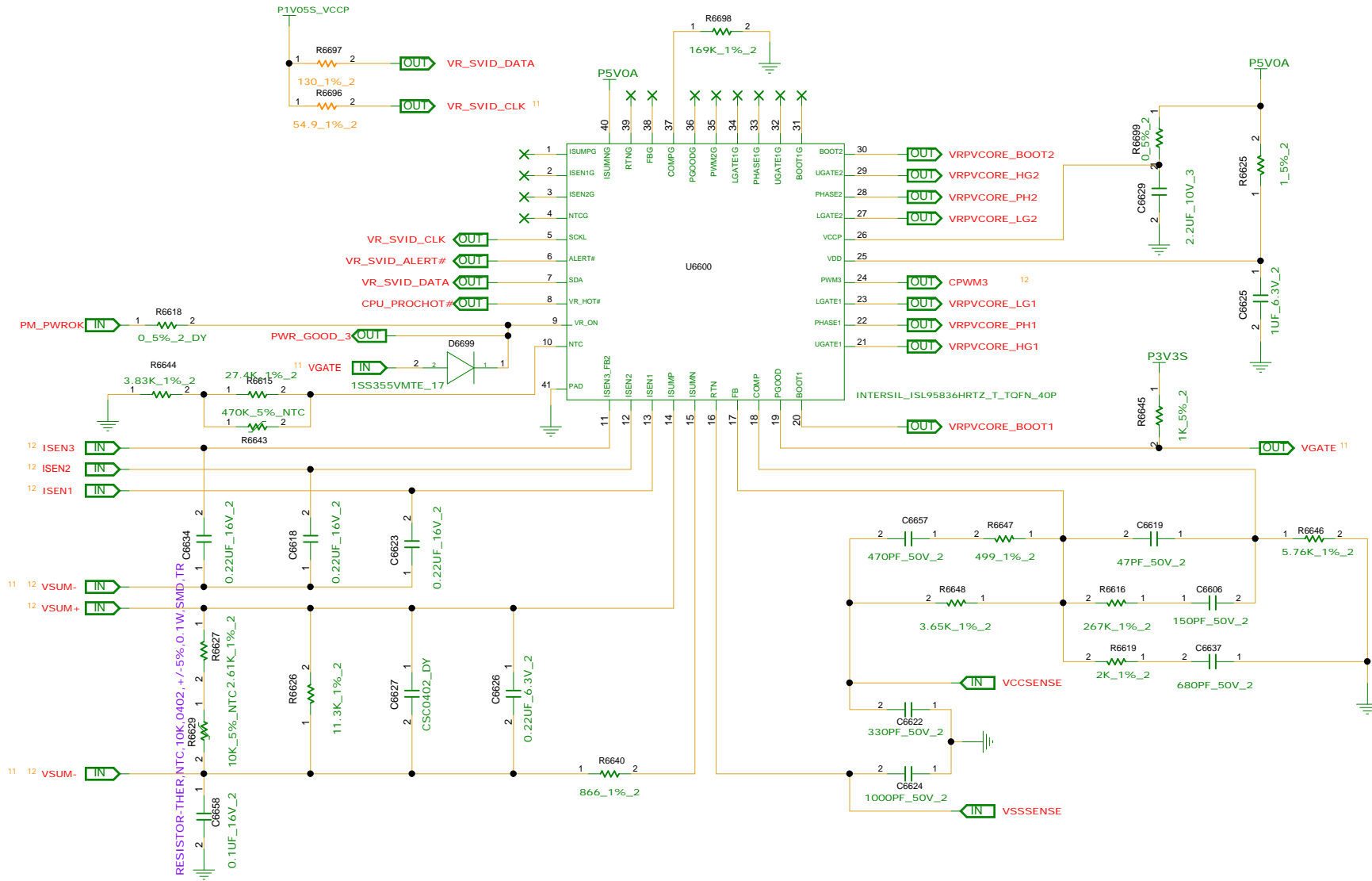
SIZE CODE  
A3 CS

DOC NUMBER  
1310xxxxx-0-0

REV  
X01

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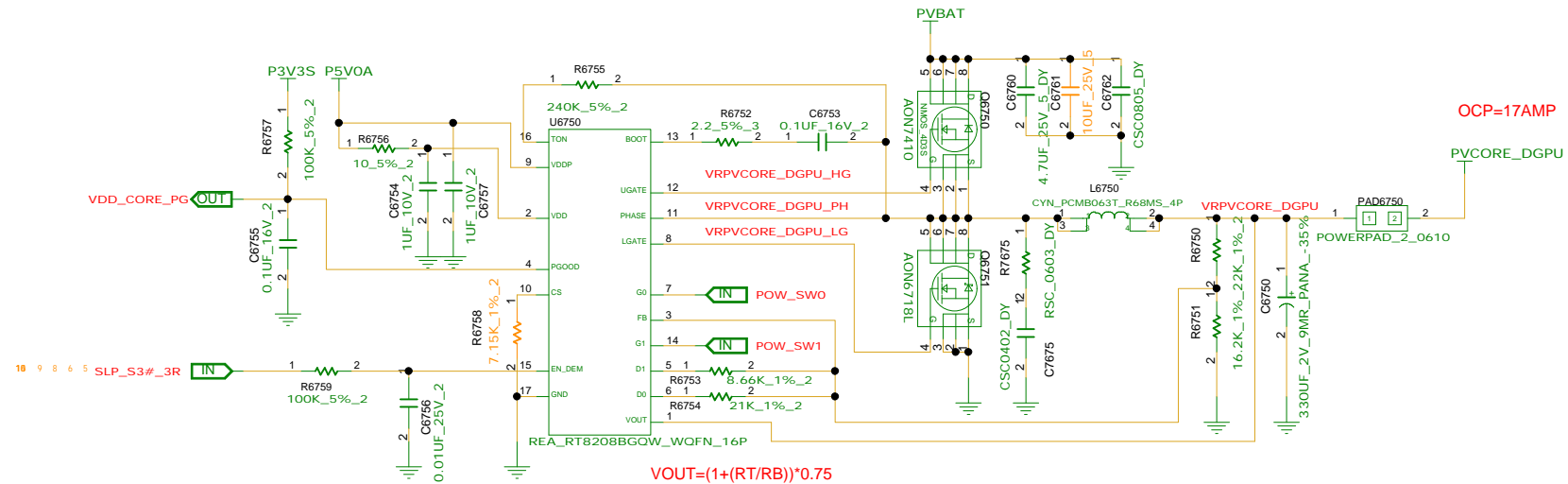


INVENTEC			
TITLE MODEL,PROJECT,FUNCTION SYSTEM POWER(PVCORE)			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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TITLE	MODEL,PROJECT,FUNCTION
	SYSTEM POWER(PVCORE)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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94	94
95	95
96	96
97	97
98	98
99	99
100	100

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-O-O	REV X01
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VOUT	SW1	SW0
1.10	0	0
1.00	0	1
0.90	1	0
0.85	1	1

INVENTEC			
TITLE MODEL, PROJECT, FUNCTION SYSTEM POWER(PVCORE_DGPU)			
DOC NUMBER 1310xxxxx-0-0			
SIZE A3	CODE CS	REV X01	

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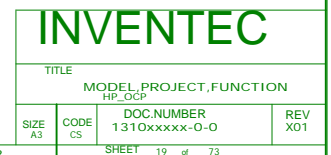




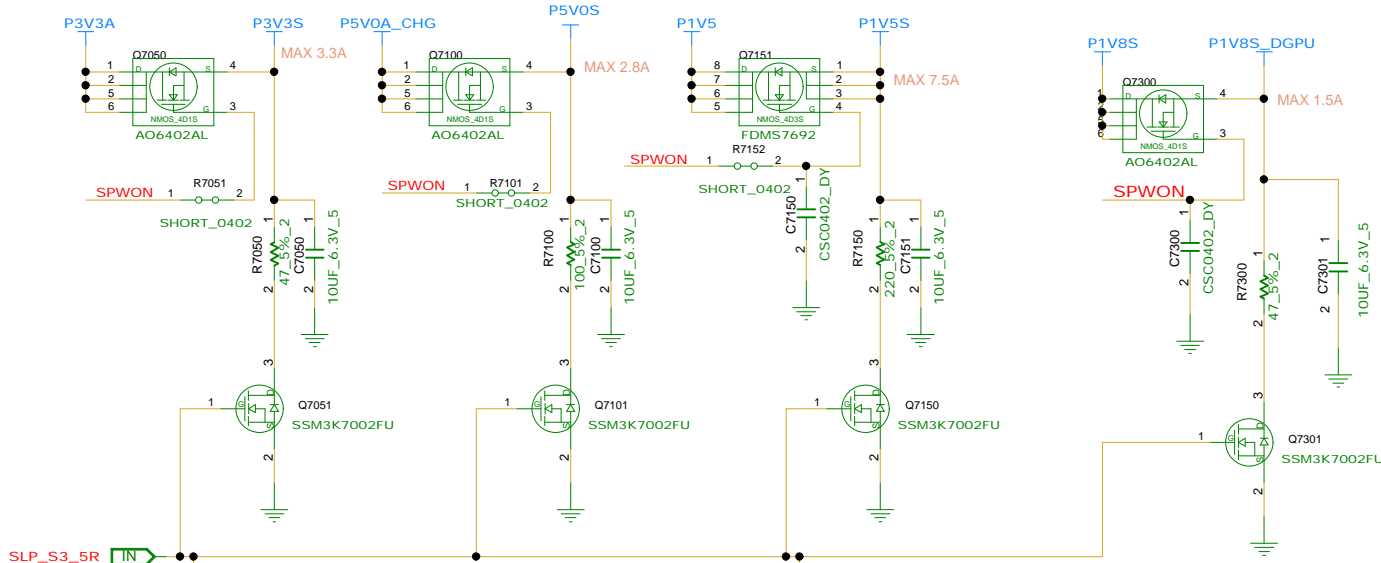
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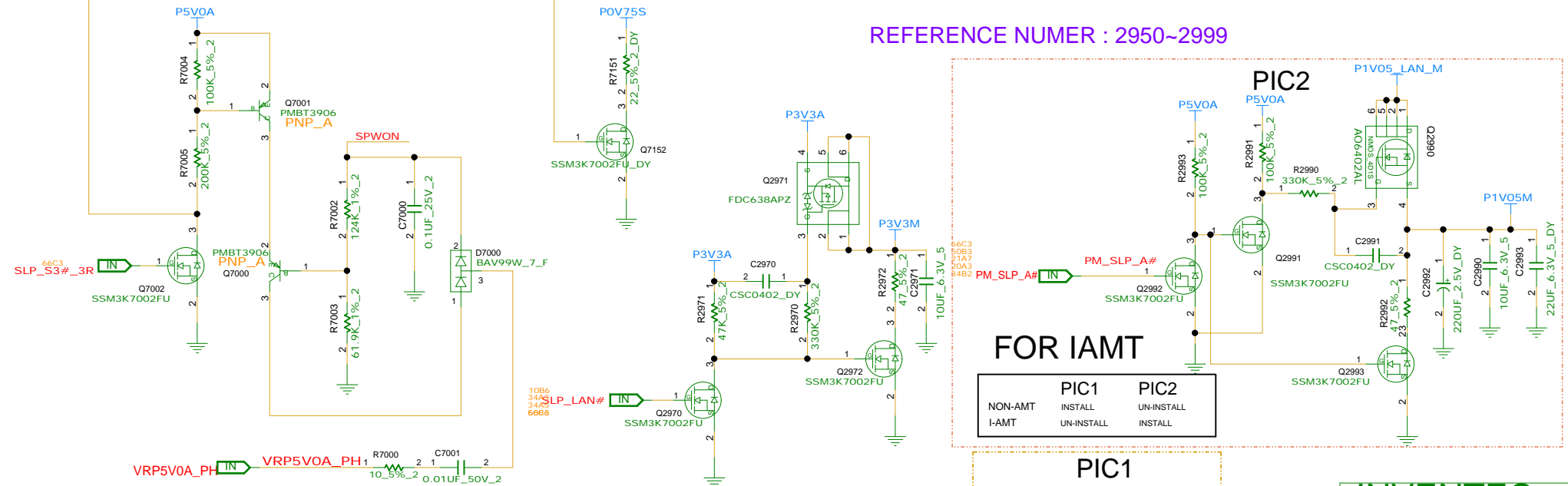
<http://sualaplikasi345.edu.vn> [www.vinafix.vn](http://www.vinafix.vn)



REFERENCE NUMER : 7000~7350



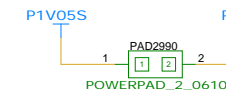
REFERENCE NUMER : 2950~2999



FOR IAMT

	PIC1	PIC2
NON-AMT	INSTALL	UN-INSTALL
I-AMT	UN-INSTALL	INSTALL

PIC1

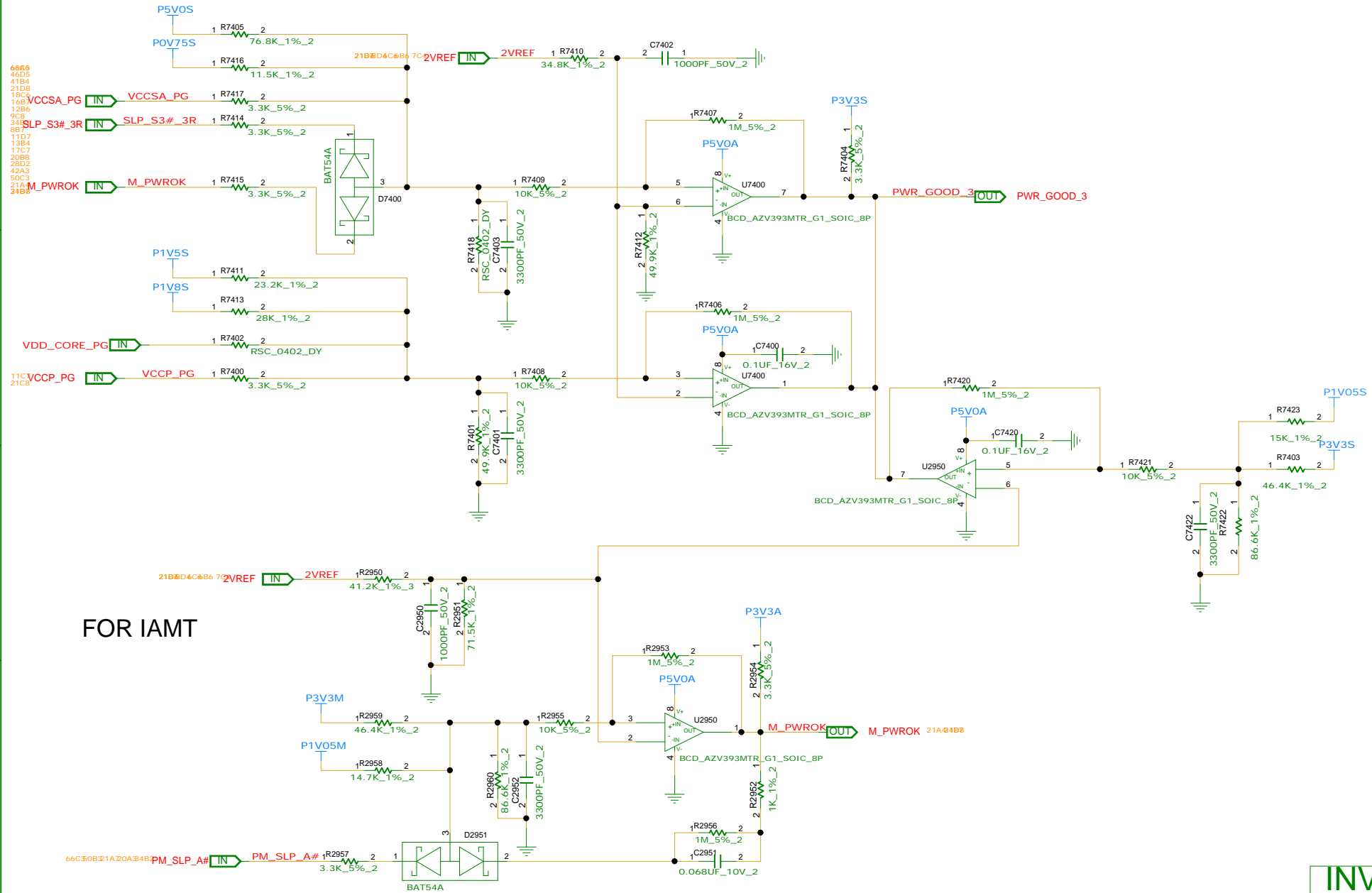


INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
POWER(SLEEP)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01
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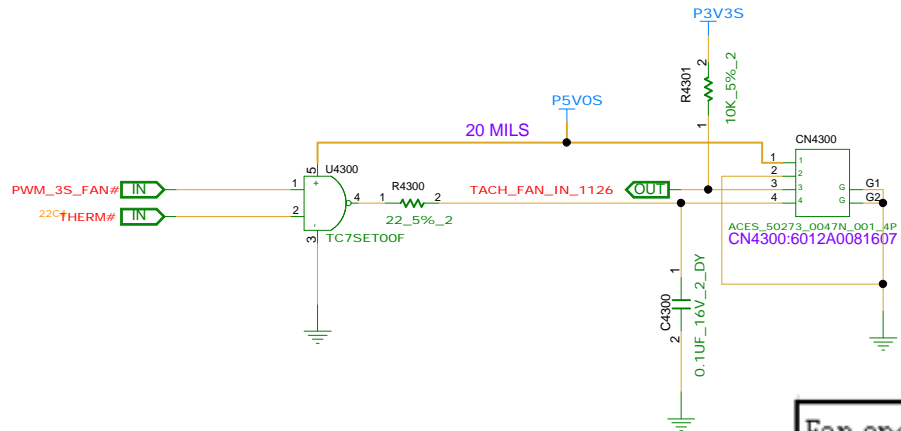
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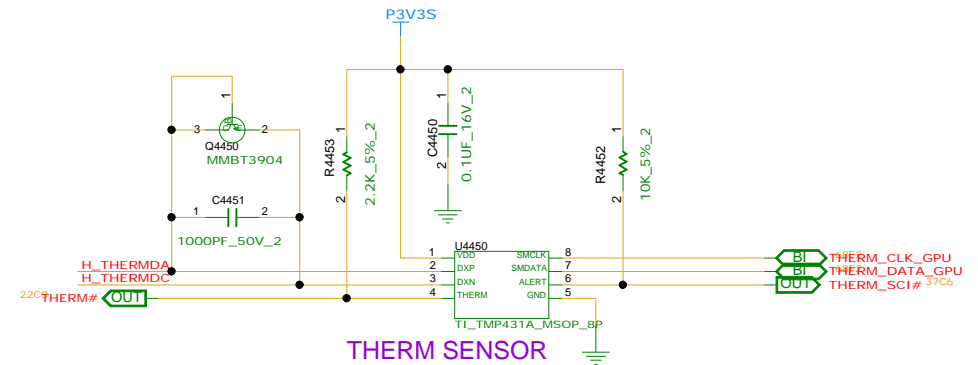
REFERENCE NUMER : 2950~2999

INVENTEC			
TITLE			
MODEL/PROJECT/FUNCTION			
POWER(SEQUENCE)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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REFERENCE NUMBER:4400~4349

