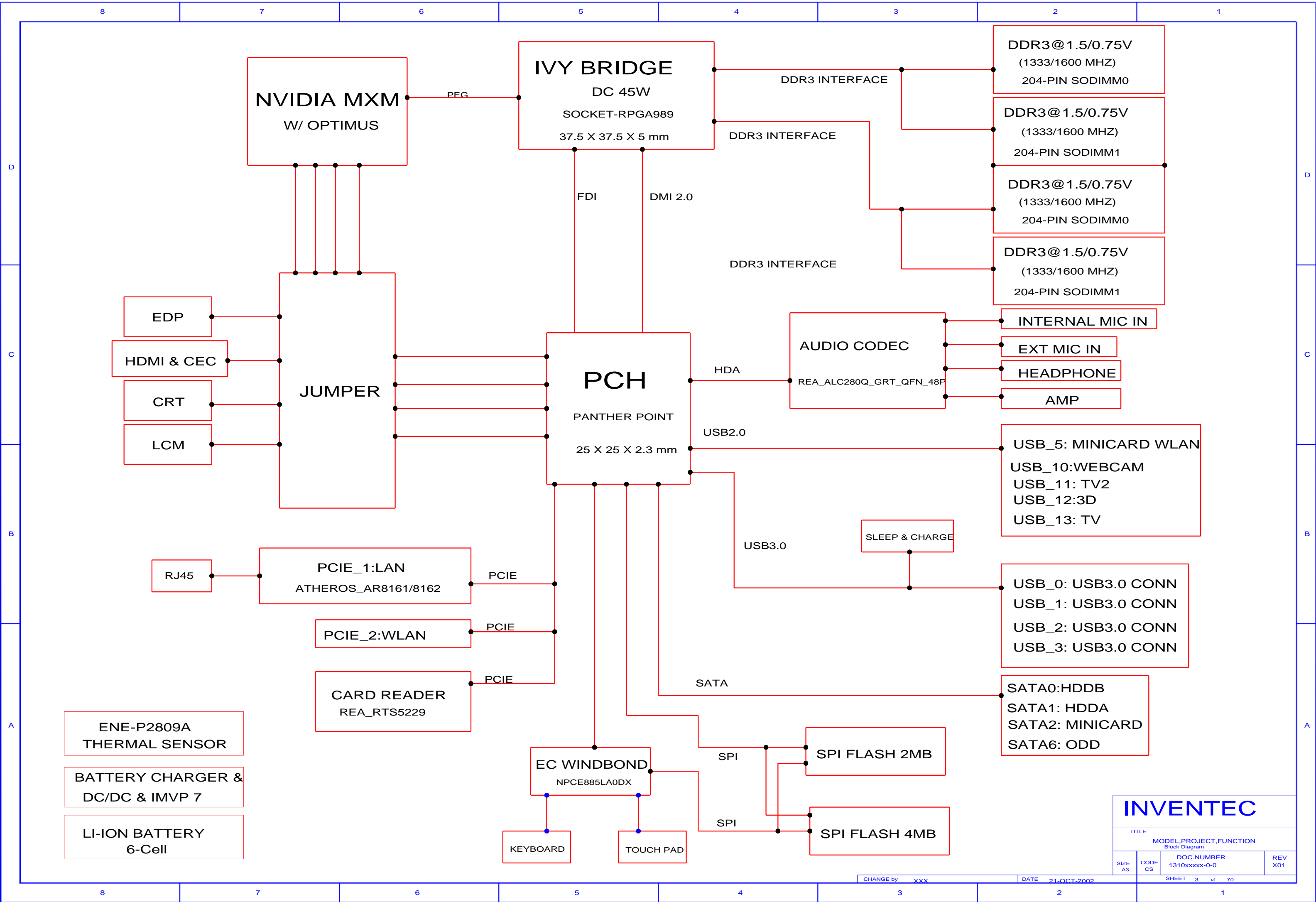


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<div>THIS DRAWING AND SPECIFICATIONS,HEREIN,ARE THE PROPERTY OF INVENTEC CORPORATION AND SHALL NOT BE REPRODUCED,COPIED,OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION,INVENTEC CORPORATION,2009 ALL RIGHT RESERVED.</div> <div>HSF Property:ROHS or Halogen-Free(5L3?)</div> <div>GL10FH</div> <div>2011.09.08</div>																																																																																																																																							
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4. POWER MAP		29. MINI2 3G/LTE		54. PCH 3			
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Block Diagram							
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INVENTEC

TITLE

MODEL,PROJECT,FUNCTION

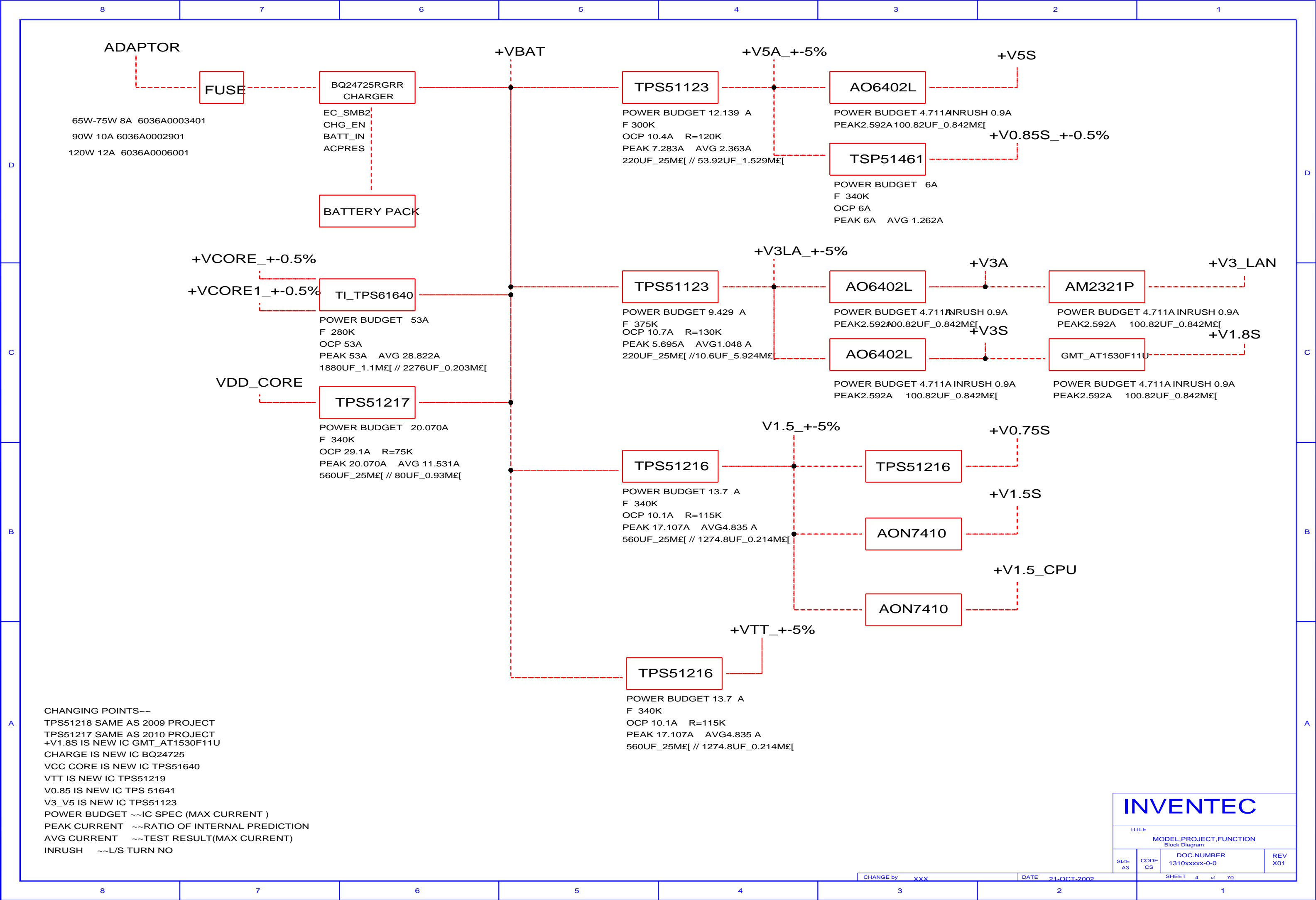
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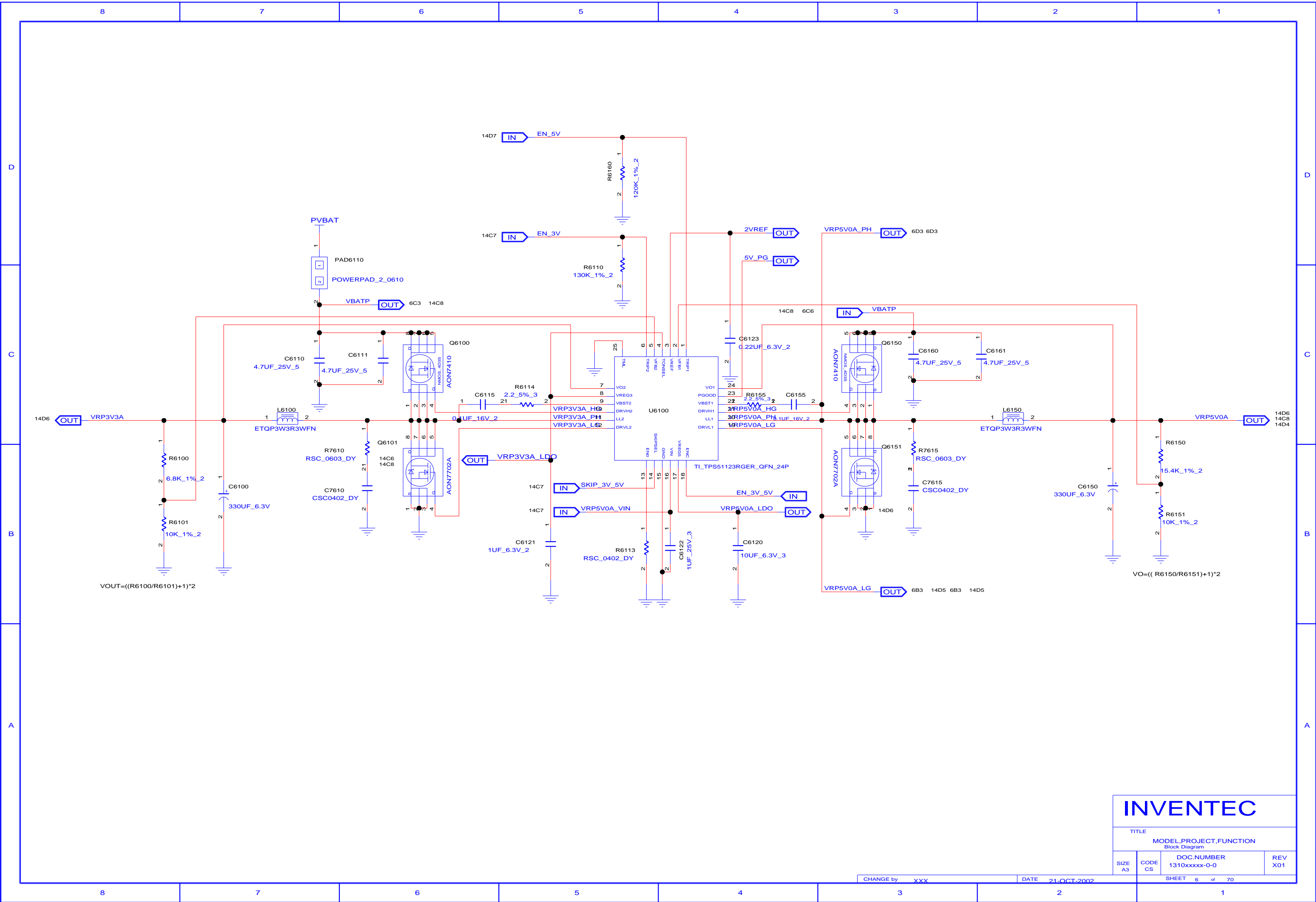
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CHANGE by XXX

DATE 21-OCT-2002

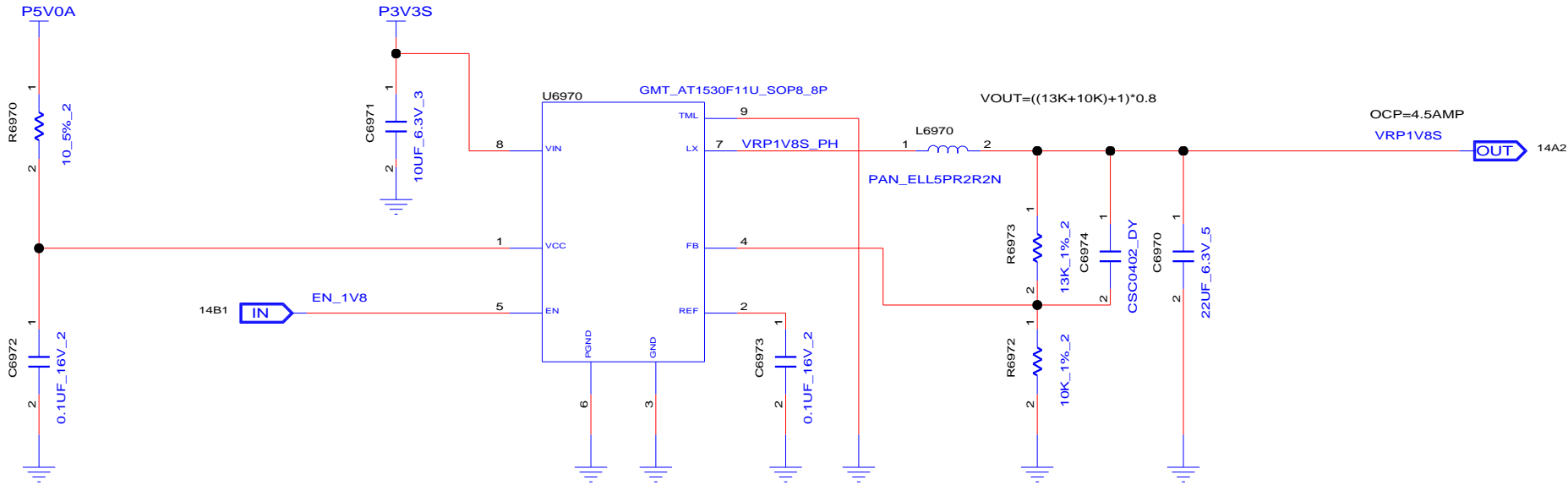
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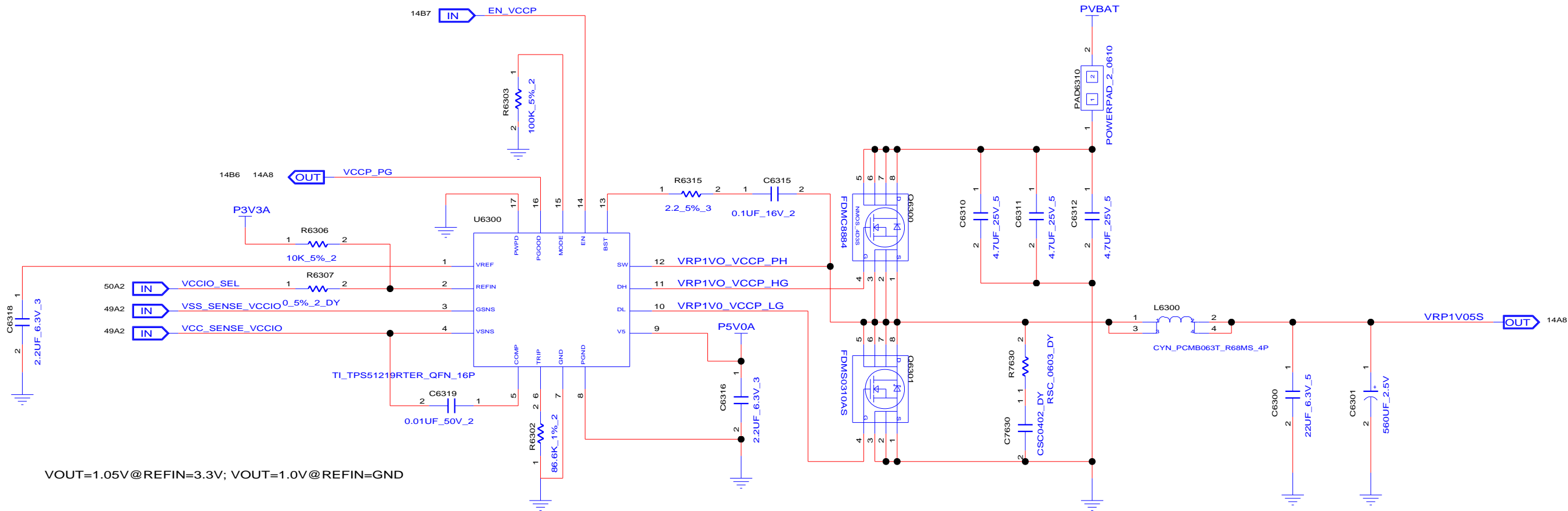




SHEET 7 of 70



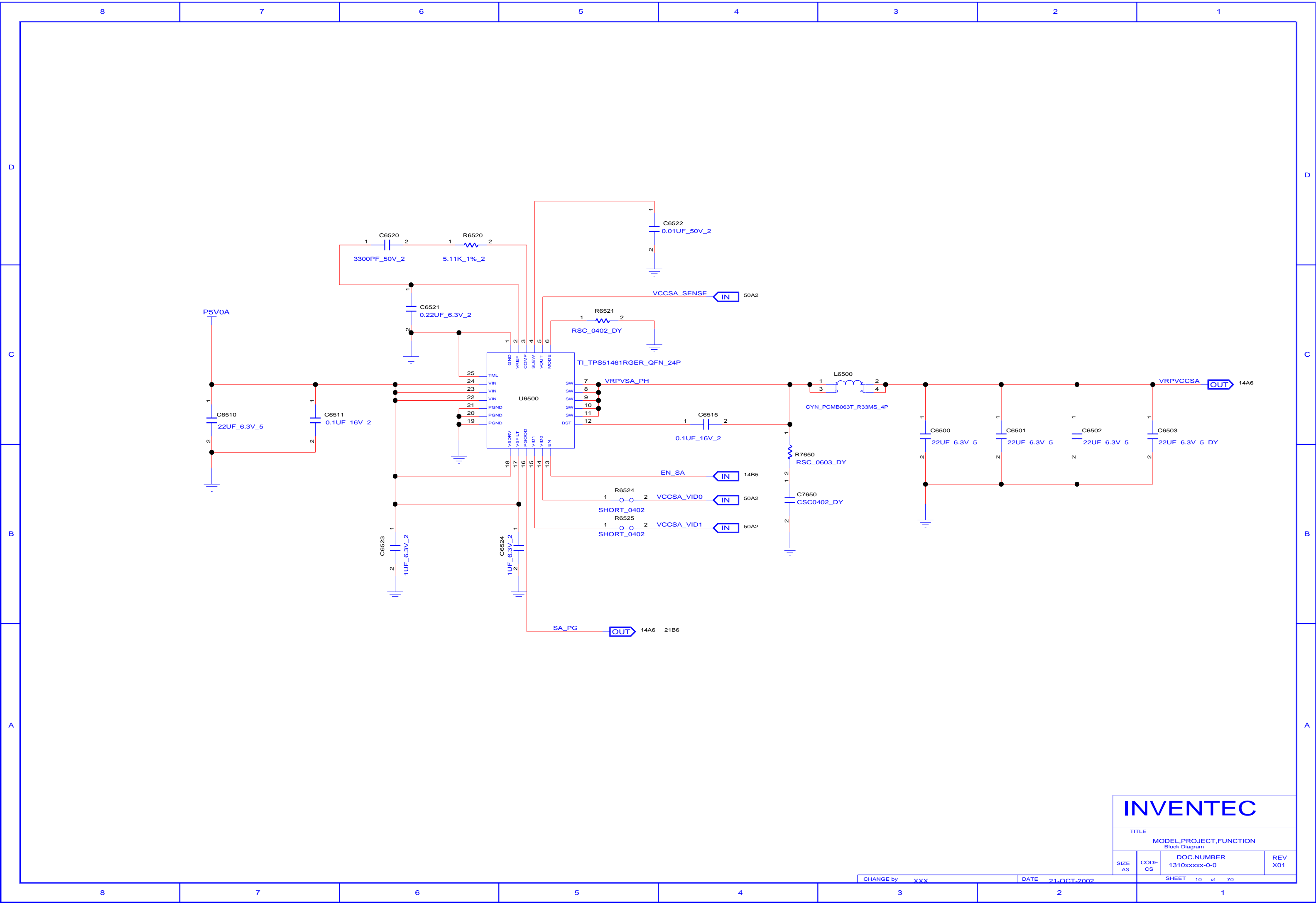
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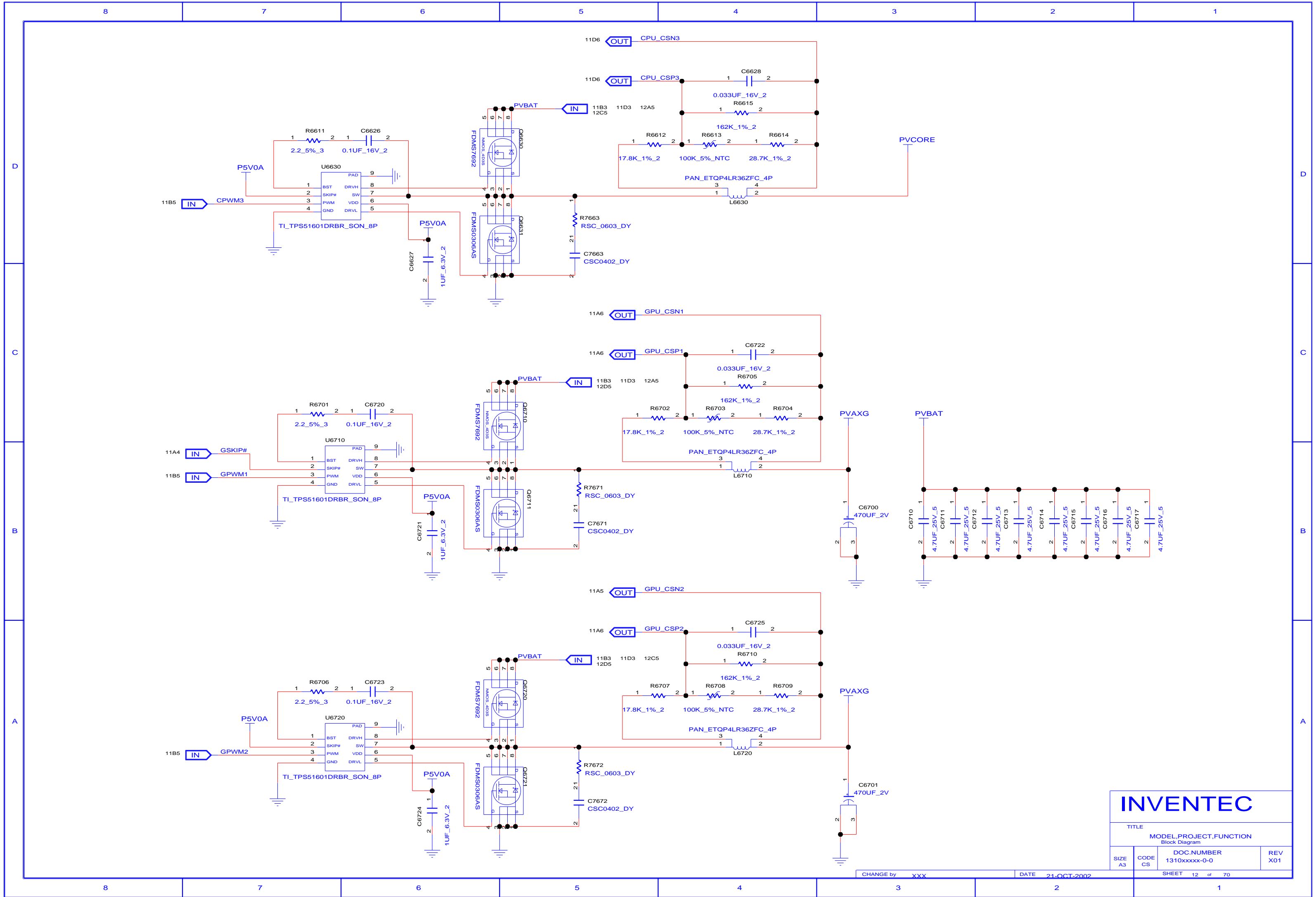
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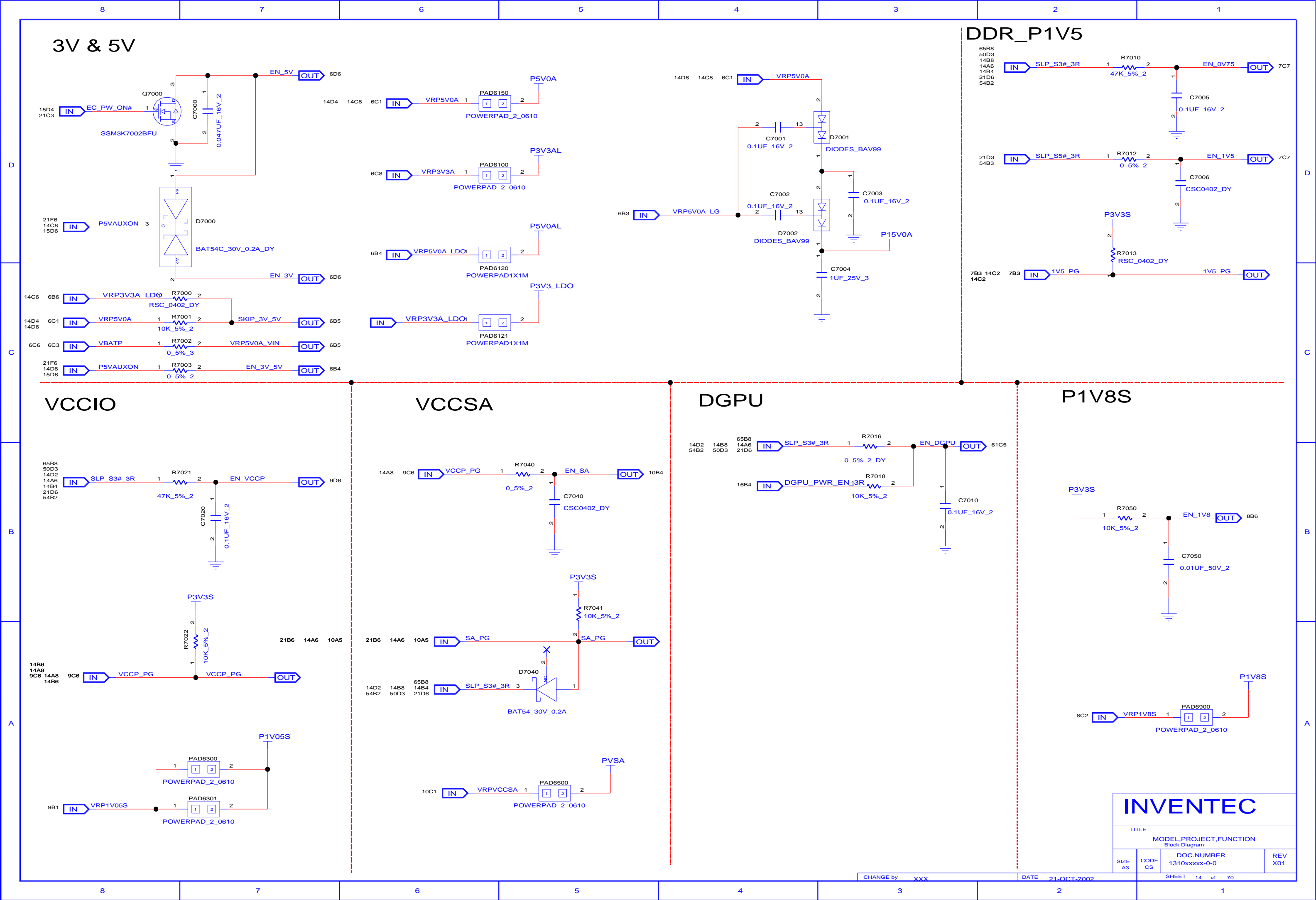
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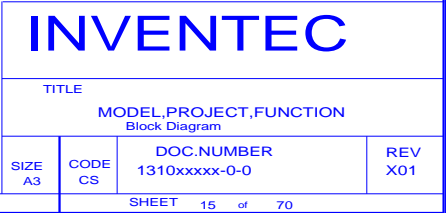
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SHEET 12 of 70			

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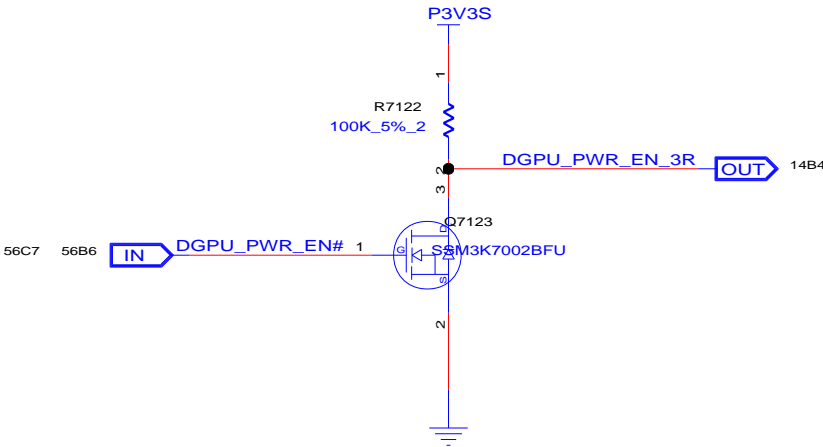


