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

DAKAR10F/FG

2011.09.02

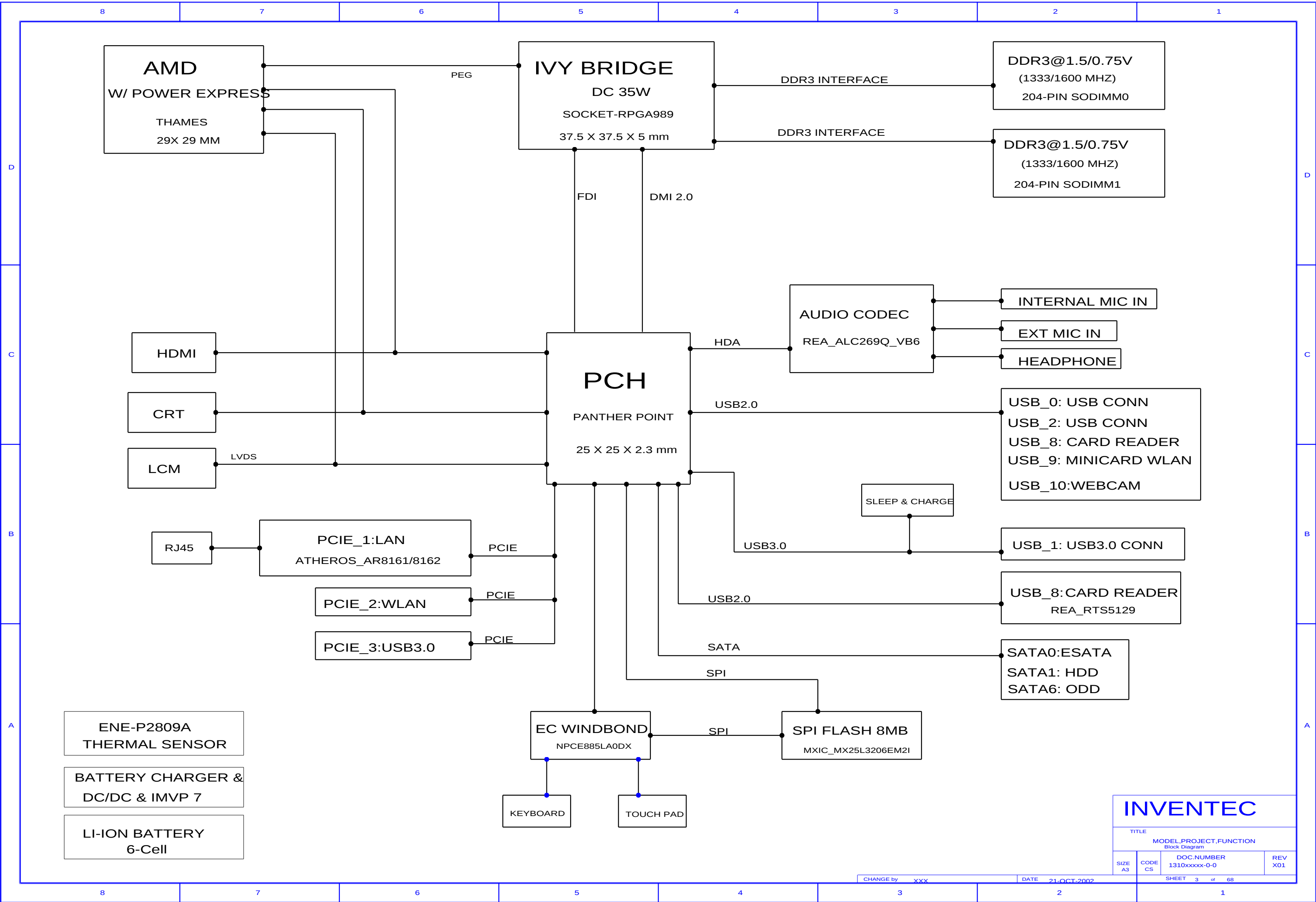
21-OCT-2002		
DATE	CHANGE NO.	REV

		EE	DATE	POWER	DATE	INVENTEC			
DRAWER									
DESIGN									
CHECK									
RESPONSIBLE									
SIZE#					VER:	TITLE MODEL,PROJECT,FUNCTION Everest Main Board			
FILE NAME:									
P/N	xxx	1310xxxxx-0-0							
						SIZE C	CODE CS	DOC NUMBER	REV X01
						SHEET 1 of 68			