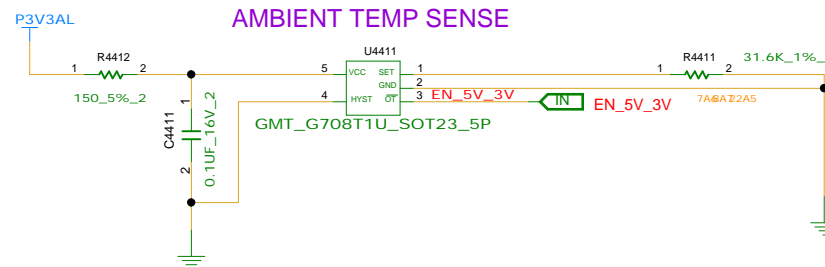


REFERENCE NUMBER:4450~4499



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

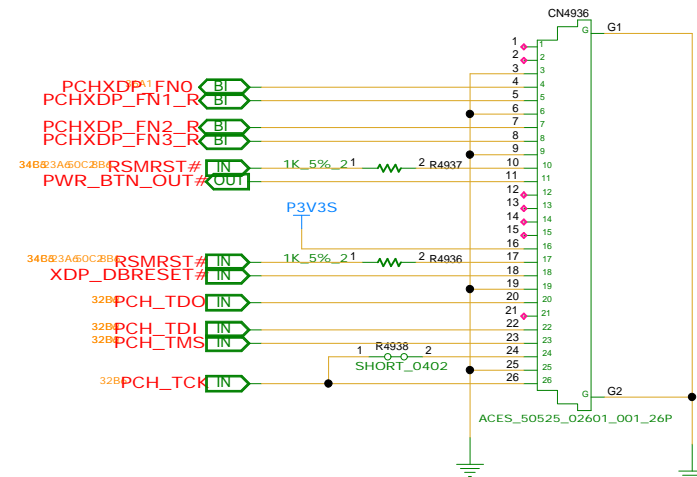
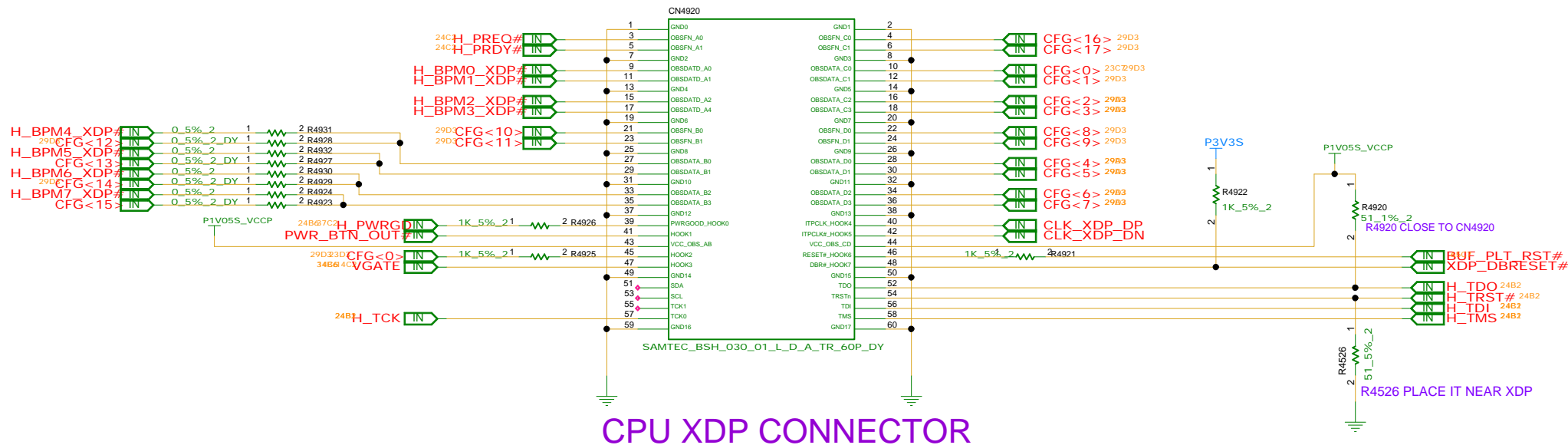
AMBIENT TEMP SENSE



RSET (K OHM) = 0.0012T^2 - 0.9308T + 96.147  
THERMAL SHUTDOWN AT 77 DEG. FOR B SERIES

REFERENCE NUMBER:4411~4449

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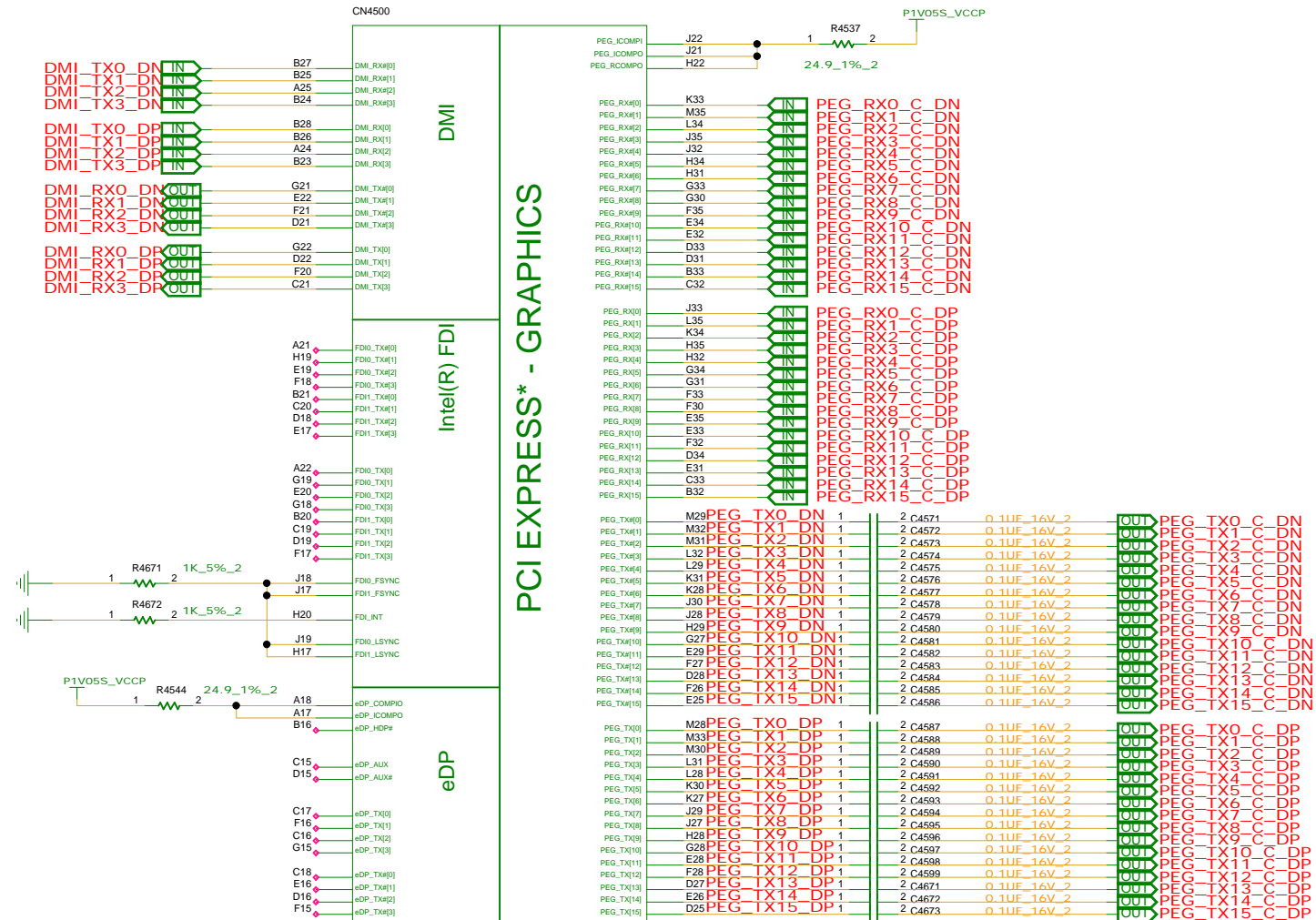


INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
XDP_CONN			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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FOX\_PZ98927\_3641\_41F\_HURONRIVER\_989P\_CHIEFRIVER

ALL CLOSED TO CPU

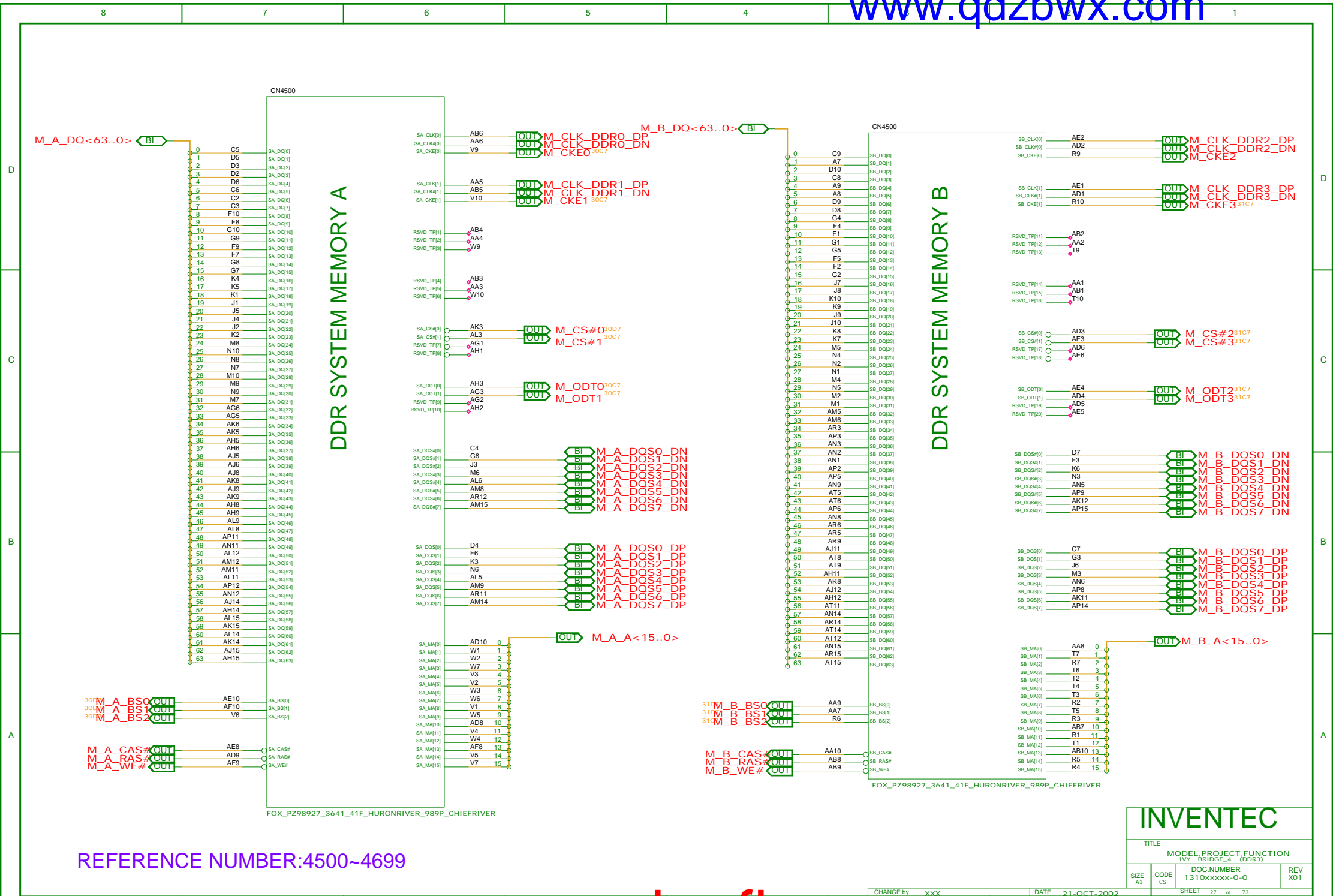
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INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
IVY BRIDGE_3 (DMI,DP,PEG,FDI)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

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REFERENCE NUMBER:4500~4699

INVENTEC

TITLE			
MODEL PROJECT FUNCTION I/VY BRIDGE-4 (DDR3)			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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D

C

B

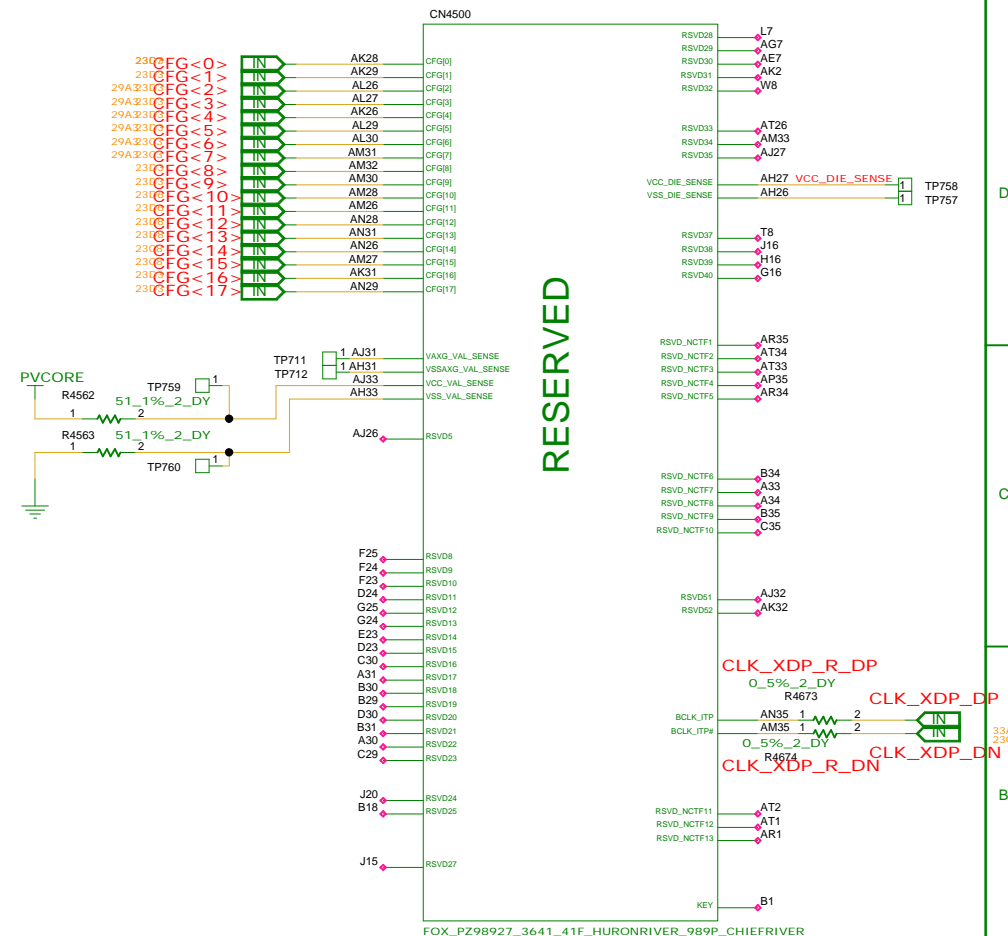
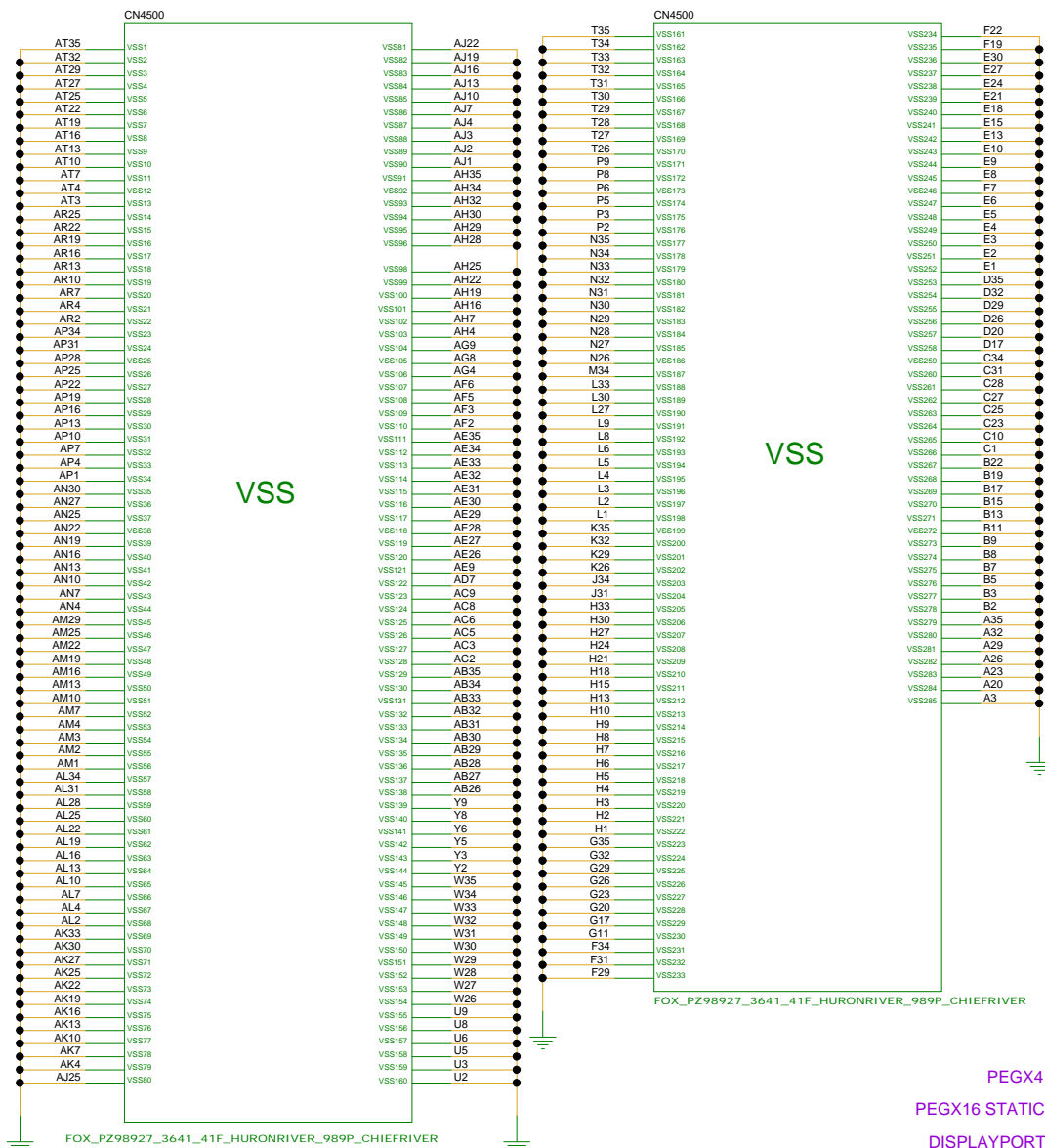
A