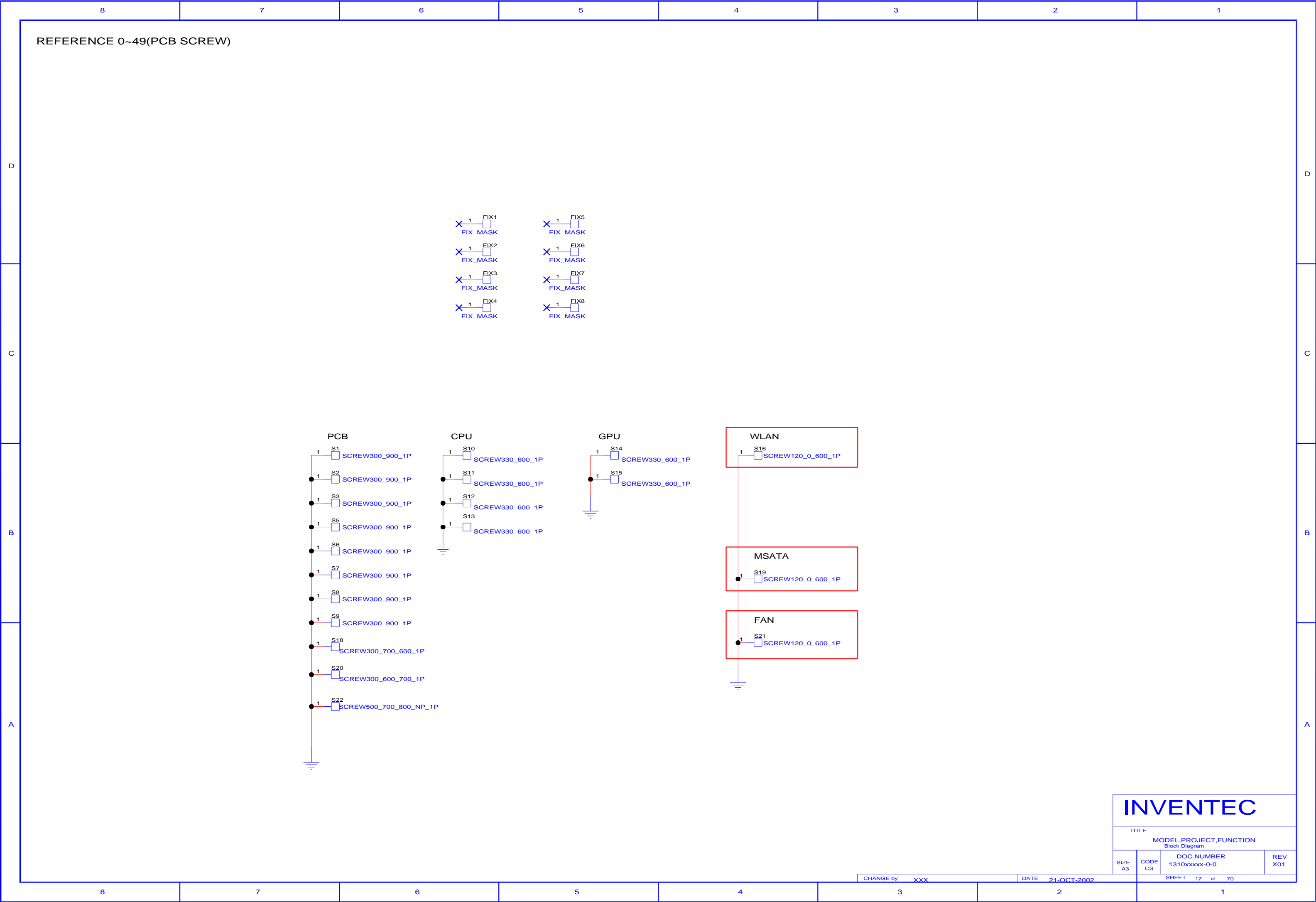
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MODEL,PROJECT,FUNCTION			
Block Diagram			
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A3	CS	1310xxxx-0-0	X01
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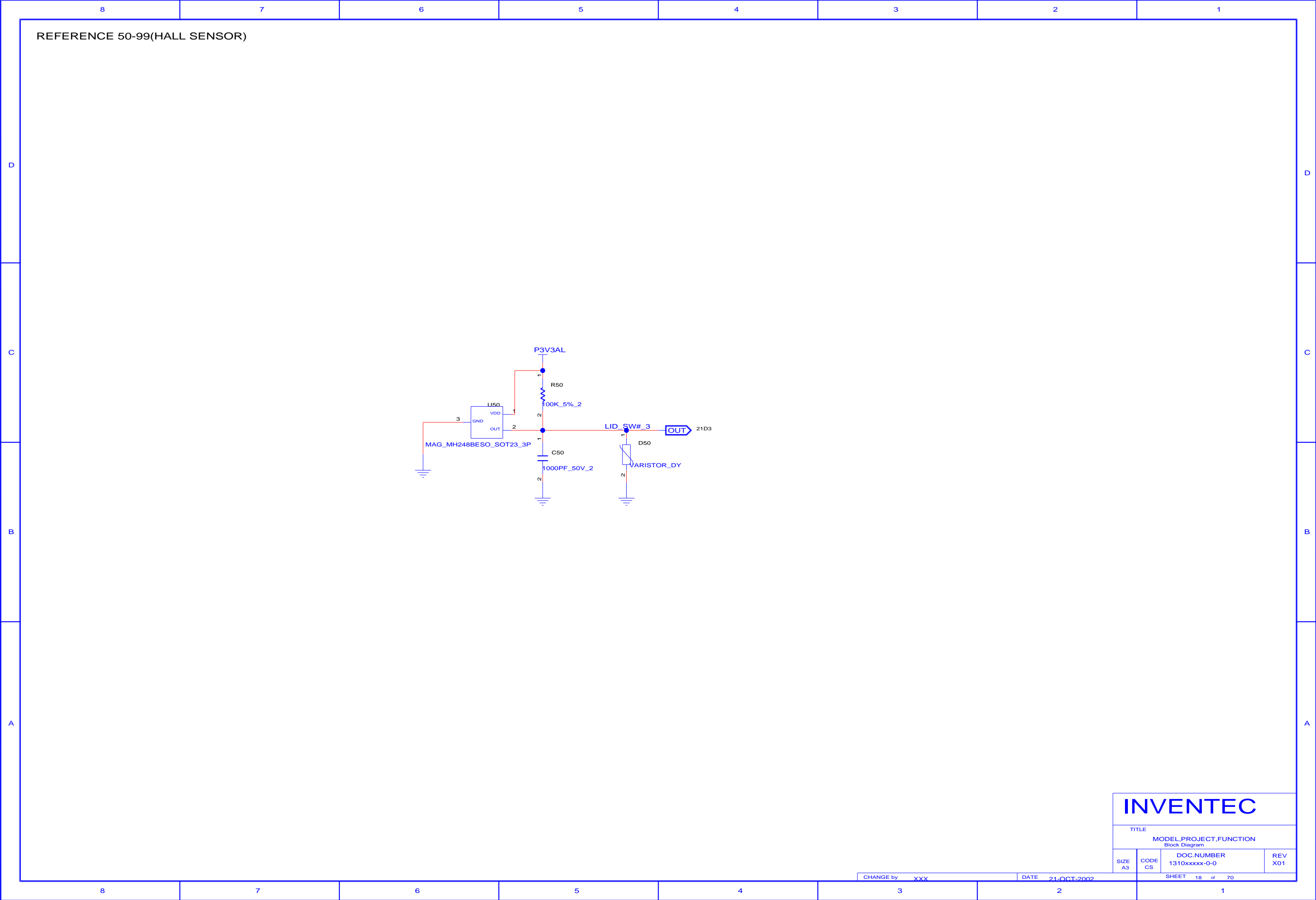


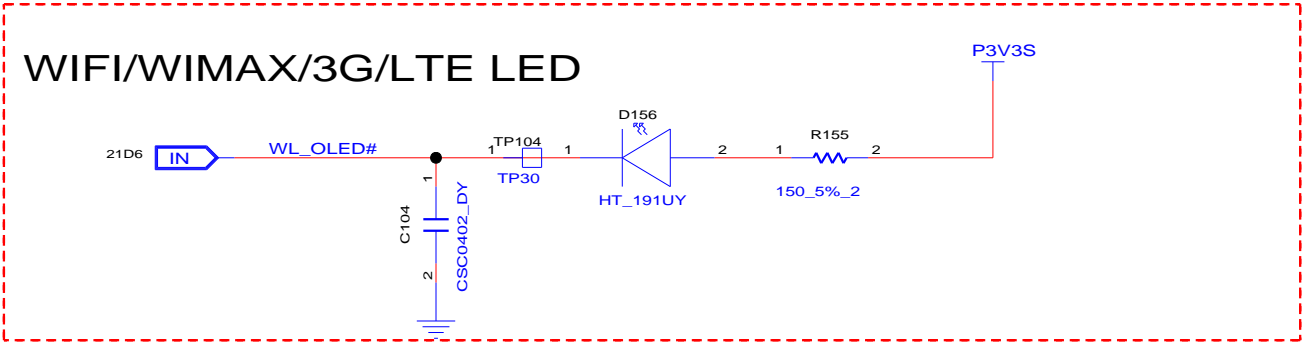
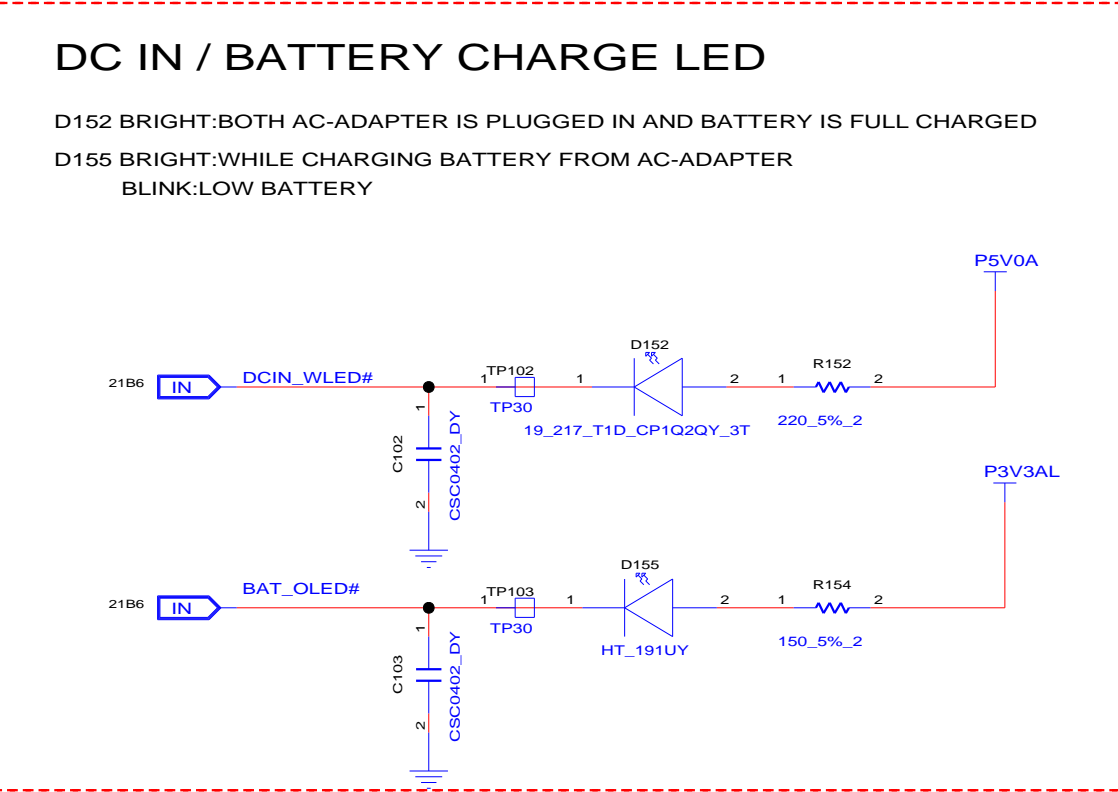
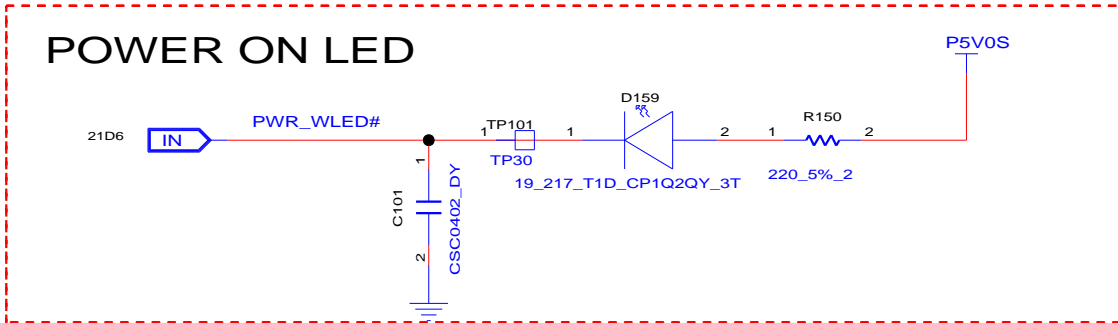
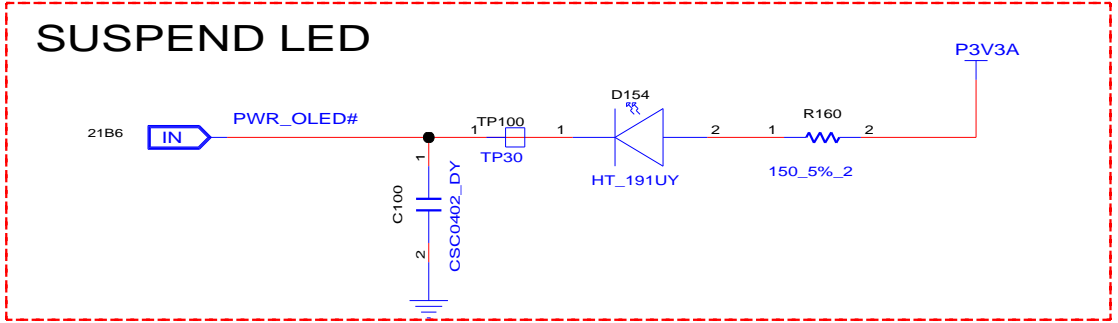
NVIDIA OPTIMUS

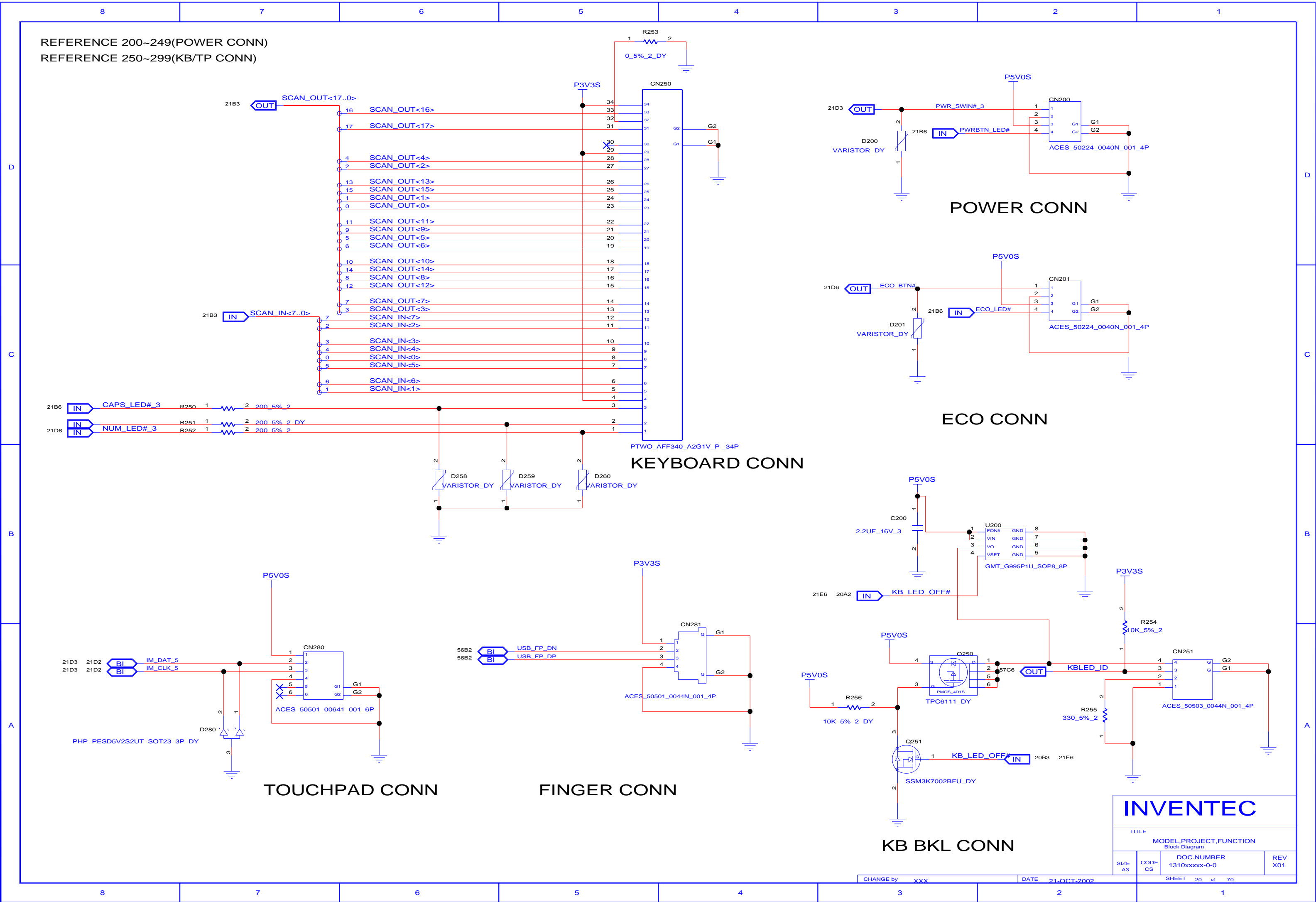
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DGPU_PWR_EN#	HIGH	HIGH	0 : DGPU POWER SWITCH TURNED ON 1 : POWER SWITCH TURNED OFF
DGPU_PG			0 : DGPU POWER IS NOT STABLE 1 : DGPU POWER IS STABLE
DGPU_HOLD_RST#	LOW	LOW	0 : KEEP DGPU IN RESET 1 : RESET IS RELEASED



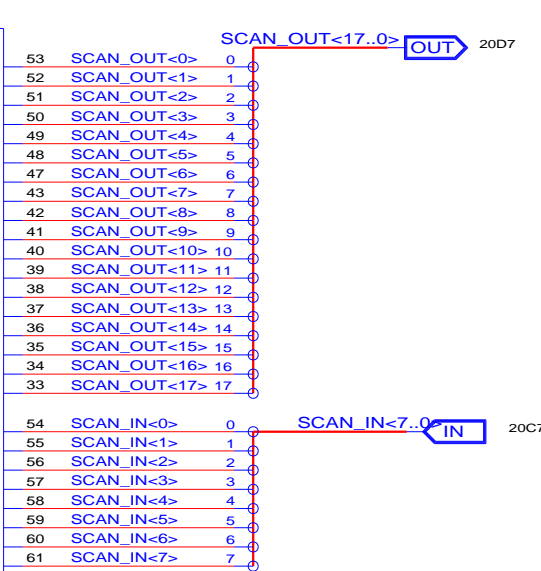
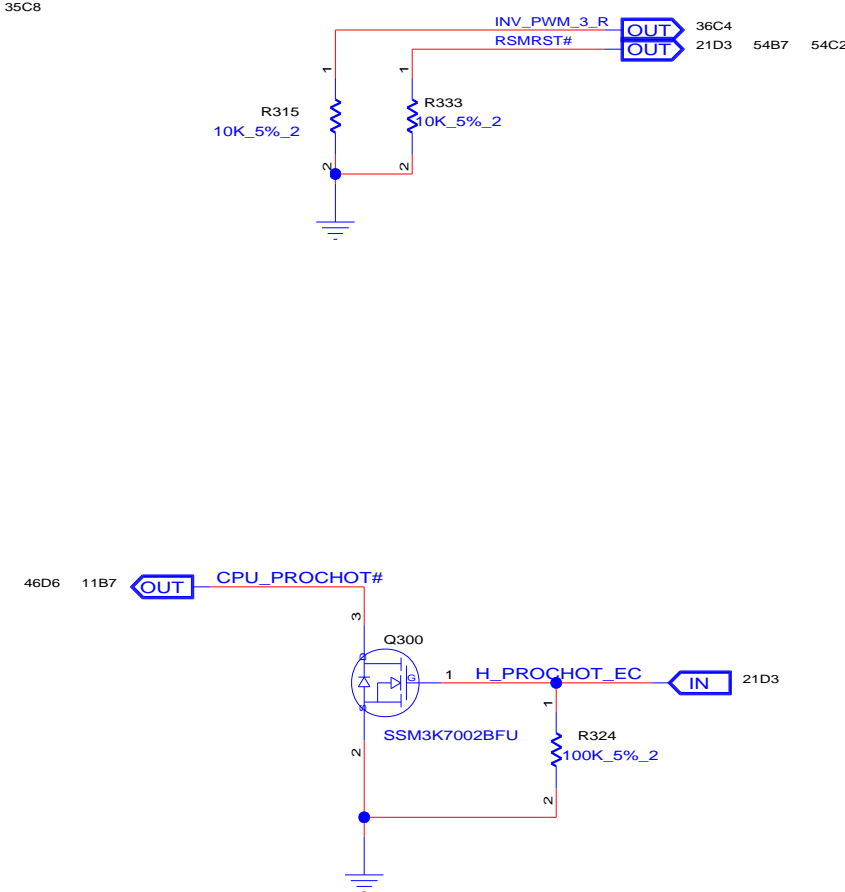
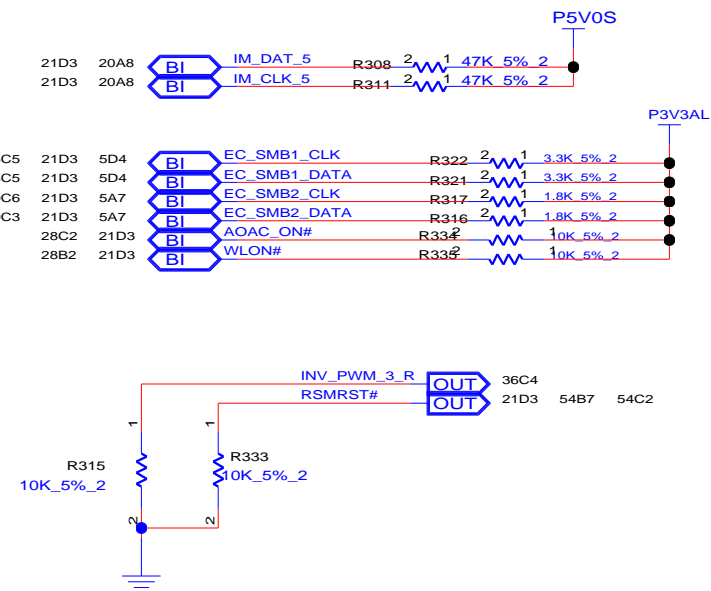
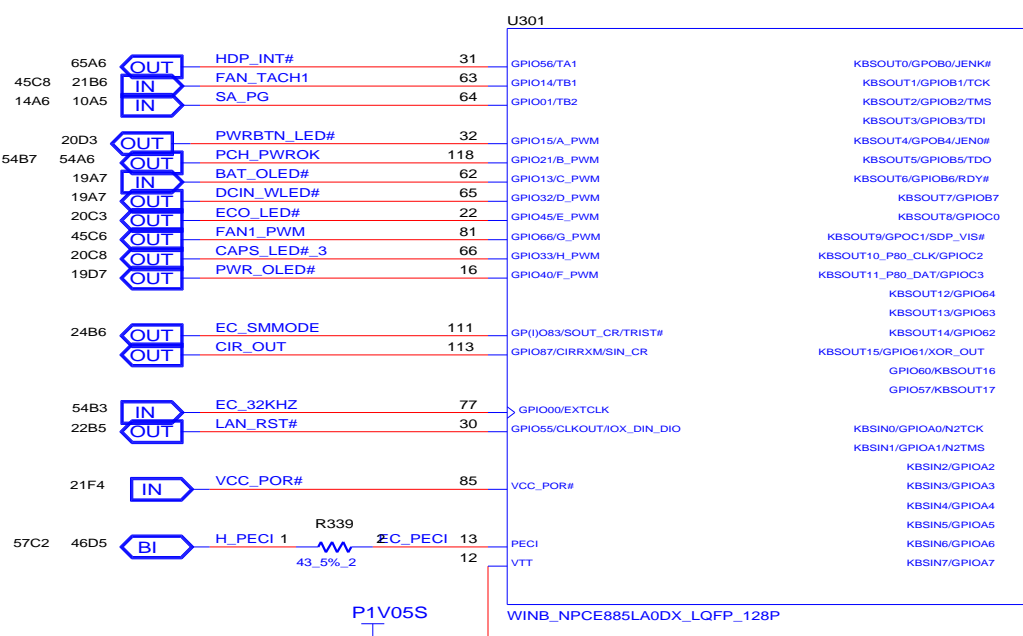
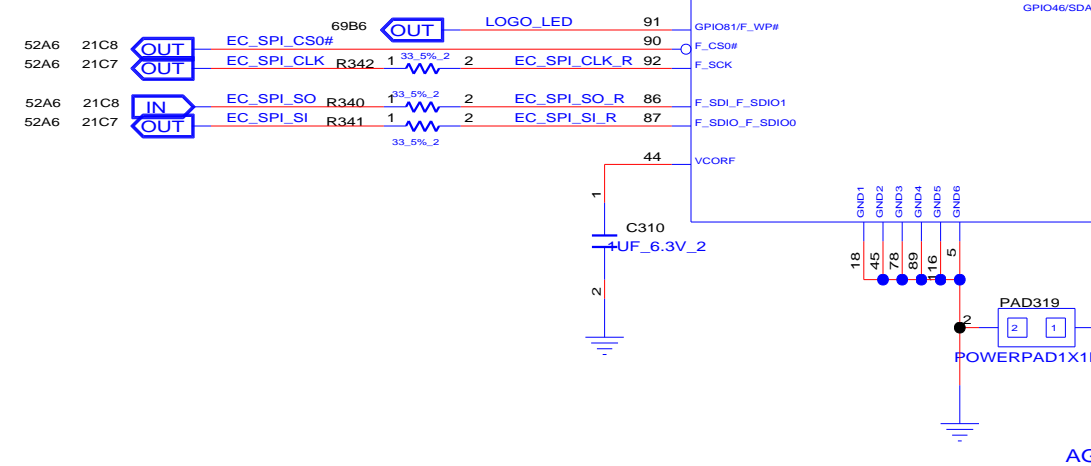
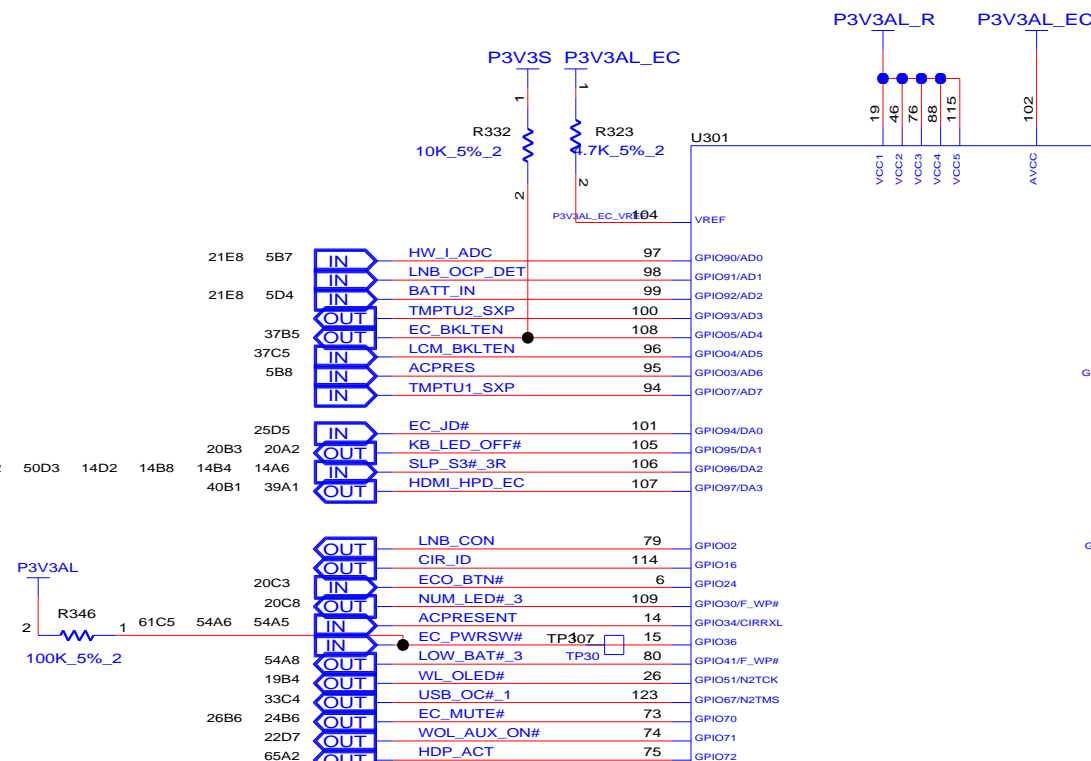
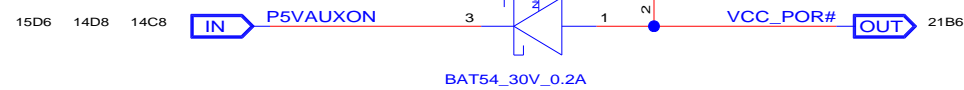