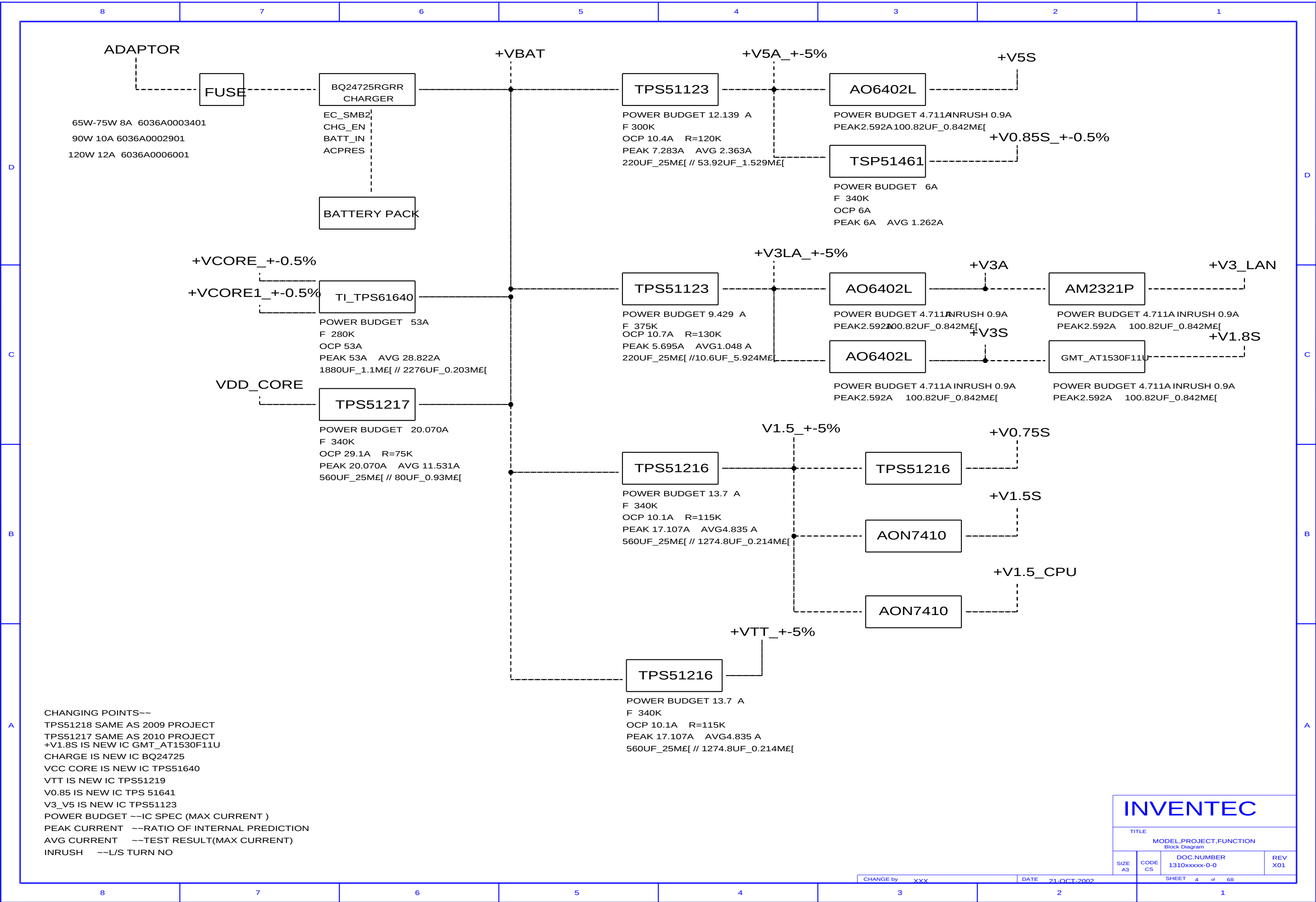
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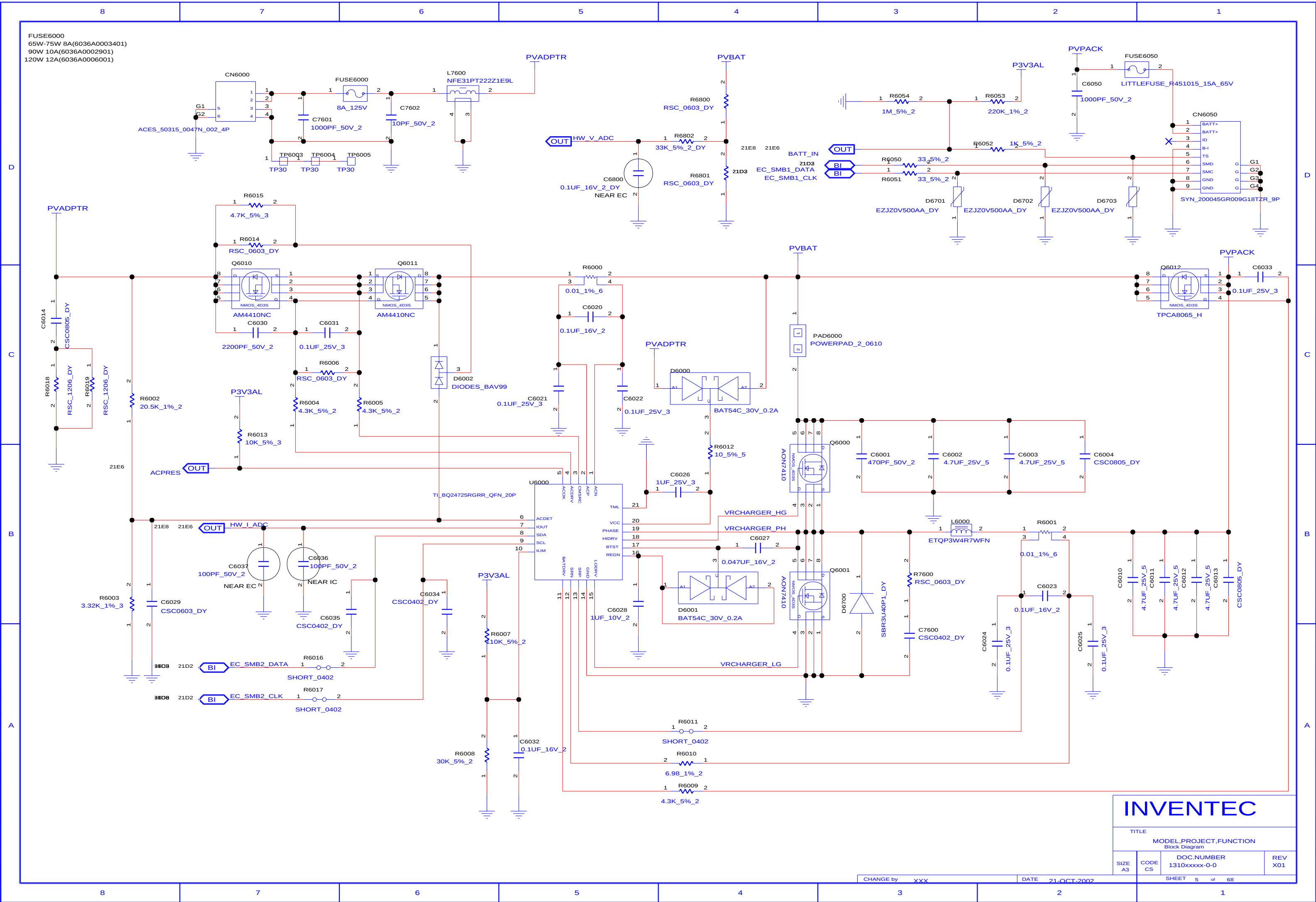
8	7	6	5	4	3	2	1				
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SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01								
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MODEL,PROJECT,FUNCTION			
Block Diagram			
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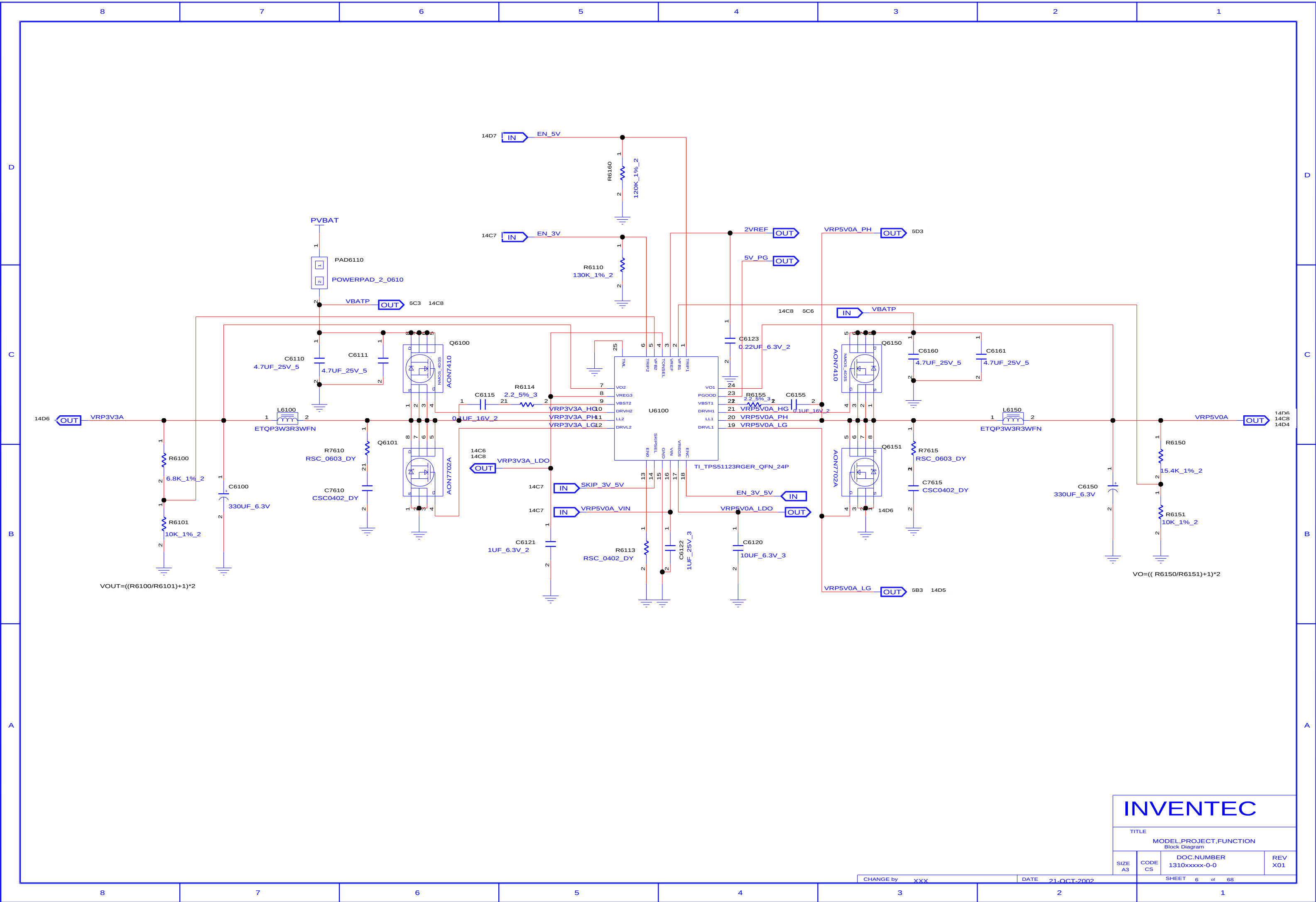
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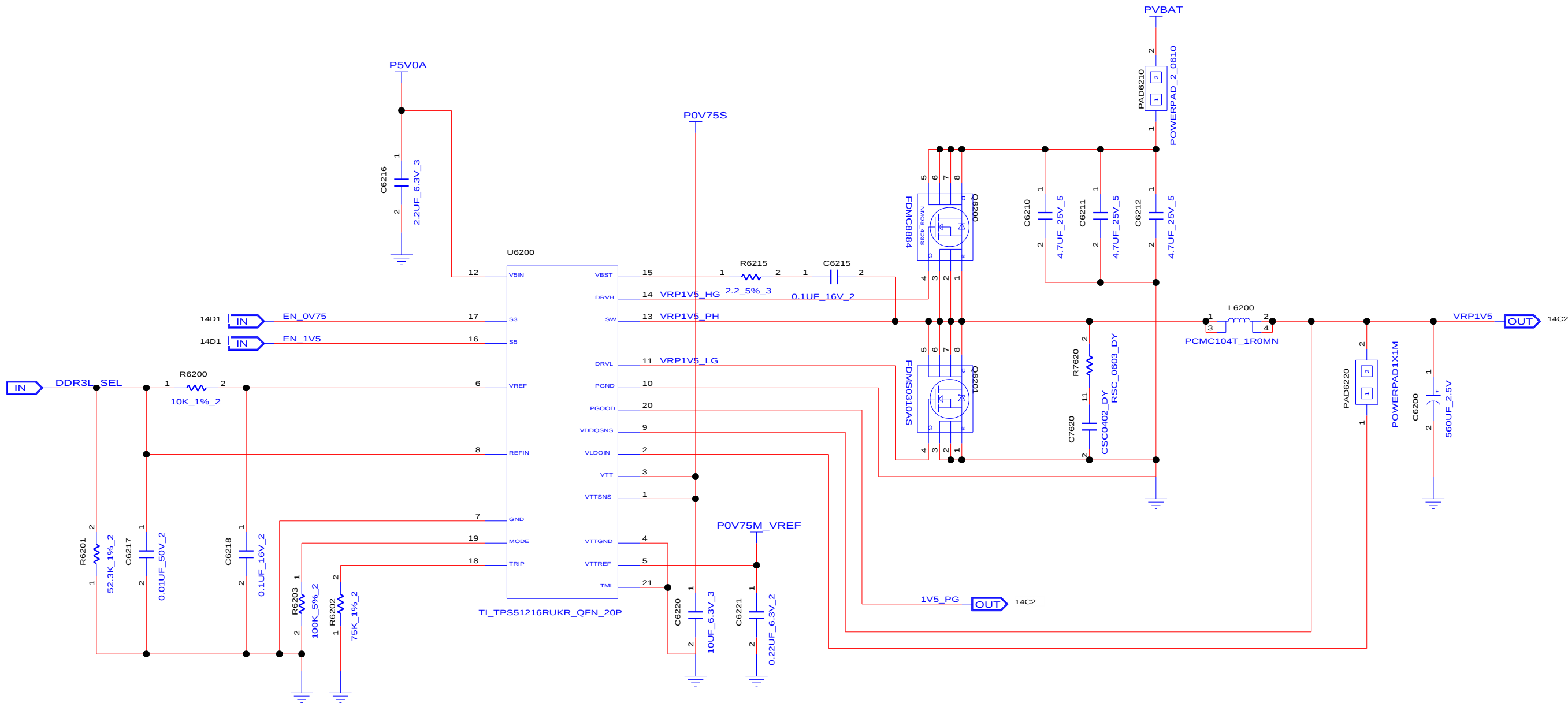
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$V_{OUT}=V_{REFIN}=1.8 \times (R_{6201} / (R_{6200} + R_{6201}))$