D

C

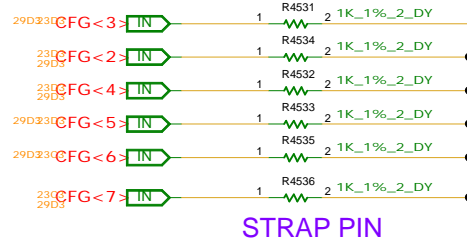
B

A



REFERENCE NUMBER:4500~4699

PEGX4 LANE REVERSAL  
PEGX16 STATIC LANE REVERSAL  
DISPLAYPORT PRESENCE STRAP  
PCIe PORT BIFURCATION STRAP  
PEG DEFER TRAINING

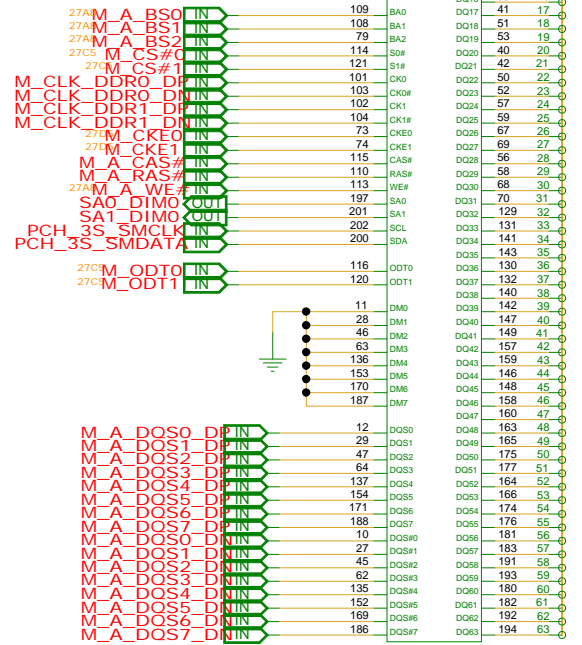


INVENTEC

TITLE			
MODEL PROJECT.FUNCTION			
IVY BRIDGE_6 (GND,RESERVED)			
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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M\_A\_A&lt;15..0&gt; BI M\_A\_DQ&lt;63..0&gt;



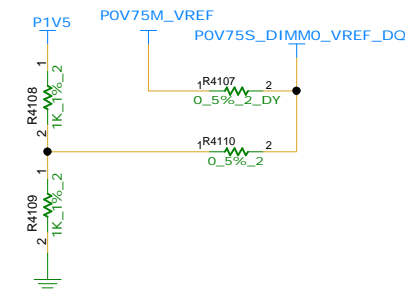
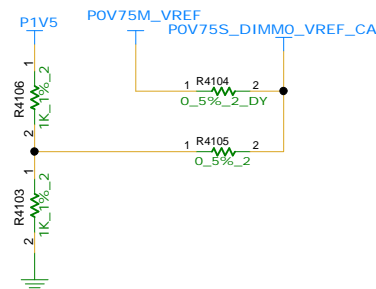
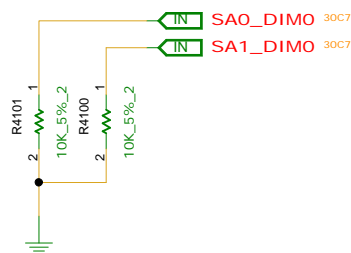
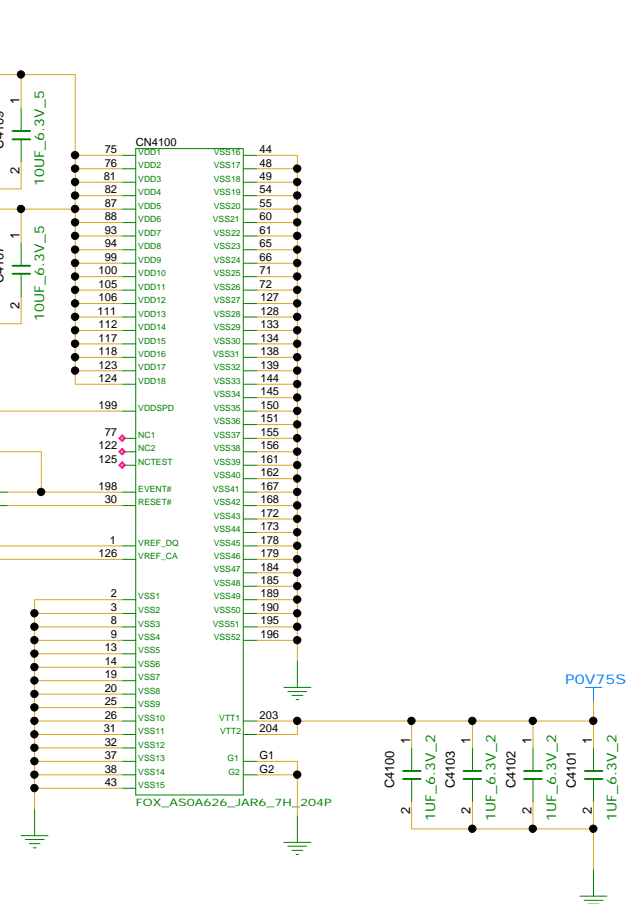
CN4650:6026B0162603

## 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

PM\_EXTTS#1 R\_OUT  
DDR3\_DRAMRST# R\_OUT

INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
DDR3_SO_DIMMO			
SIZE	CODE	DOC NUMBER	REV
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SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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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

D

C

C8

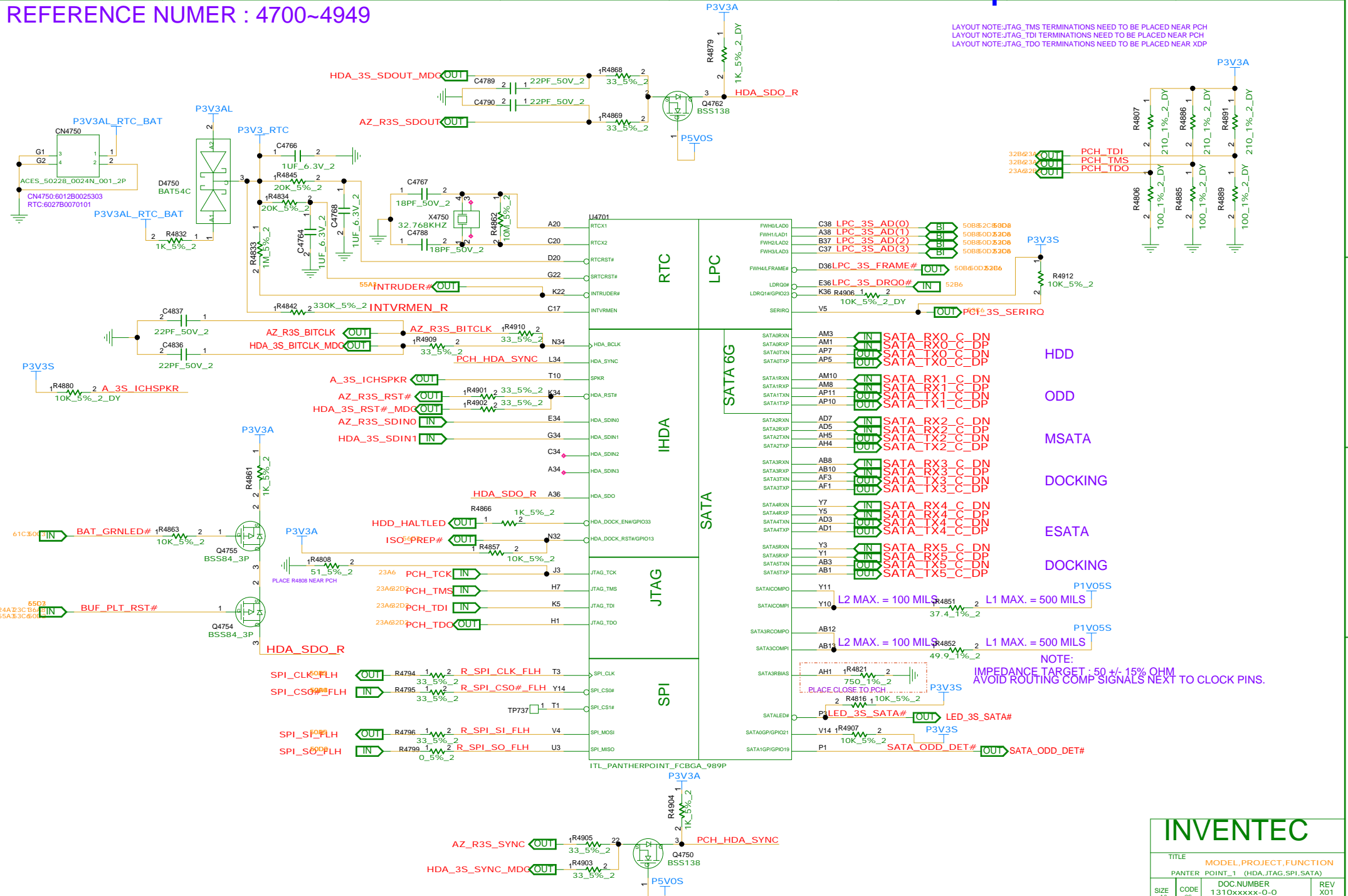
A

D

C

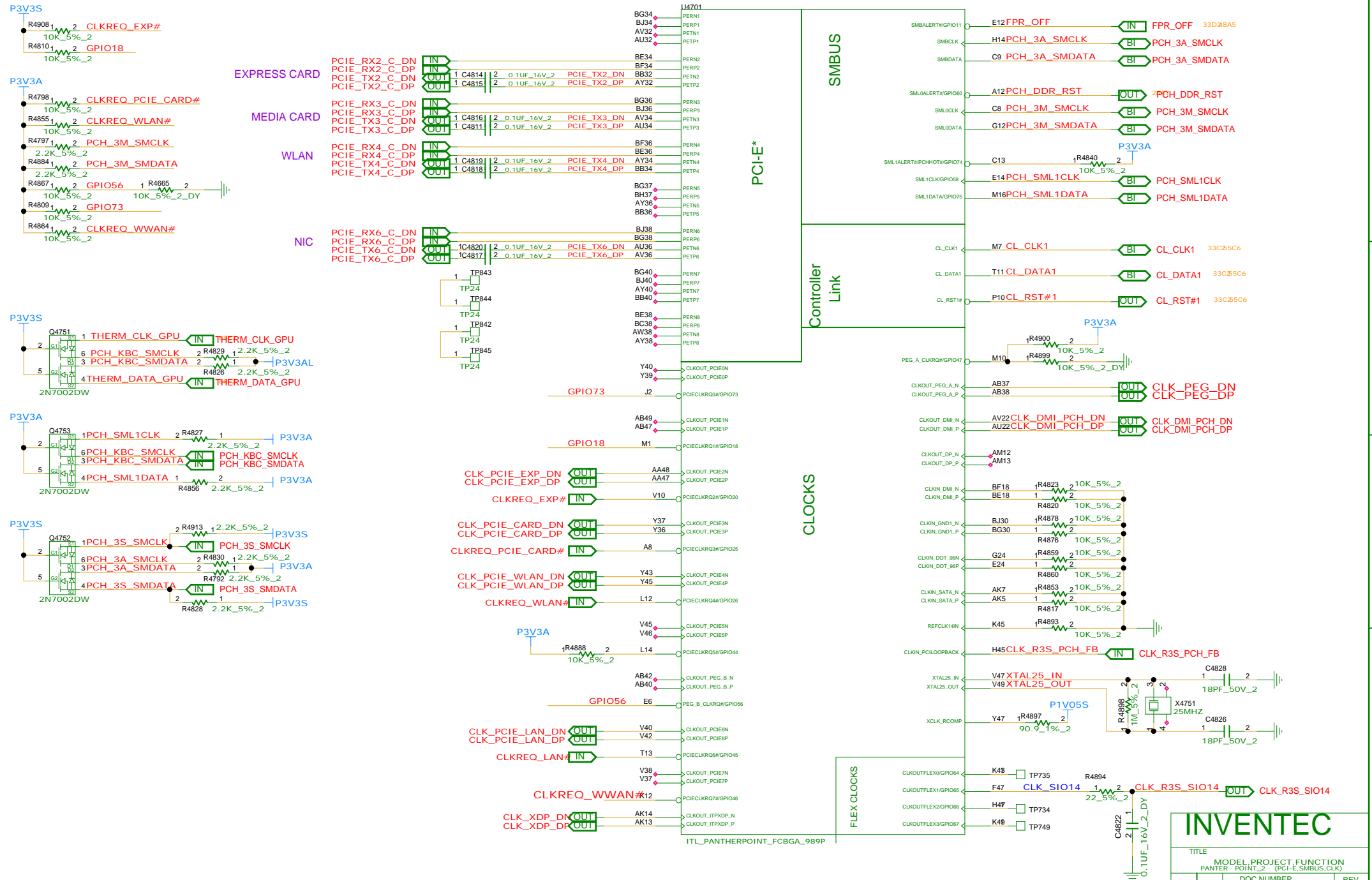
B

A



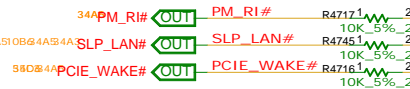


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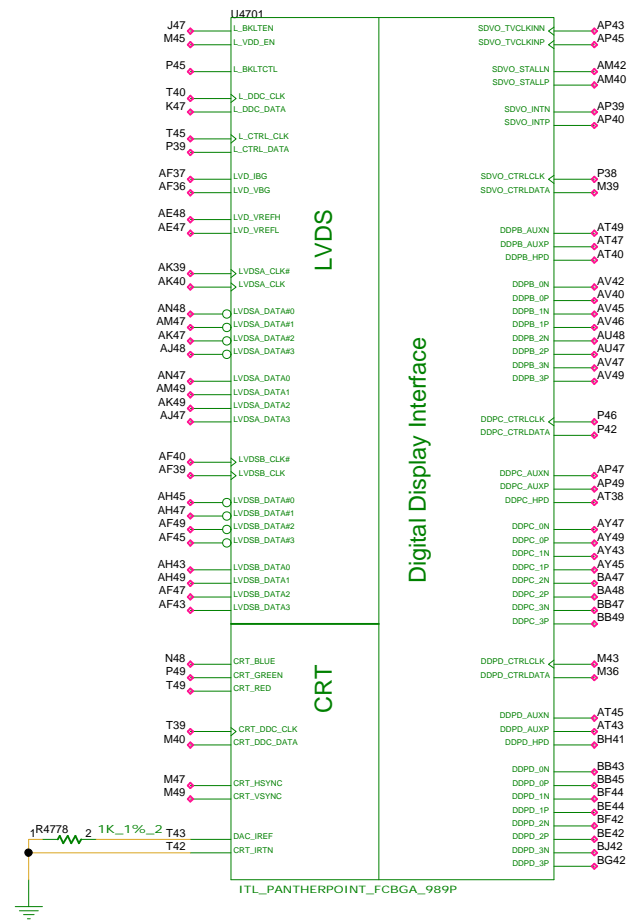
### 3.PCH\_DPWROK PULL UP TO +V3S ENABLES DSW WUPPORT. NO INSTALL R5261 TO DISABLE DSW

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



SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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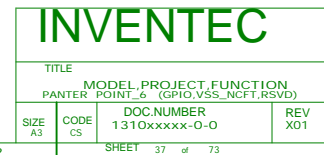
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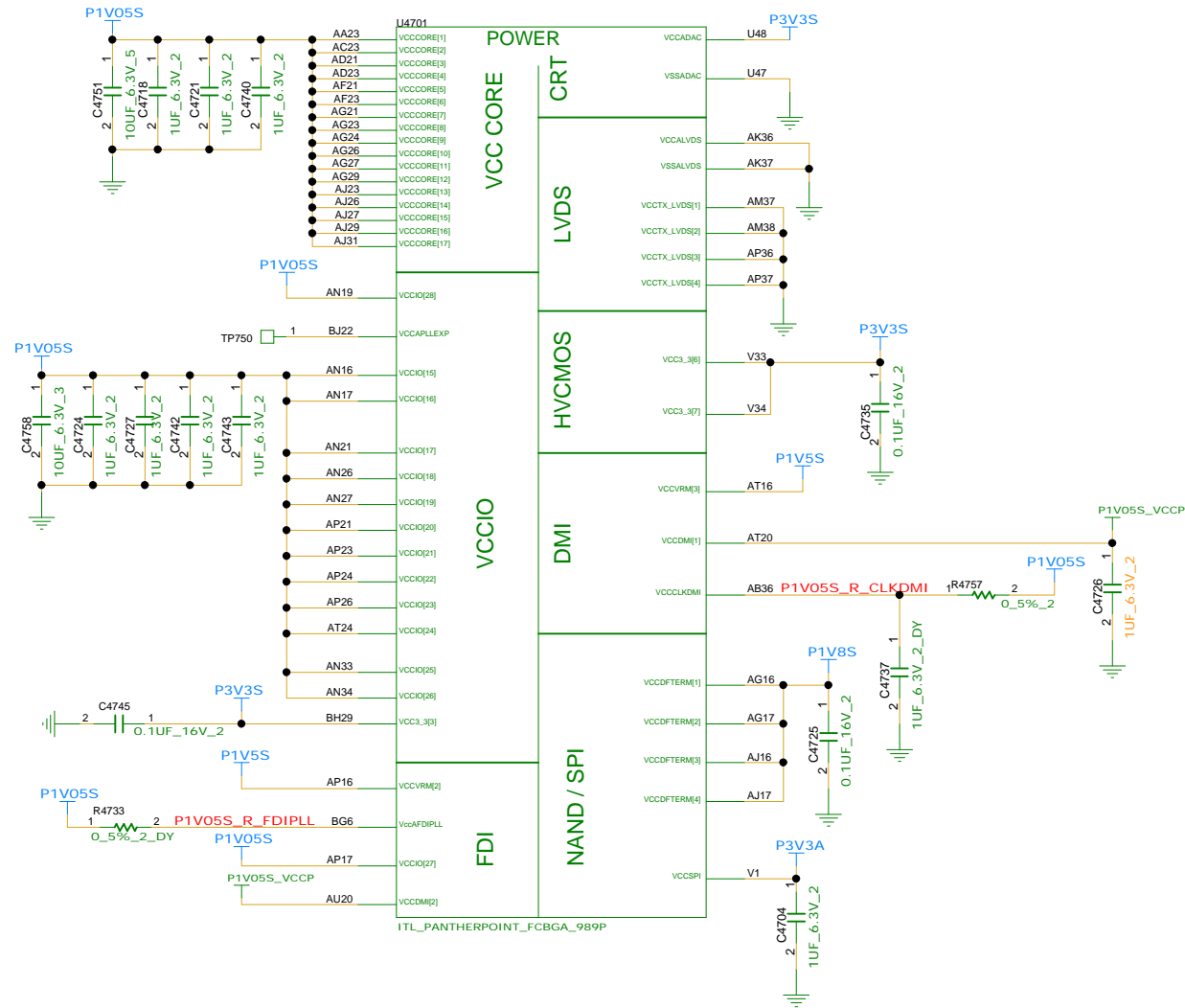
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION PANTHER POINT_4 (LVDS,DDI)			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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<http://sualaplikasi345.edu.vn>