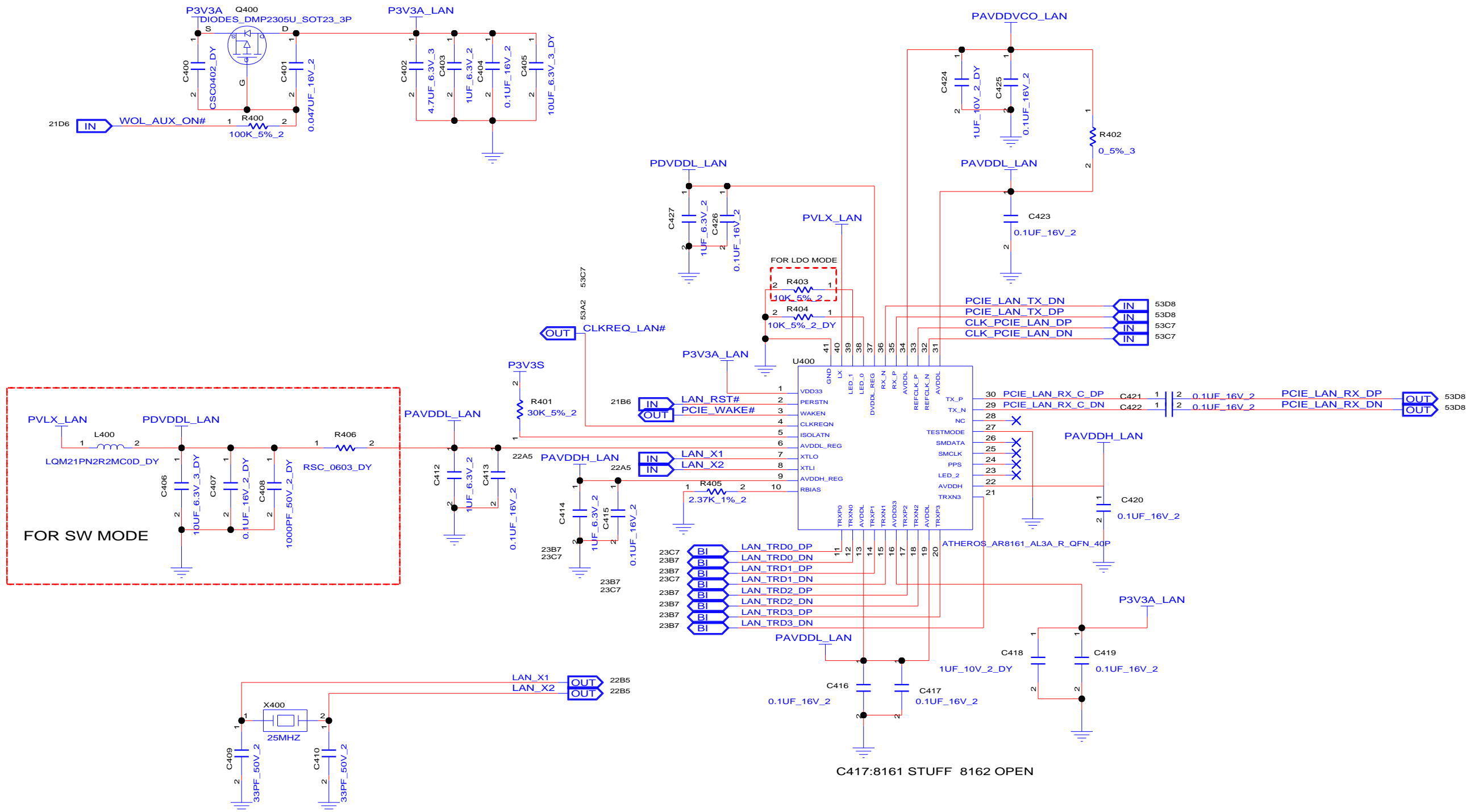






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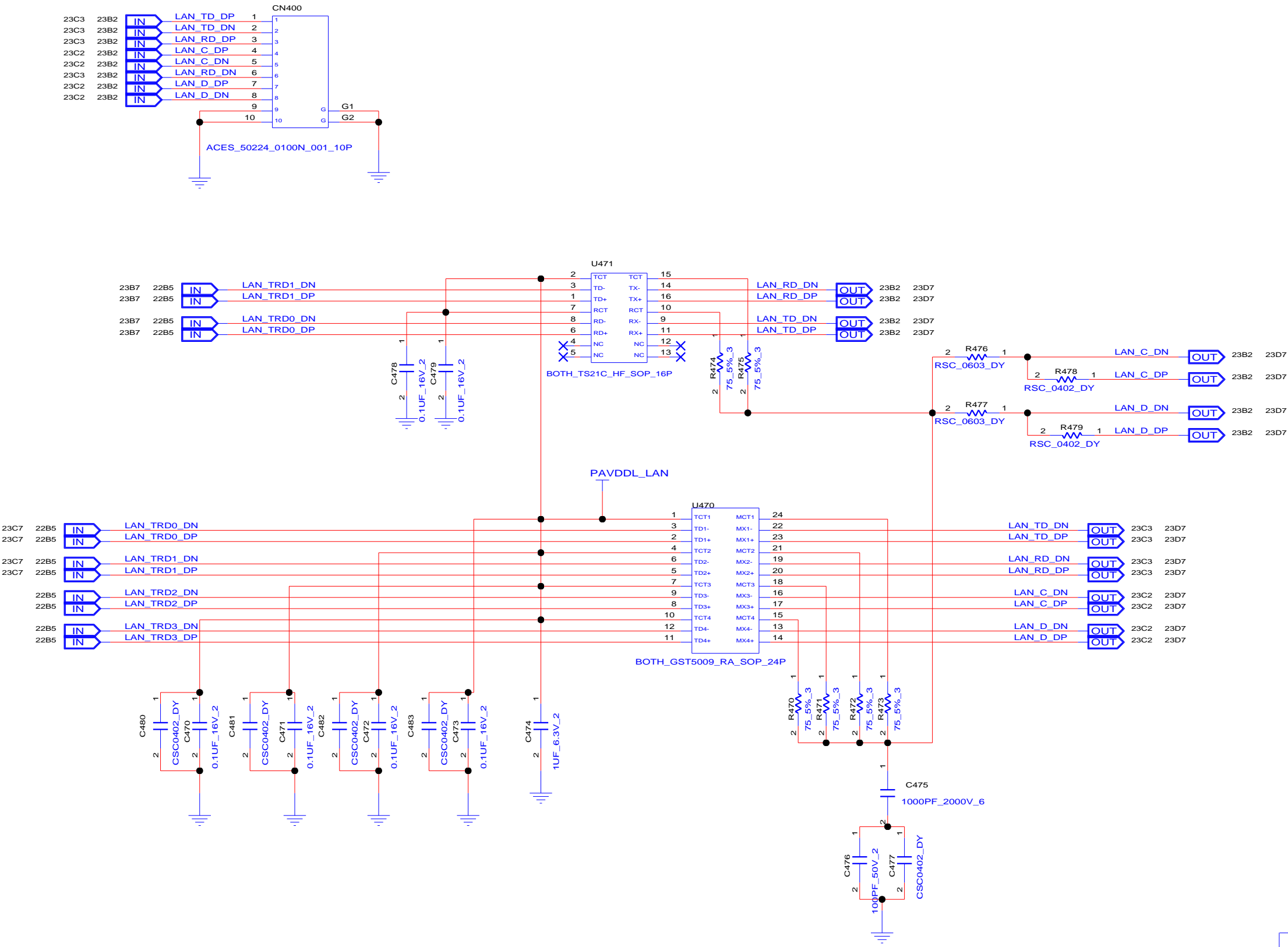




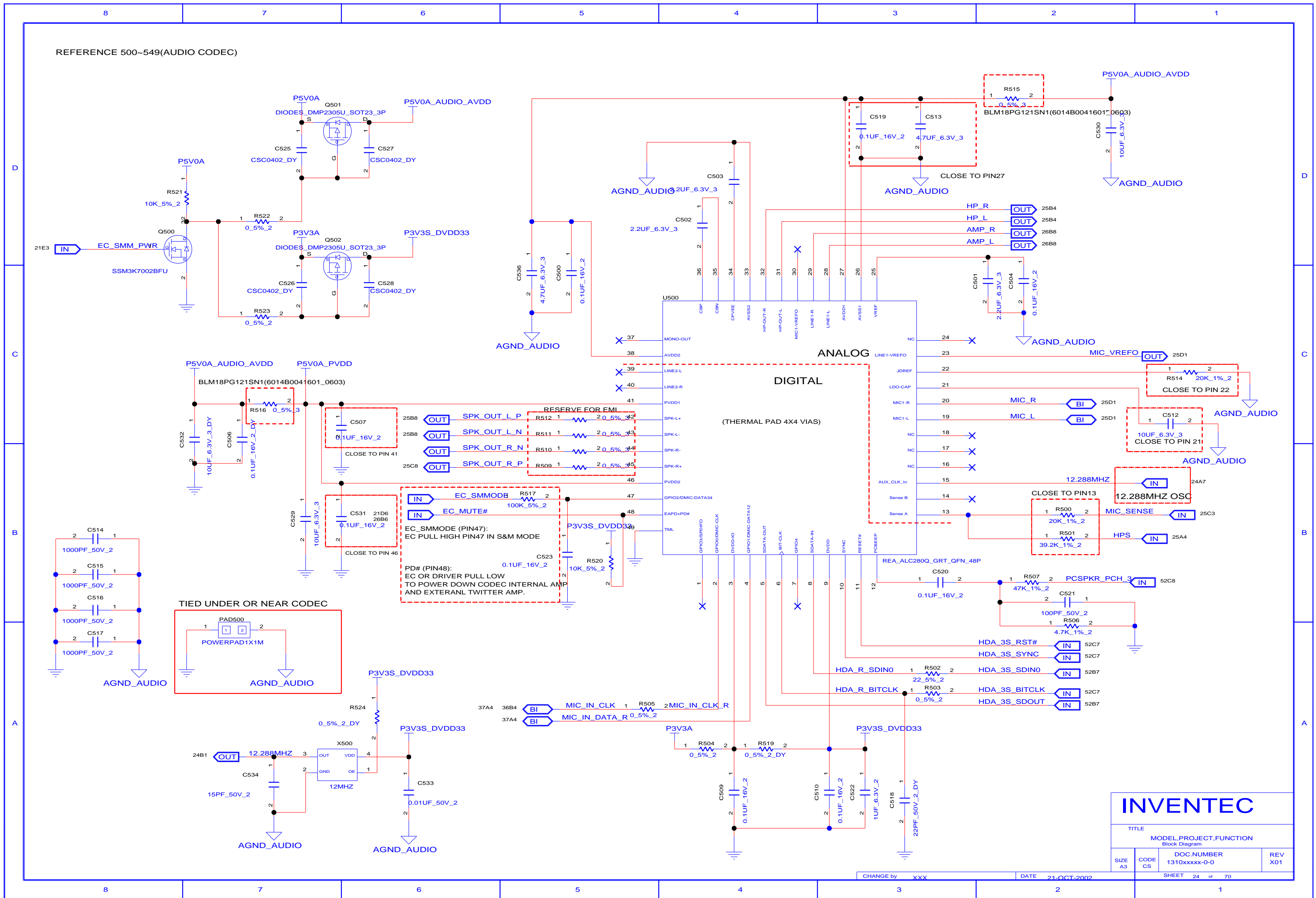
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MODEL,PROJECT,FUNCTION			
Block Diagram			
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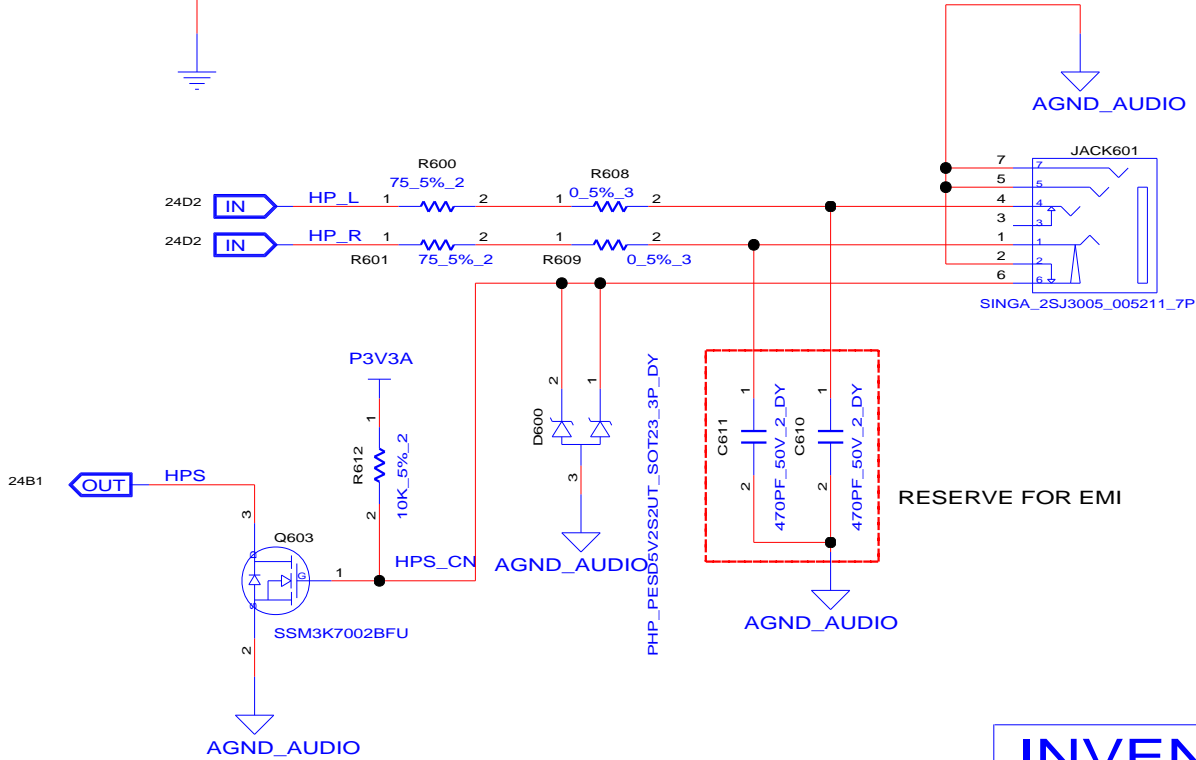
REFERENCE 400~499(LAN)



INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC.NUMBER	REV
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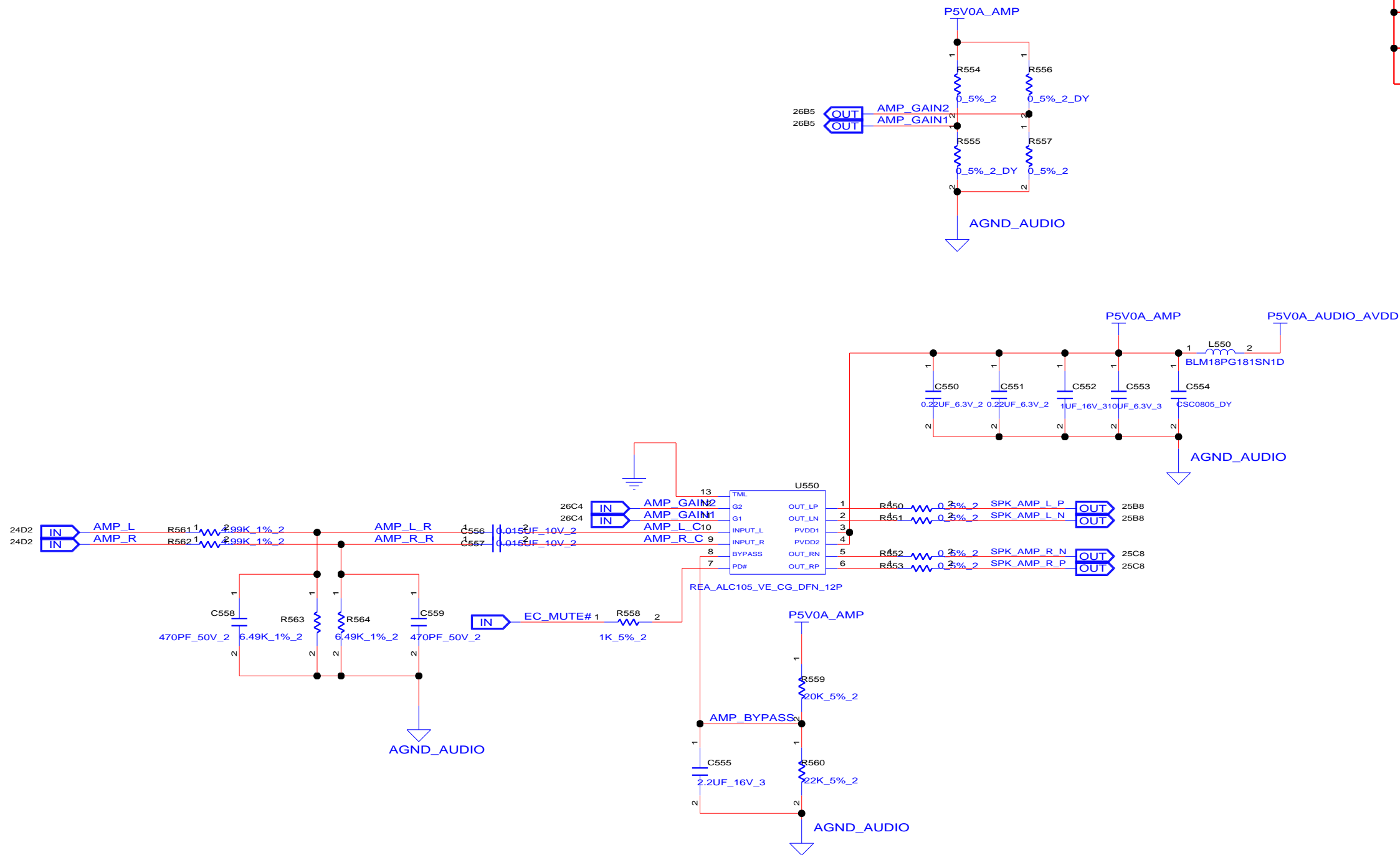
AUDIO JACKS



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TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 25 of 70			

REFERCE 550~599(AUDIO AMP)

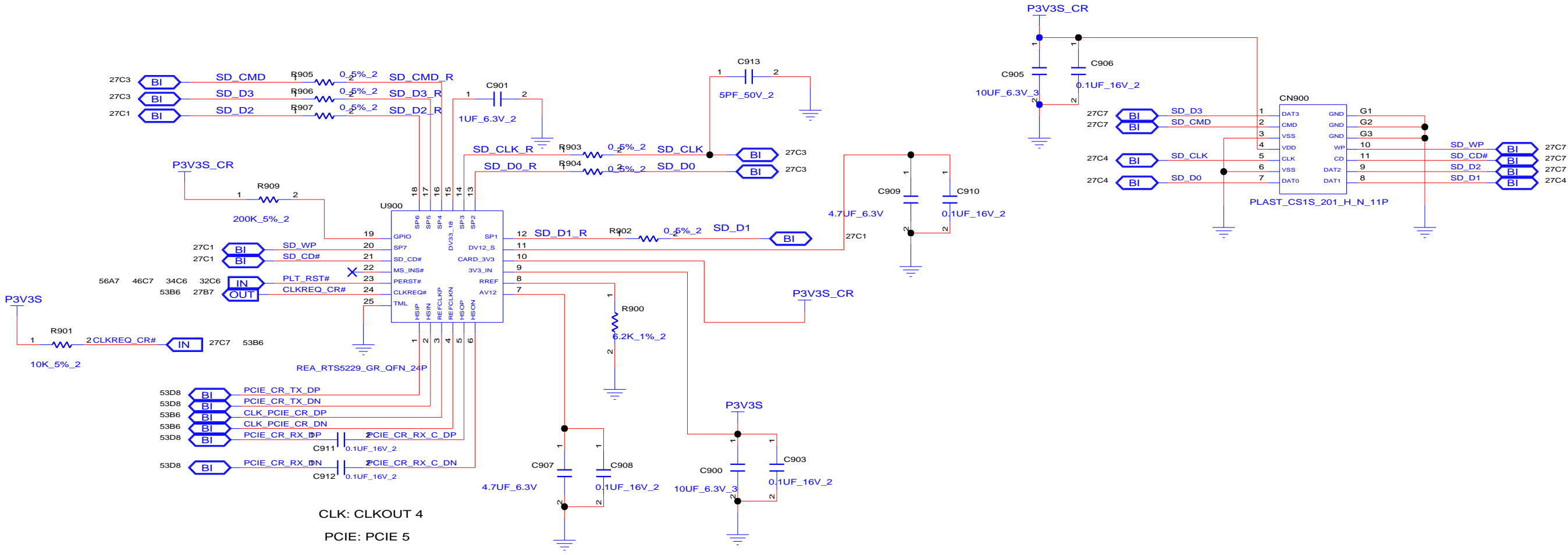
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G2	G1	AMP
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0	1	14DB
1	0	19DB
1	1	25DB



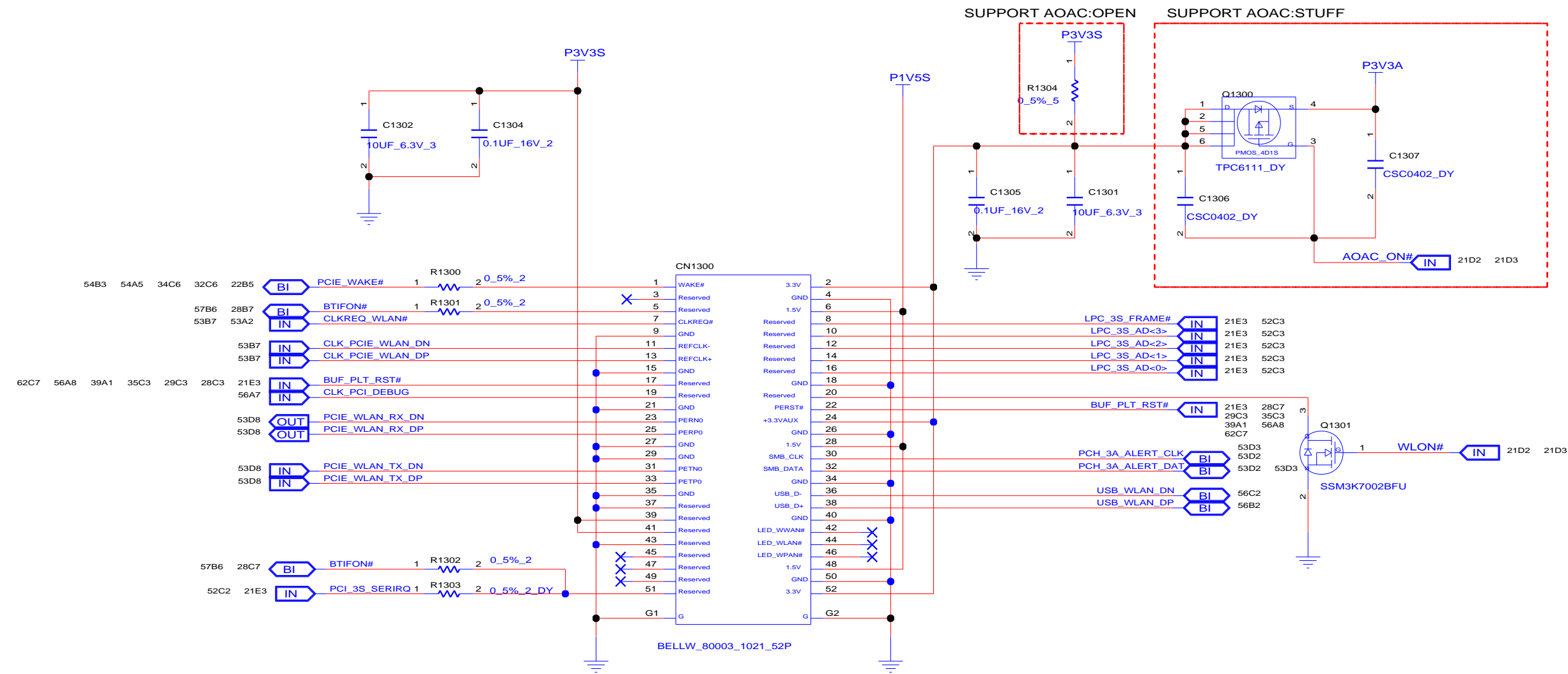
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MODEL,PROJECT,FUNCTION			
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REFERNCE 900~999(CARDREADER)



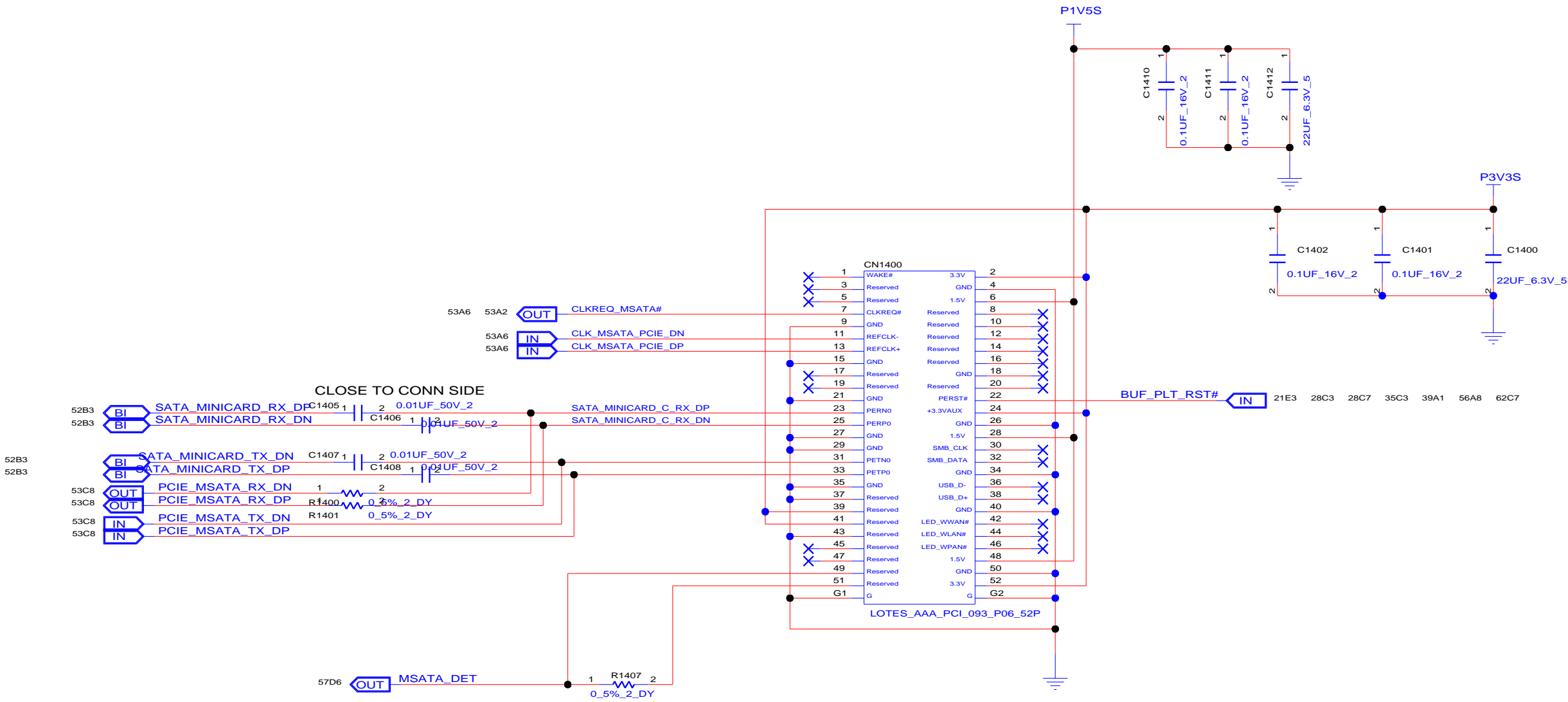
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MODEL,PROJECT,FUNCTION			
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SIZE	CODE	DOC.NUMBER	REV
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MINI CARD 1(WLAN)

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

REFERENCE 1400~1499(3G)



INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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CHANGE by XXX DATE 21-OCT-2002

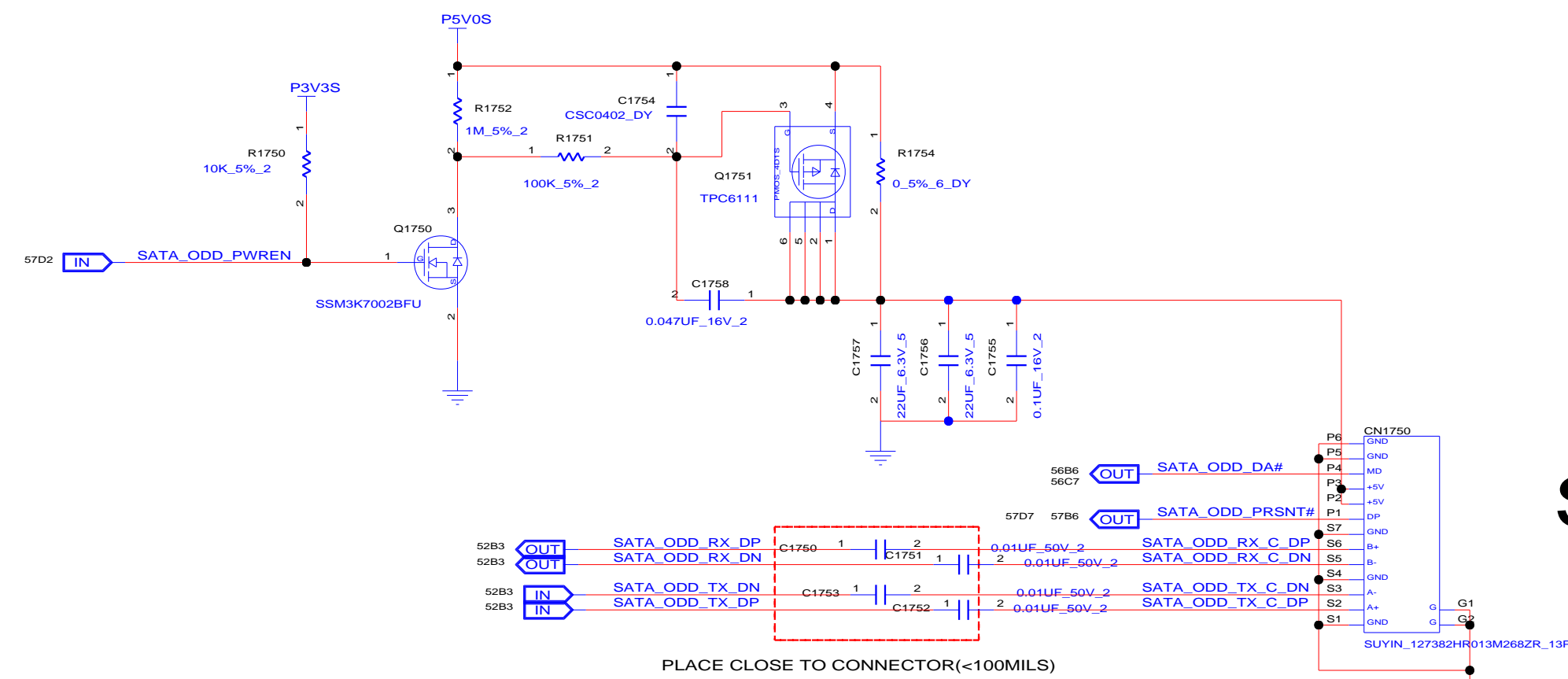
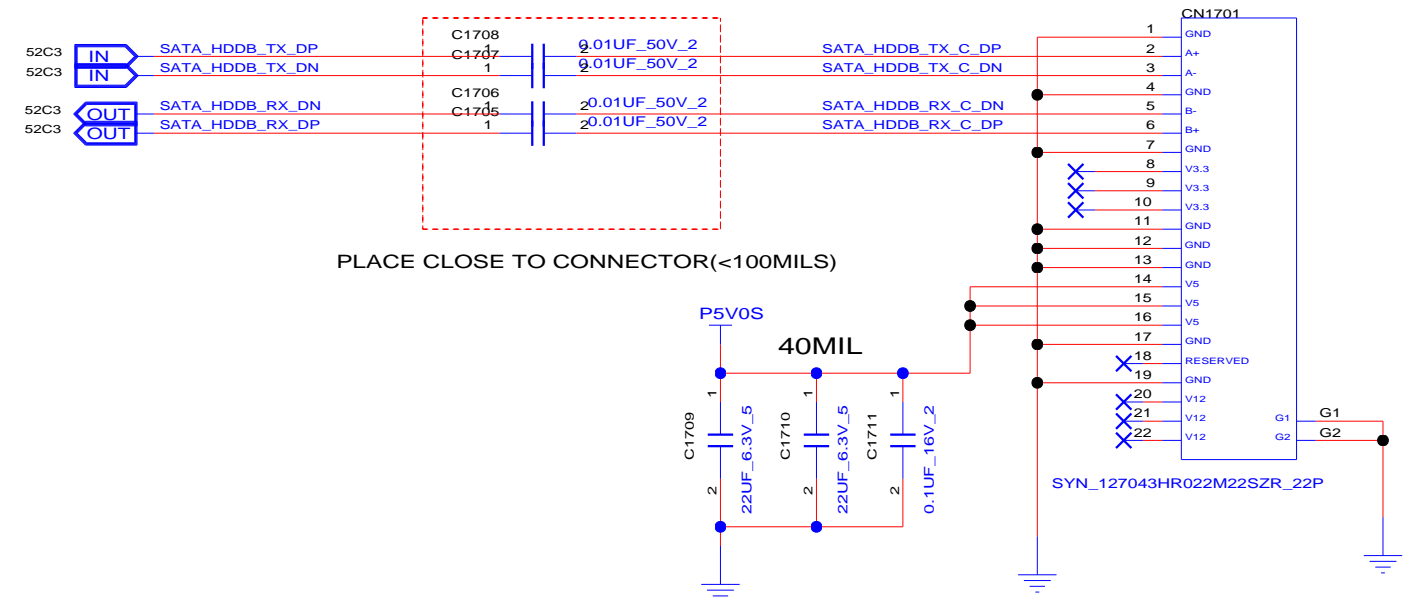
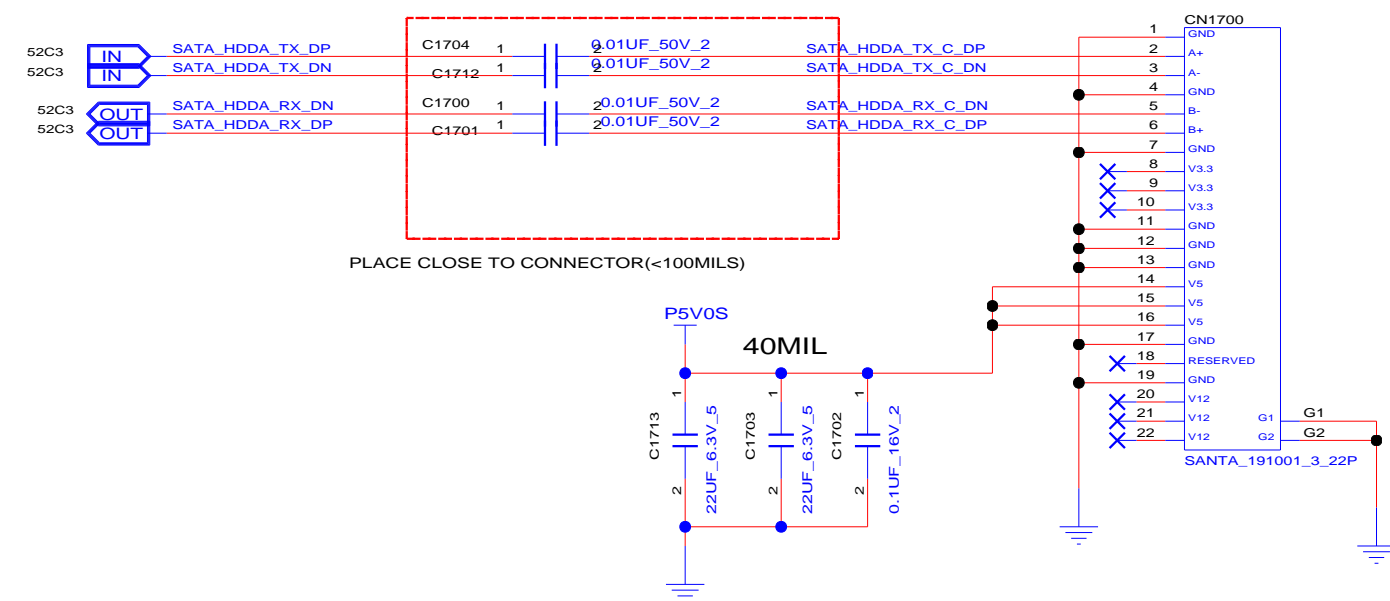
SHEET 29 of 70