MODE=100KOHM:TRACKING DISCHARGE

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
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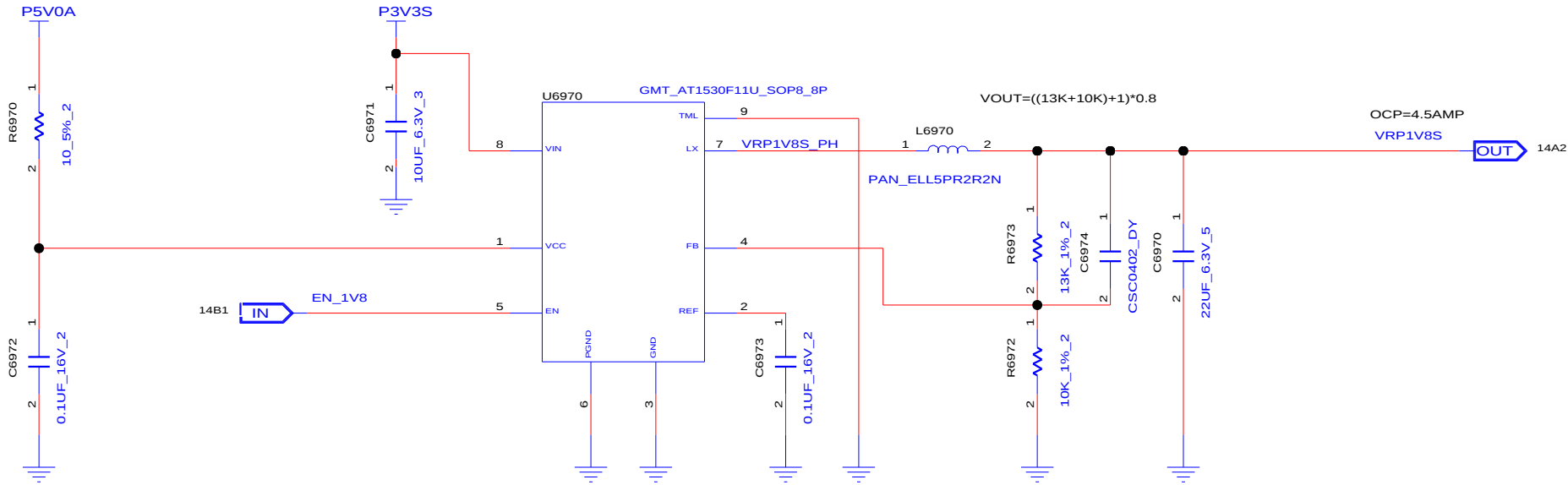
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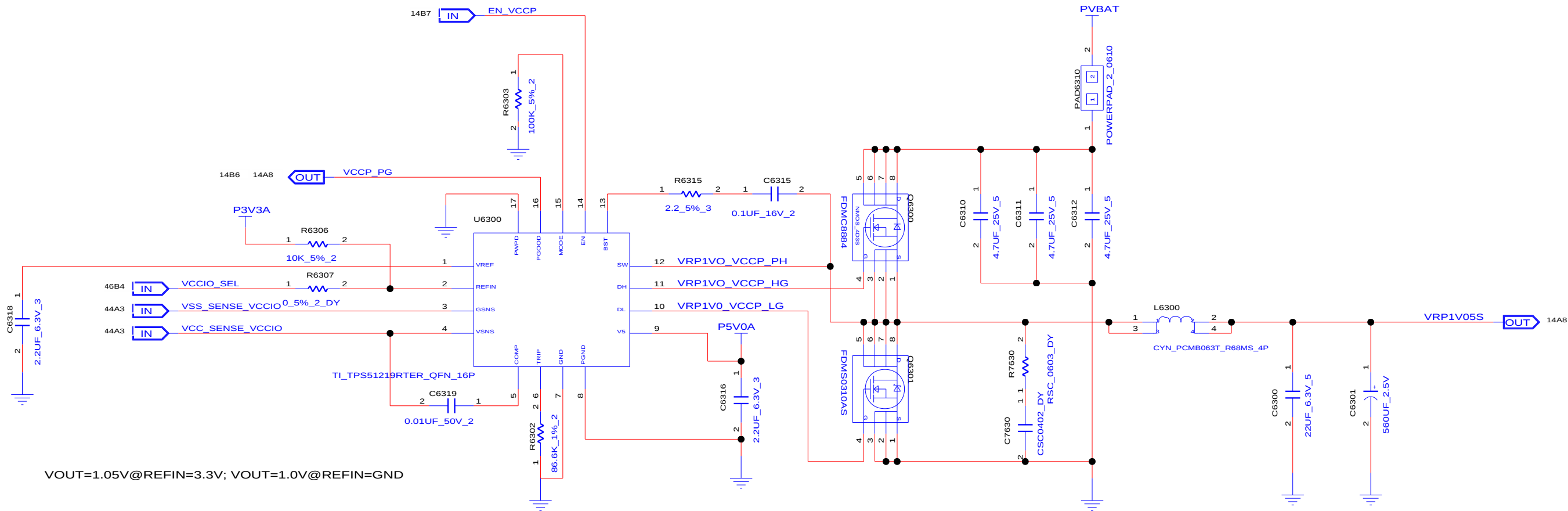
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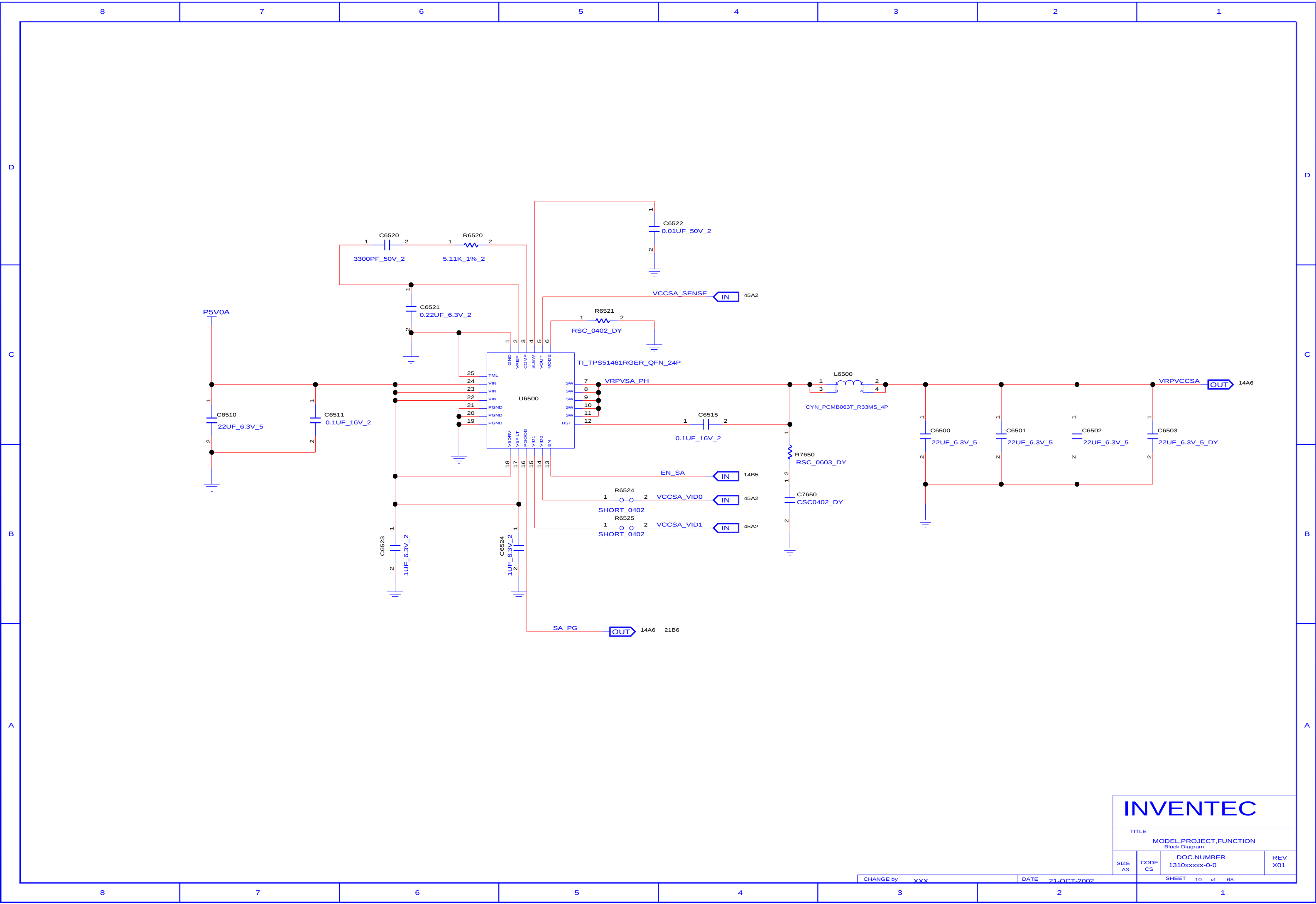