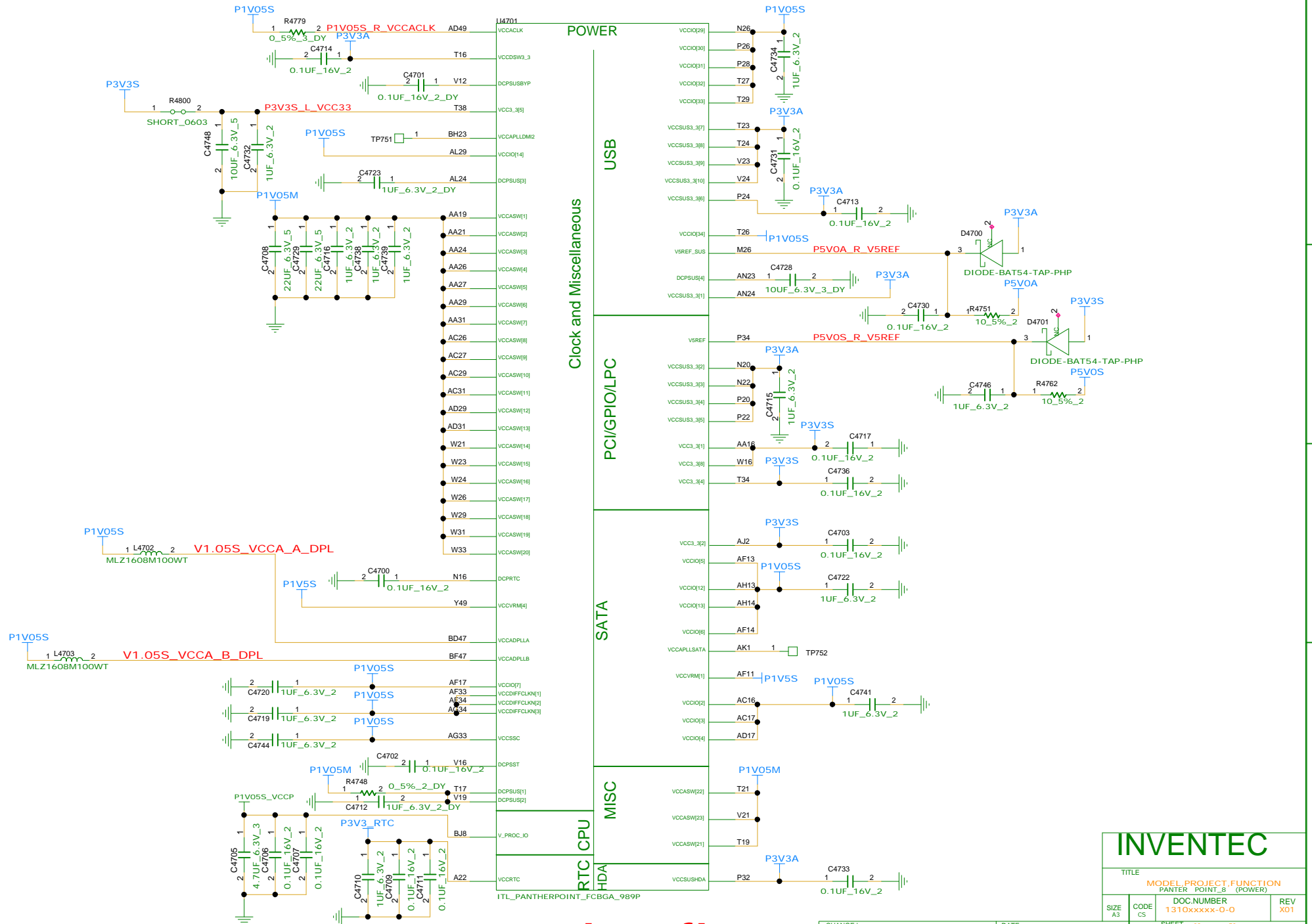
REFERENCE NUMER : 4700~4949



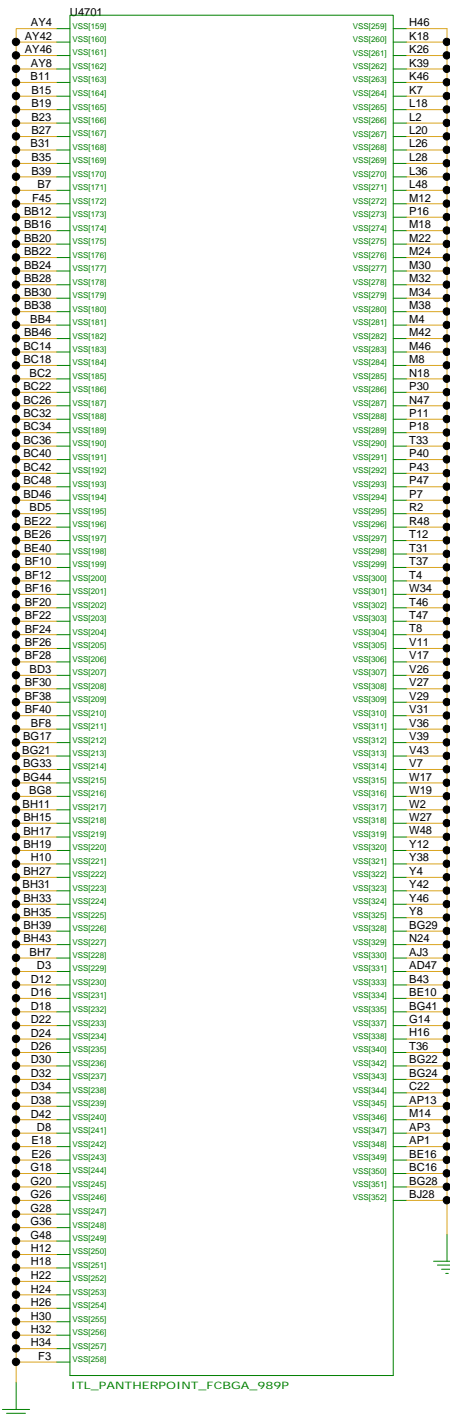
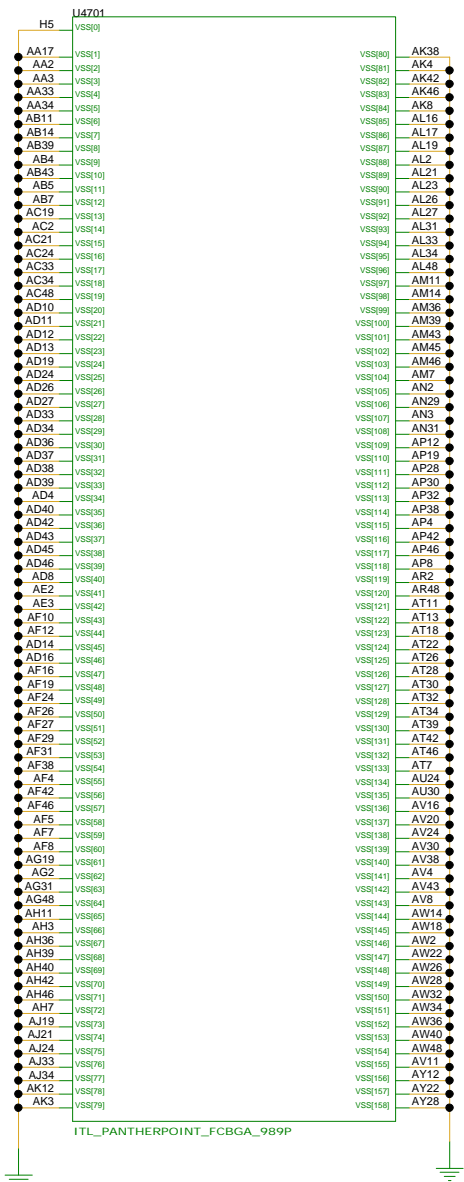
INVENTEC			
TITLE			
MODEL PROJECT FUNCTION PANTHER POINT_7 (POWER)			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 38 of 73			

CHANGE by XXX DATE 21-OCT-2002

REFERENCE NUMBER : 4700~4949

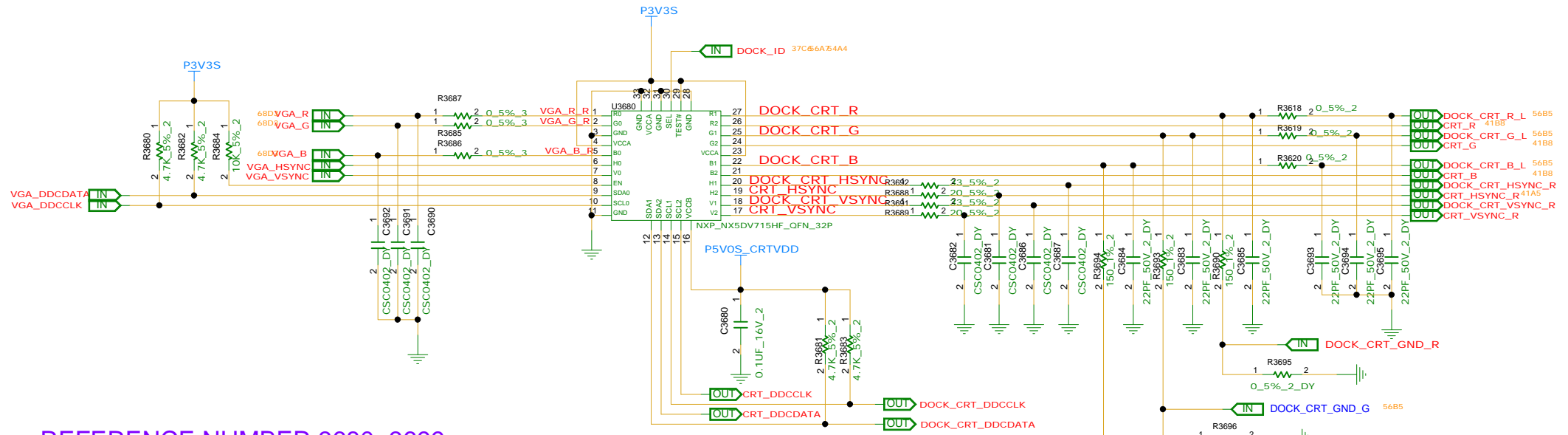


REFERENCE NUMBER : 4700~4949

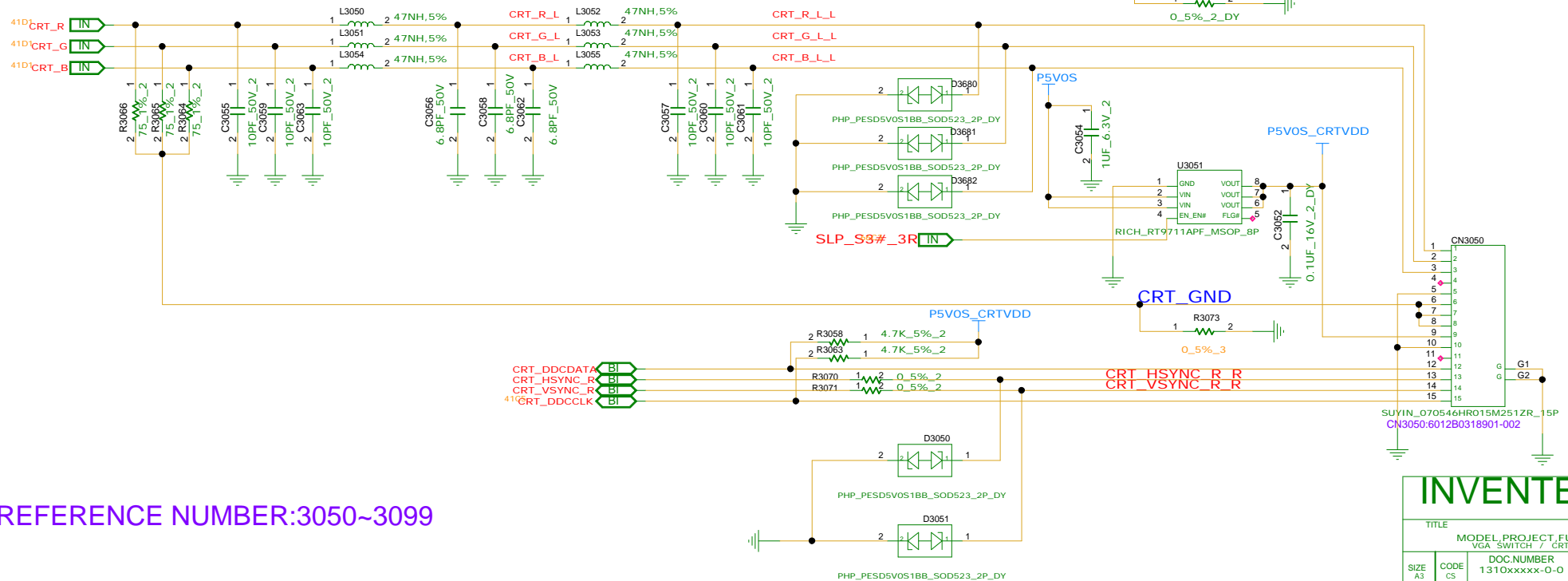


INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
PANTER POINT-9 (GND)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-O-O	X01
SHEET 40 of 73			





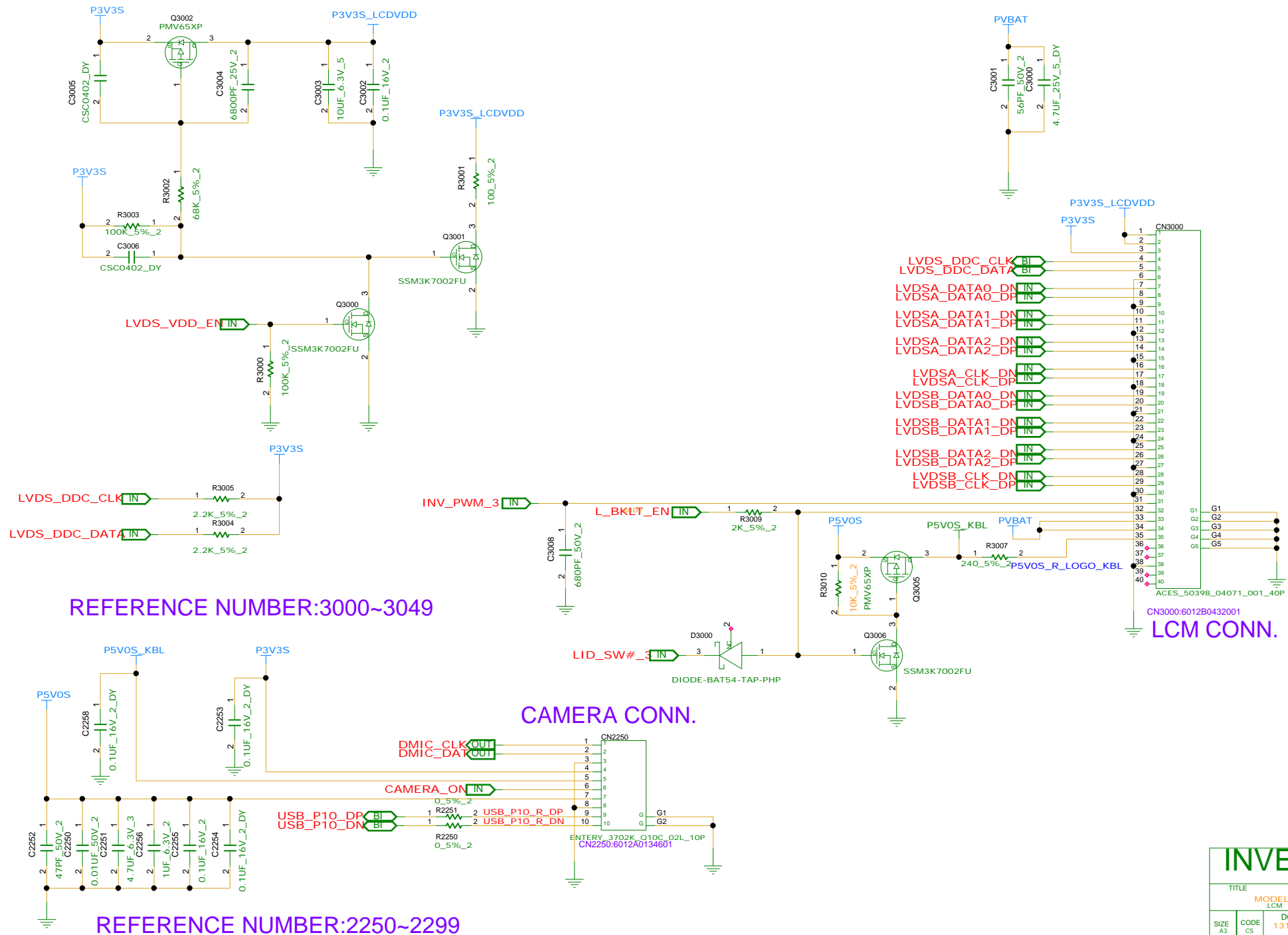
REFERENCE NUMBER:3680~3699



REFERENCE NUMBER:3050~3099

INVENTEC				
TITLE				
MODEL PROJECT FUNCTION				
VGA SWITCH / CRT				
DOC NUMBER				
1310xxxxx-0-0				
REV				
X01				
SIZE	CODE	DATE		SHEET
A3	CS	21-OCT-2002		41 of 73





INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
LCM & WEBCAM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
CHANGE by		DATE	SHEET
XXX		21-OCT-2002	43 of 73

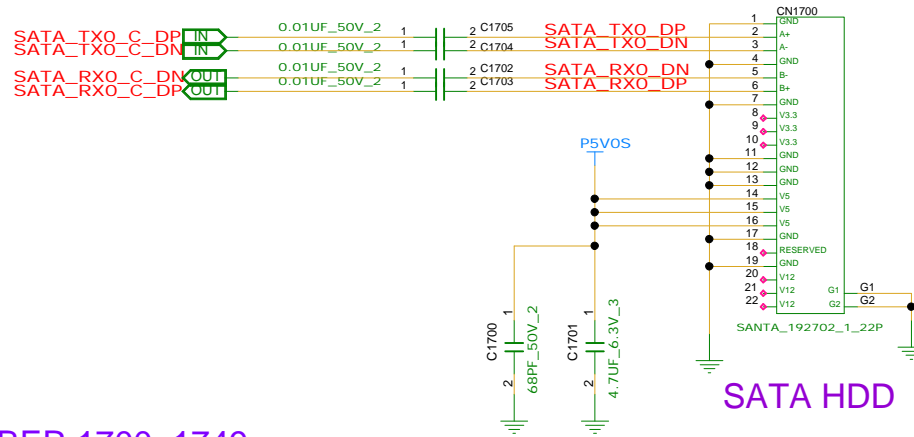
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REFERENCE NUMBER:3400~3499