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REFERENCE 2650~2999(RESERVE)																	
D																D	
C																C	
B																B	
A																A	
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CHANGE by XXX										DATE 21-OCT-2002		SHEET 30 of 70					
SIZE A3		CODE CS		DOC.NUMBER 1310xxxx-0-0				REV X01									
INVENTEC																	
TITLE																	
MODEL,PROJECT,FUNCTION Block Diagram																	

REFERENCE 1700~1749(HDD)
REFERENCE 1750~1799(ODD)

SATA HDD A

SATA HDD B



SATA ODD

INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE	CODE	DOC.NUMBER	REV
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REFERENCE 2000~2099(USB)

D

C

B

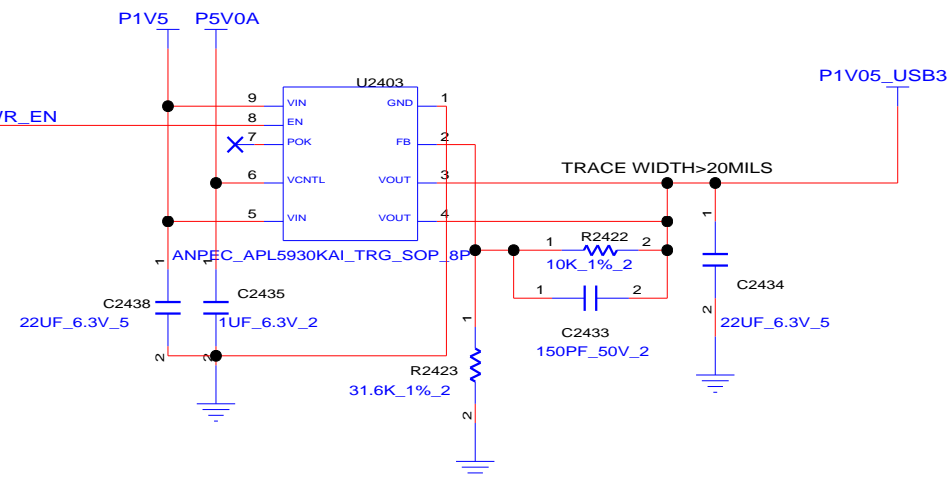
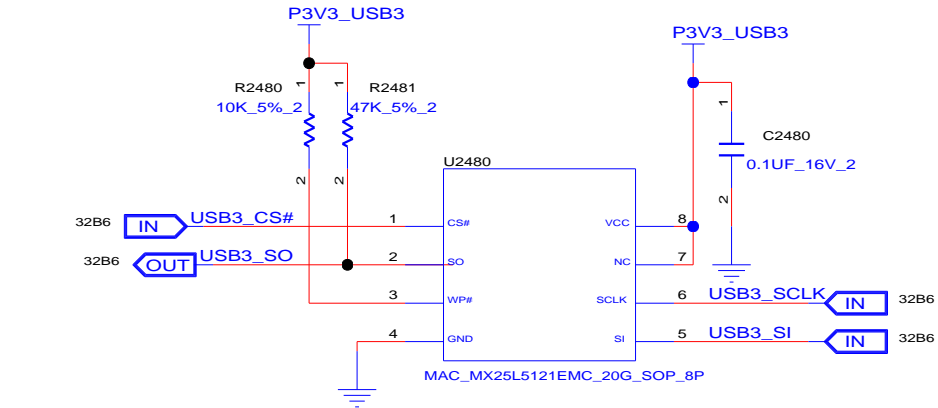
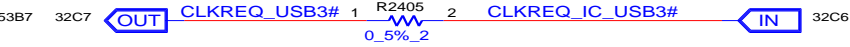
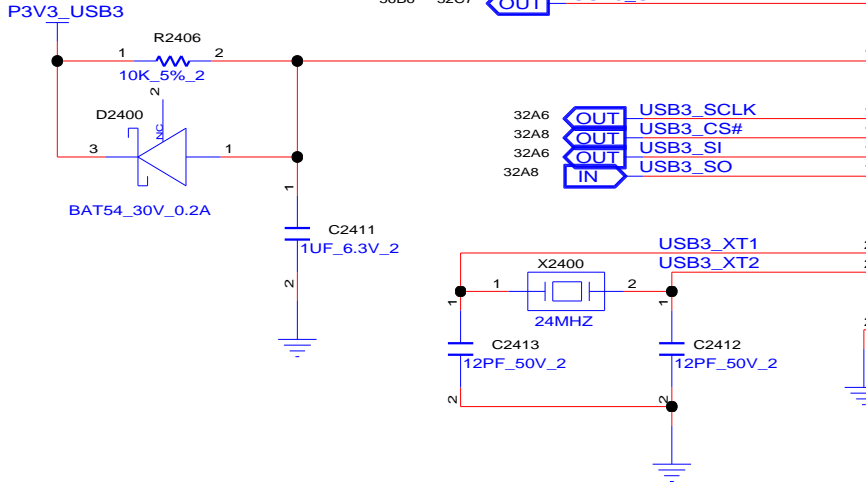
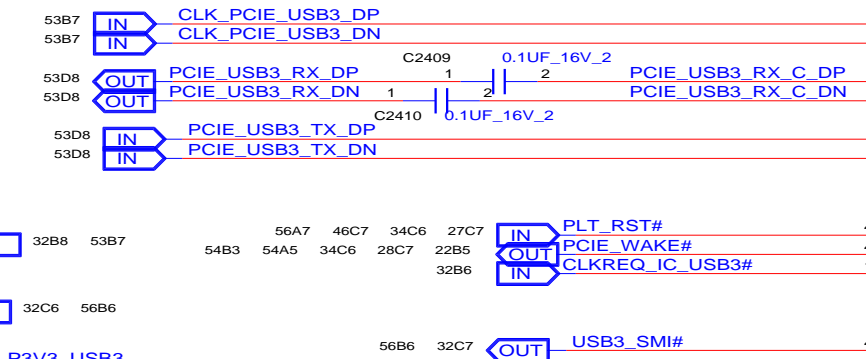
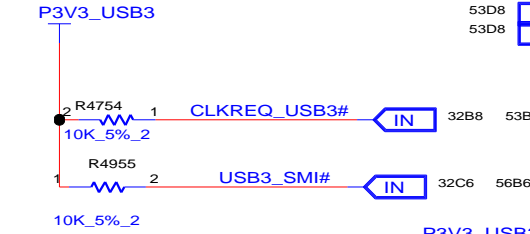
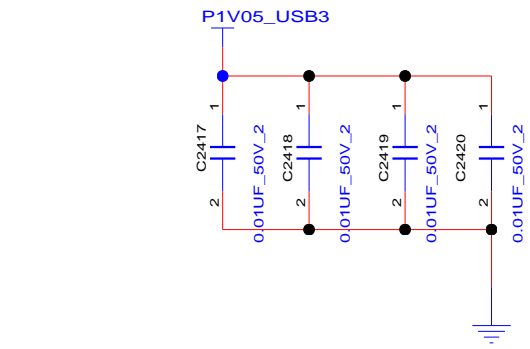
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D

C

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A



CHANGE by XXX DATE 21-OCT-2002

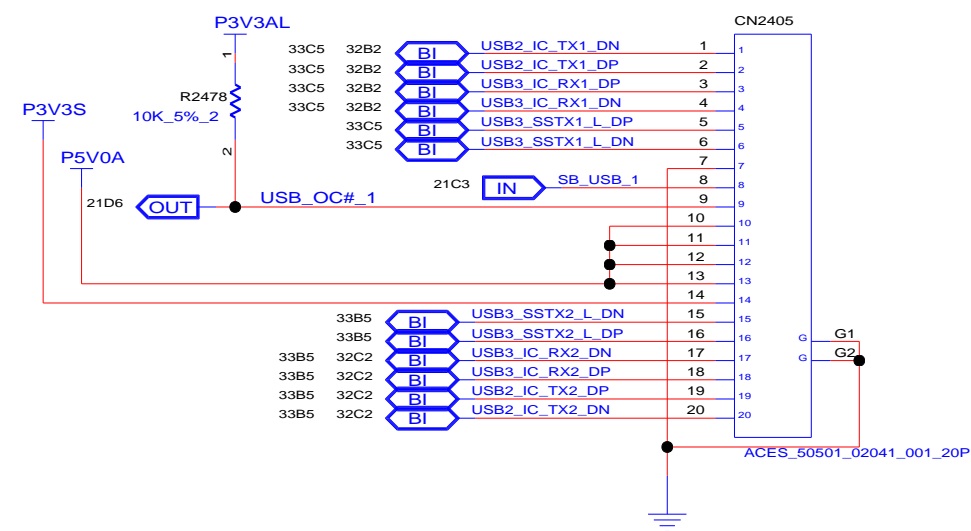
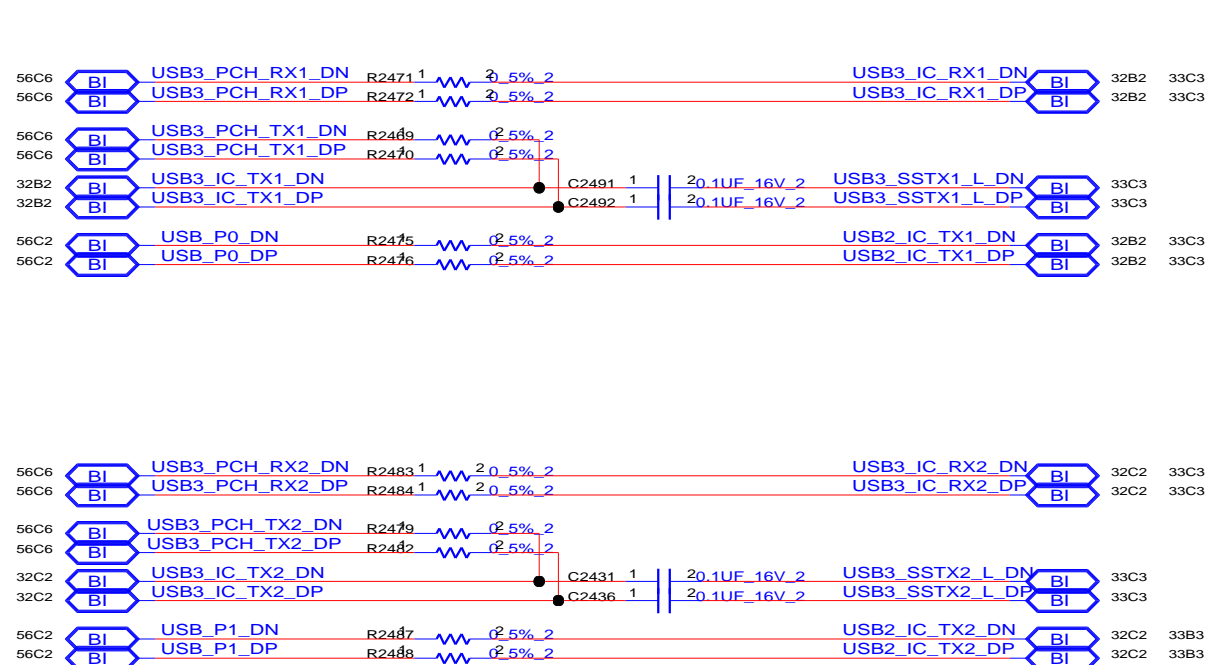
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TITLE MODEL,PROJECT,FUNCTION Block Diagram

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REFERENCE 2400~2499(USB3.0)



USB 3.0 CONNECTOR

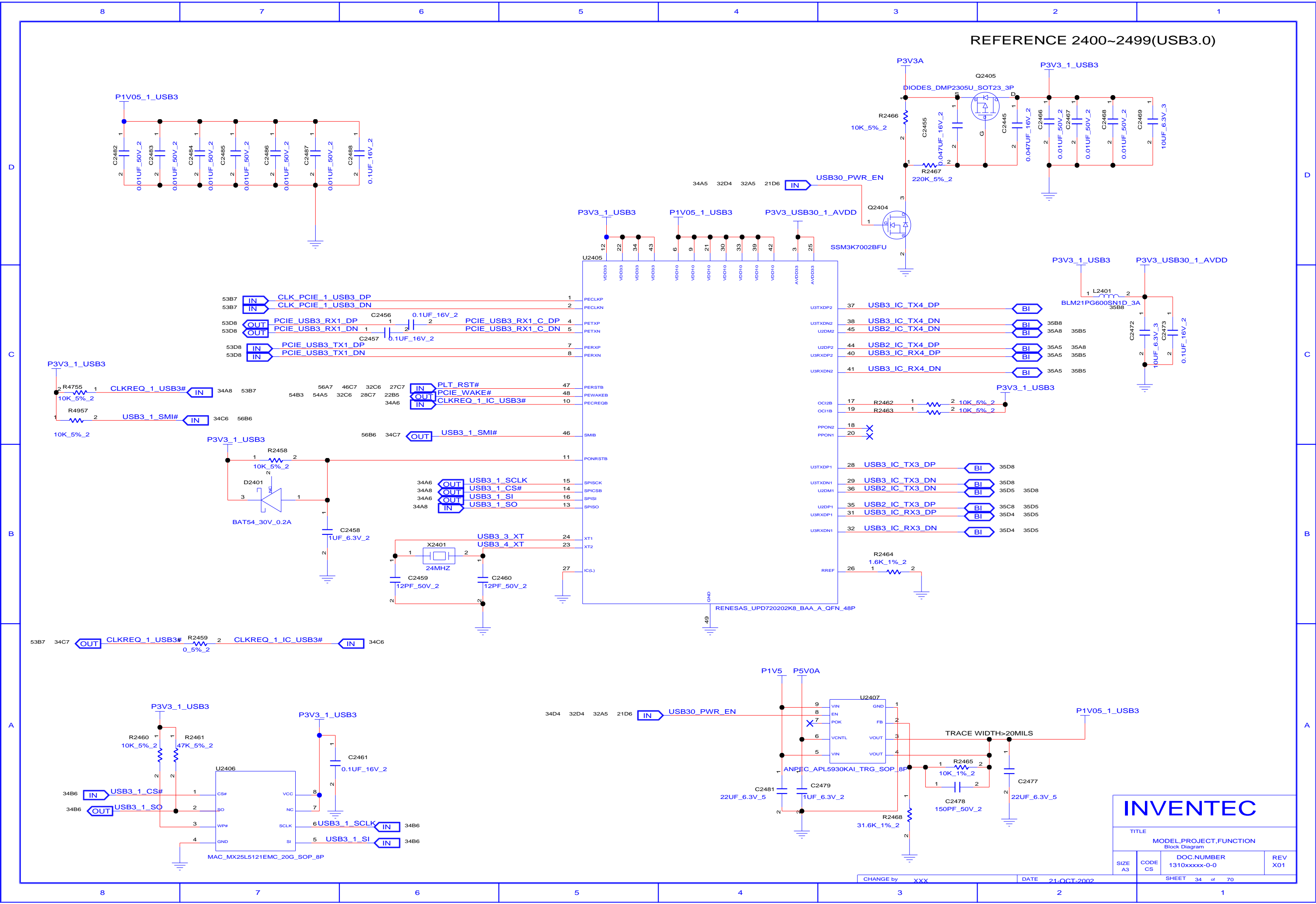
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TITLE
MODEL,PROJECT,FUNCTION Block Diagram

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CHANGE by	XXX	DATE	21-OCT-2002
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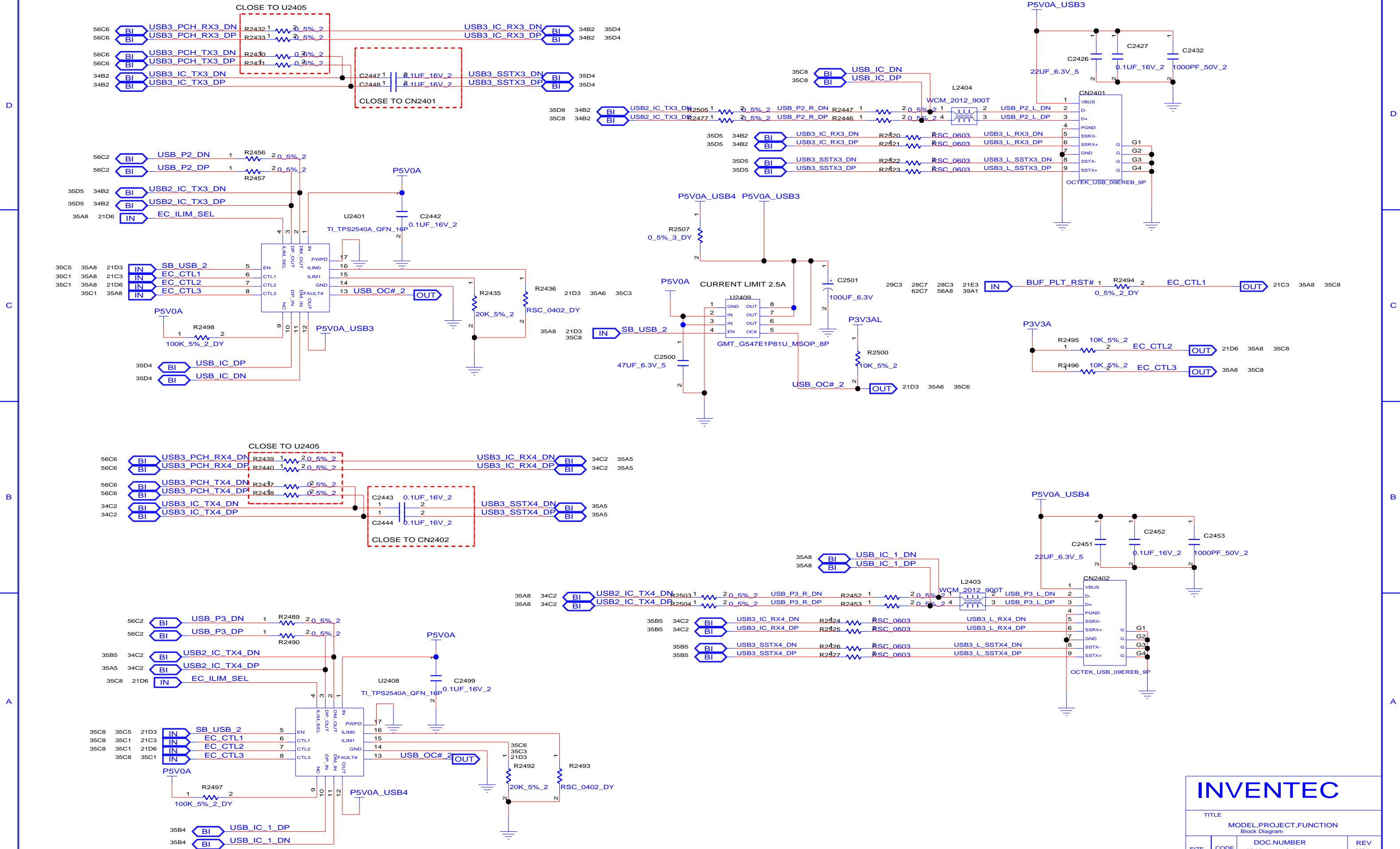
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TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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REFERENCE 2400~2499(USB3.0)



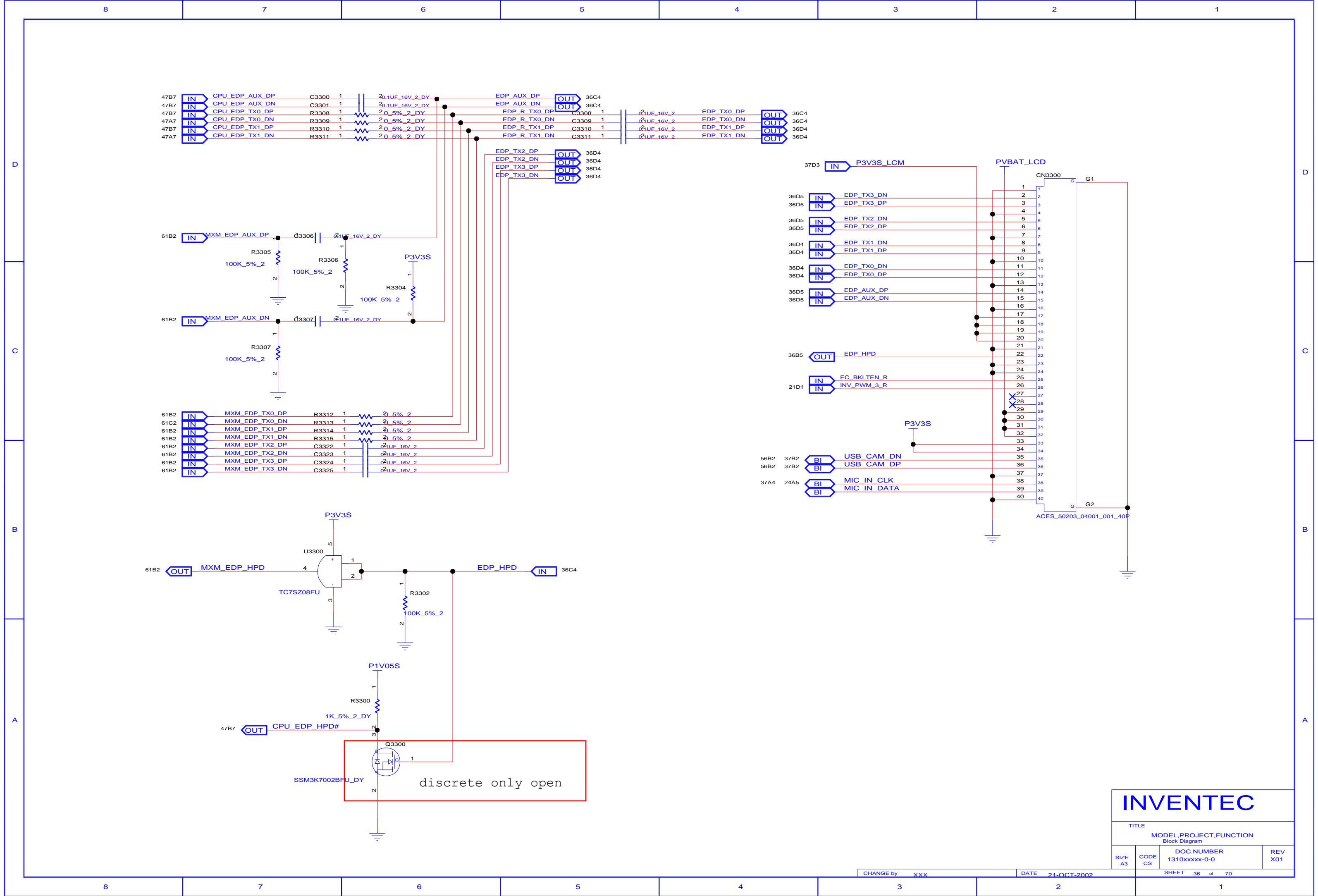
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TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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CHANGE by XXX DATE 21-OCT-2002