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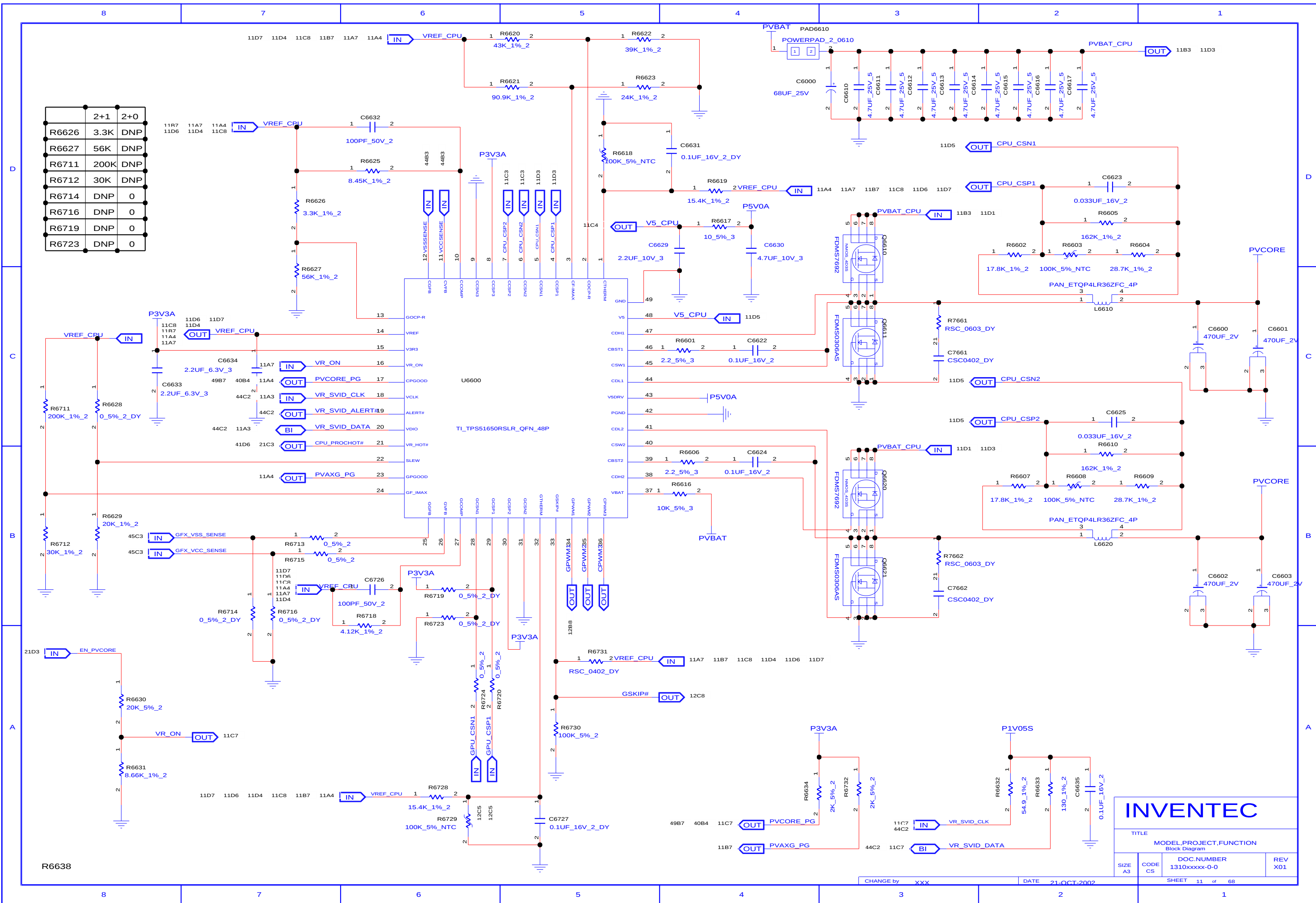
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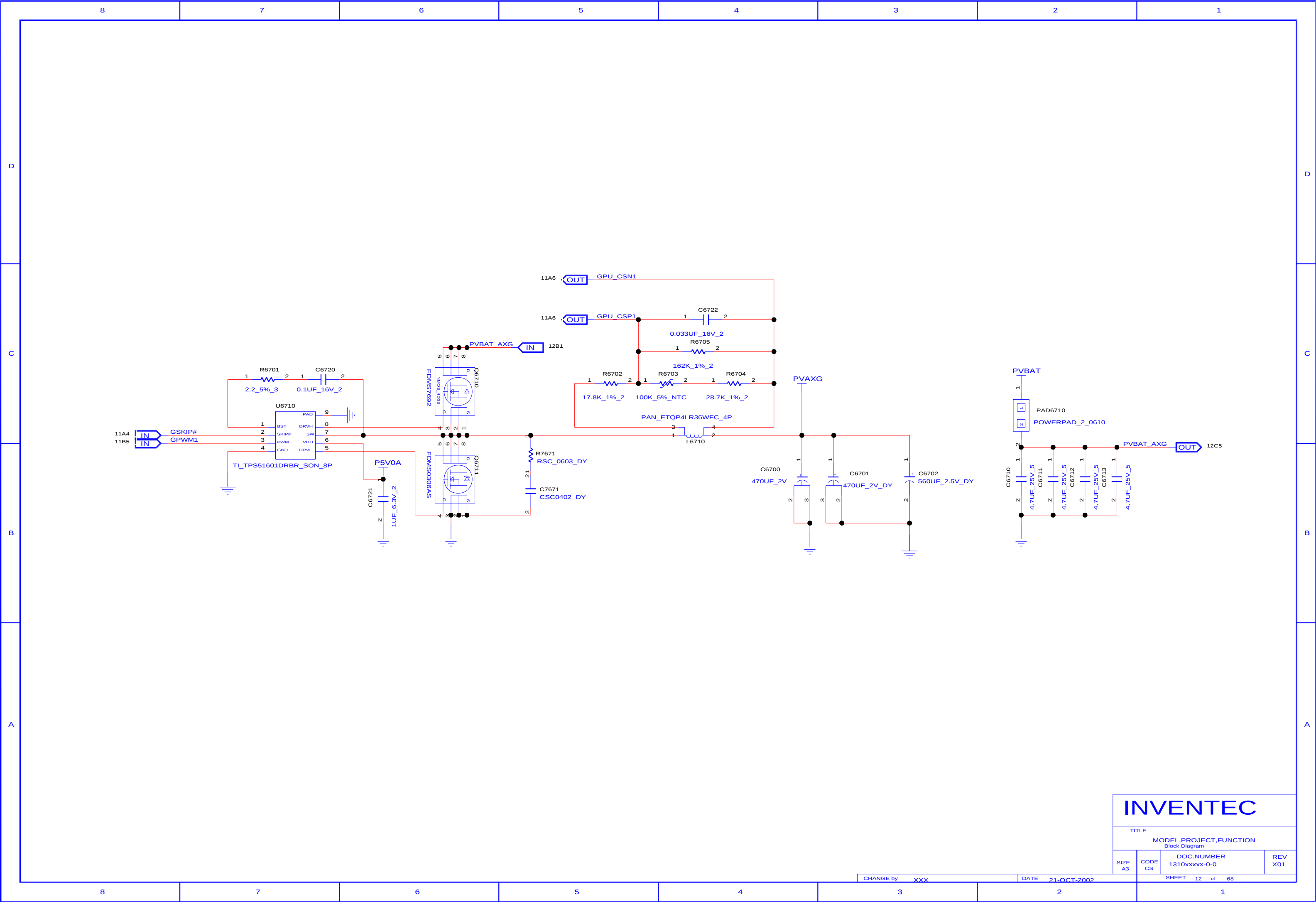
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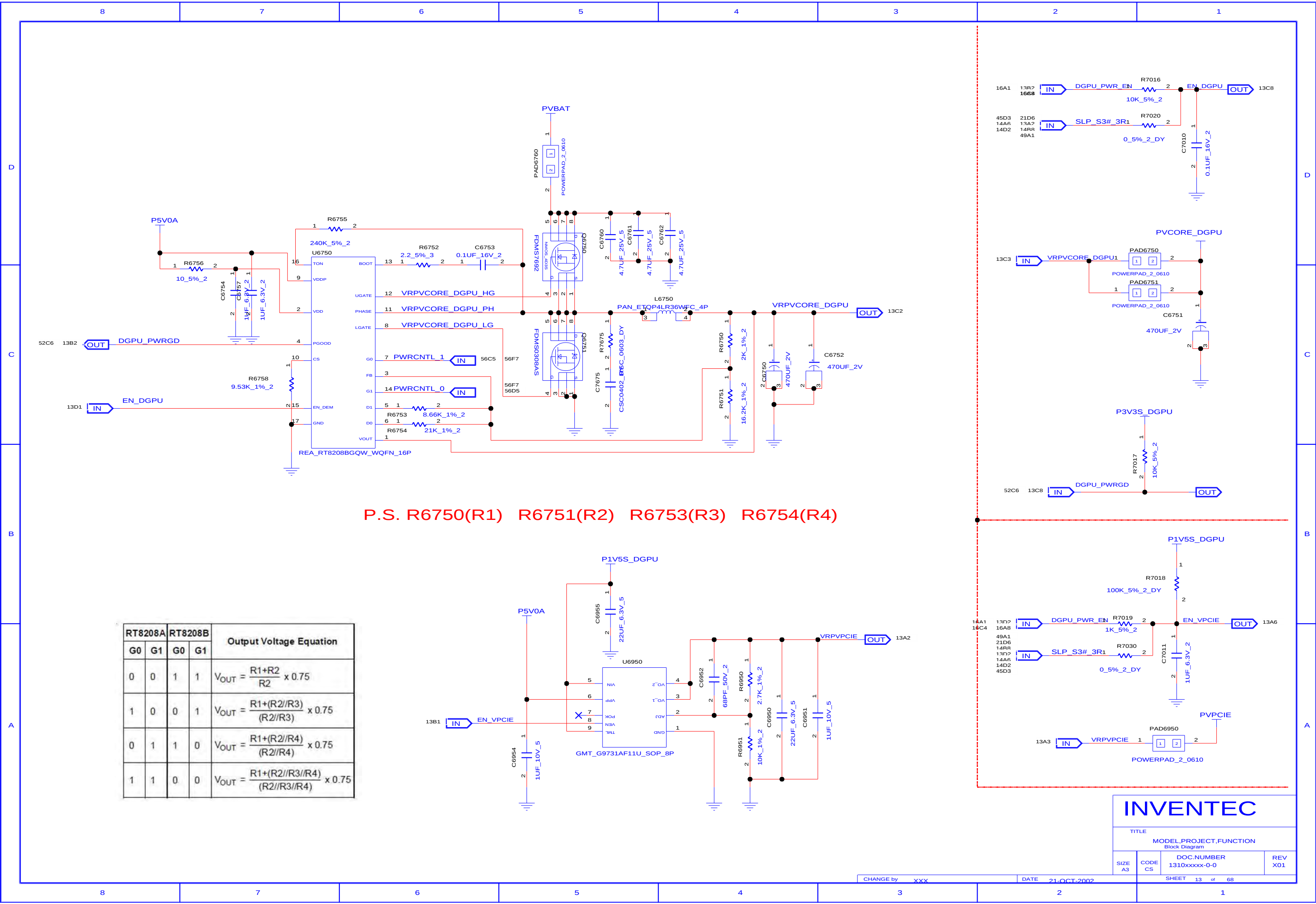