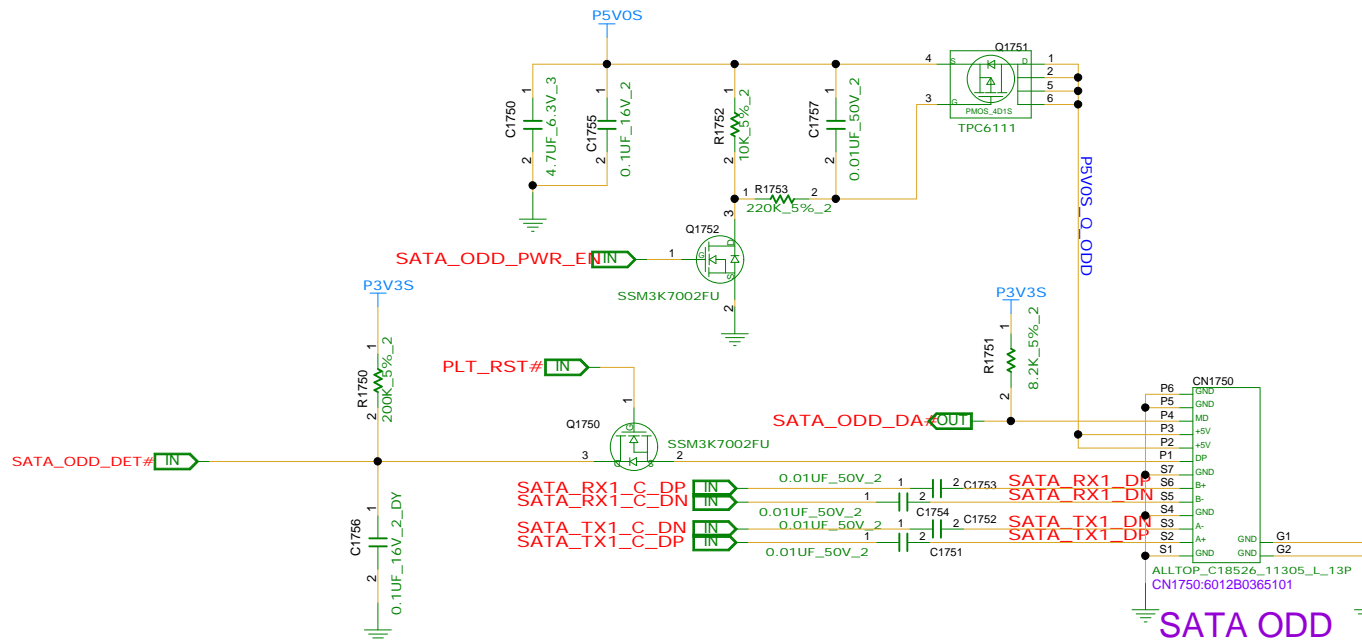
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
EDP TO LVDS			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 44 of 73			

CHANGE by	XXX	DATE	21-OCT-2002
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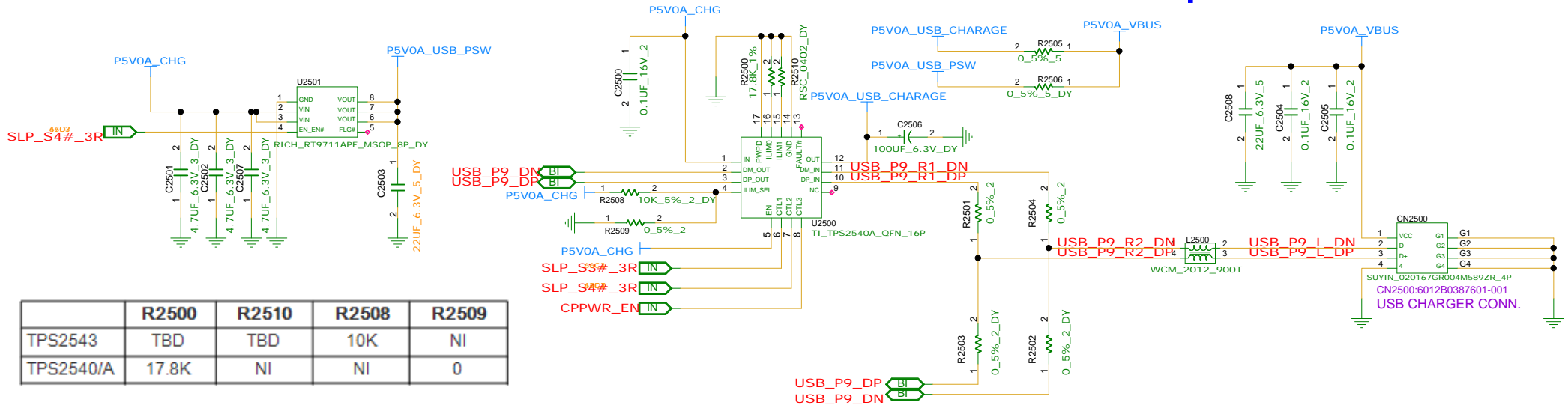


REFERENCE NUMBER:1700~1749

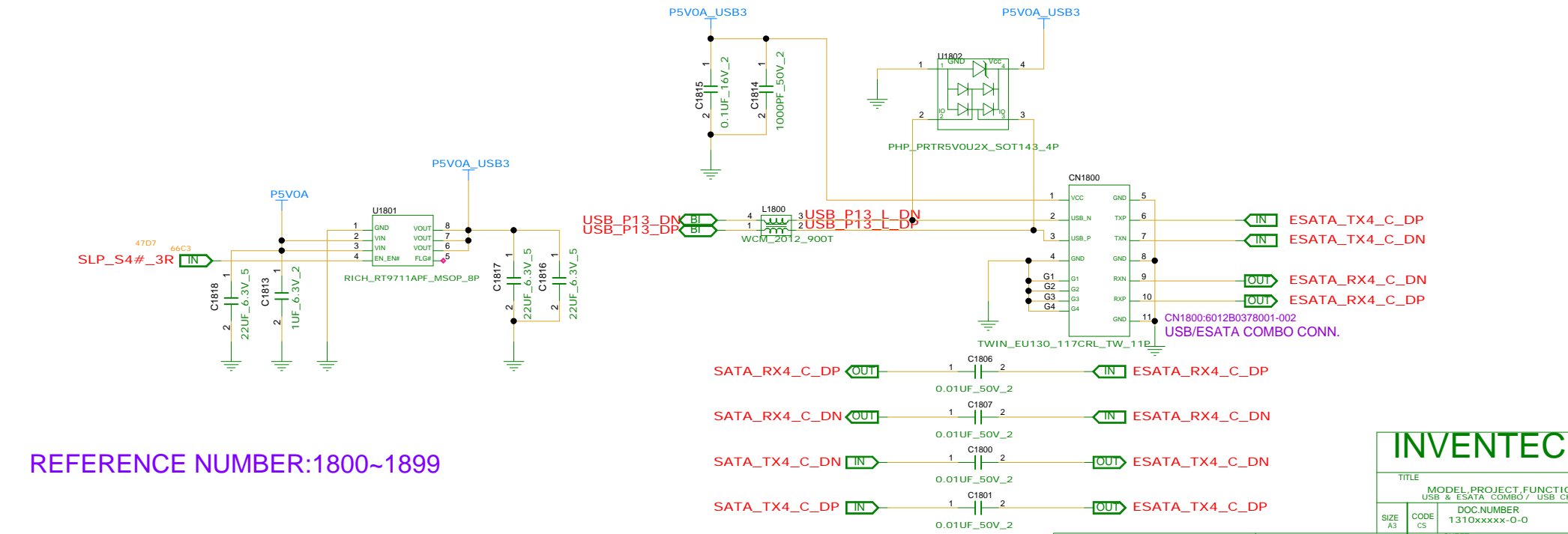


REFERENCE NUMBER:1750~1799

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
SATA HDD & ODD CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 45 of 73			

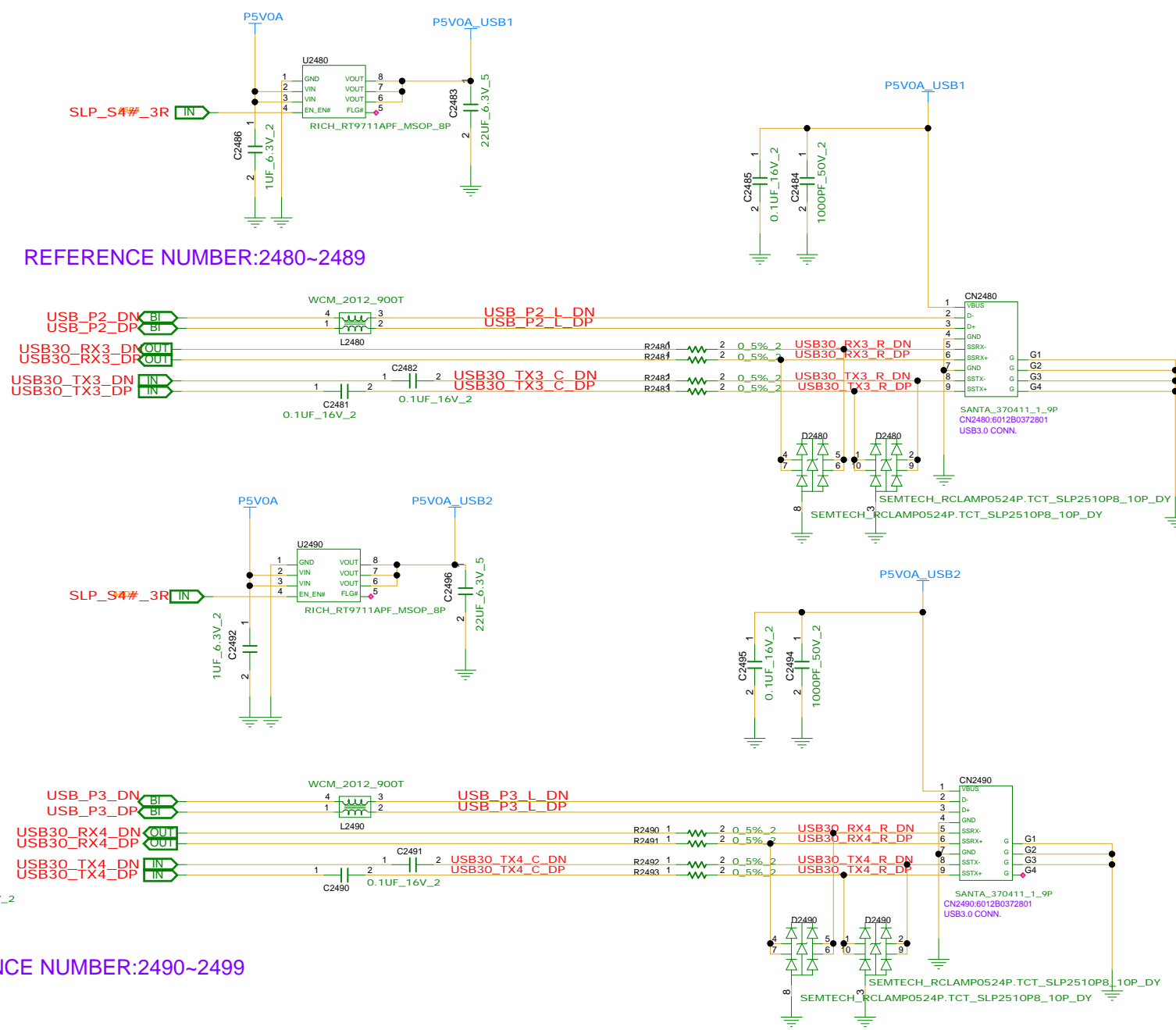


REFERENCE NUMBER:2500~2599



REFERENCE NUMBER:1800~1899

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION USB & ESATA COMBO / USB CHARGER			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 46 of 73			

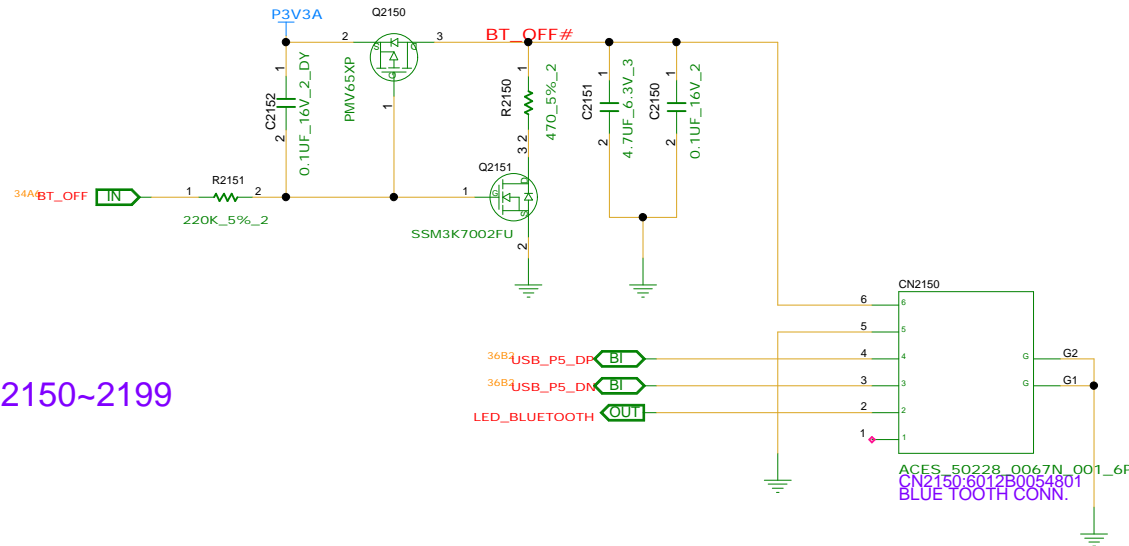


REFERENCE NUMBER:2480~2489

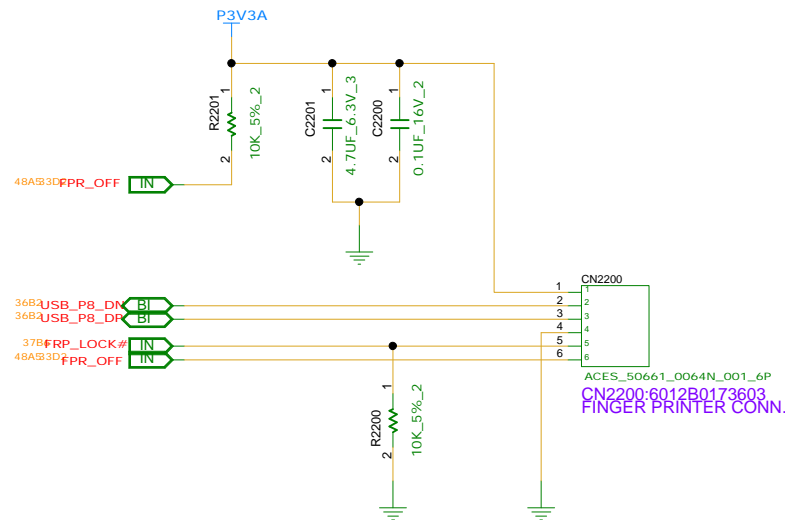
REFERENCE NUMBER:2490~2499

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
USB CONN.			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
CHANGE by		DATE	SHEET
XXX		21-OCT-2002	47 of 73

REFERENCE:2150~2199



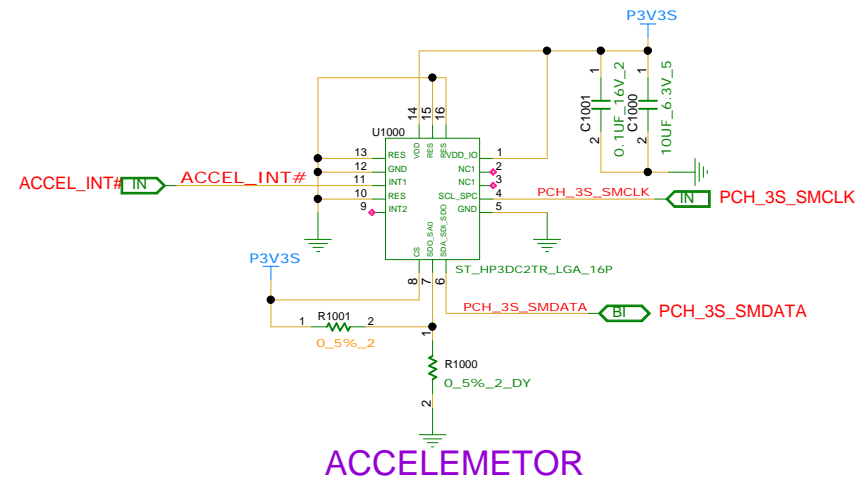
REFERENCE:2200~2249



INVENTEC				
TITLE				
MODEL PROJECT FUNCTION				
BLUE TOOTH & FINGER PRINTER CNTR				
DOC NUMBER				
1310xxxxx-0-0				
REV				
X01				
SIZE	CODE	SHEET		1
A3	CS	48 of 73		



REFERENCE NUMER : 1000~1099



INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION ACCELEMETER			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 49 of 73			