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INVENTEC

TITLE

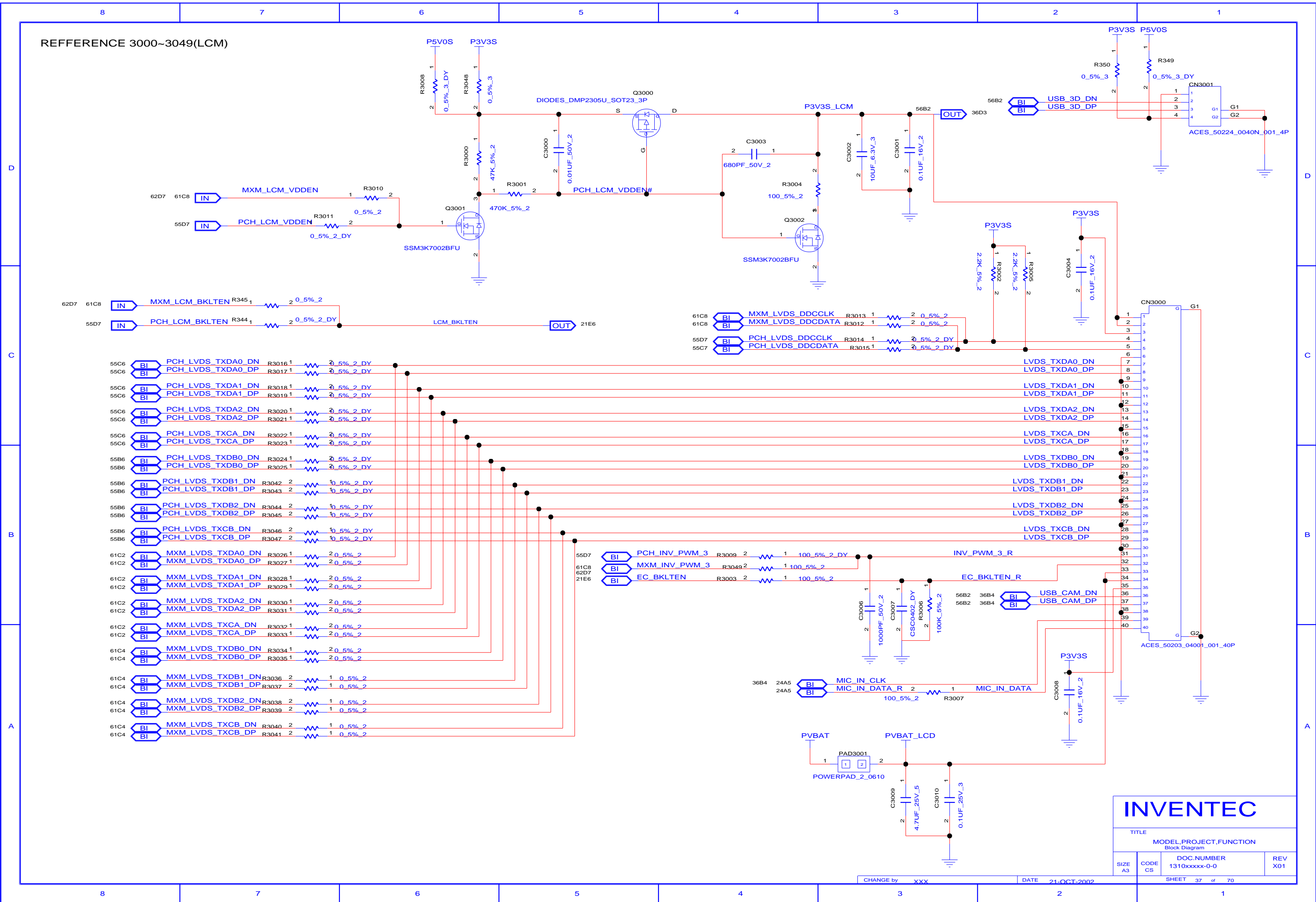
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Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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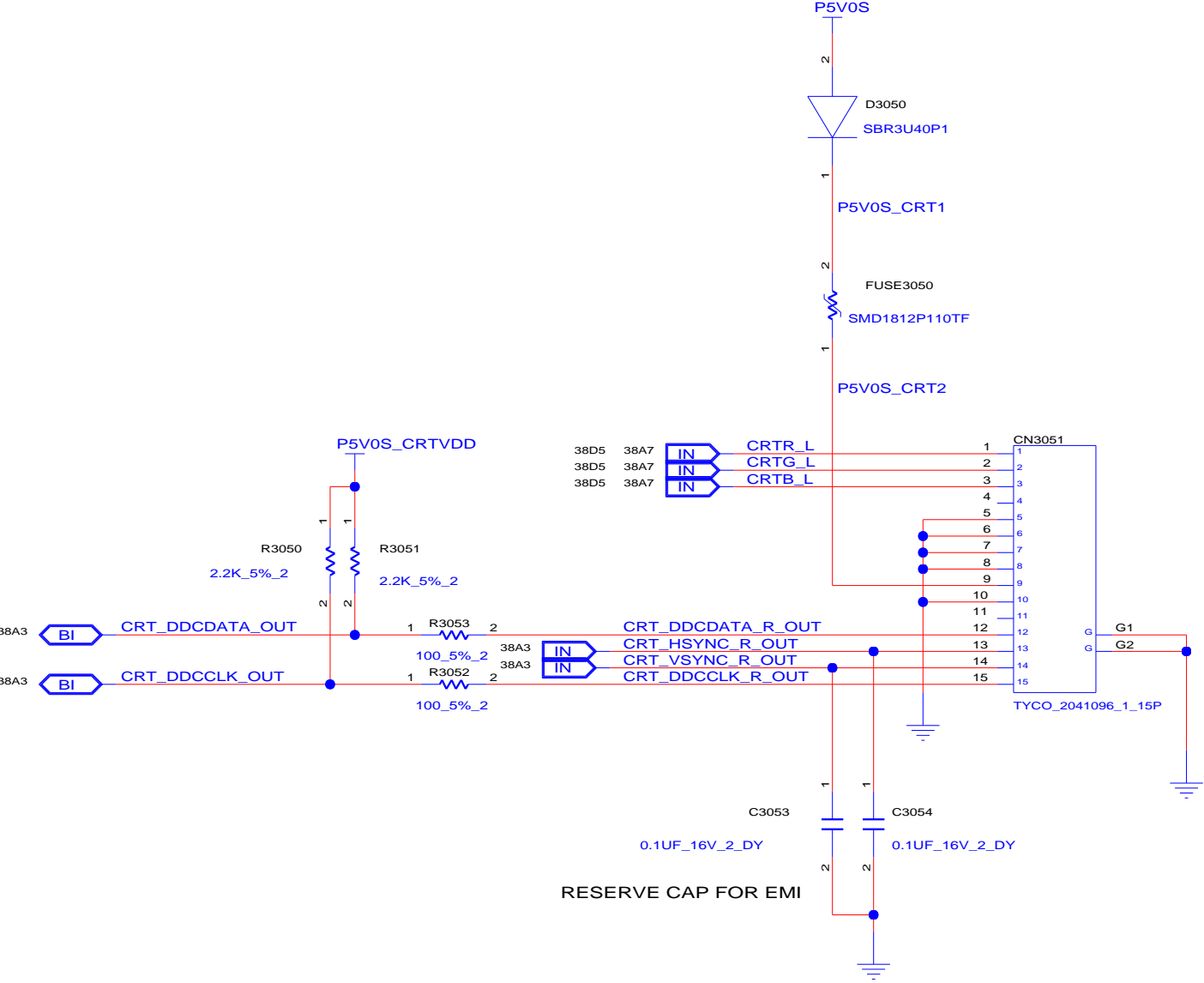
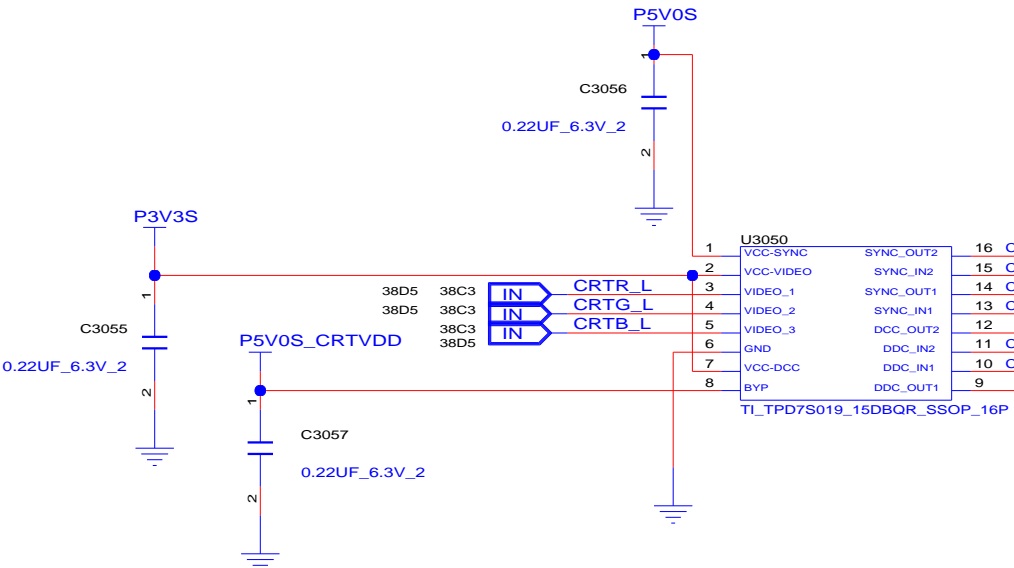
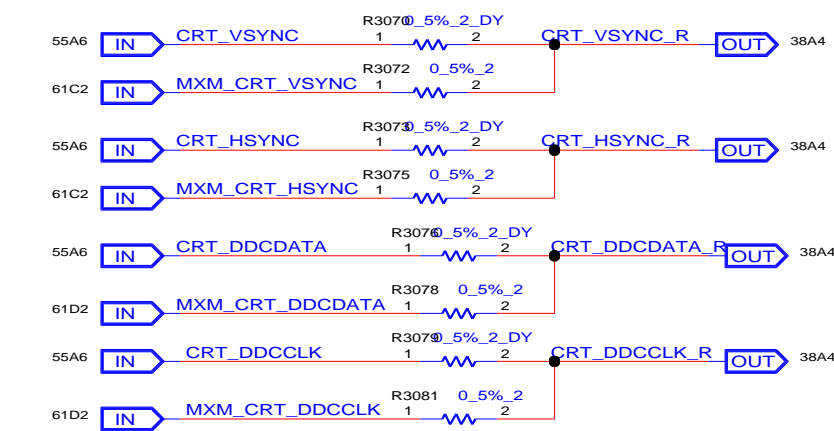
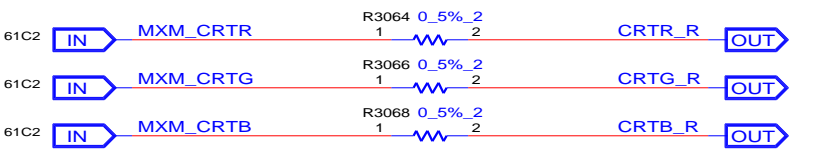
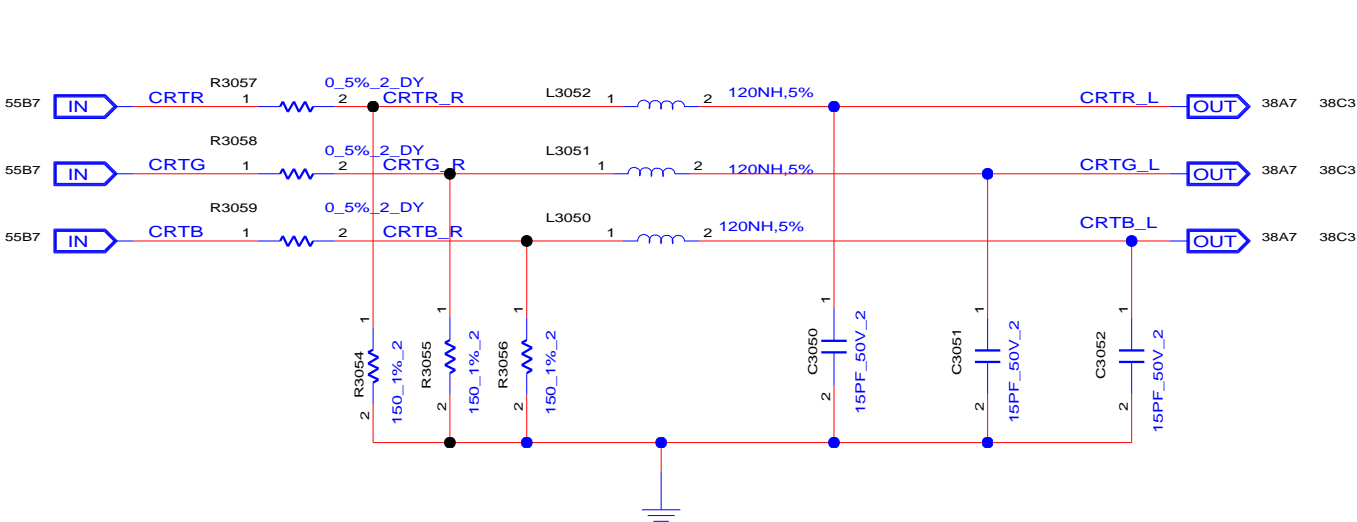
CHANGE by
XXX

DATE
21-OCT-2002

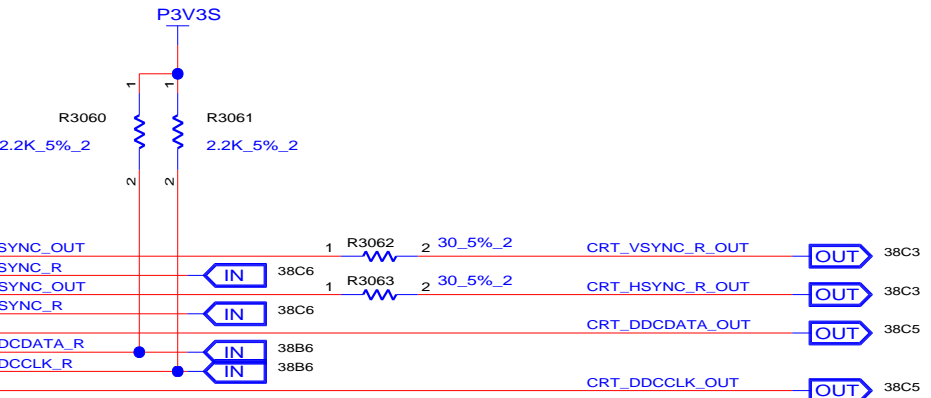
SHEET 36 of 70



REFERENCE 3050~3099(CRT)



RESERVE CAP FOR EMI



INVENTEC

TITLE MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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CHANGE by XXX DATE 21-OCT-2002

SHEET 38 of 70

REFERENCE 3150~3199(HDMI)

PLACE CLOSE TO CONNECTOR

D

C

B

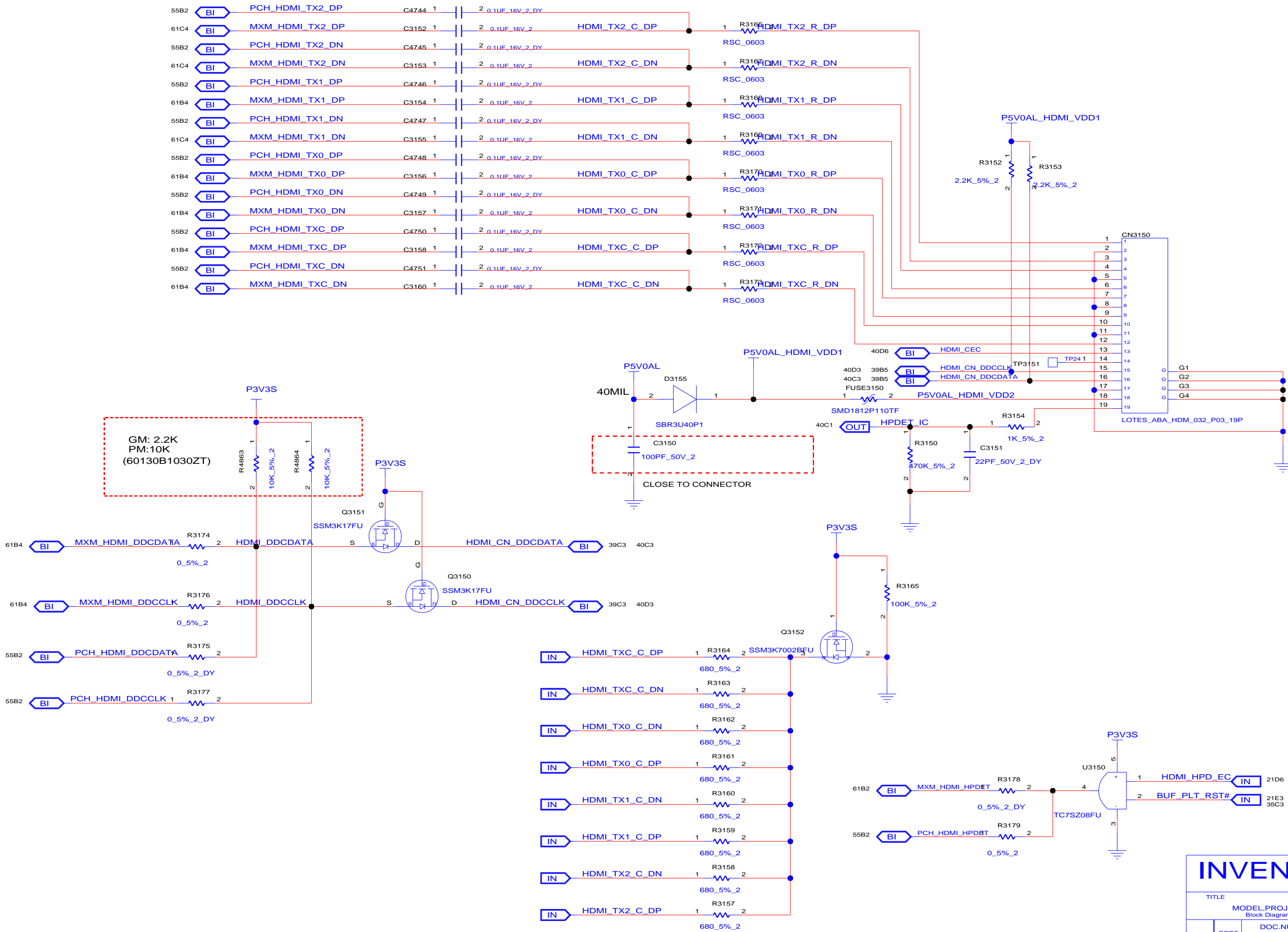
A

D

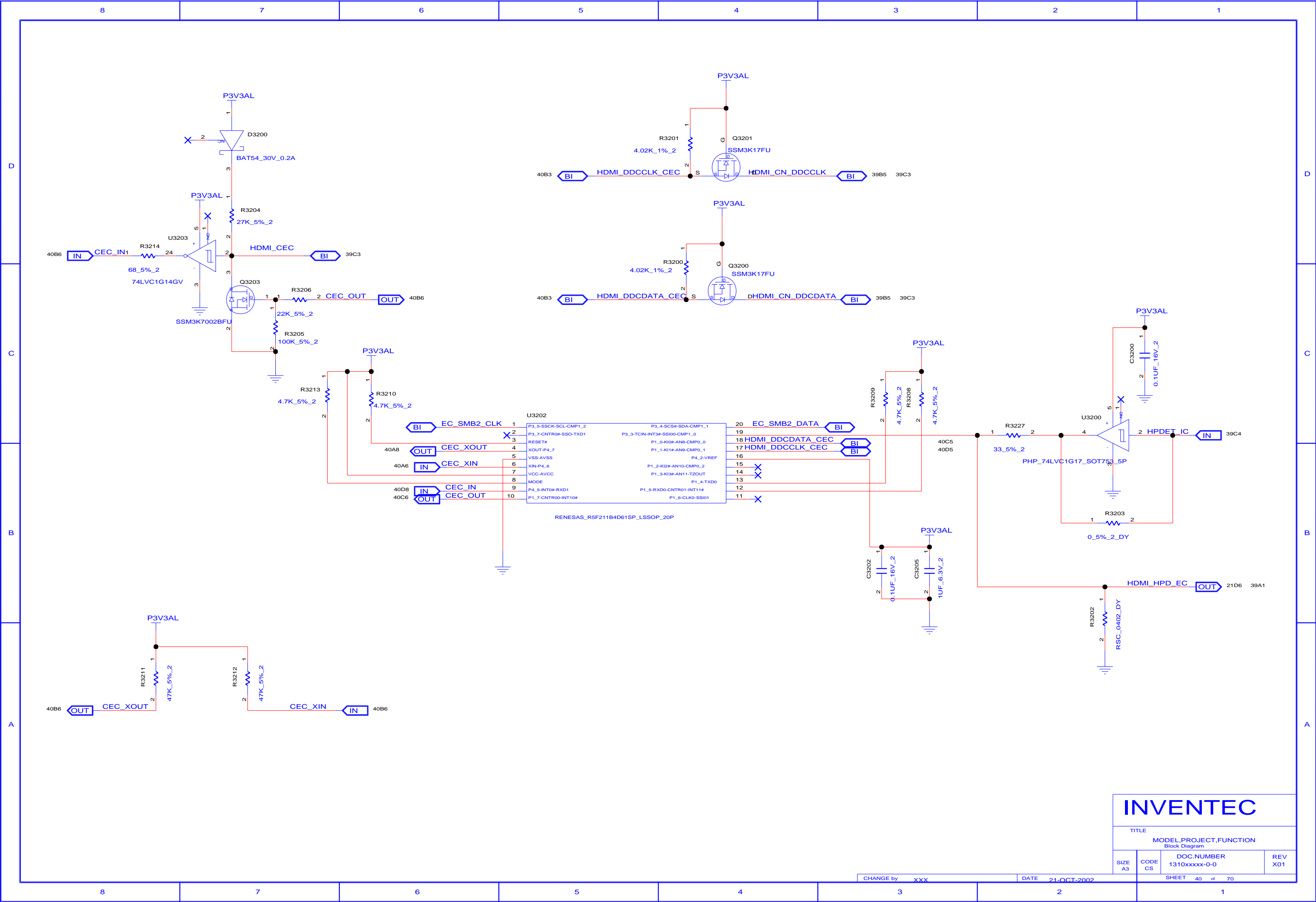
C

B

A



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



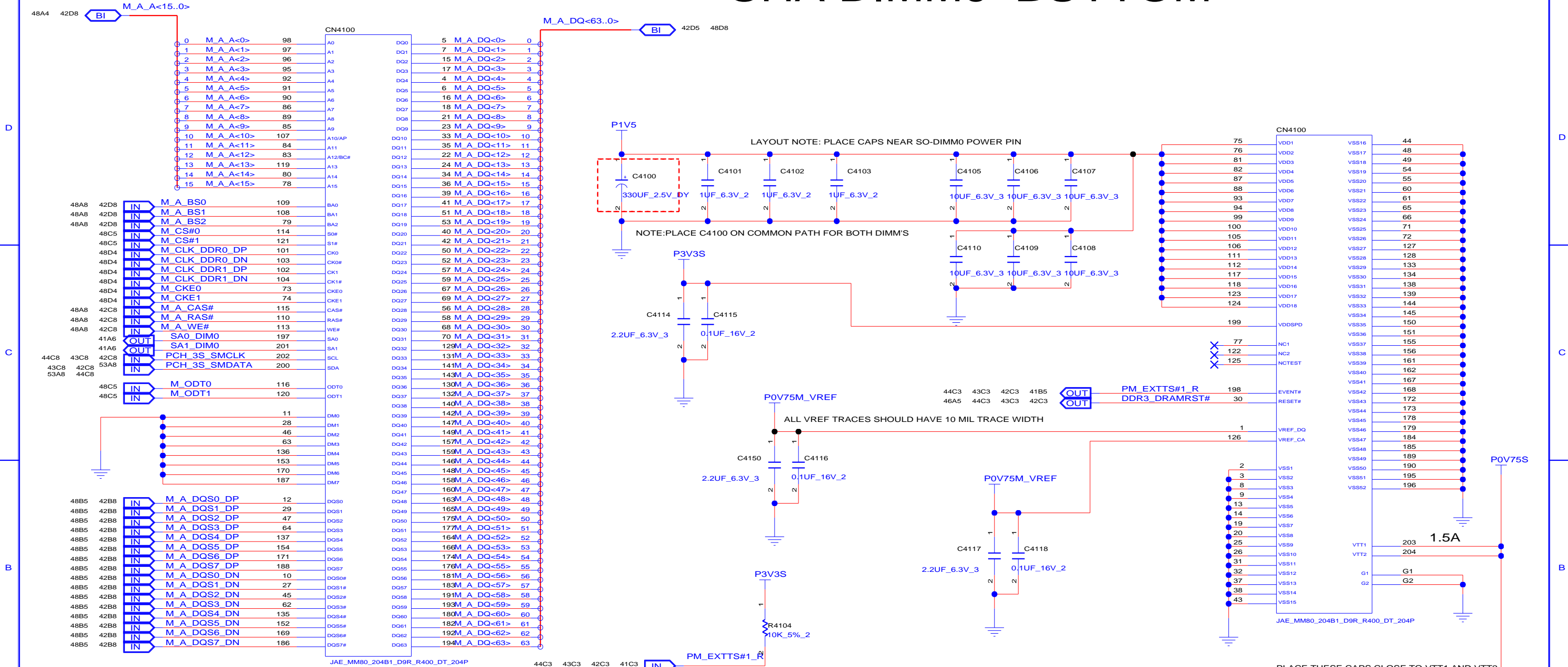
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 40 of 70

CHA DIMM0 BUTTOM

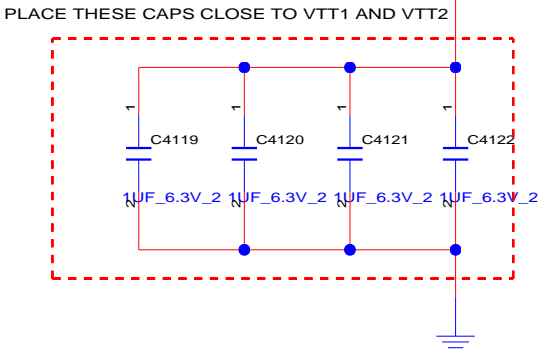
REFERENCE 4100~4199(DDR)



NOTE:

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

IF SA0_DIM0=0 , SA1_DIM0=0
SO-DIMMA SPD ADDRESS IS 0XA0
SO-DIMMA TS ADDRESS IS 0X30



INVENTEC

TITLE

MODEL,PROJECT,FUNCTION

Block Diagram

SIZE A3 CODE CS

DOC.NUMBER 1310xxxx-0-0

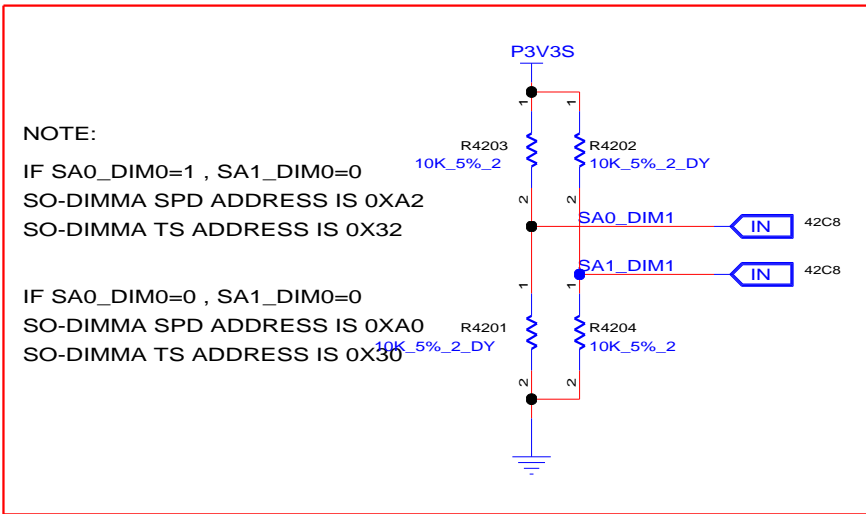
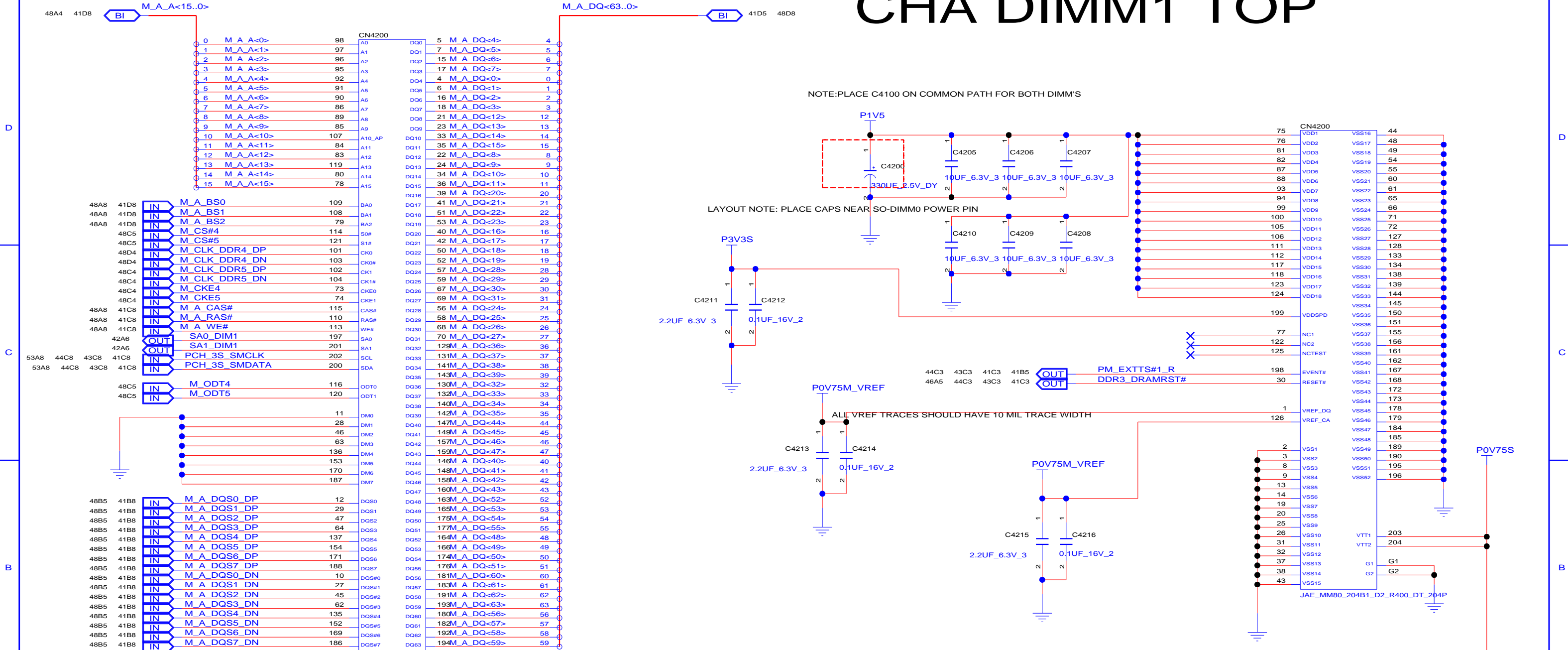
REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 41 of 70

CHA DIMM1 TOP

REFERENCE 4200~4299(DDR)



INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

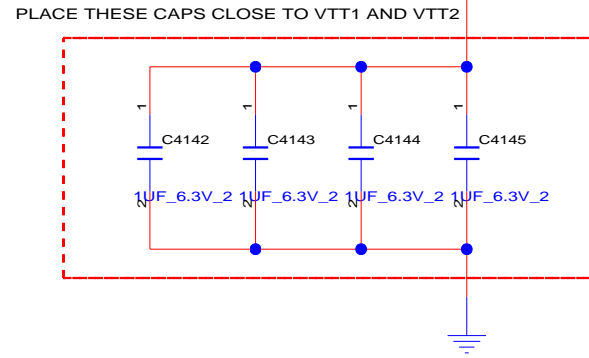
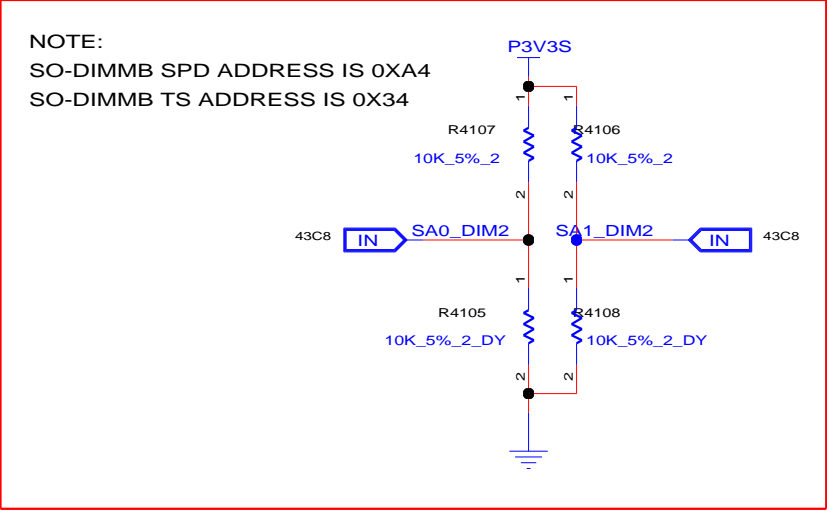
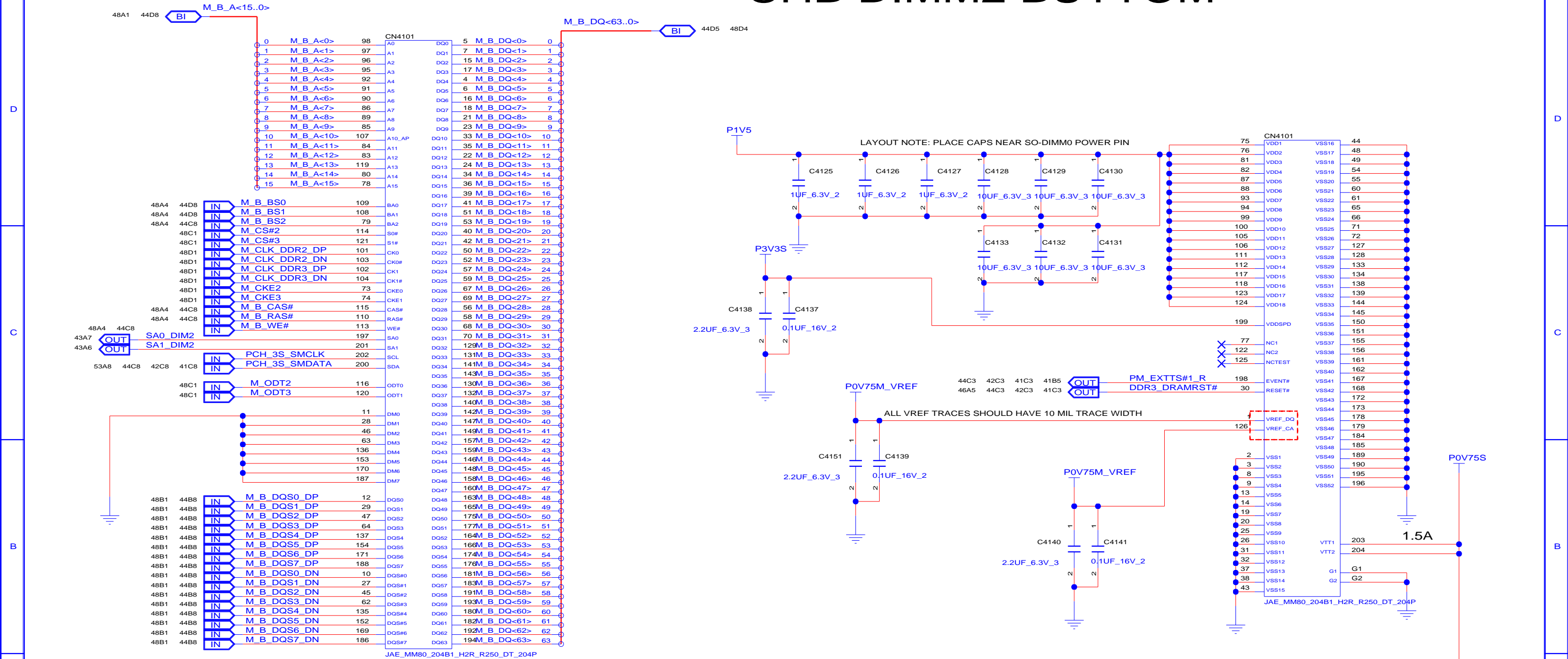
SIZE A3
CODE CS
DOC.NUMBER
1310xxxx-0-0
REV
X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 42 of 70