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MODEL,PROJECT,FUNCTION			
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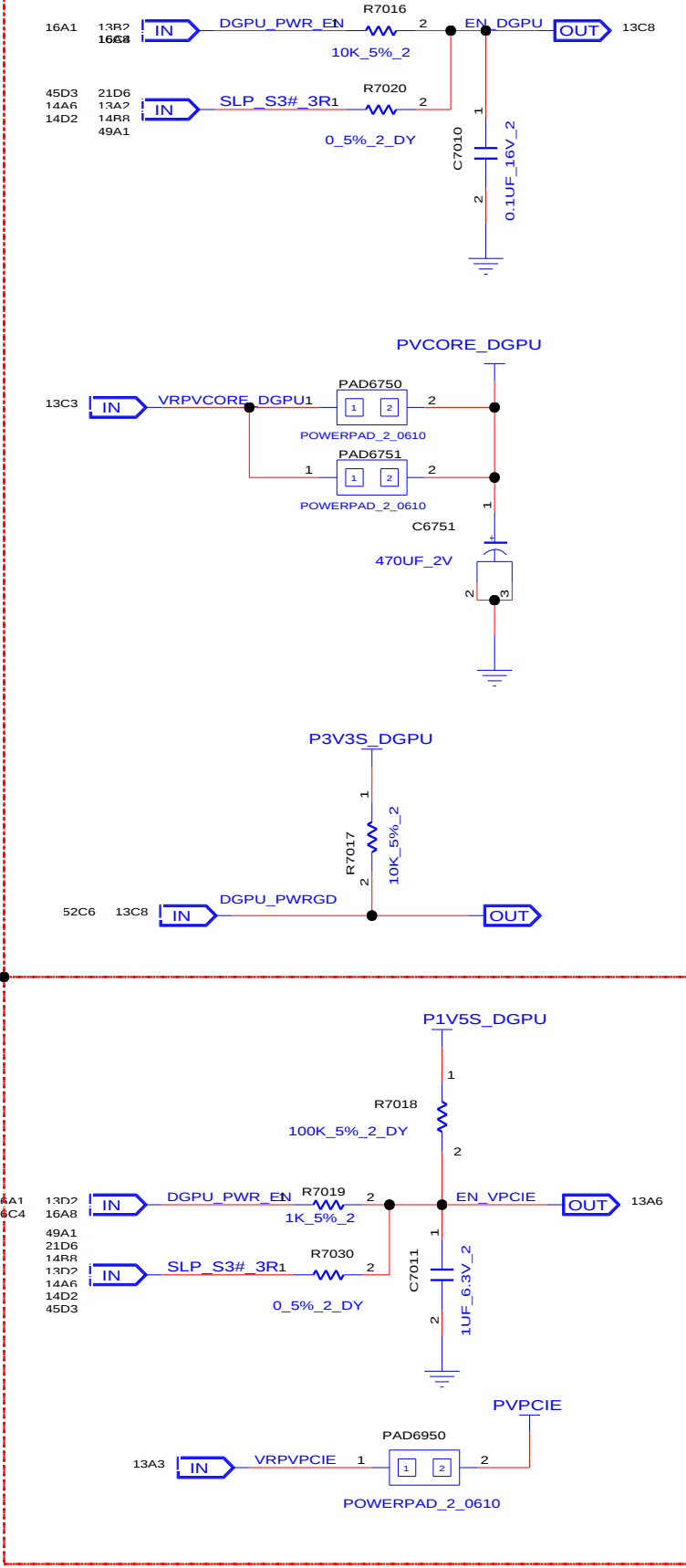
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P.S. R6750(R1) R6751(R2) R6753(R3) R6754(R4)