CHANGE by XXX DATE 21-OCT-2002

REFERENCE NUMBER : 300~399

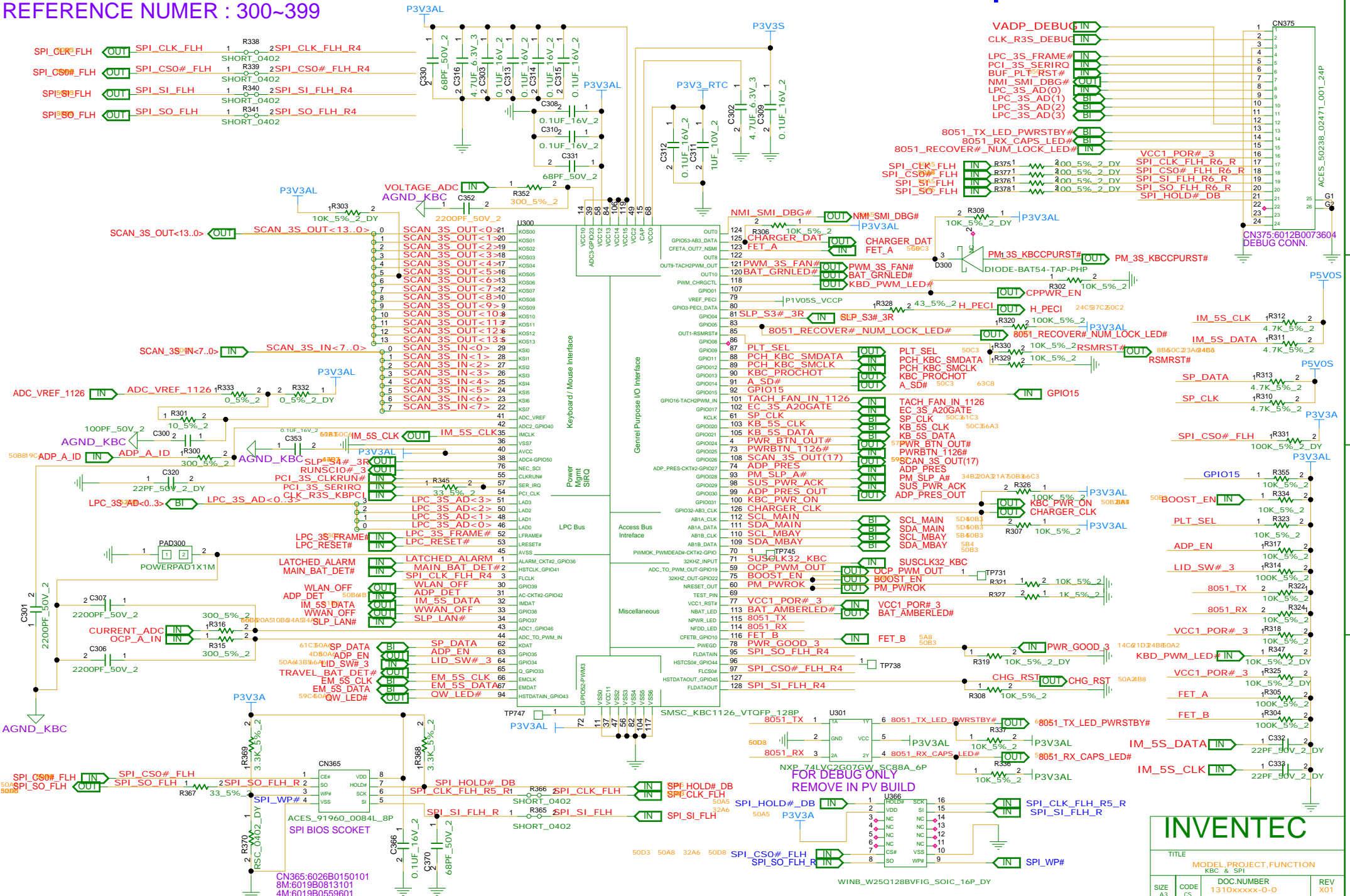
D

C

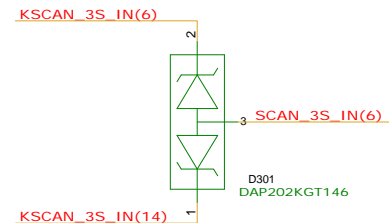
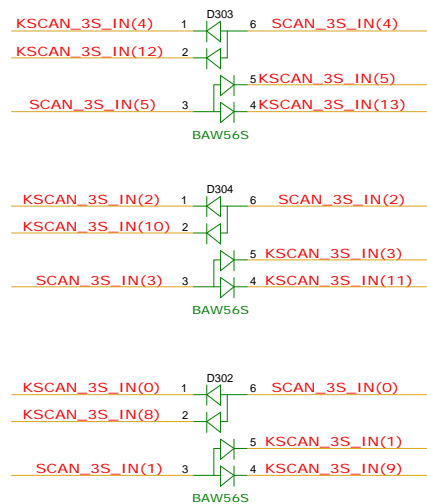
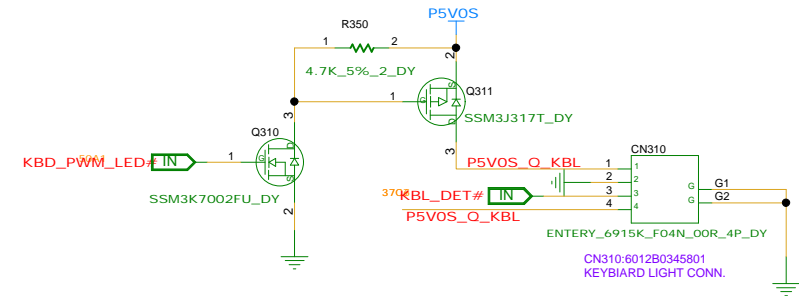
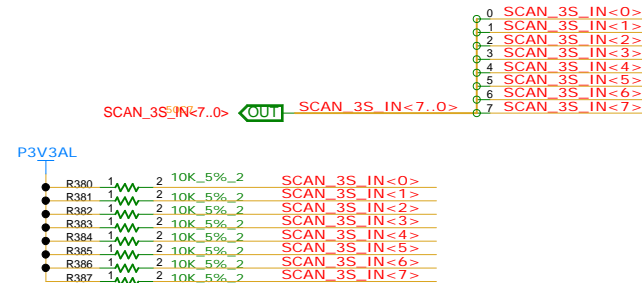
B

A

A

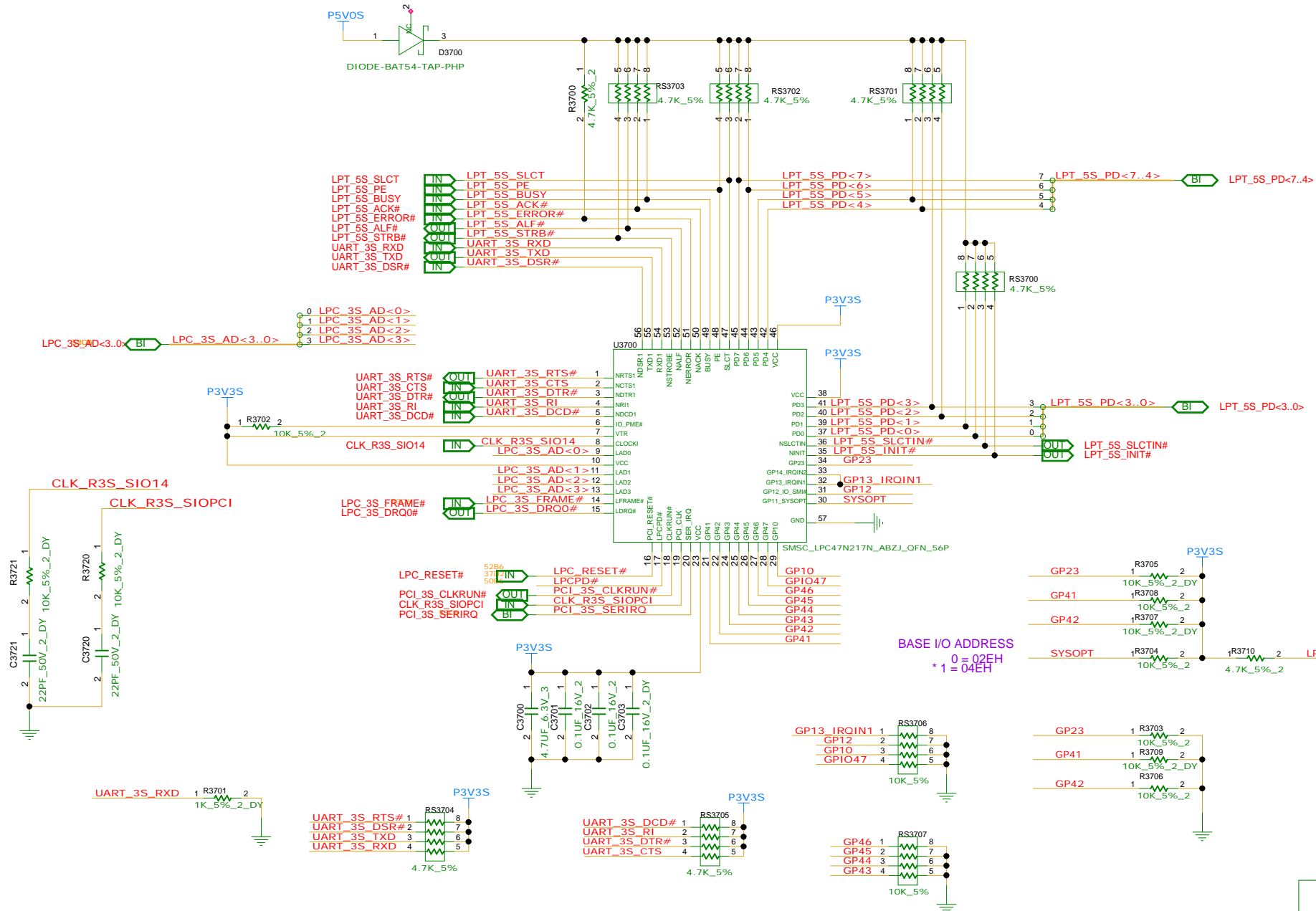


# REFERENCE NUMER : 300~389

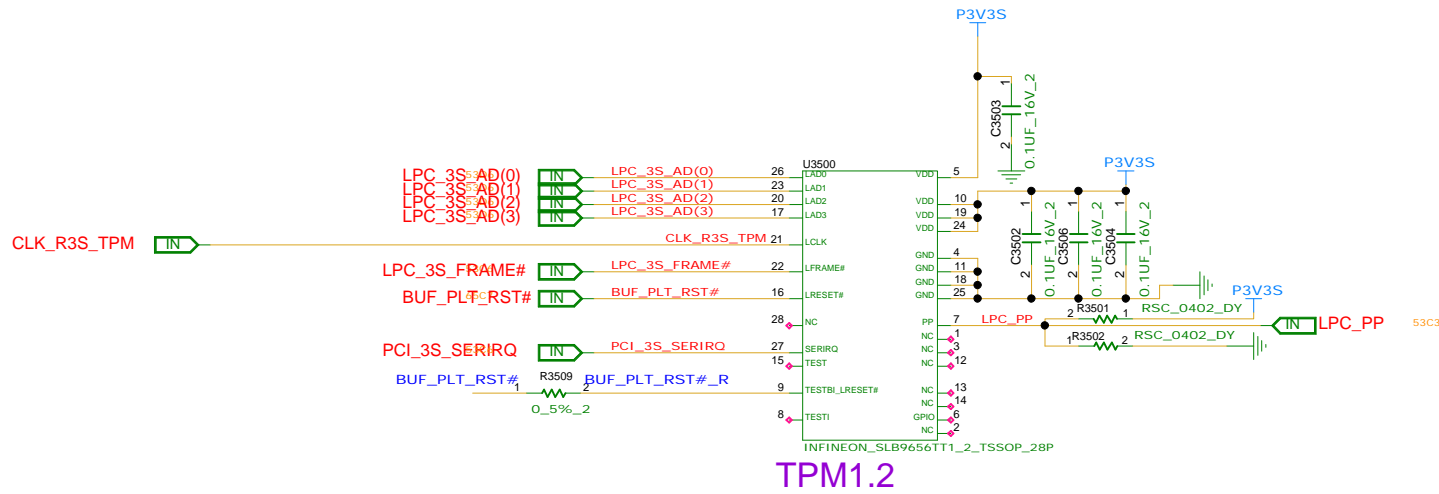


INVENTEC			
TITLE			
MODEL, PROJECT, FUNCTION			
KEYBOARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 51 of 73			

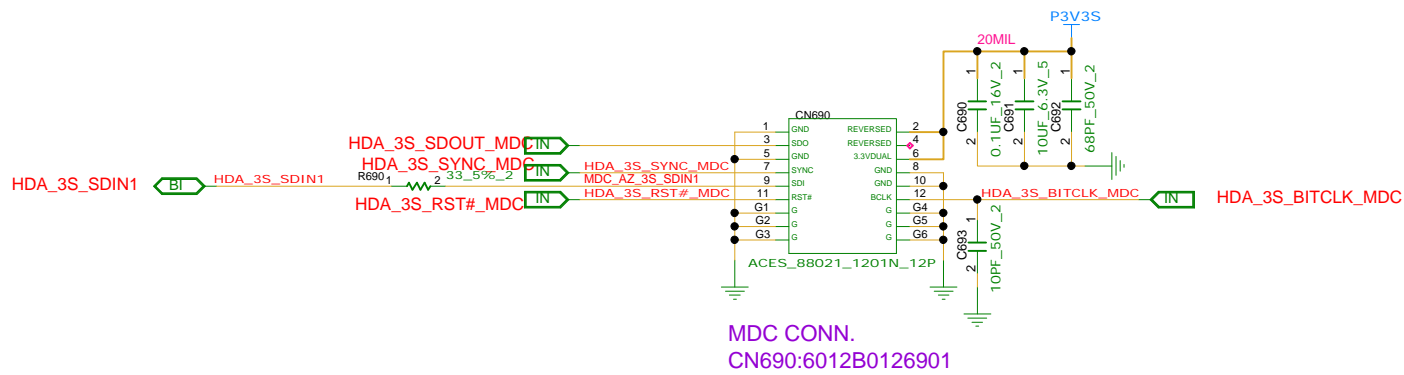
REFERENCE NUMER : 3700~3799



REFERENCE NUMER : 3500~3549



REFERENCE NUMER : 650~699



INVENTEC

TITLE MODEL PROJECT FUNCTION

TPM & MDC

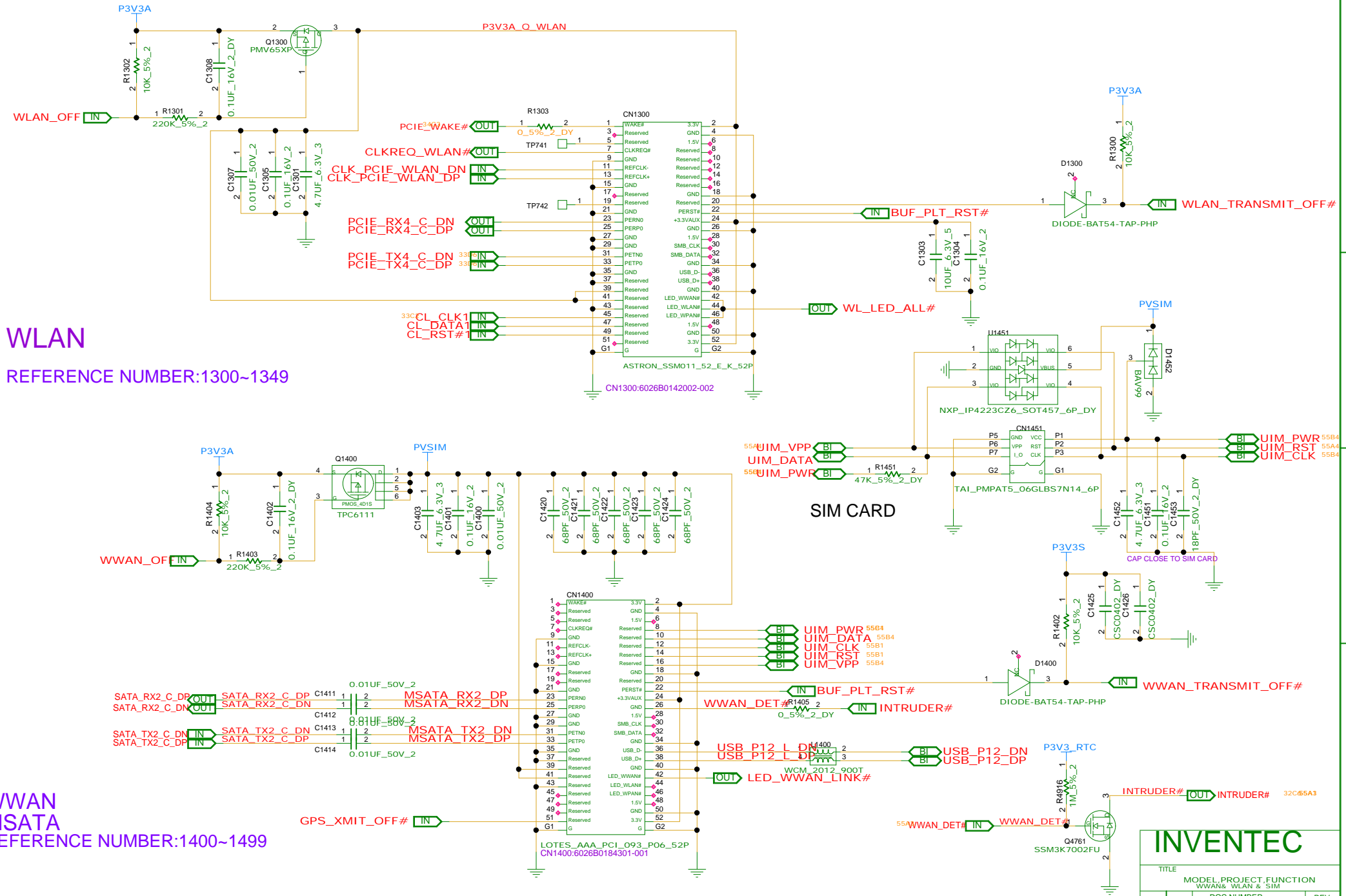
DOC NUMBER 1310xxxxx-0-0

REV X01

SHEET 53 of 73

CHANGE by XXX DATE 21-OCT-2002

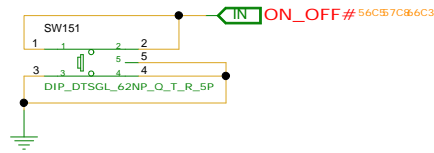




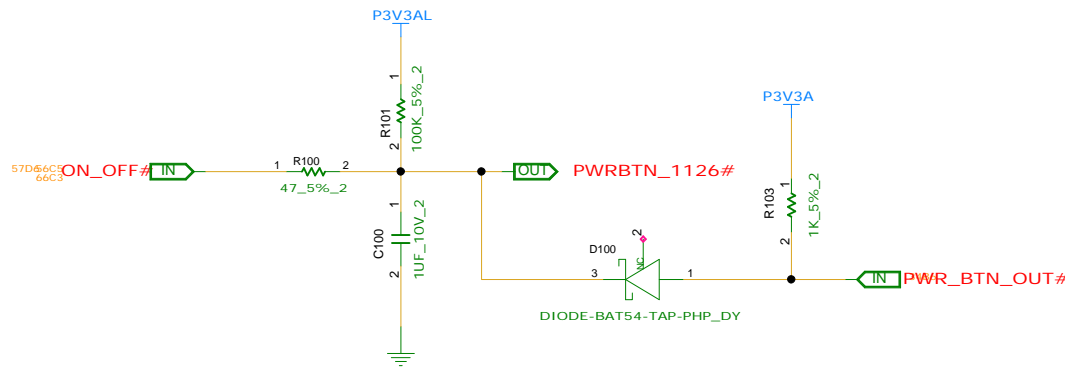
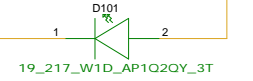