REFERENCE 4100~4199(DDR)

CHB DIMM2 BUTTOM

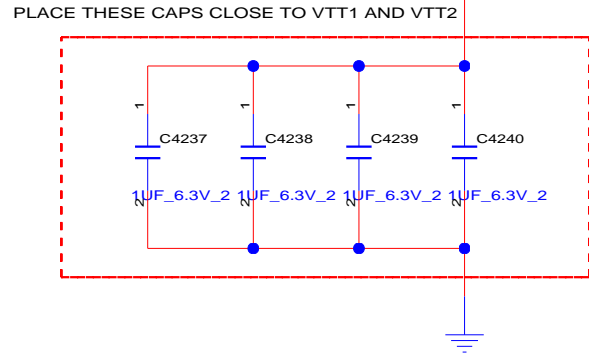
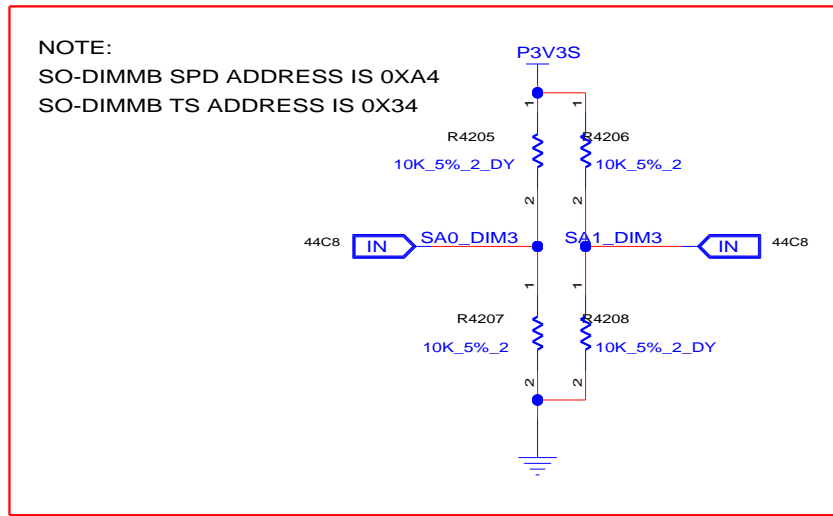
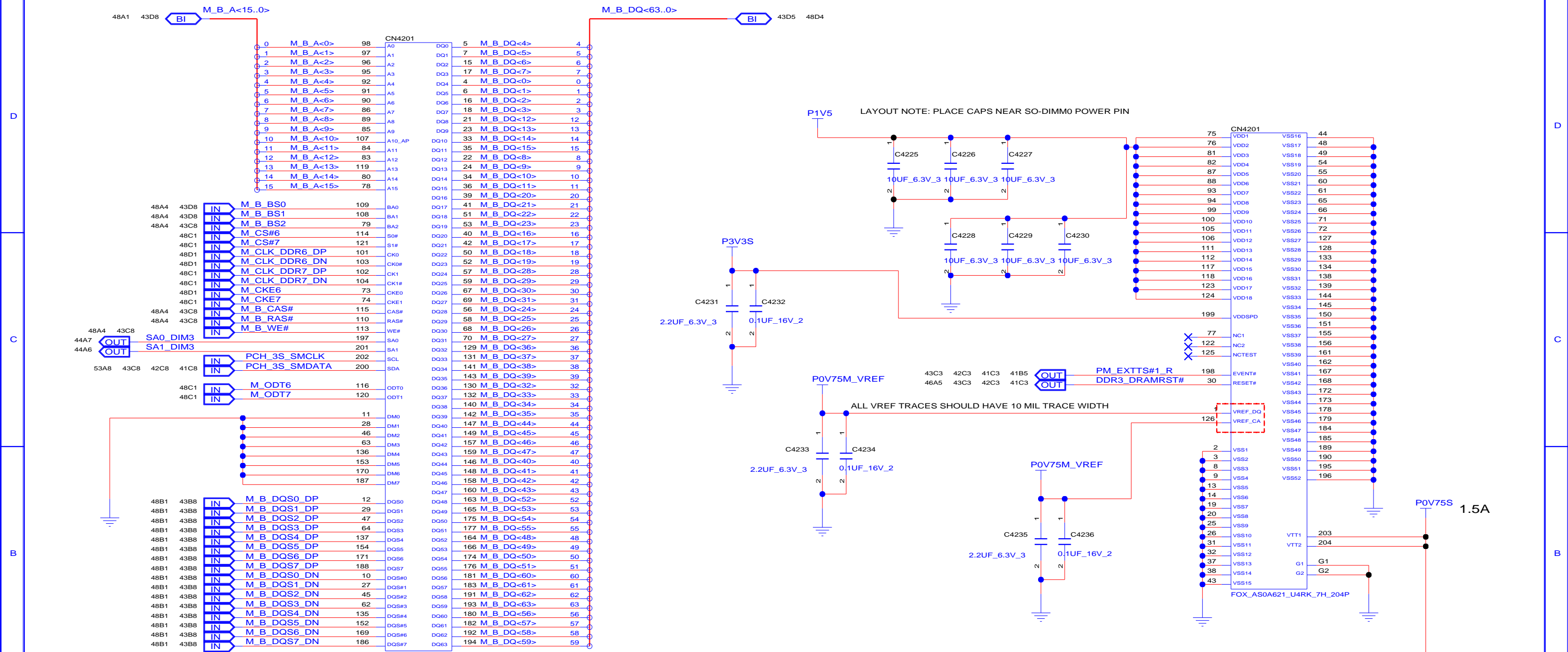


INVENTEC

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

REFERENCE 4200~4299(DDR)

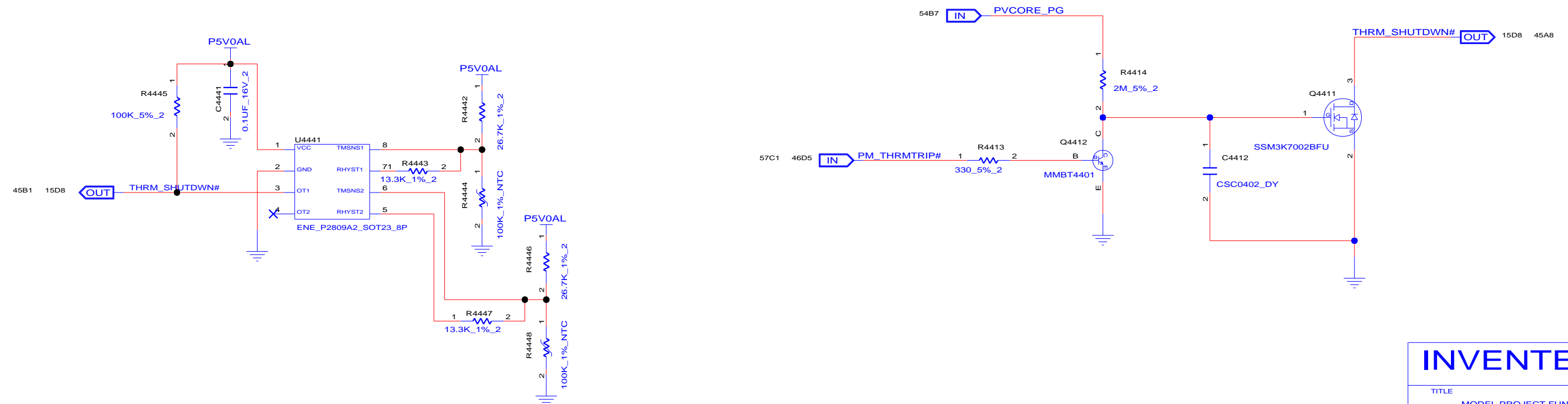
CHB DIMM3 TOP



INVENTEC

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

REFERENCE 4411~4449(THERMAL)



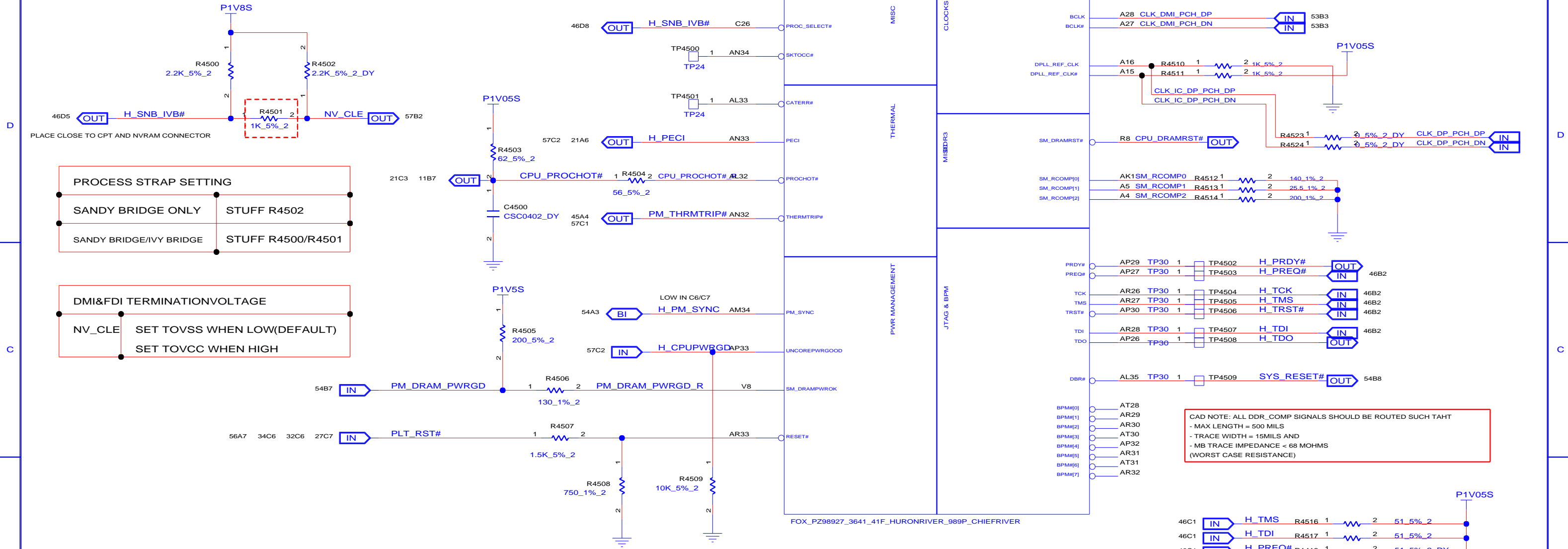
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION Block Diagram

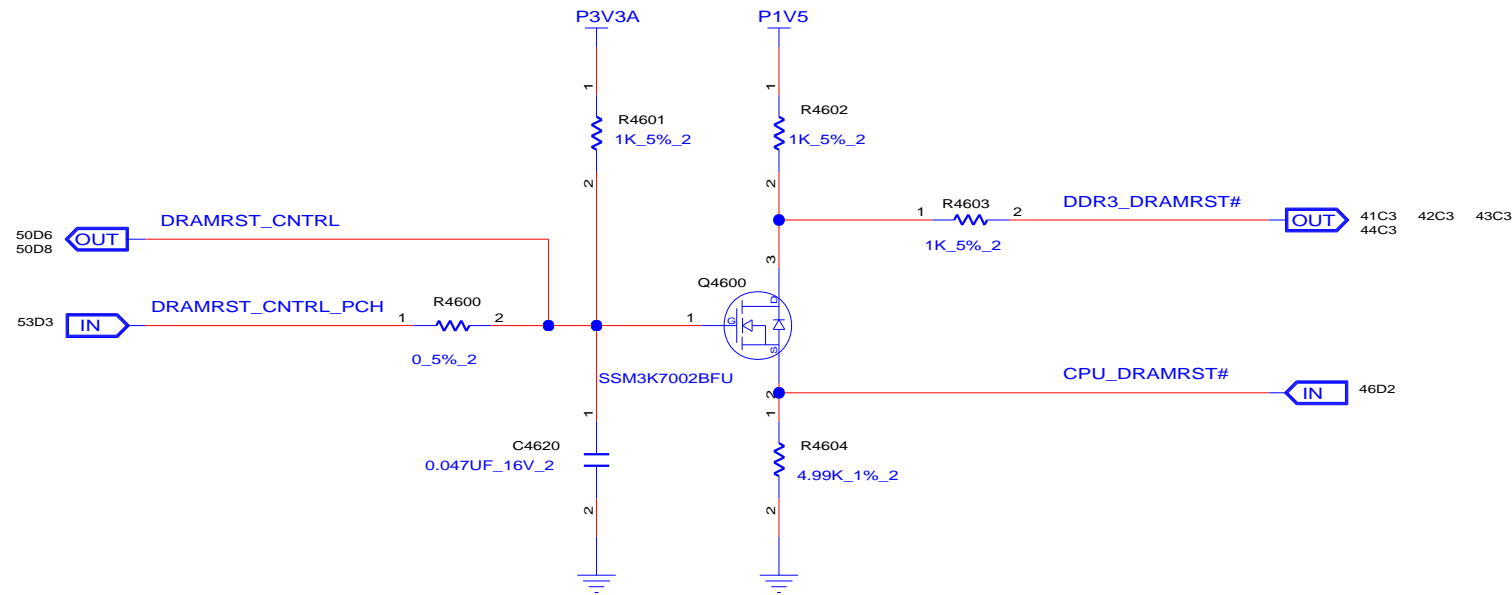
SIZE A0	CODE C0	DOC.NUMBER 1310xxxxx-0-0	REV X01
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CHANGE by	XXX	DATE	21-OCT-2002	SHEET	45	of	70
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REFERENCE 4500~4699(CPU)



S3 CIRCUIT: DRAM_RST# TO MEMORY SHOULD BE HIGH DURING S3



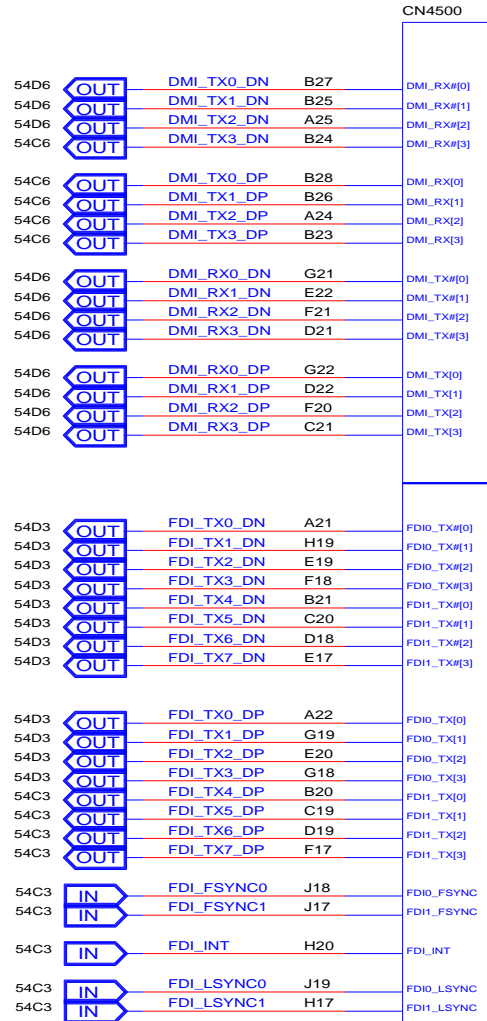
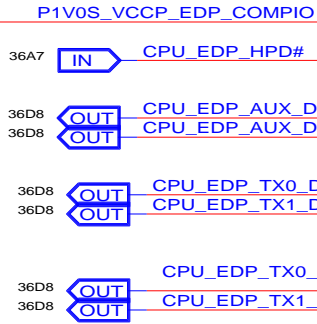
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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

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REFERENCE 4500~4699(CPU)

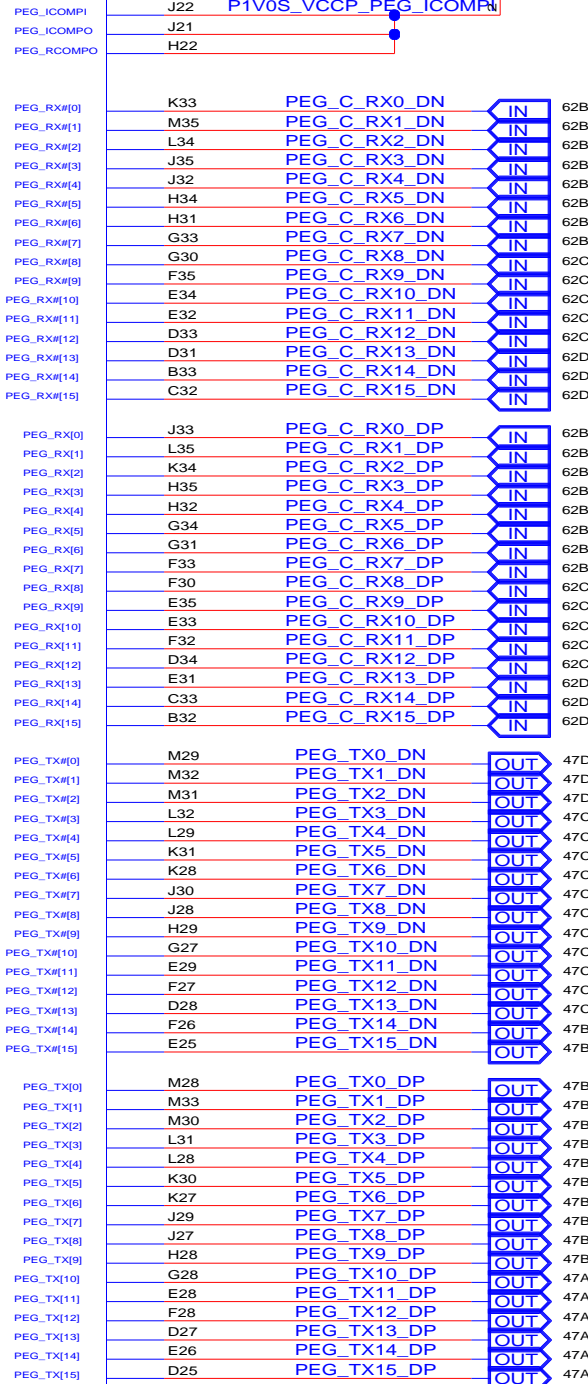


DMI

Intel(R) FDI

eDP

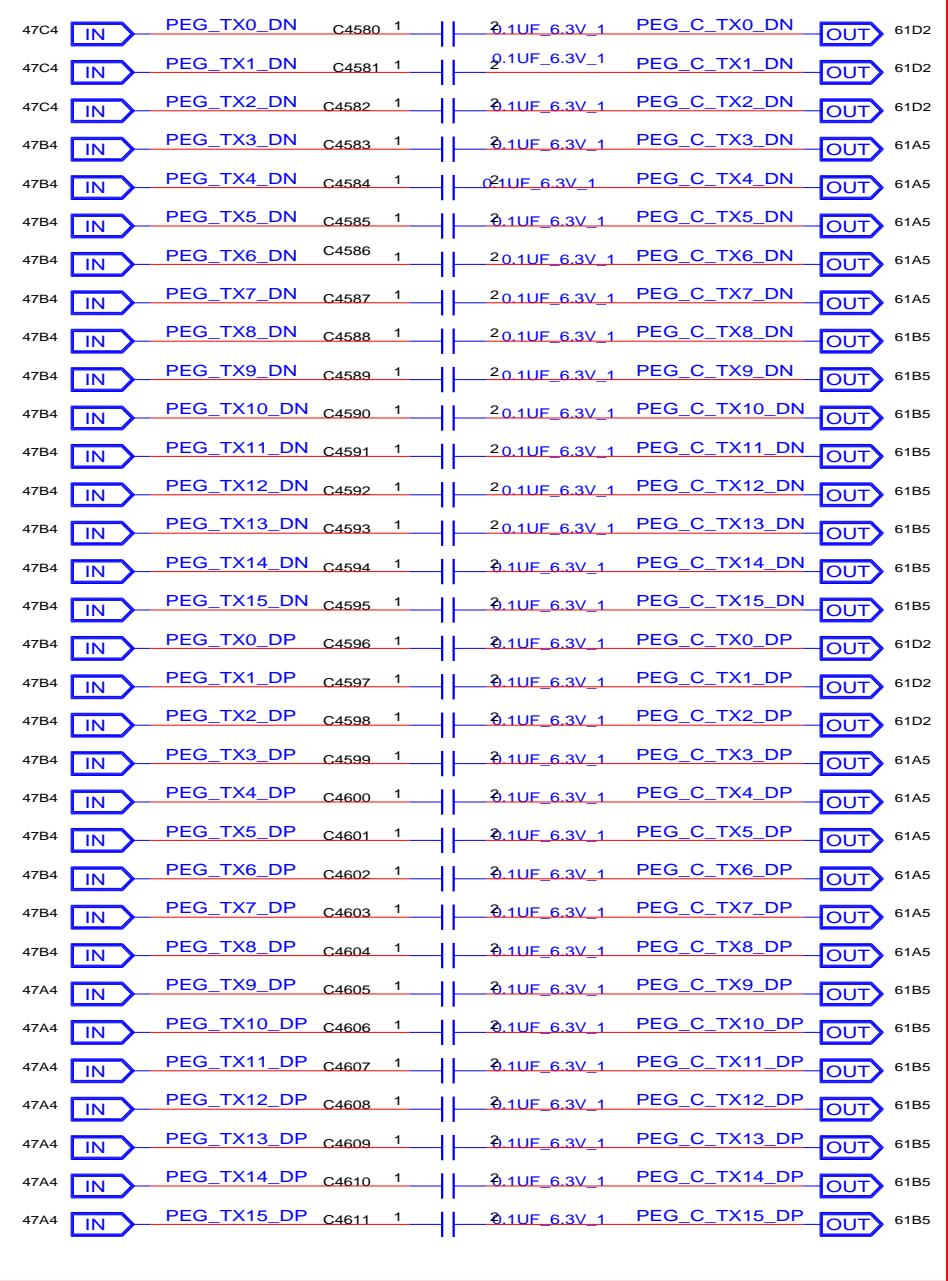
PCI EXPRESS* - GRAPHICS



CAD NOTE: PEG_ICOMPI AND RCOMPO SIGNALS SHOULD BE SHORTED AND ROUTED WITH
- MAX LENGTH = 500 MILS
- TYPICAL IMPEDANCE = 43 MOHMS

PEG_ICOMPO SIGNALS SHOULD BE ROUTED WITH
- MAX LENGTH = 500 MILS
- TYPICAL IMPEDANCE = 14.5 MOHMS

CLOSE TO CPU



CAD NOTE: DP_COMPIO AND ICOMPO SIGNALS SHOULD BE SHORTED NEAR BALLS AND ROUTED WITH
- TYPICAL IMPEDANCE < 25 MOHMS

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

REFERENCE 4500~4699(CPU)

SOCKET,CPU,989P,TIN,3.0MM,STR,SMD,TR

CN4500

DDR SYSTEM MEMORY A

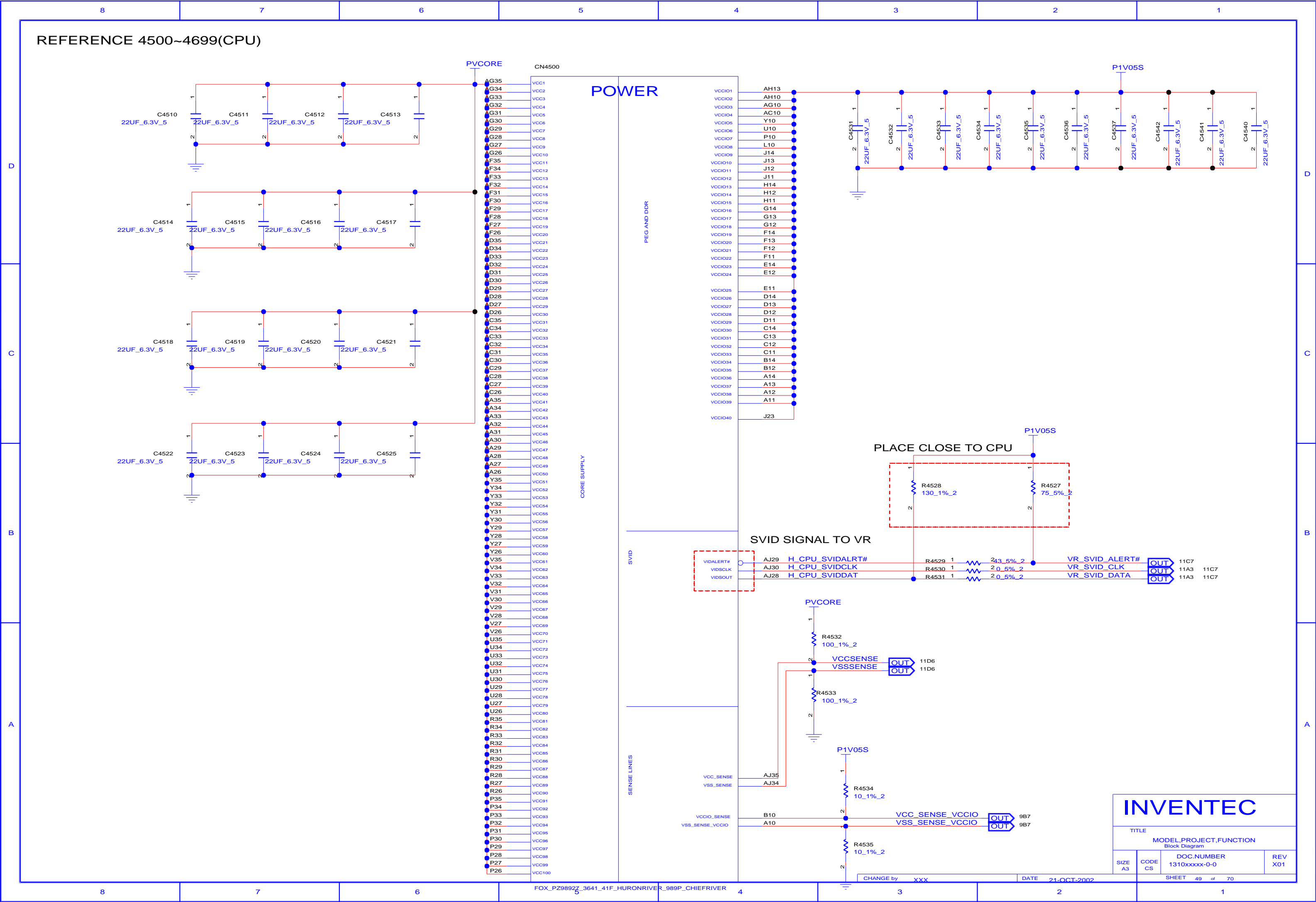
DDR SYSTEM MEMORY B

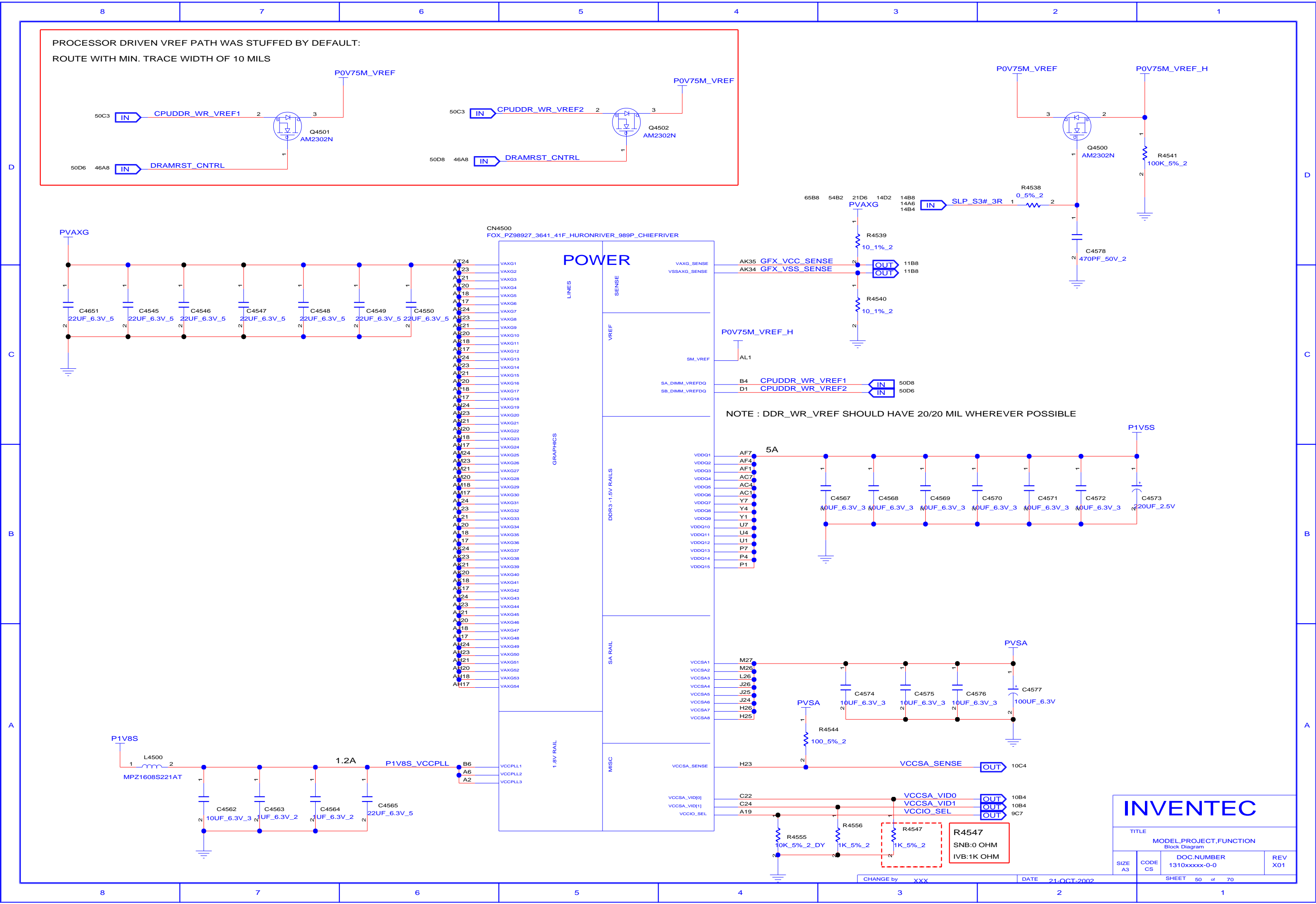
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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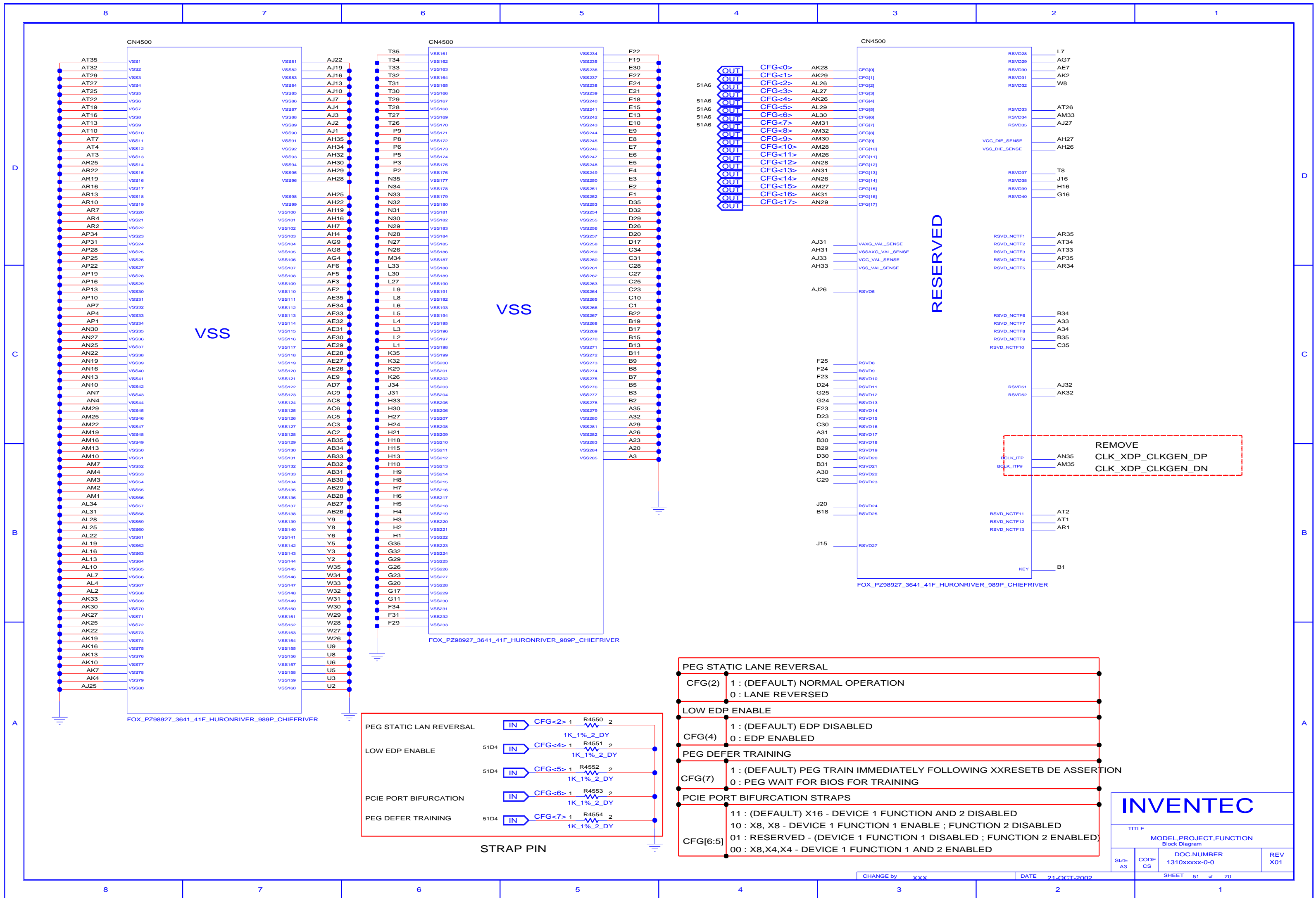