RT8208A		RT8208B		Output Voltage Equation
G0	G1	G0	G1	
0	0	1	1	$V_{OUT} = \frac{R1+R2}{R2} \times 0.75$
1	0	0	1	$V_{OUT} = \frac{R1+(R2//R3)}{(R2//R3)} \times 0.75$
0	1	1	0	$V_{OUT} = \frac{R1+(R2//R4)}{(R2//R4)} \times 0.75$
1	1	0	0	$V_{OUT} = \frac{R1+(R2//R3//R4)}{(R2//R3//R4)} \times 0.75$



INVENTEC

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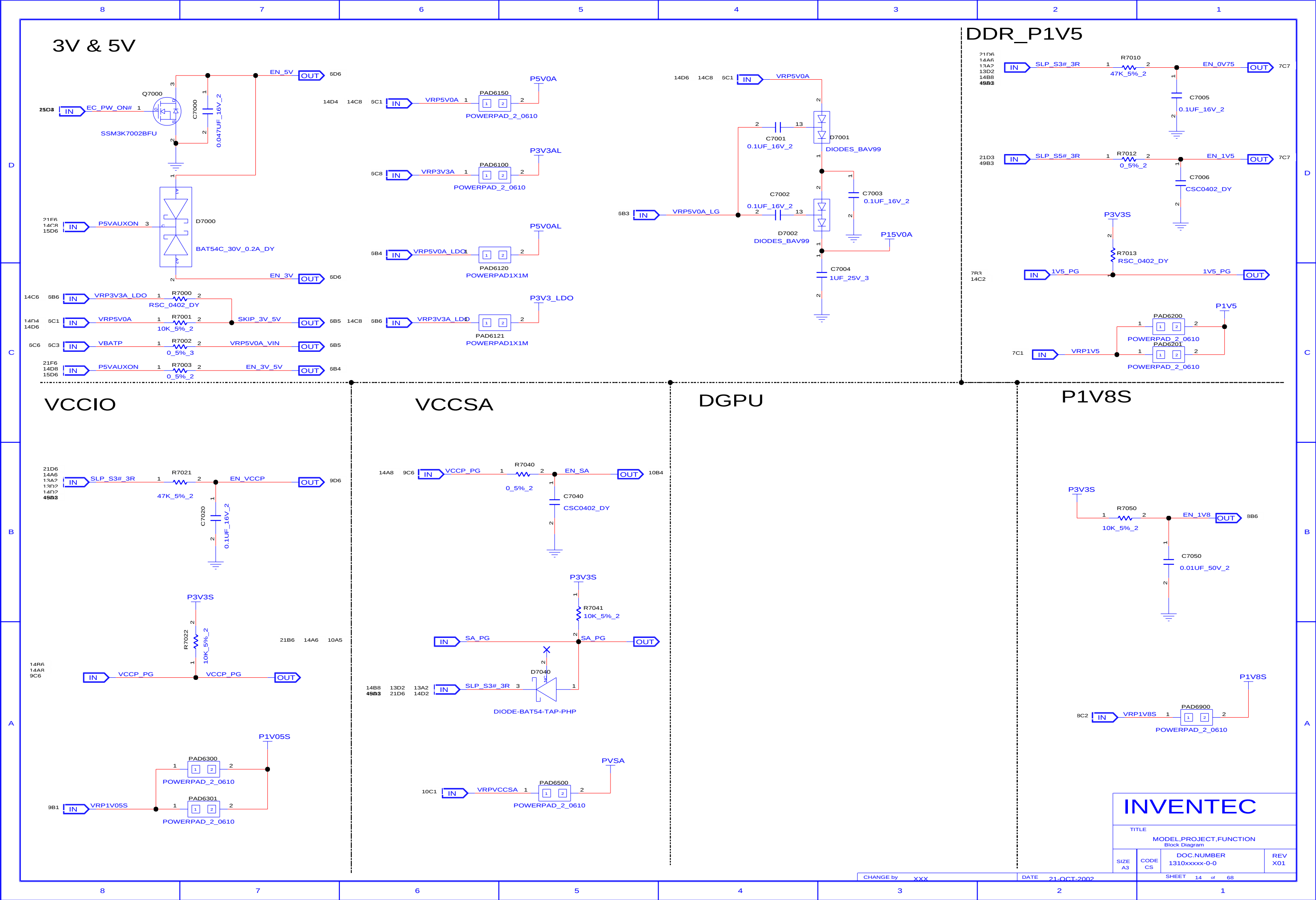
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3V & 5V

DDR_P1V5

VCCIO

VCCSA

DGPU

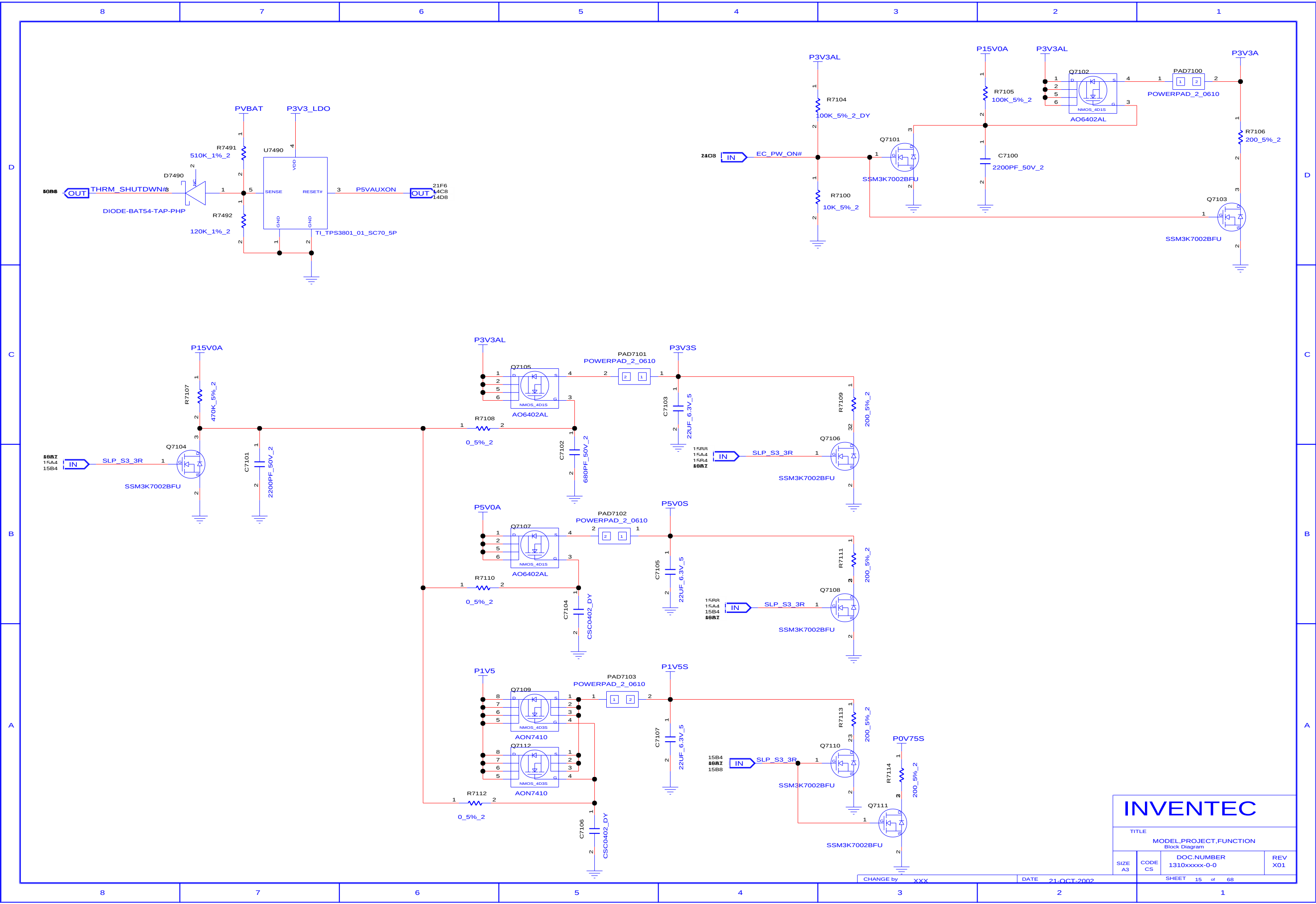
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INVENTEC