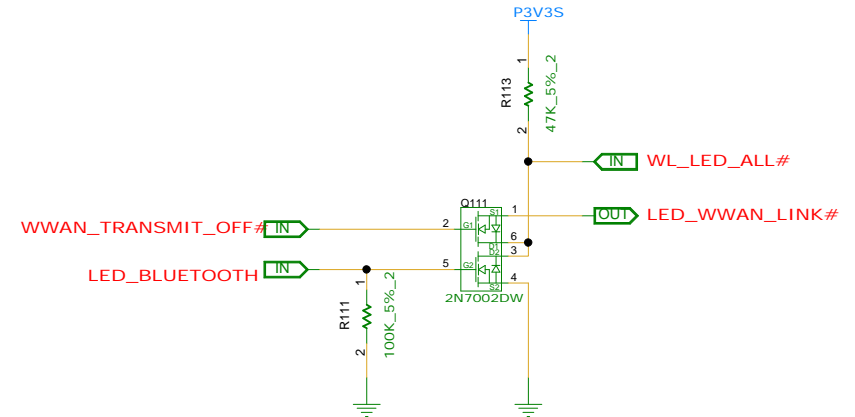




8051\_TX\_LED\_PWRSTBY#



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 1310xxxxx-0-0	REV X01

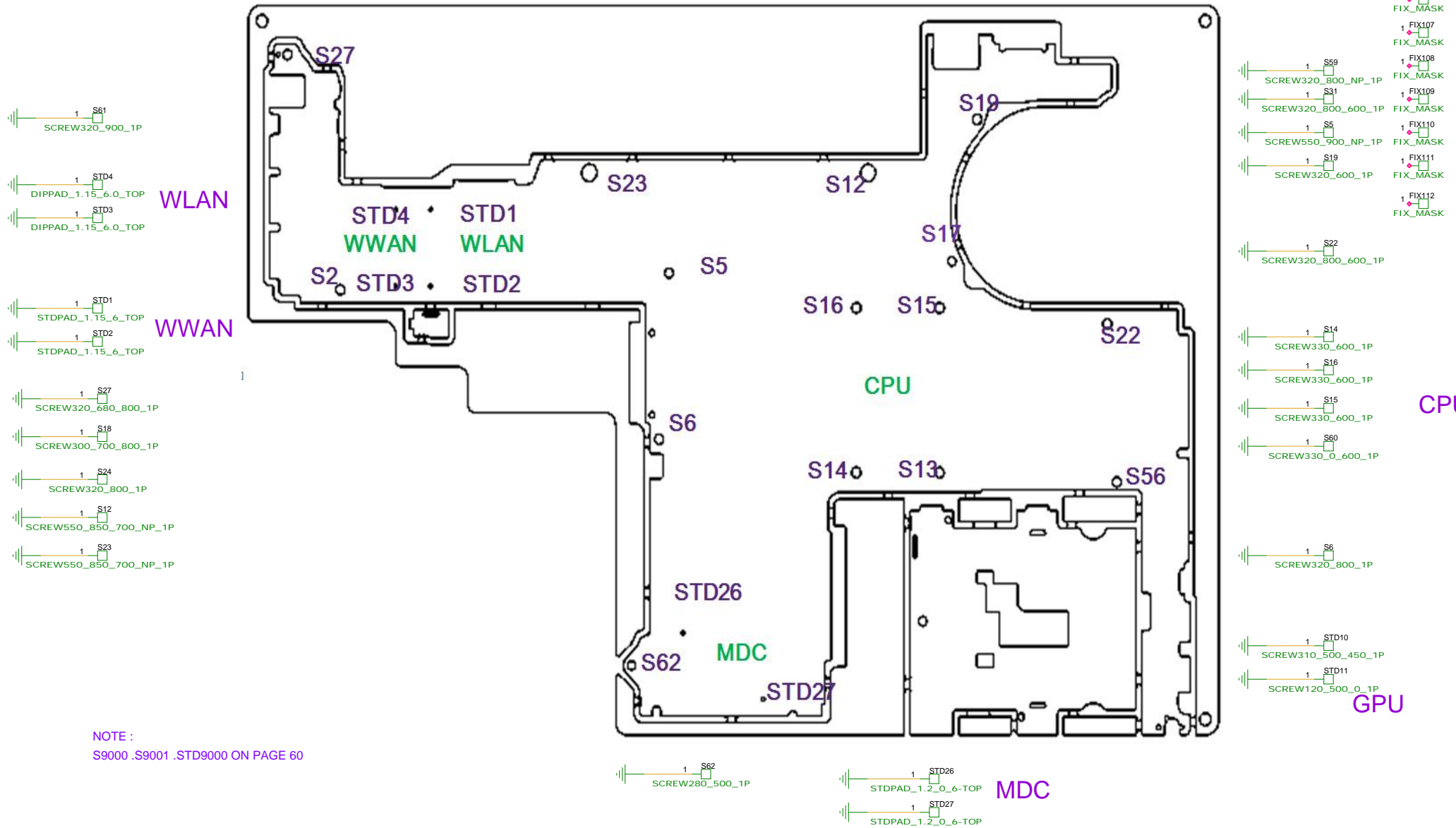
CHANGE by XXX DATE 21-OCT-2002

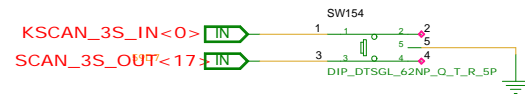
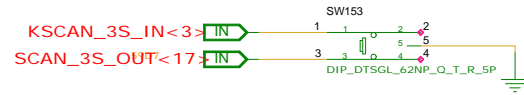
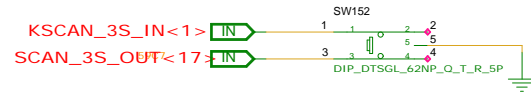
SHEET 57 of 73

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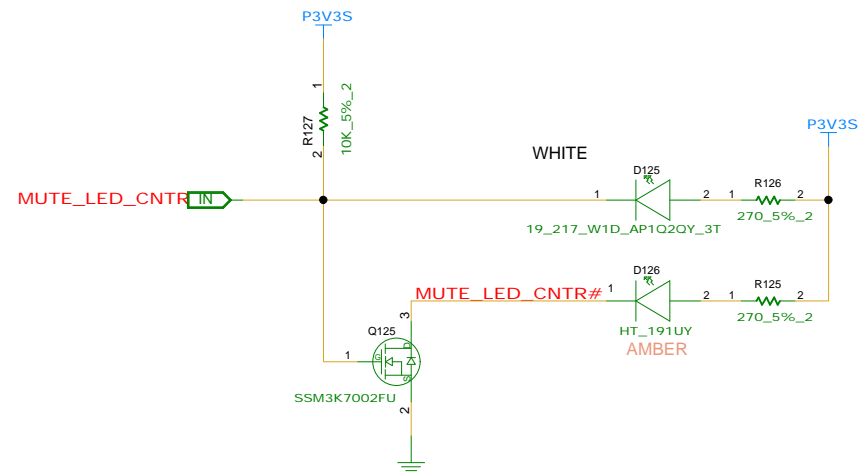
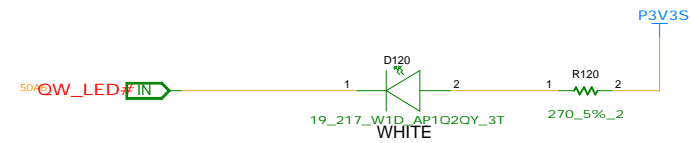
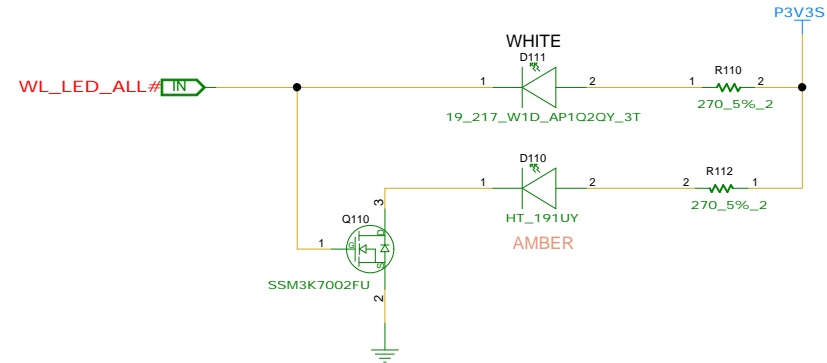
73

SHEET 58 of 73



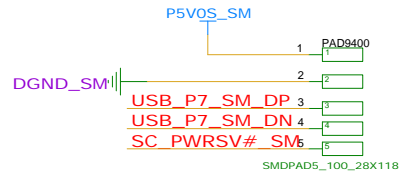


REFERENCE NUMBER:100~199



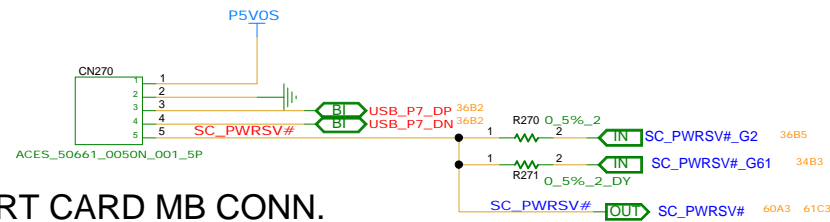
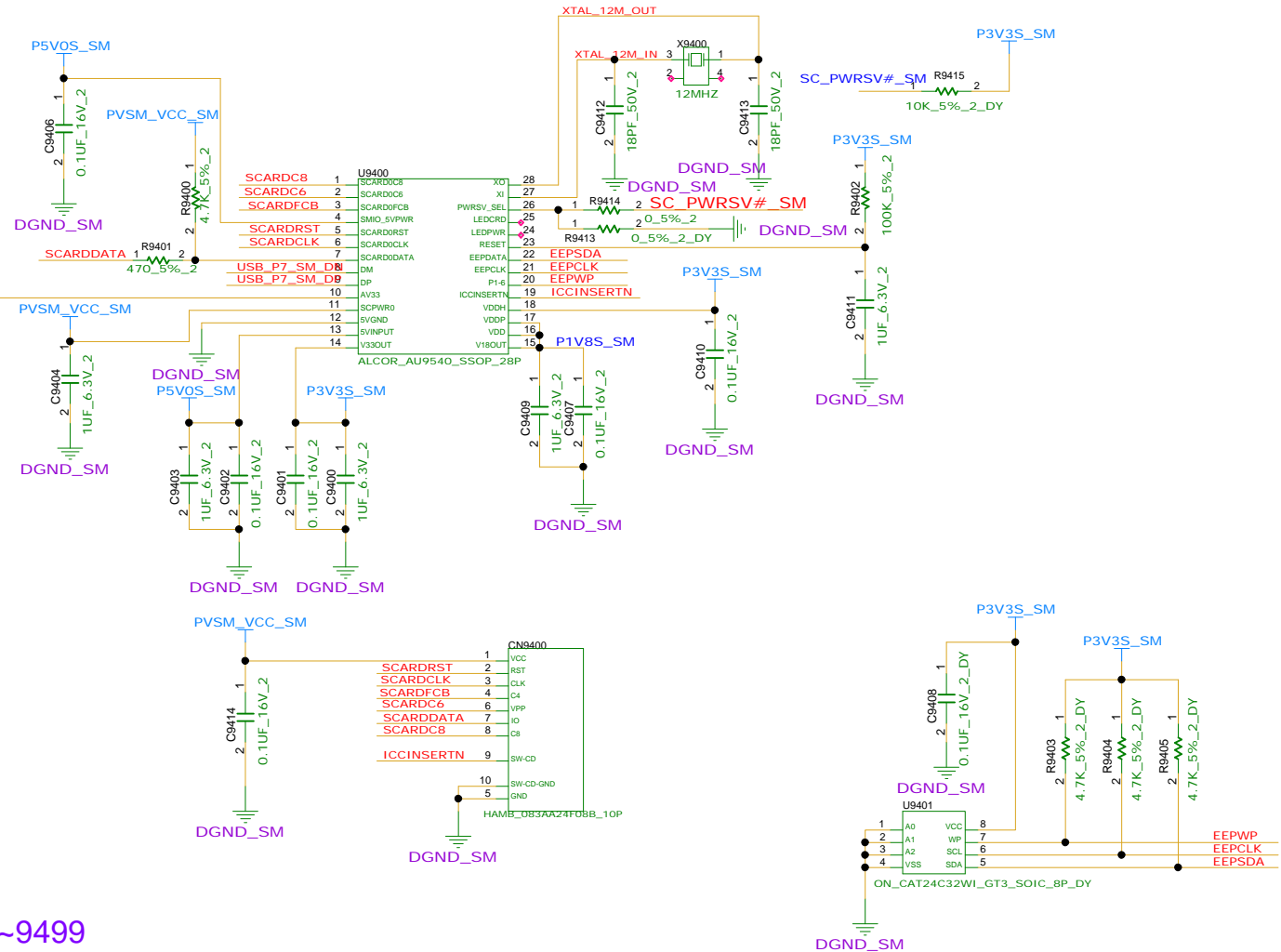
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
WIRELESS / QUICK WEB / MUTE LED			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 59 of 73			

FIX9401  
FIX\_MASK  
FIX9402  
FIX\_MASK  
FIX9403  
FIX\_MASK  
FIX9404  
FIX\_MASK  
FIX9405  
FIX\_MASK  
FIX9406  
FIX\_MASK  
FIX9407  
FIX\_MASK  
FIX9408  
FIX\_MASK



SMART CARD DB

REFERENCE NUMBER:9400~9499

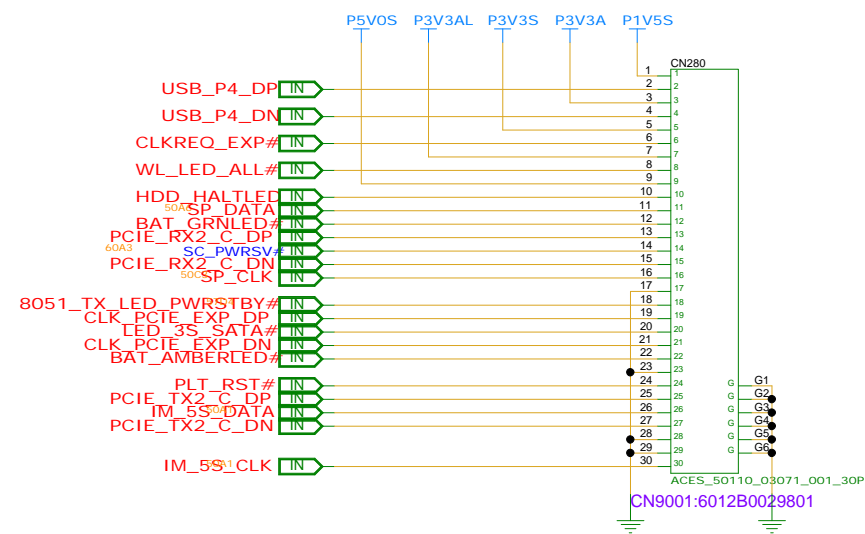


SMART CARD MB CONN.

INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
SMART CARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
SHEET 60 of 73			

CHANGE by XXX DATE 21-OCT-2002



EXPRESS CARD MB CONN.

INVENTEC			
TITLE			
MODEL PROJECT FUNCTION			
EXPRESS CARD CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

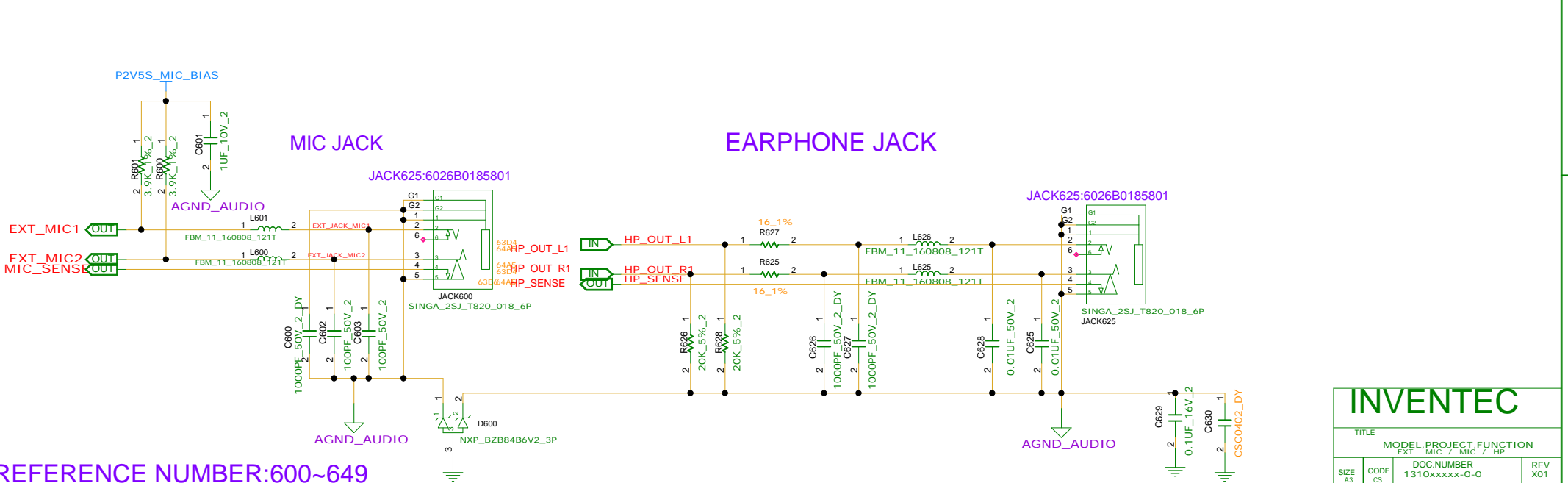
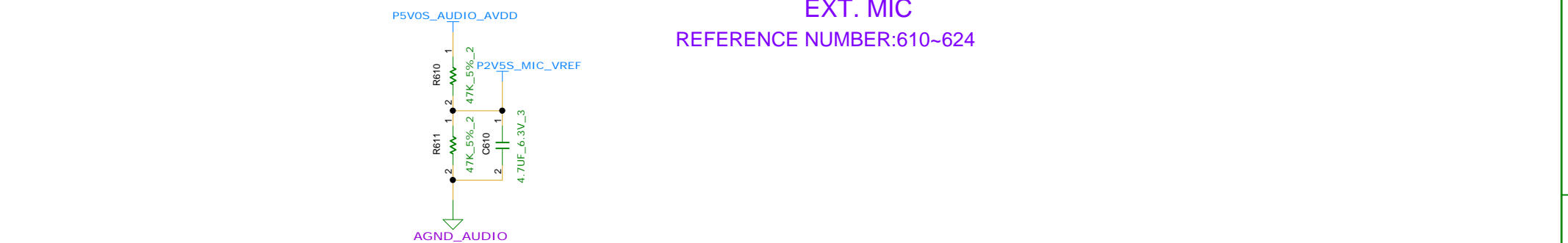
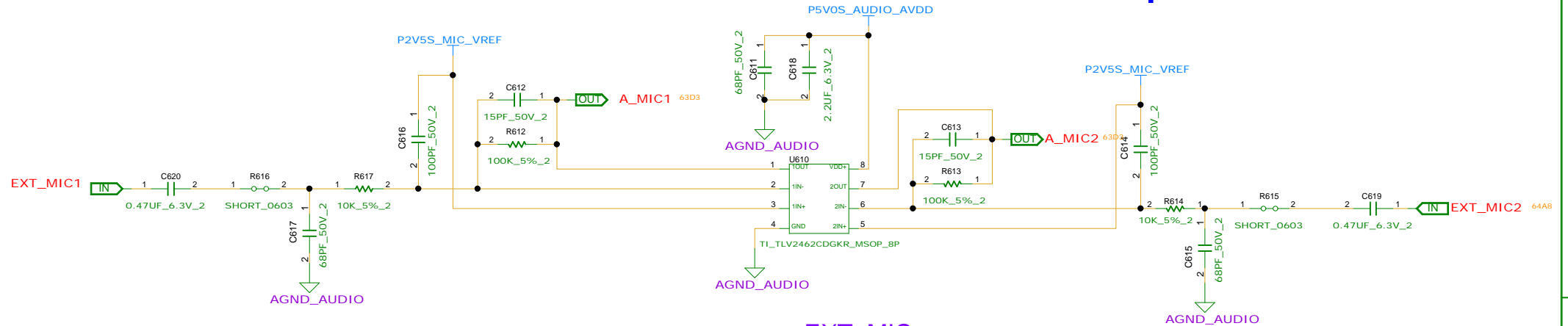
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INVENTEC