INVENTEC

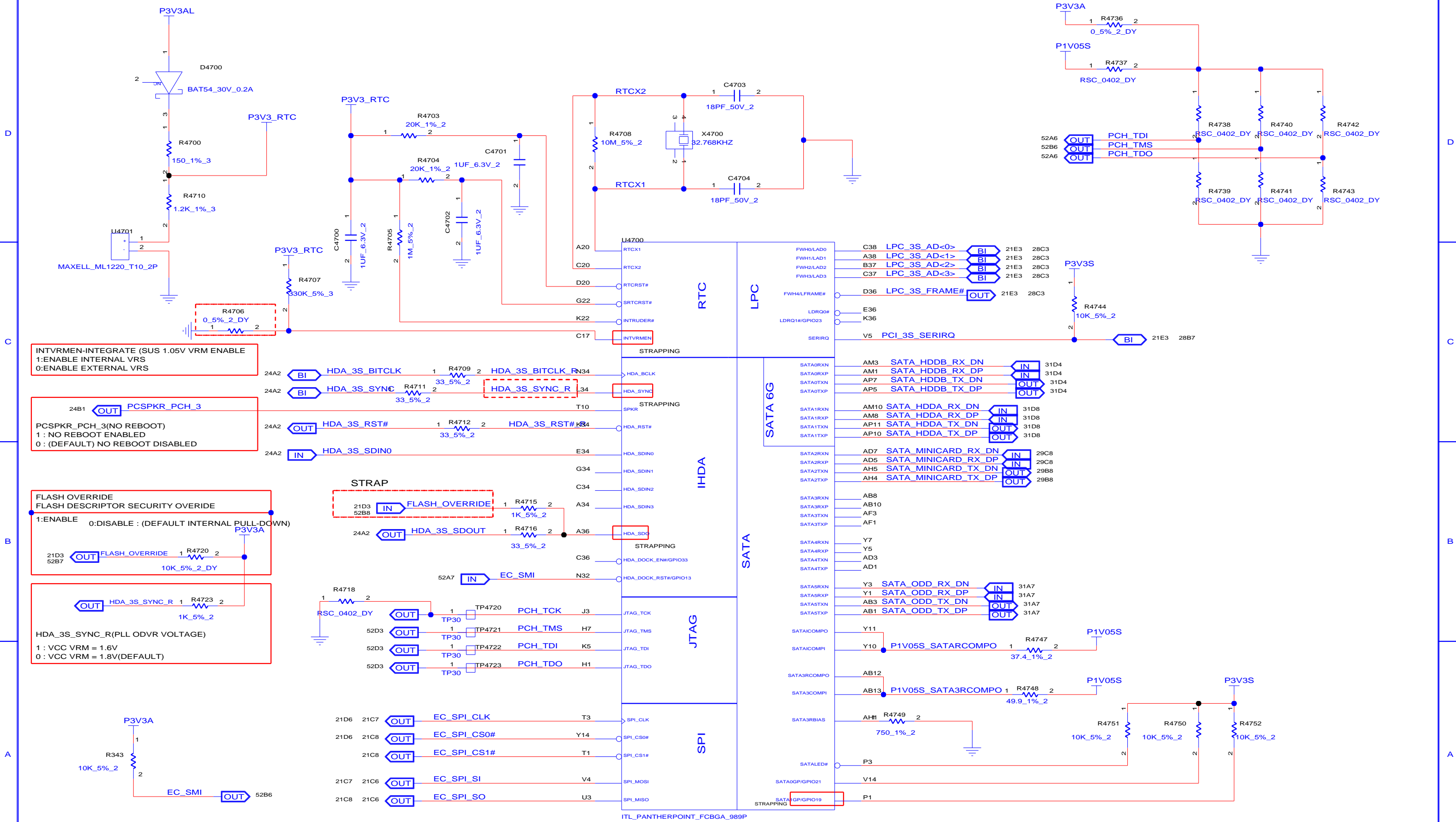
TITLE MODEL,PROJECT,FUNCTION
Block Diagram

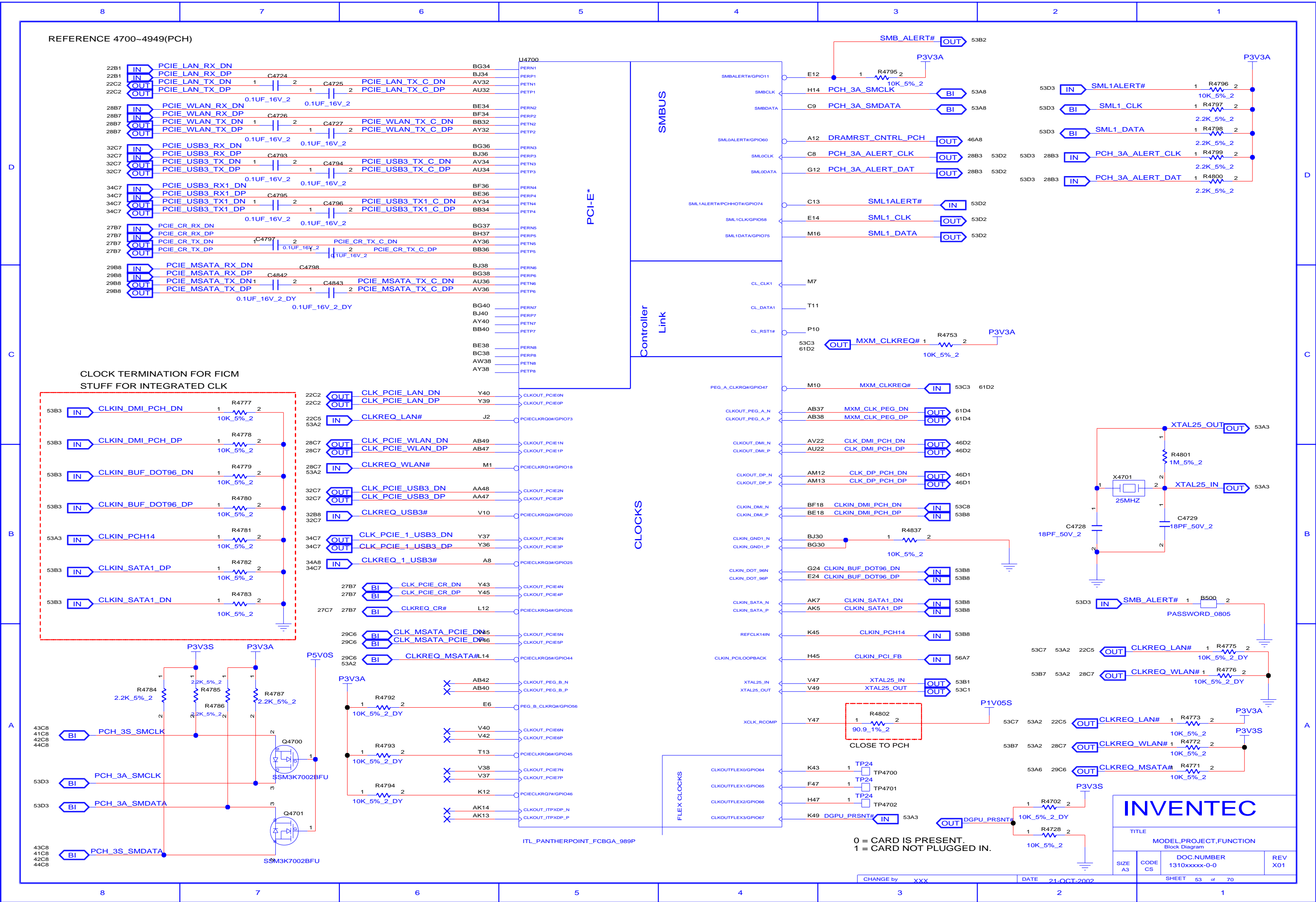
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxx-0-0	X01

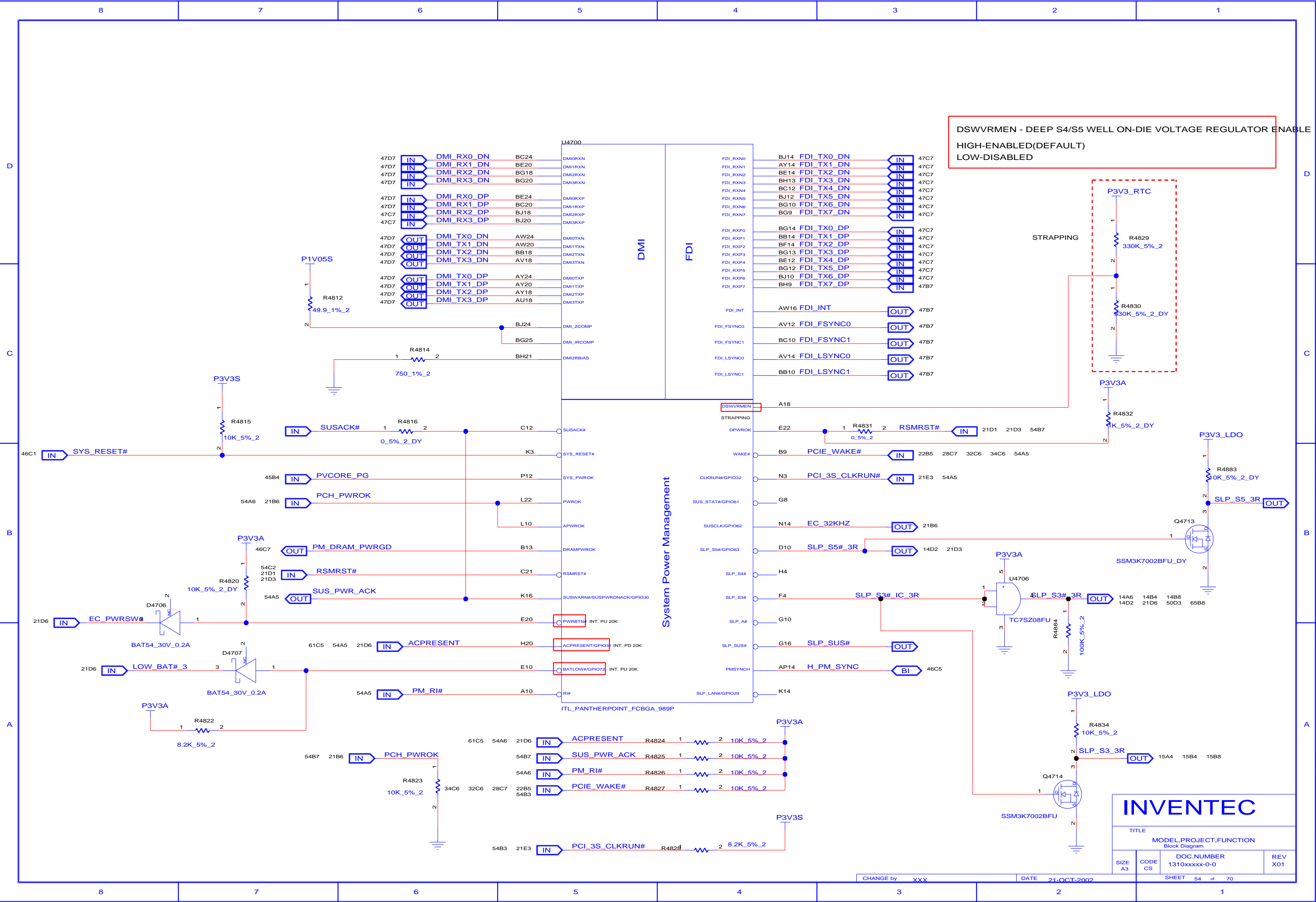
CHANGE by XXX DATE 21-OCT-2002 SHEET 50 of 70

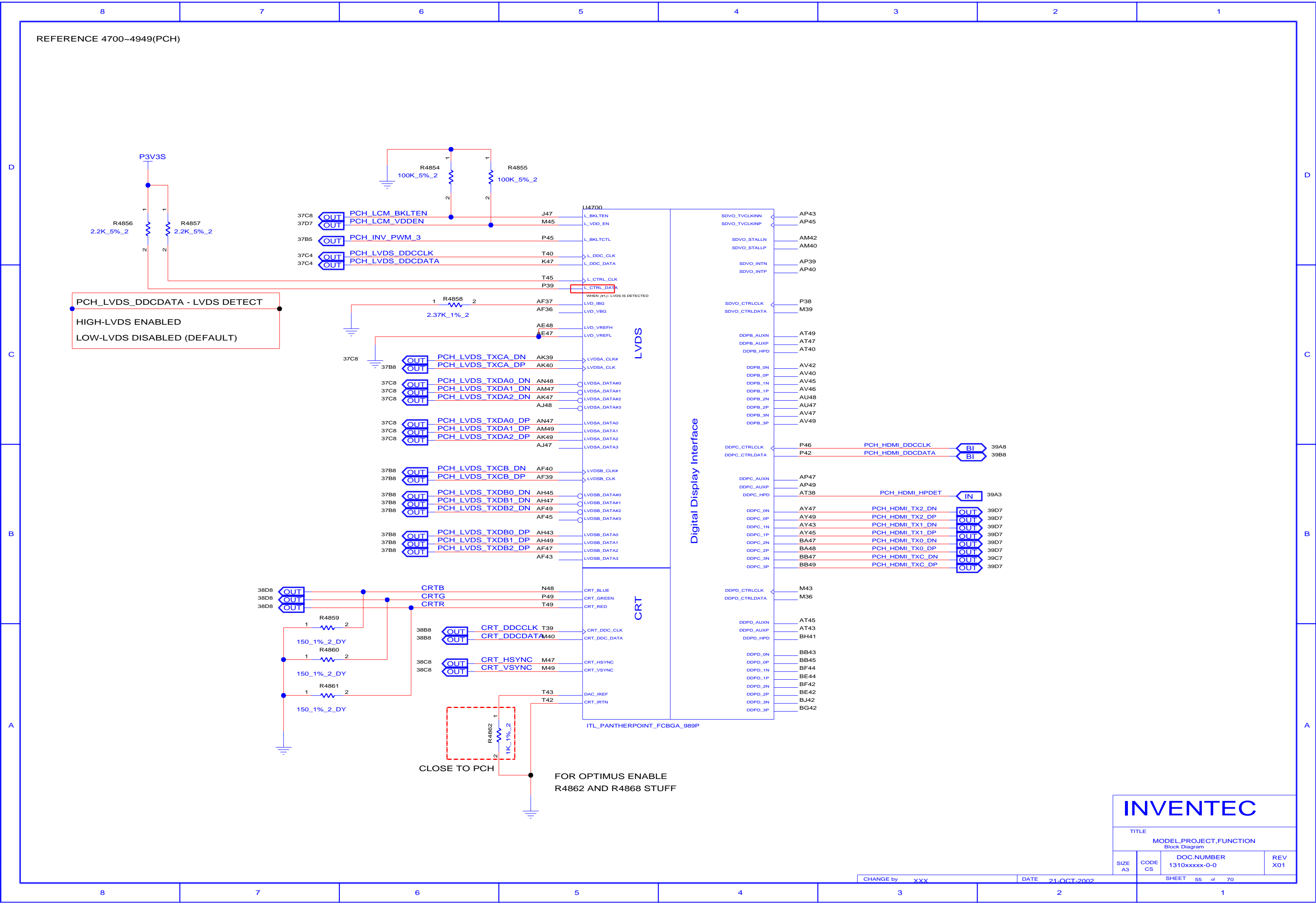


REFERENCE 4700~4949(PCH)









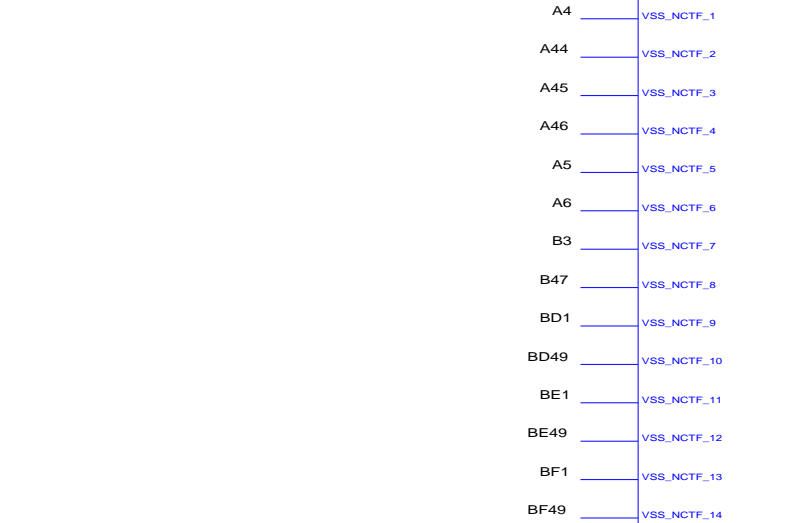
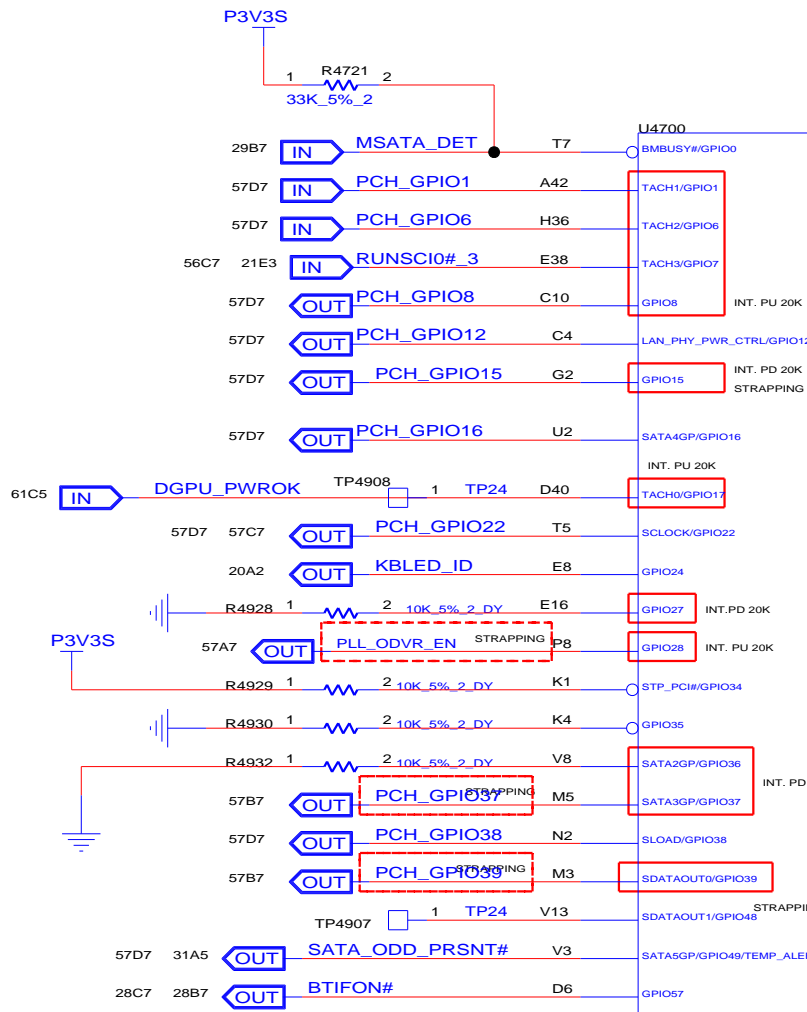
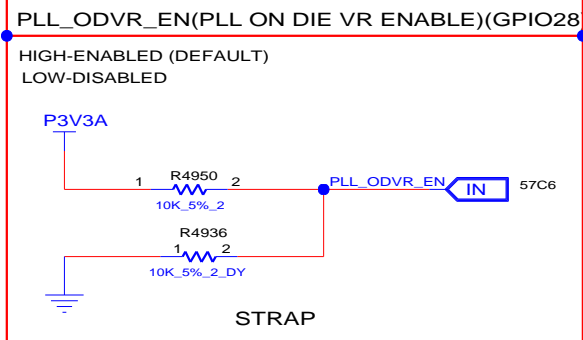
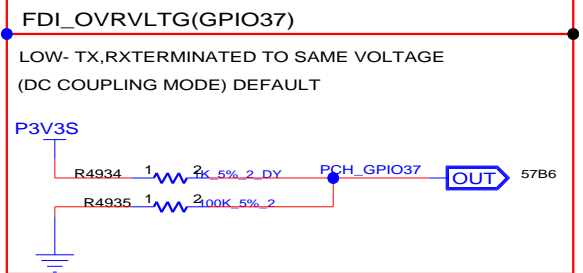
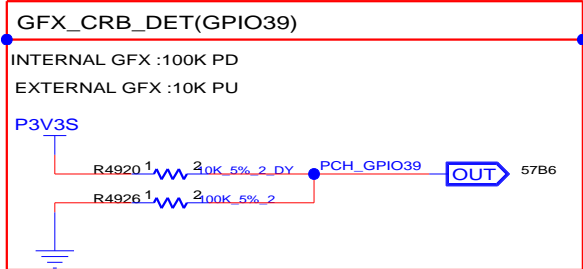
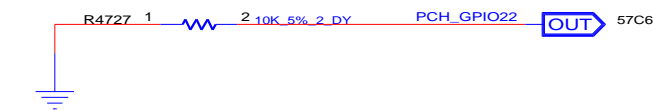
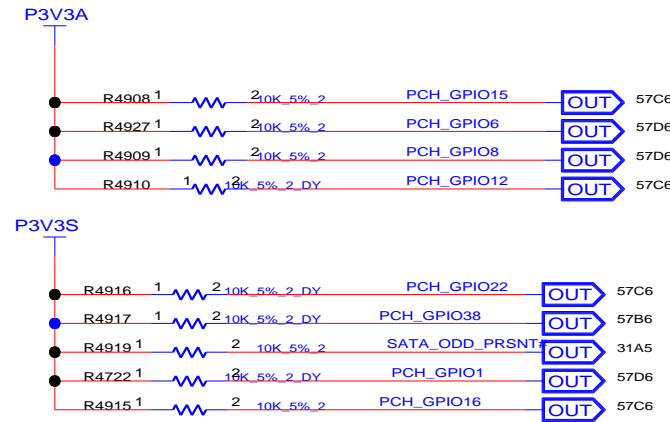
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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CHANGE by XXX DATE 21-OCT-2002