TITLE
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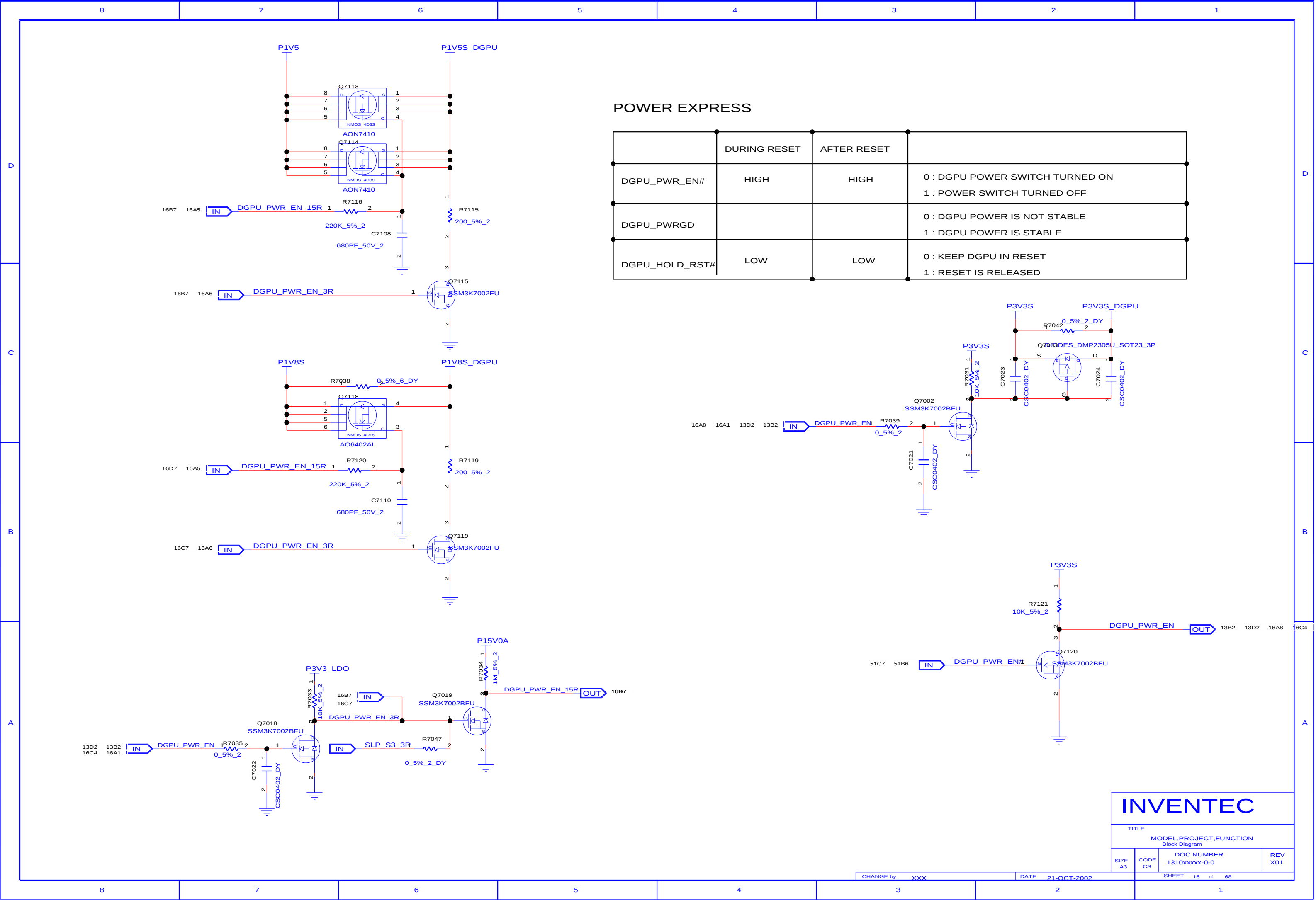
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POWER EXPRESS

	DURING RESET	AFTER RESET	
DGPU_PWR_EN#	HIGH	HIGH	0 : DGPU POWER SWITCH TURNED ON 1 : POWER SWITCH TURNED OFF
DGPU_PWRGD			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

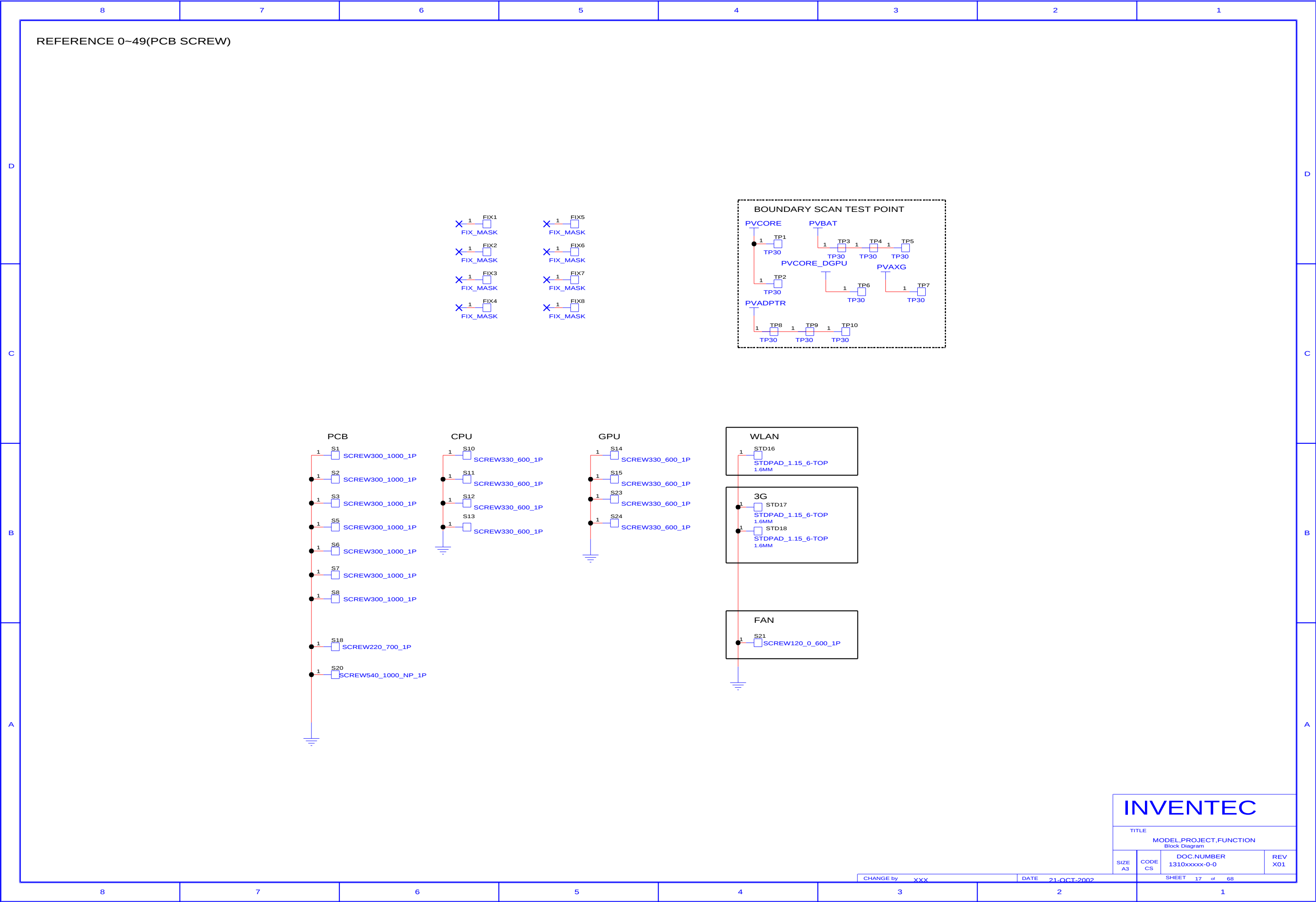
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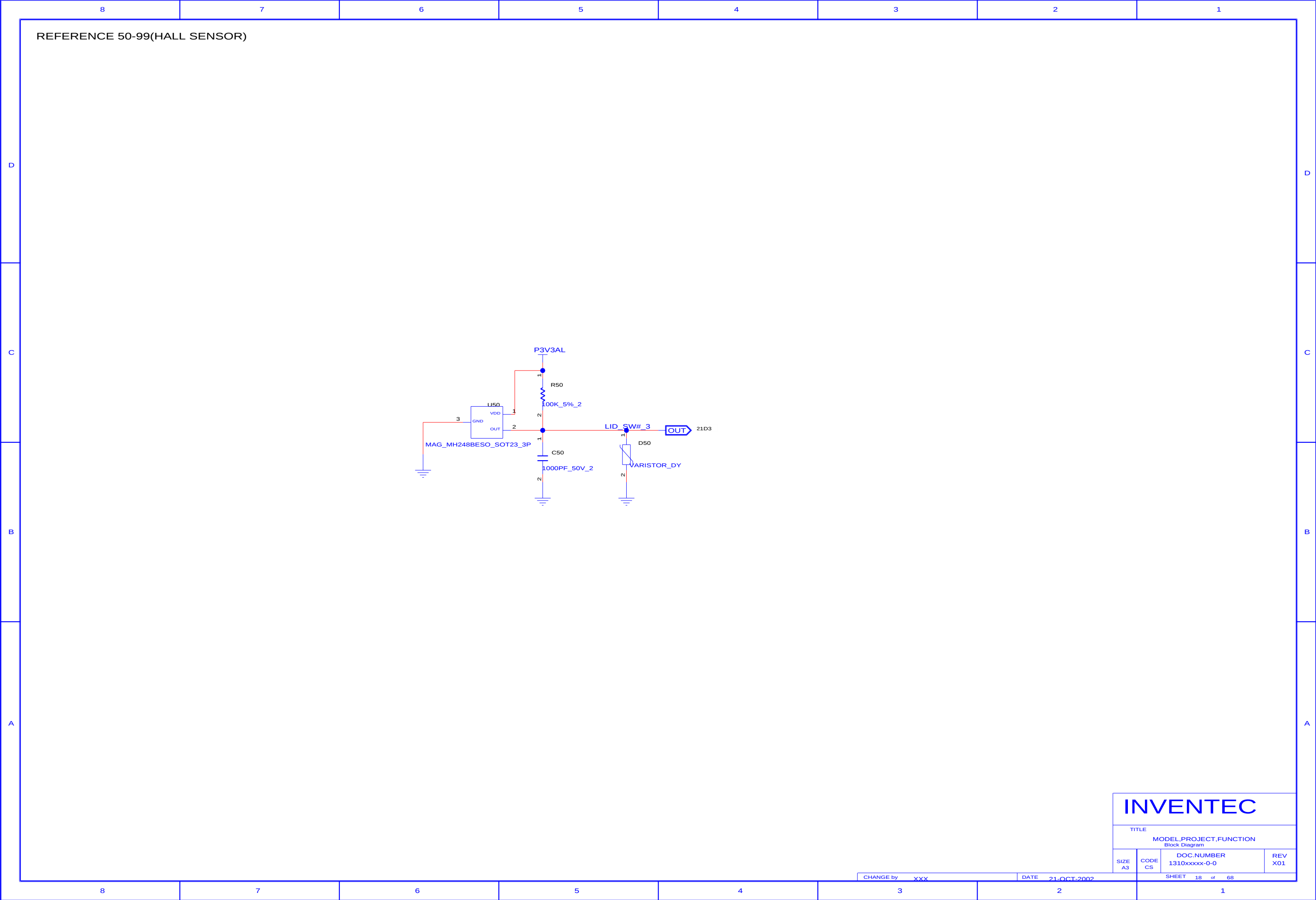
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Block Diagram