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

CHANGE by XXX		DATE 21-OCT-2002	SHEET 62 of 73
3	2	1	

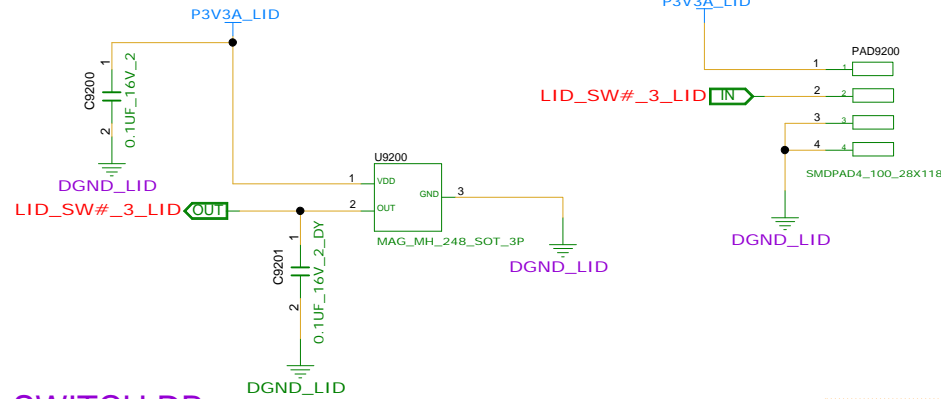




INVENTEC			
TITLE			
MODEL, PROJECT, FUNCTION			
EXT. MIC / MIC / HP			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
CHANGE by		DATE	SHEET
XXX		21-OCT-2002	64 of 73

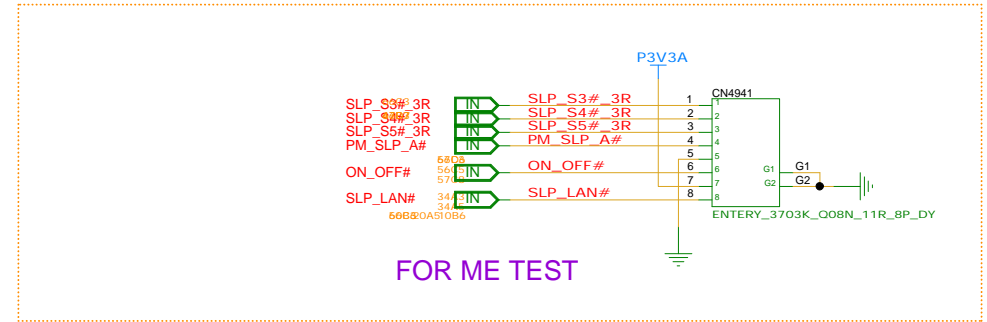




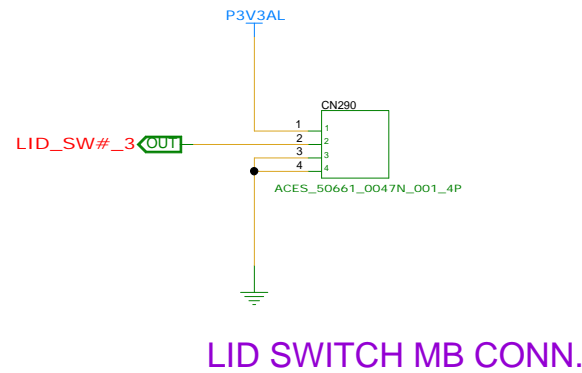


LID SWITCH DB

REFERENCE NUMBER:9200~9299



FOR ME TEST



LID SWITCH MB CONN.

INVENTEC

TITLE MODEL PROJECT,FUNCTION

LID\_SWITCH

DOC.NUMBER 1310xxxxx-0-0

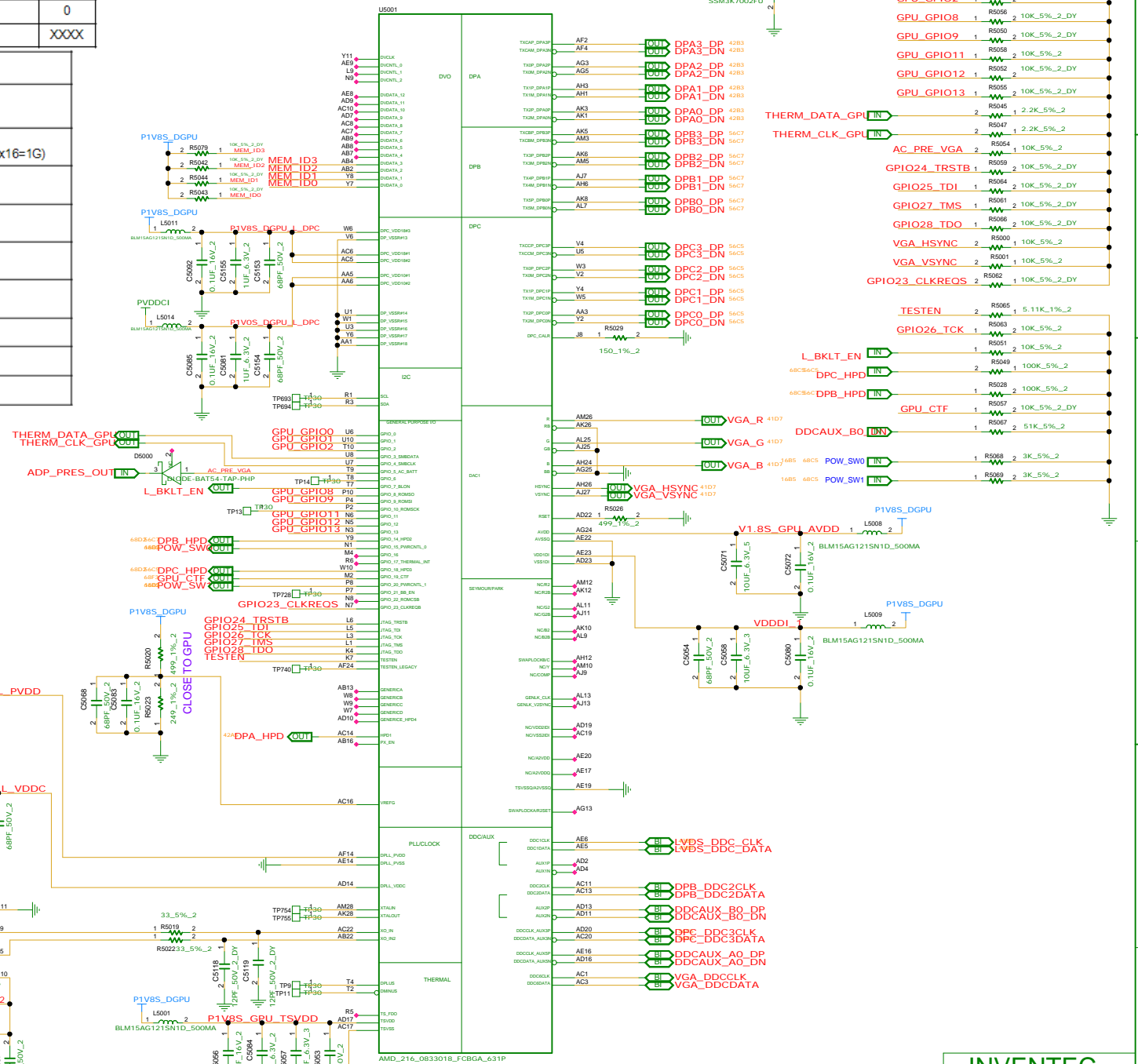
REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 66 of 73



GPIO_13	GPIO_12	GPIO_11	MEMORY APERTURE SIZE
0	0	1	512MB/256MB memory aperture (Default)
1	1	0	Reserved

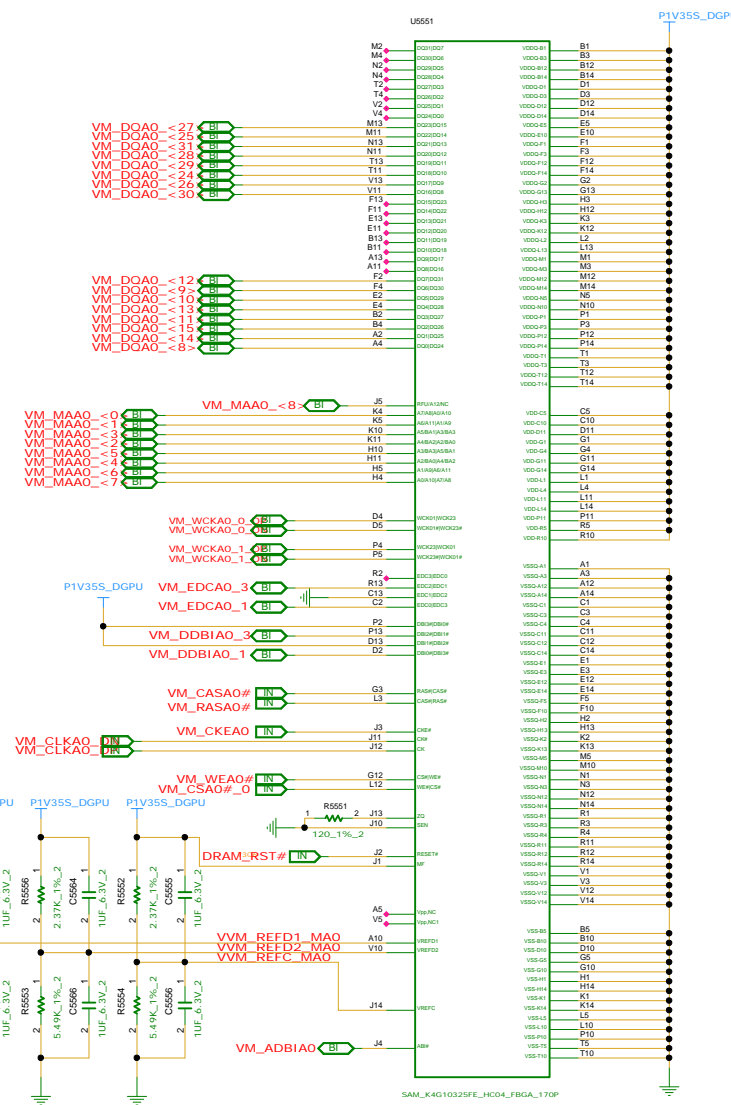
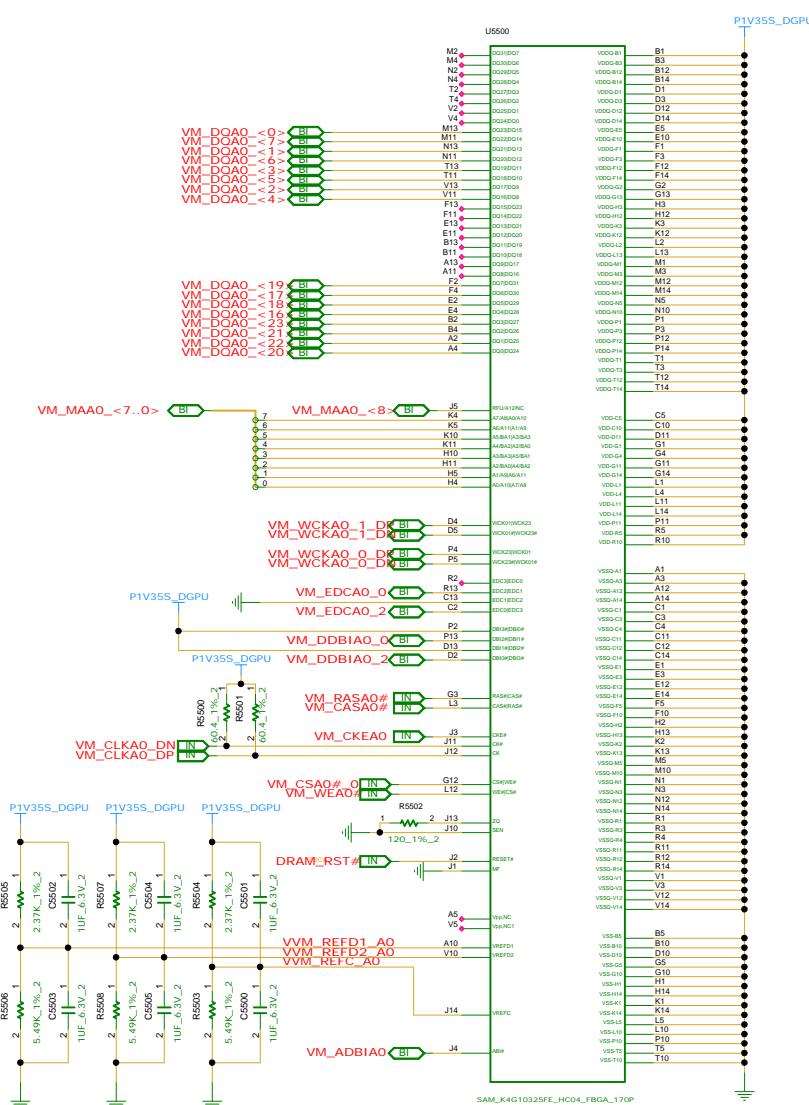


TITLE			
MODEL,PROJECT,FUNCTION AMD-THAMES-1			
SIZE C	CODE CS	DOC.NUMBER 1310xxxxxx-0-0	REV X01





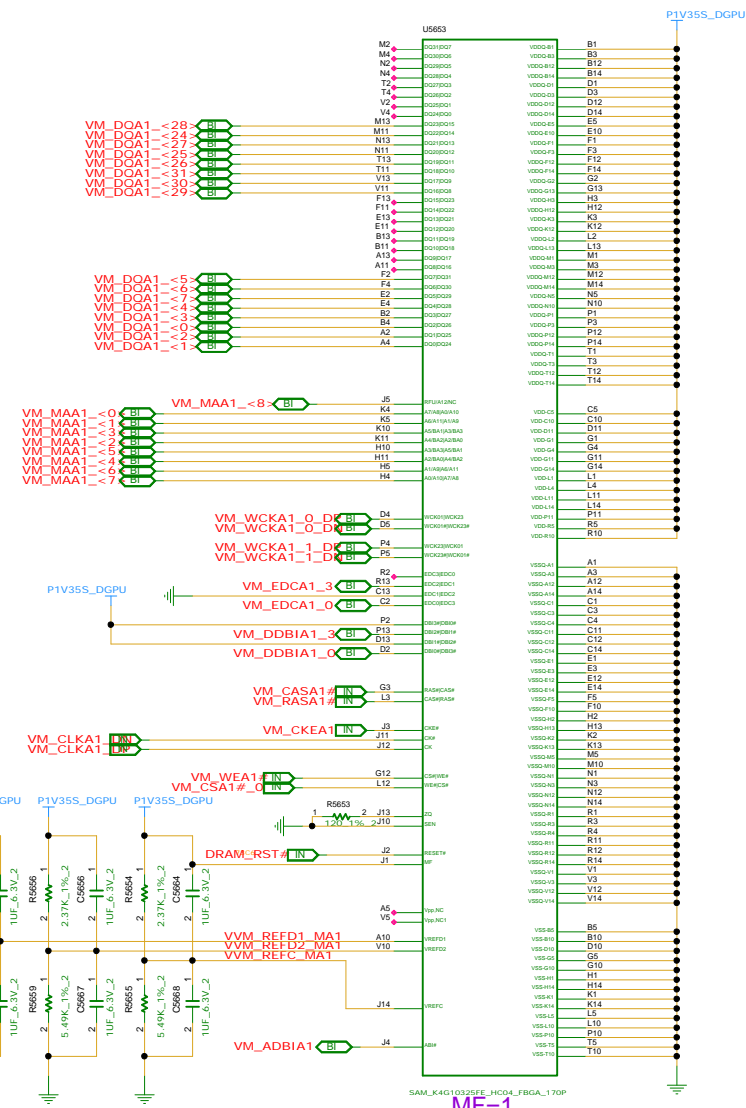
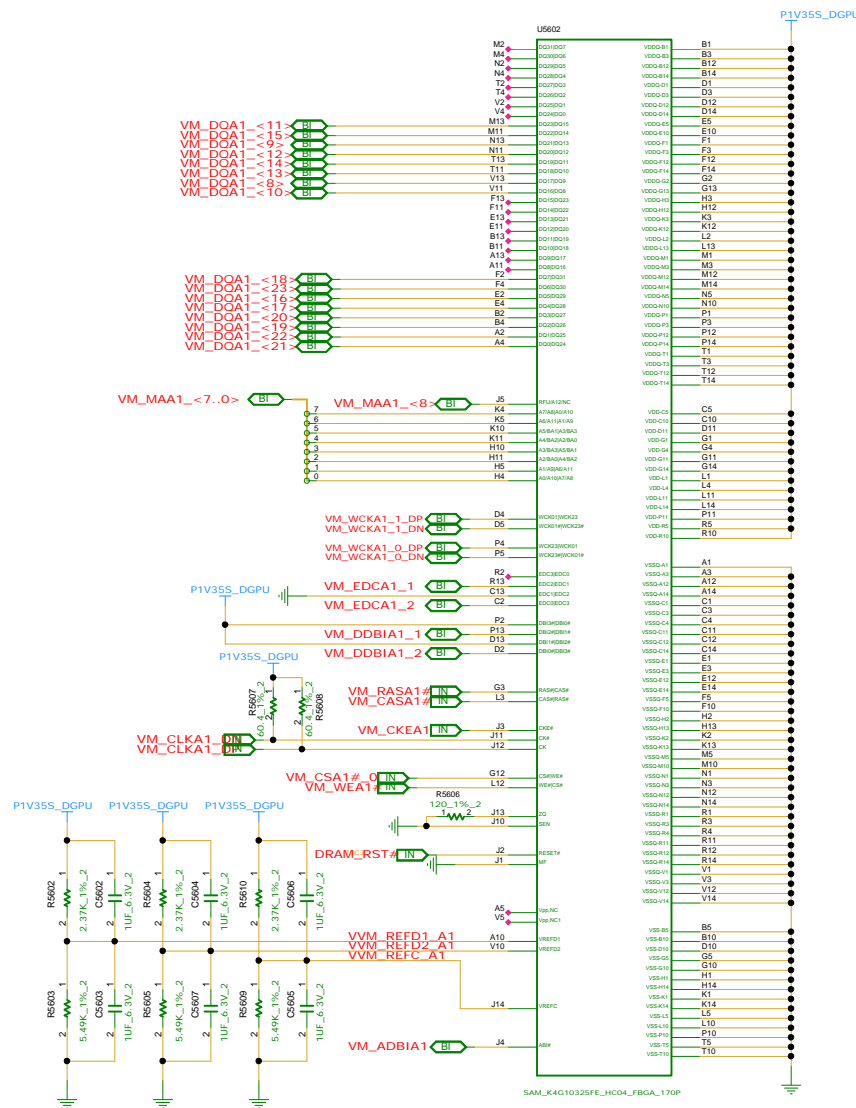




MF=1  
MIRROR

INVENTEC			
TITLE MODEL, PROJECT, FUNCTION VRAM-1			
SIZE C	CODE CS	DOC NUMBER 1310xxxxxx-0-0	REV X01
SHEET		72	of 73





MF=1  
MIRROR