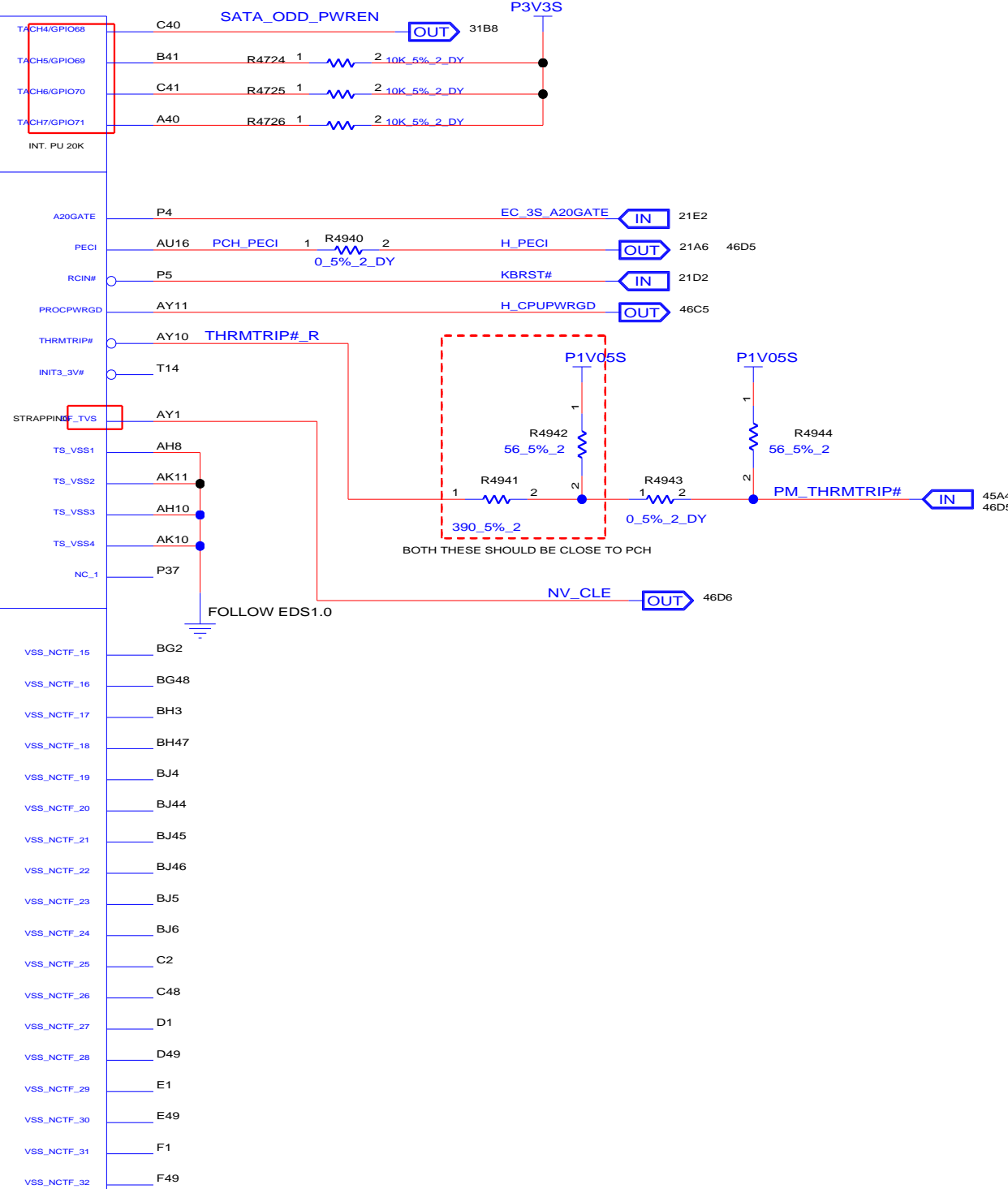
SHEET 55 of 70



GPIO

NCTF

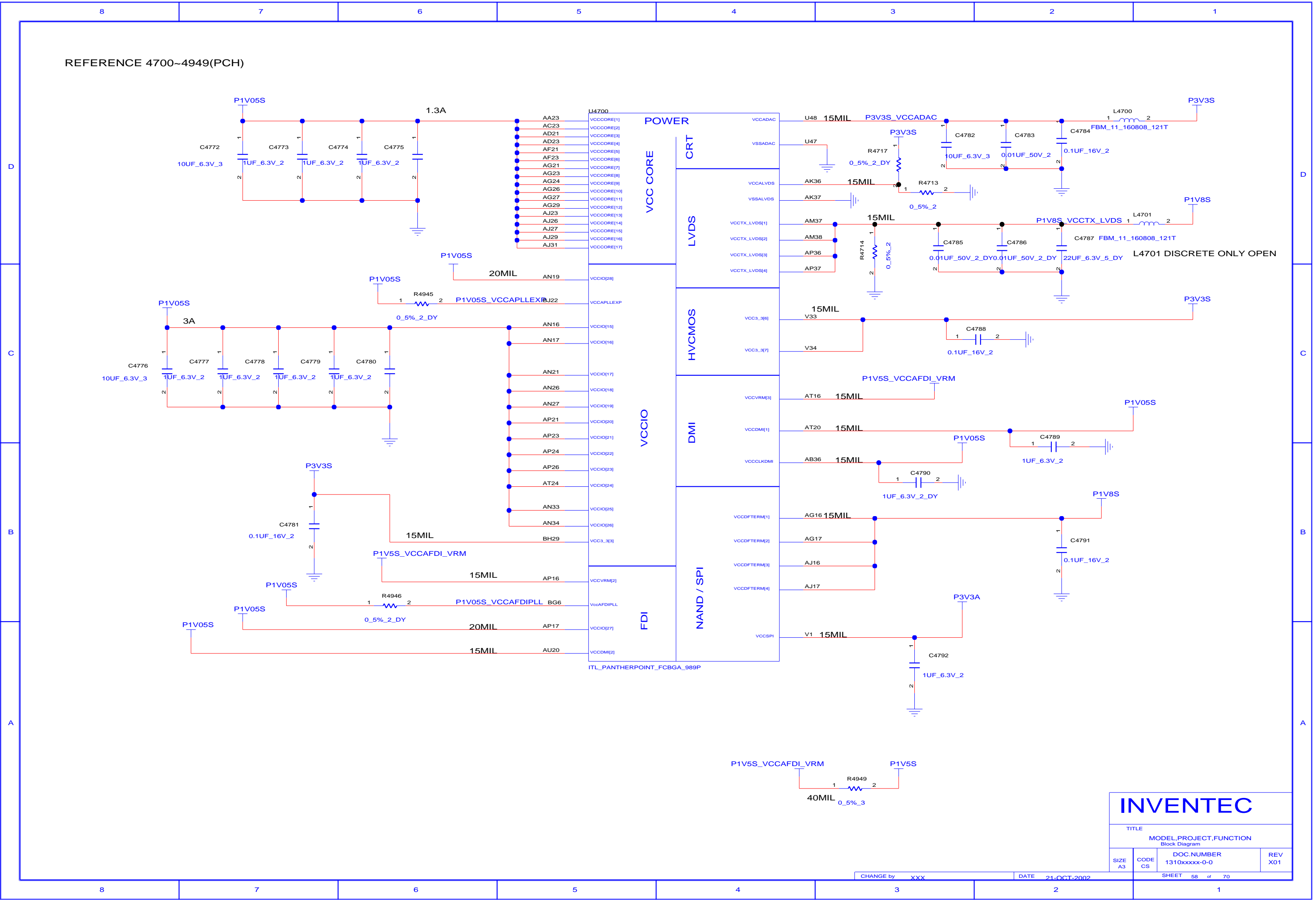
CPU/MISC



INVENTEC

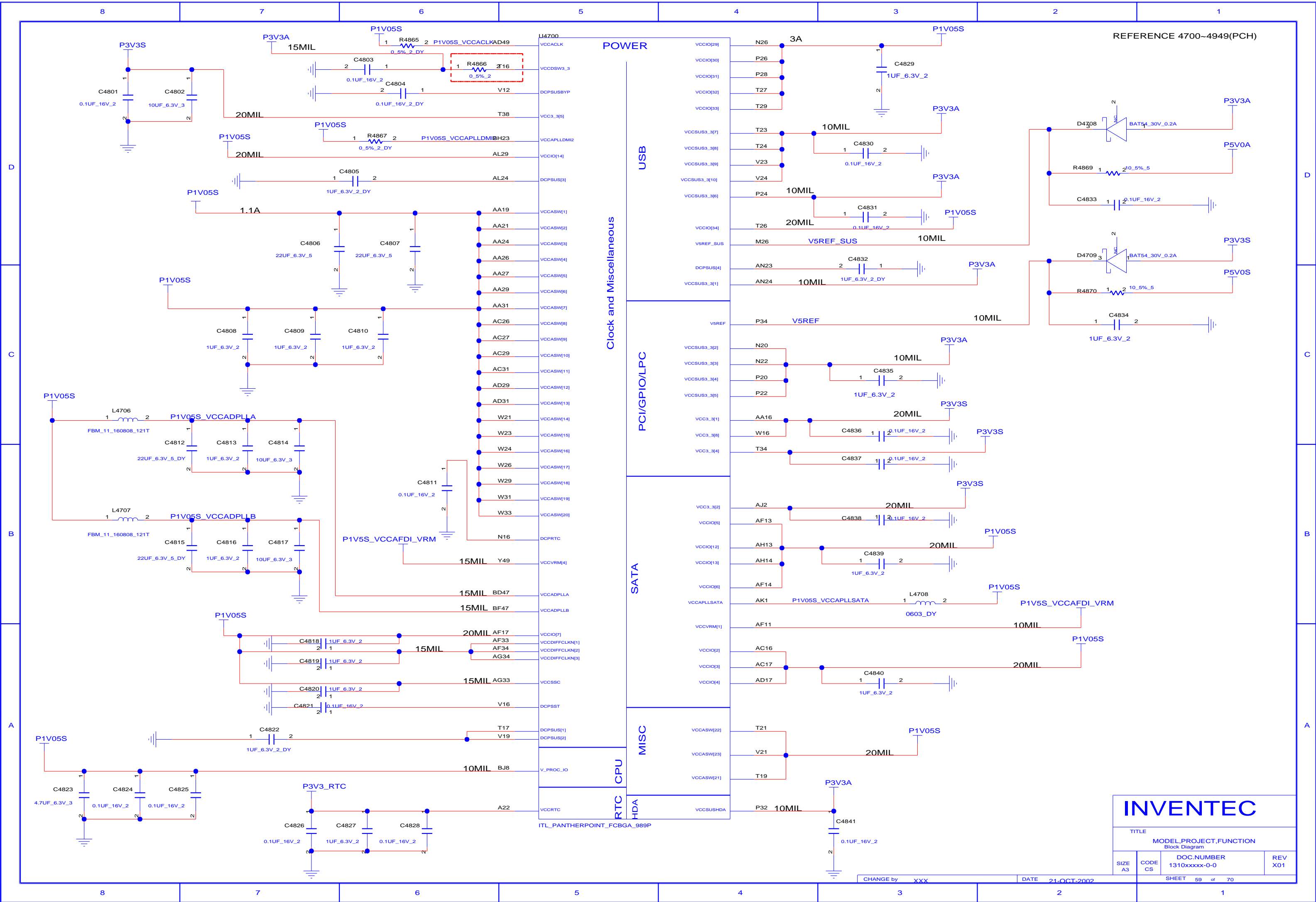
TITLE MODEL,PROJECT,FUNCTION
Block Diagram

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

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



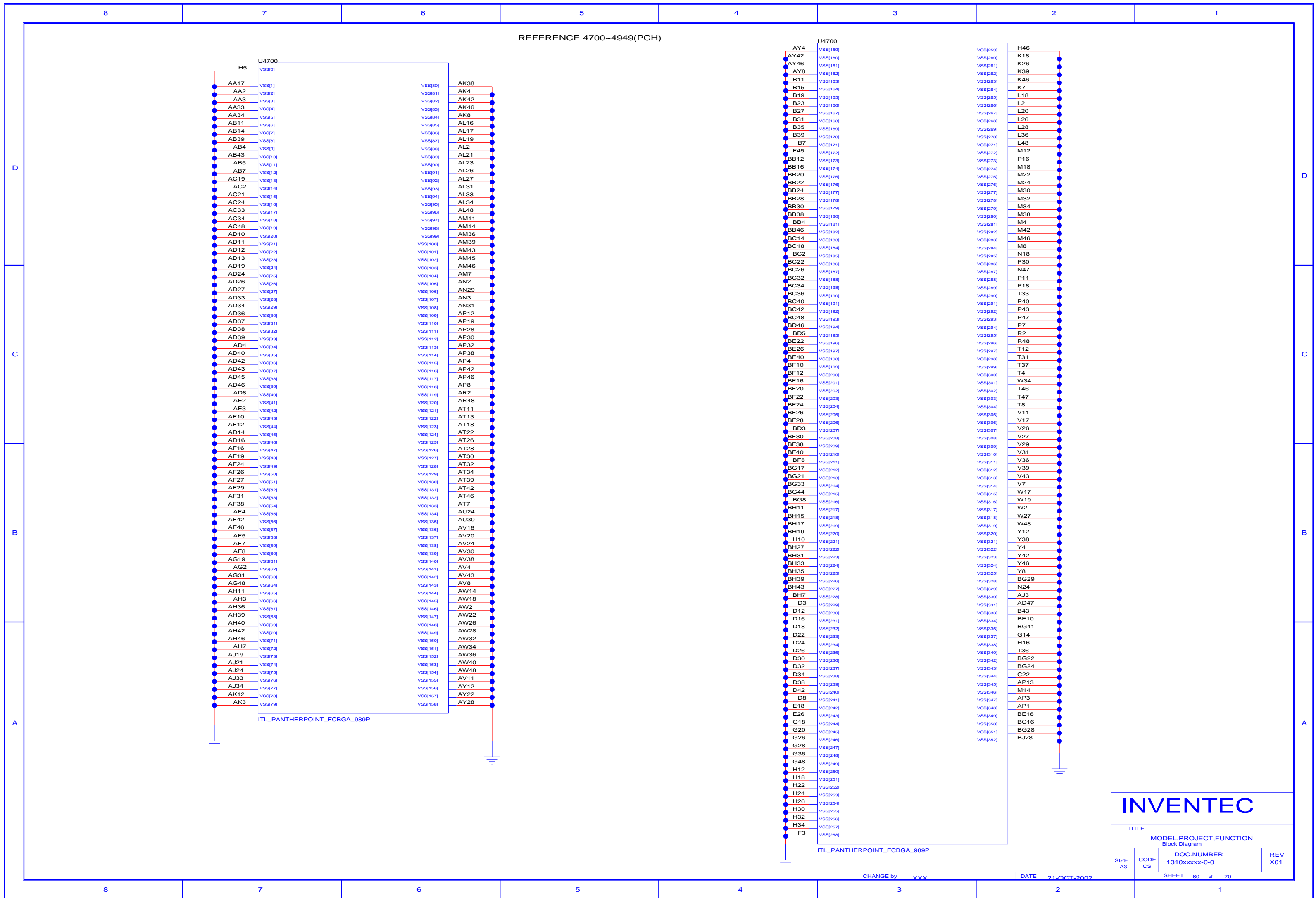
REFERENCE 4700~4949(PCH)

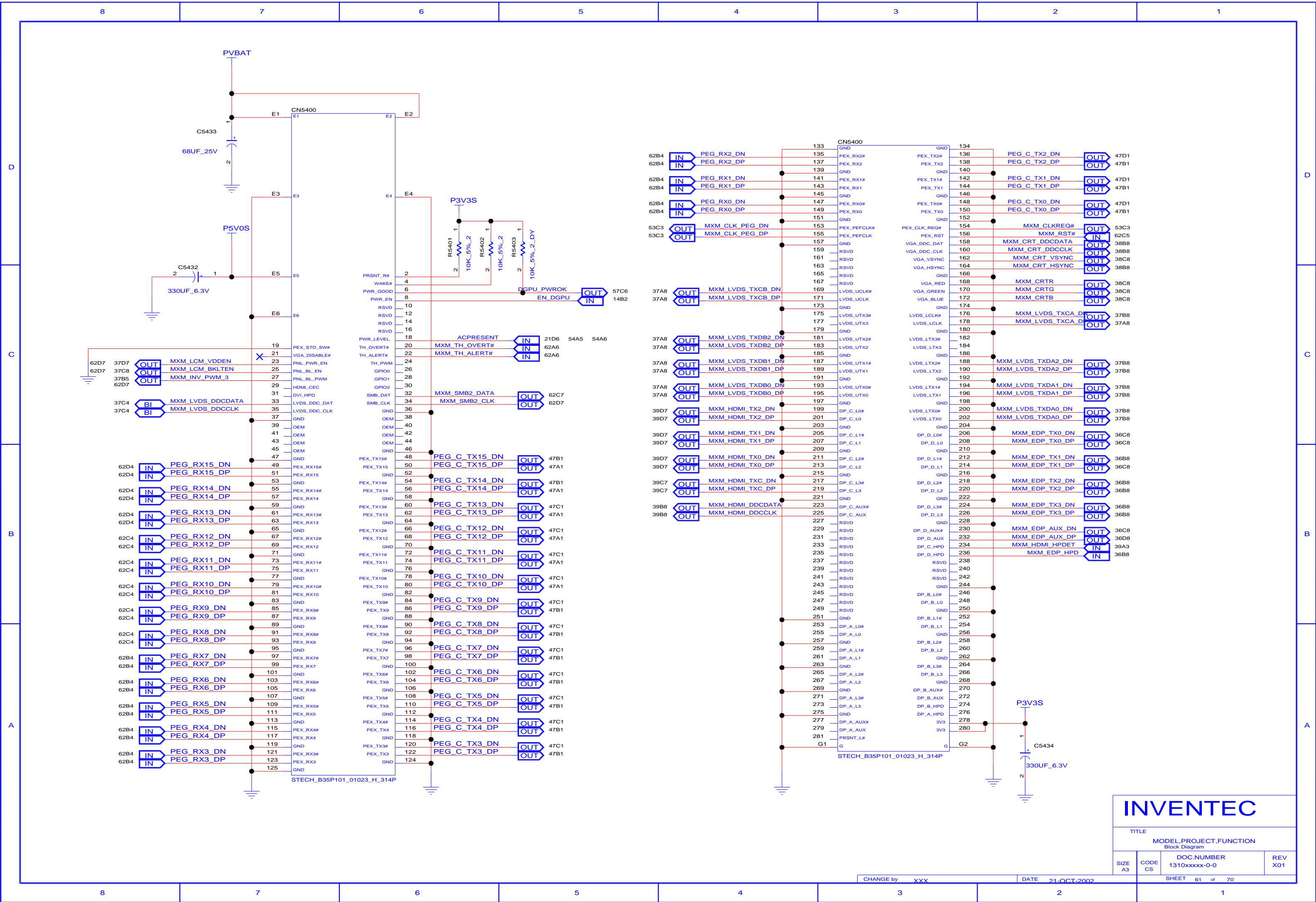
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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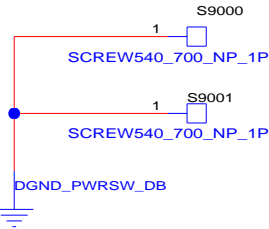
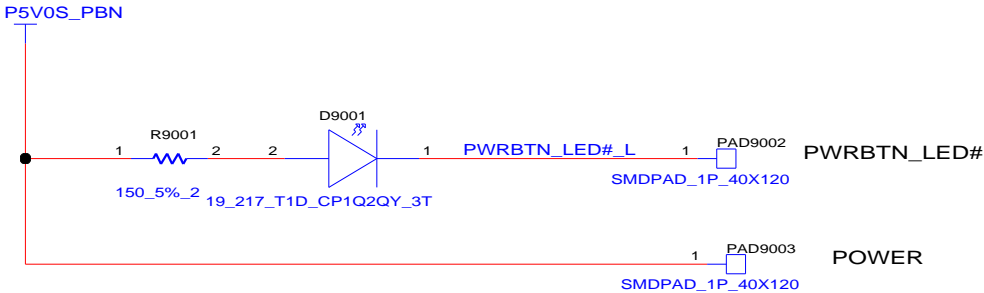
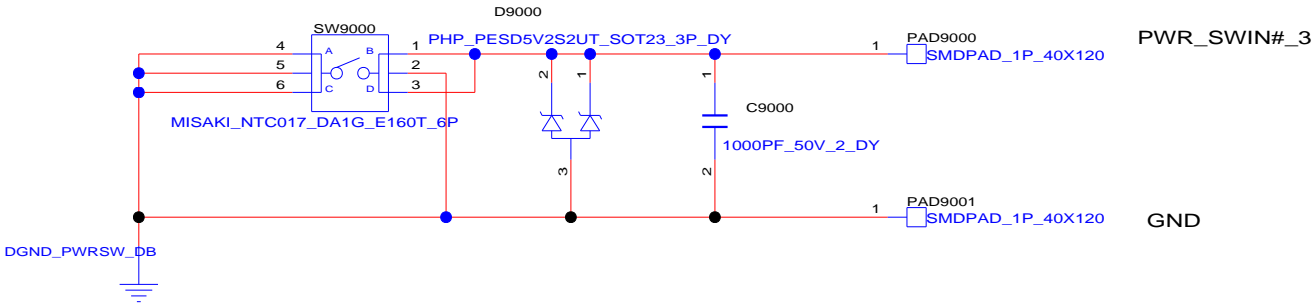
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REFERENCE 9000~9999(SMALL BOARD)

POWER BUTTON



INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

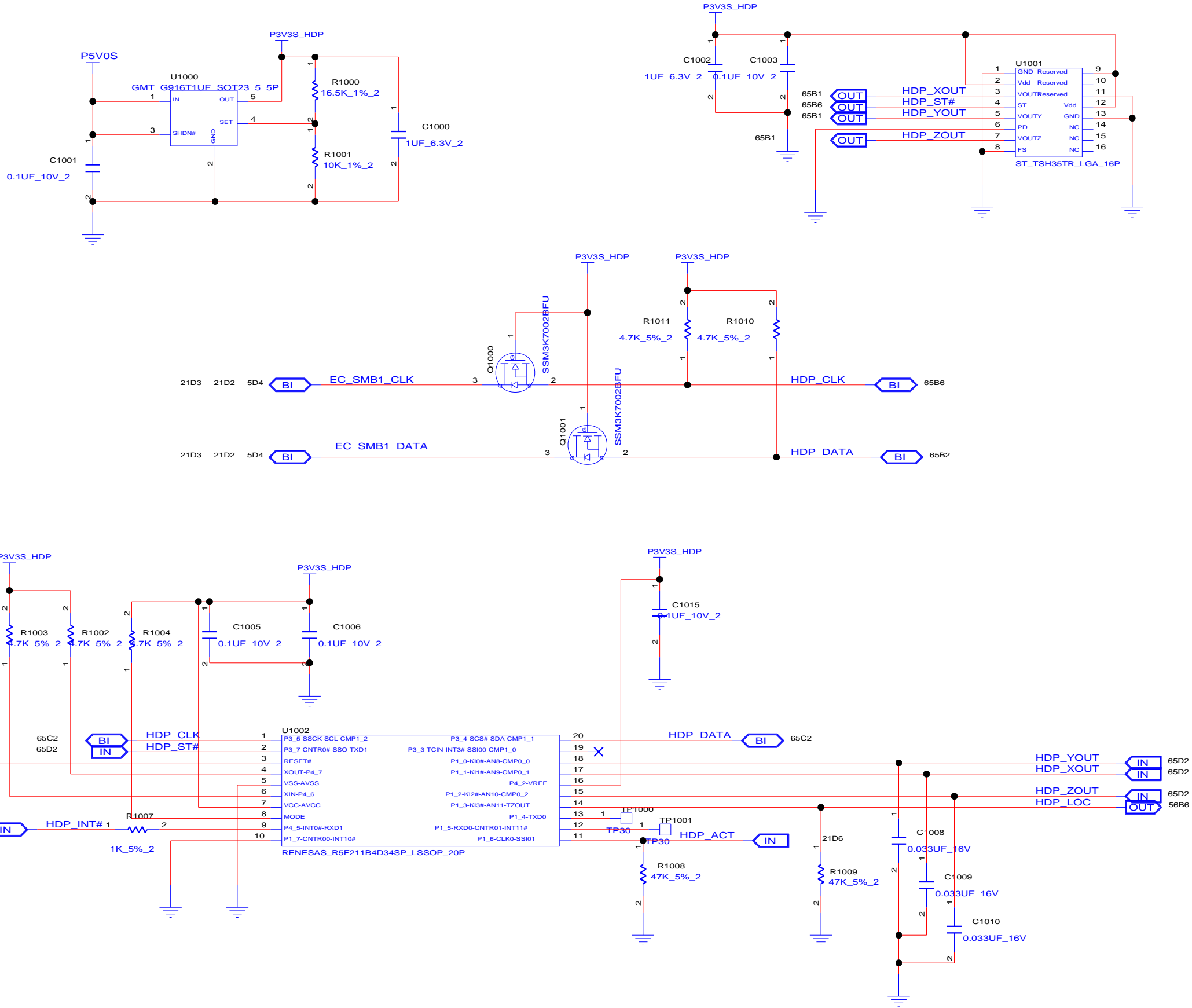
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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CHANGE by XXX DATE 21-OCT-2002

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8		7		6		5		4		3		2		1	

REFERENCE 1000~1099(3D SENSOR)



INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

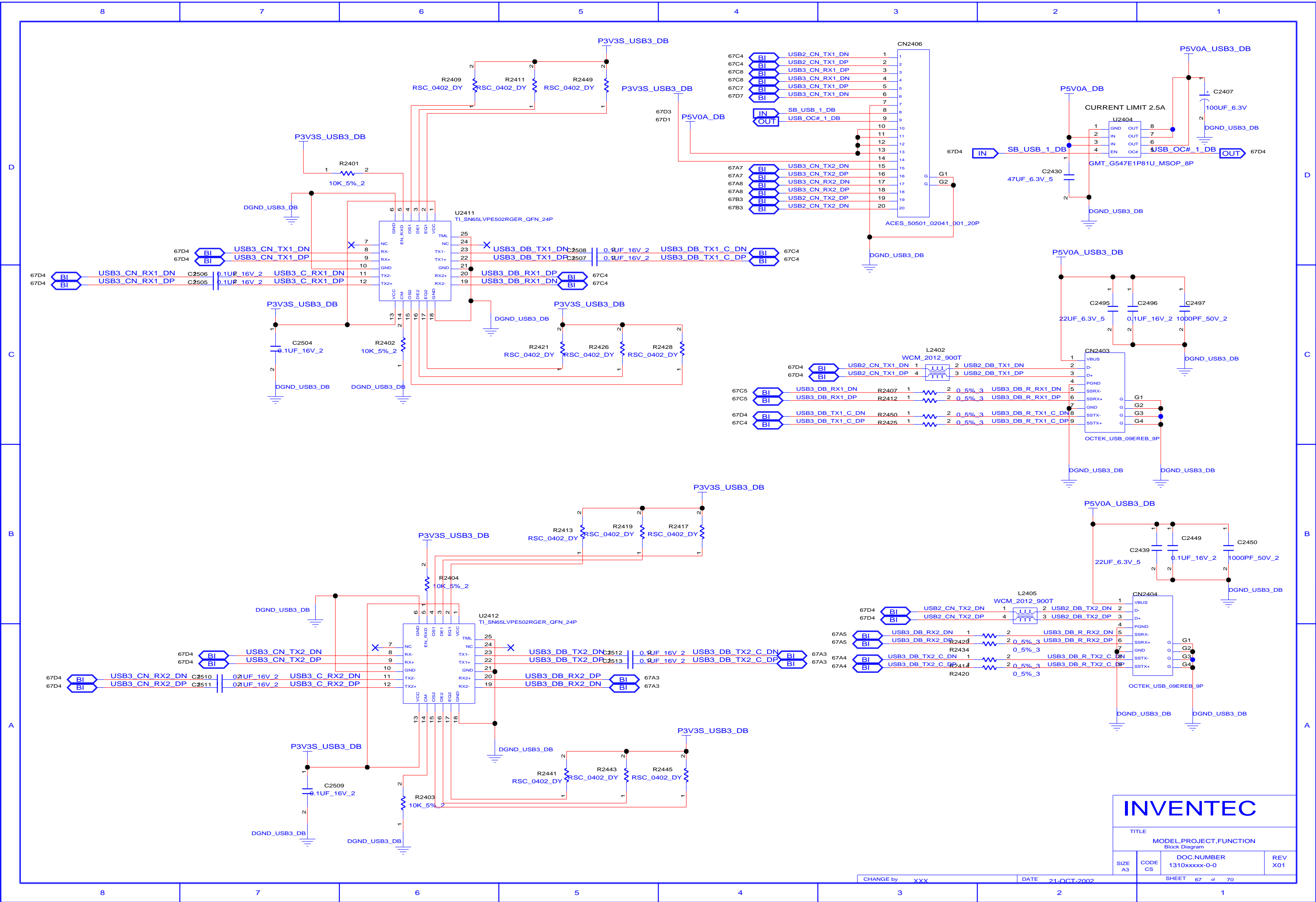
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002

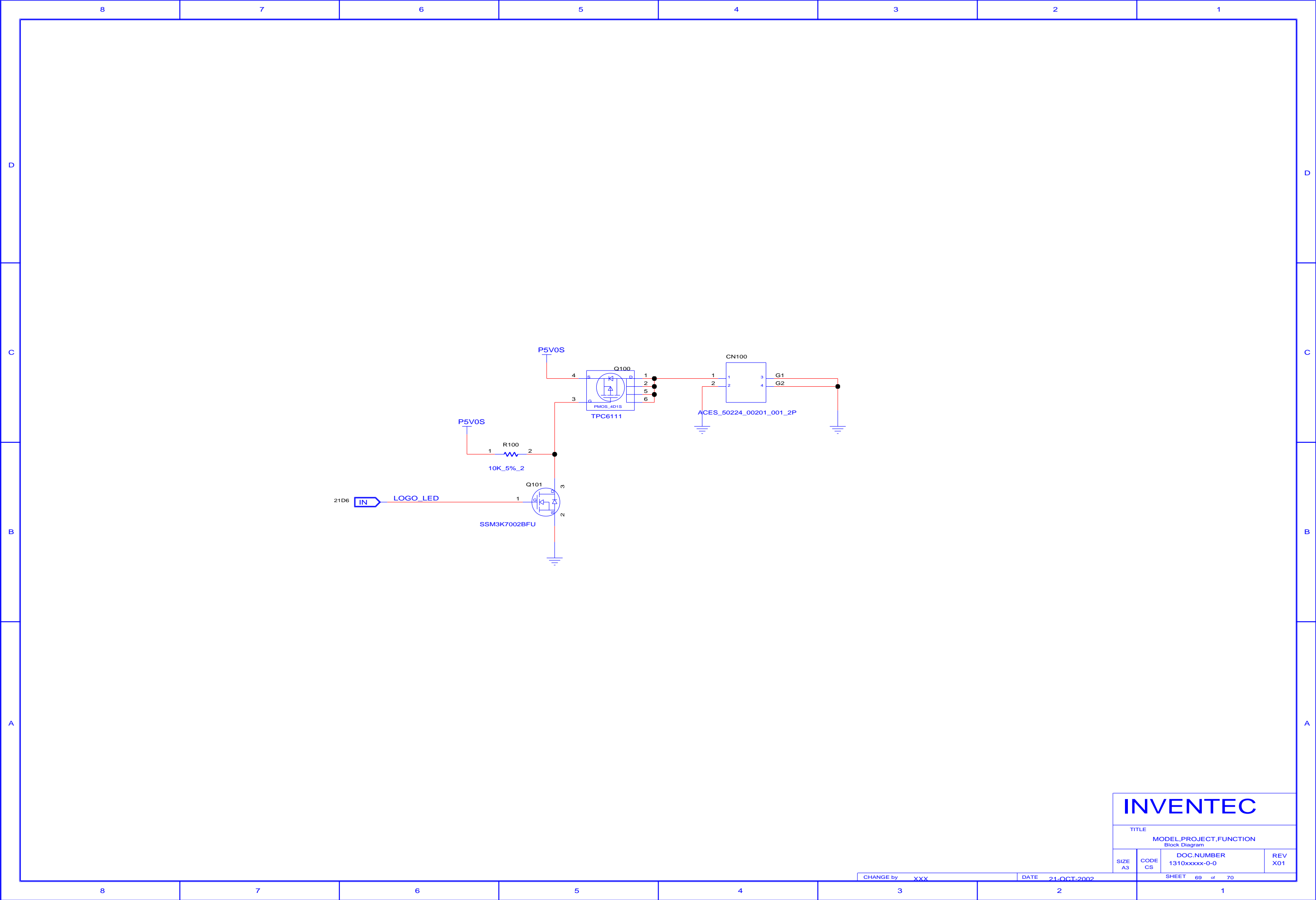
SHEET 65 of 70

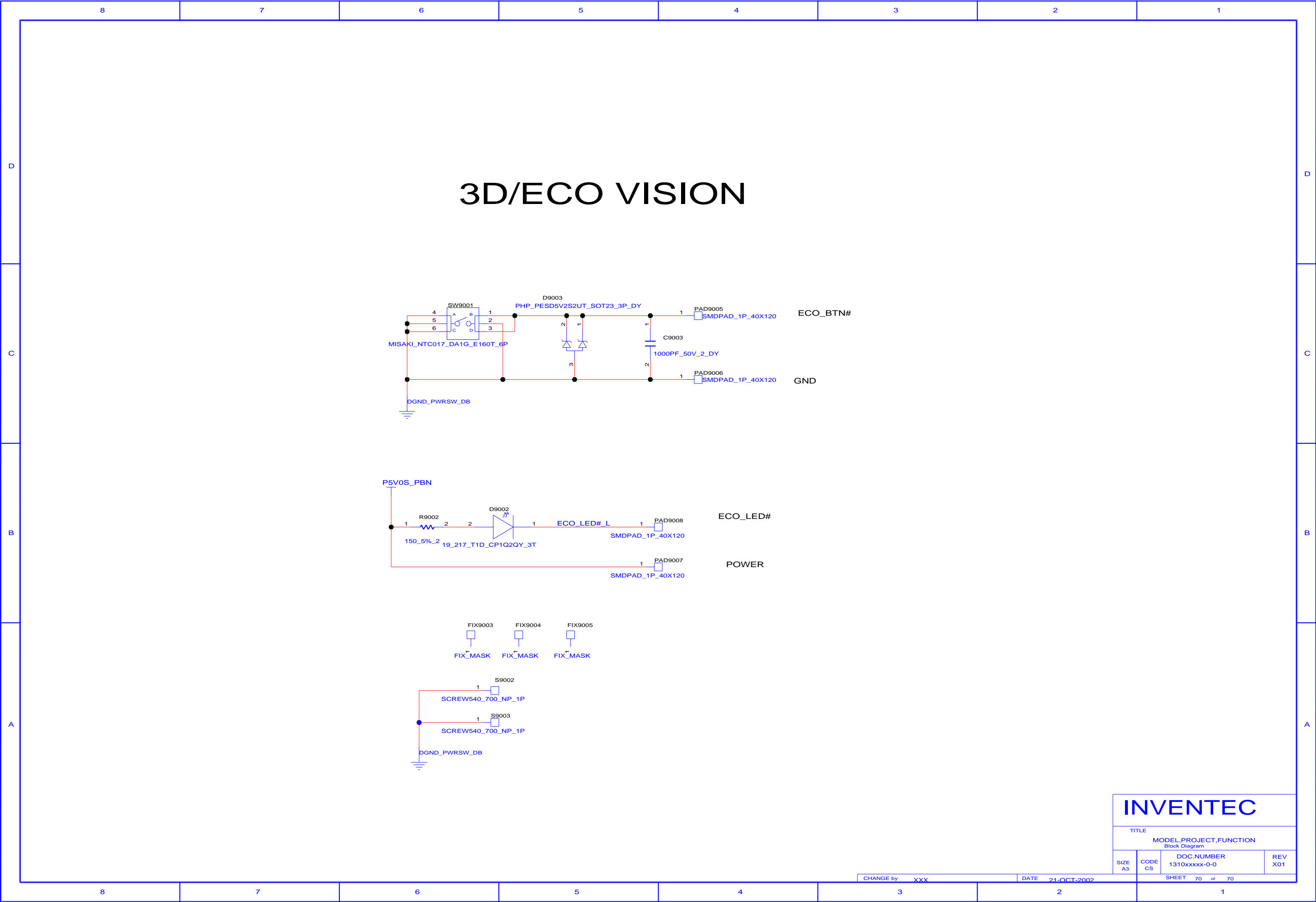
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REFERENCE 390~399							
D							D
C							C
B							B
A							A
8	7	6	5	4	3	2	1

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



8		7		6		5		4		3		2		1	





INVENTEC

TITLE

MODEL,PROJECT,FUNCTION

Block Diagram

SIZE

A3

CODE

CS

DOC.NUMBER

1310xxxxx-0-0

REV

X01

CHANGE by

XXX

DATE

21-OCT-2002

SHEET

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of

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