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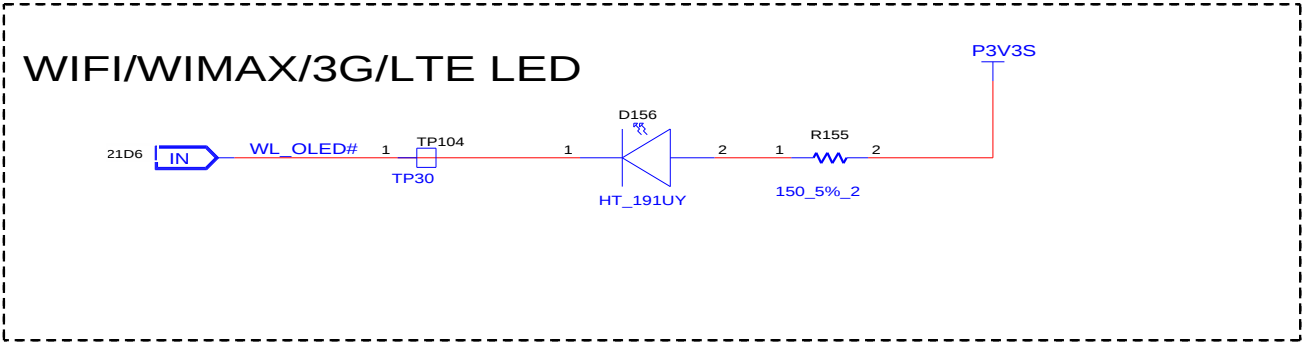
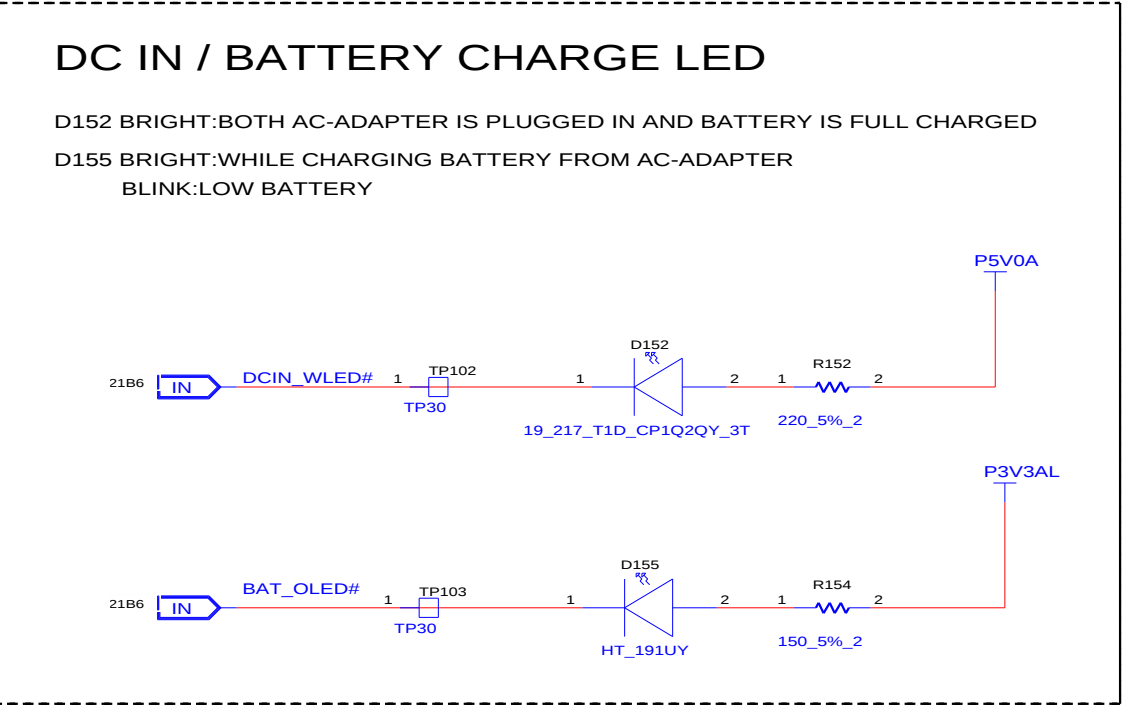
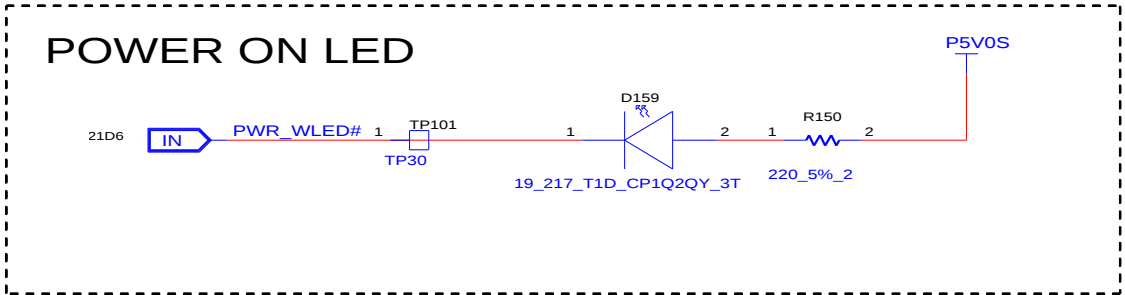
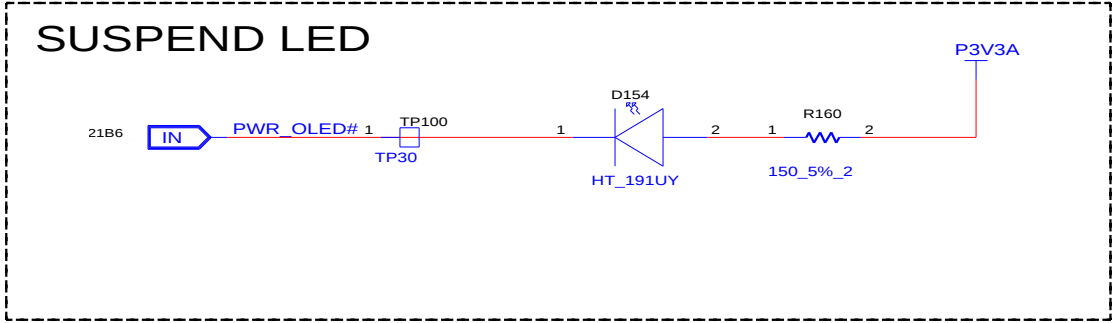
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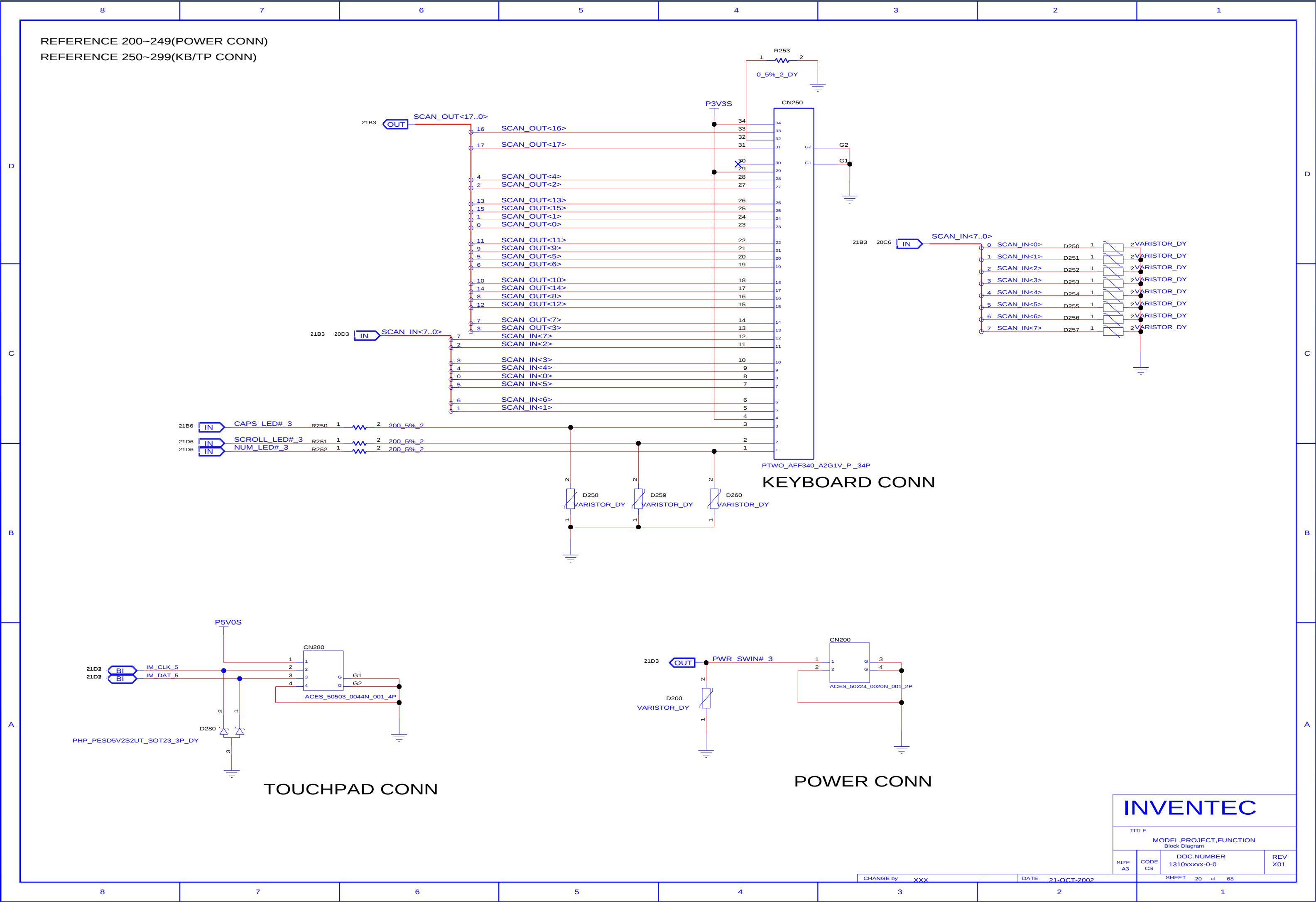
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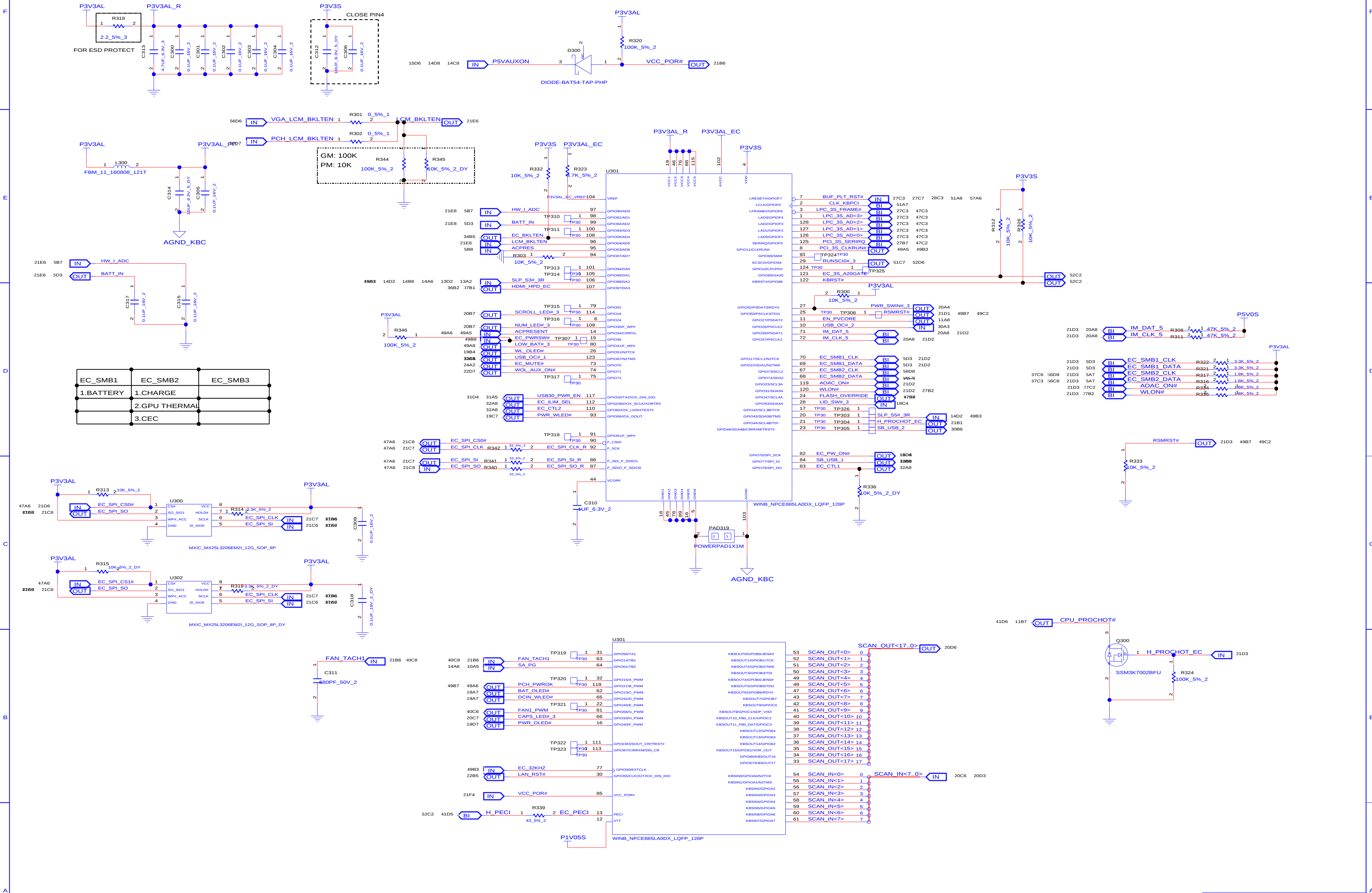
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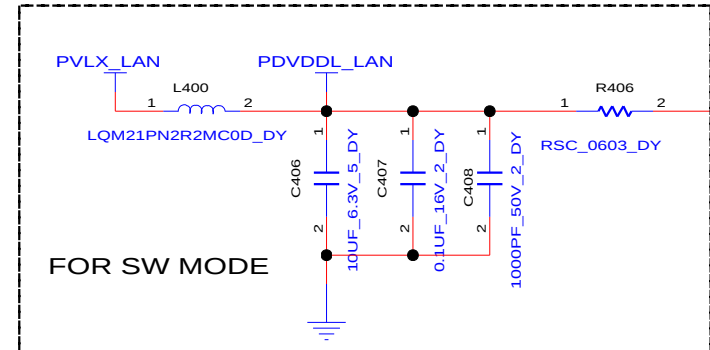
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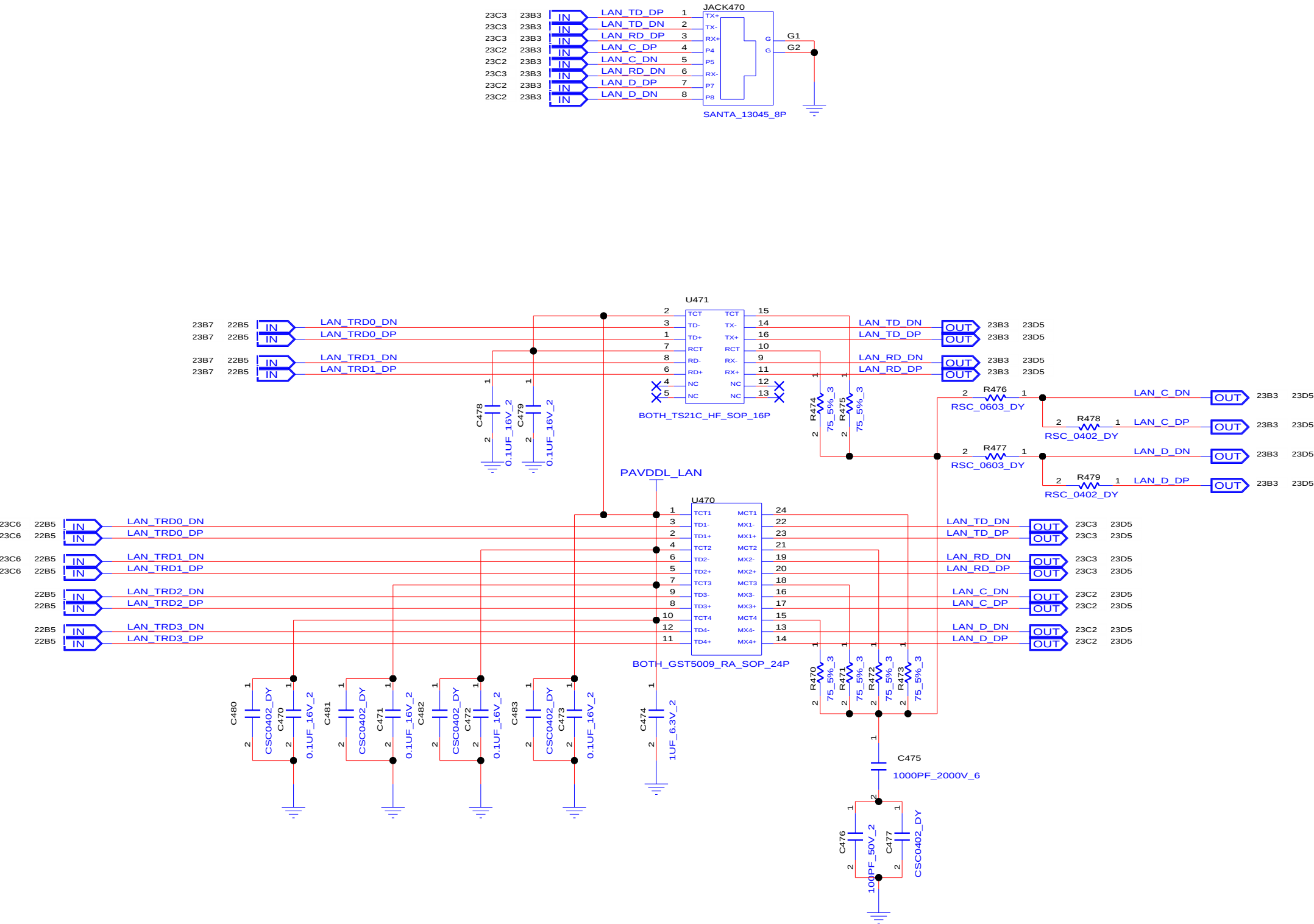
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C417:8161 STUFF 8162 OPEN

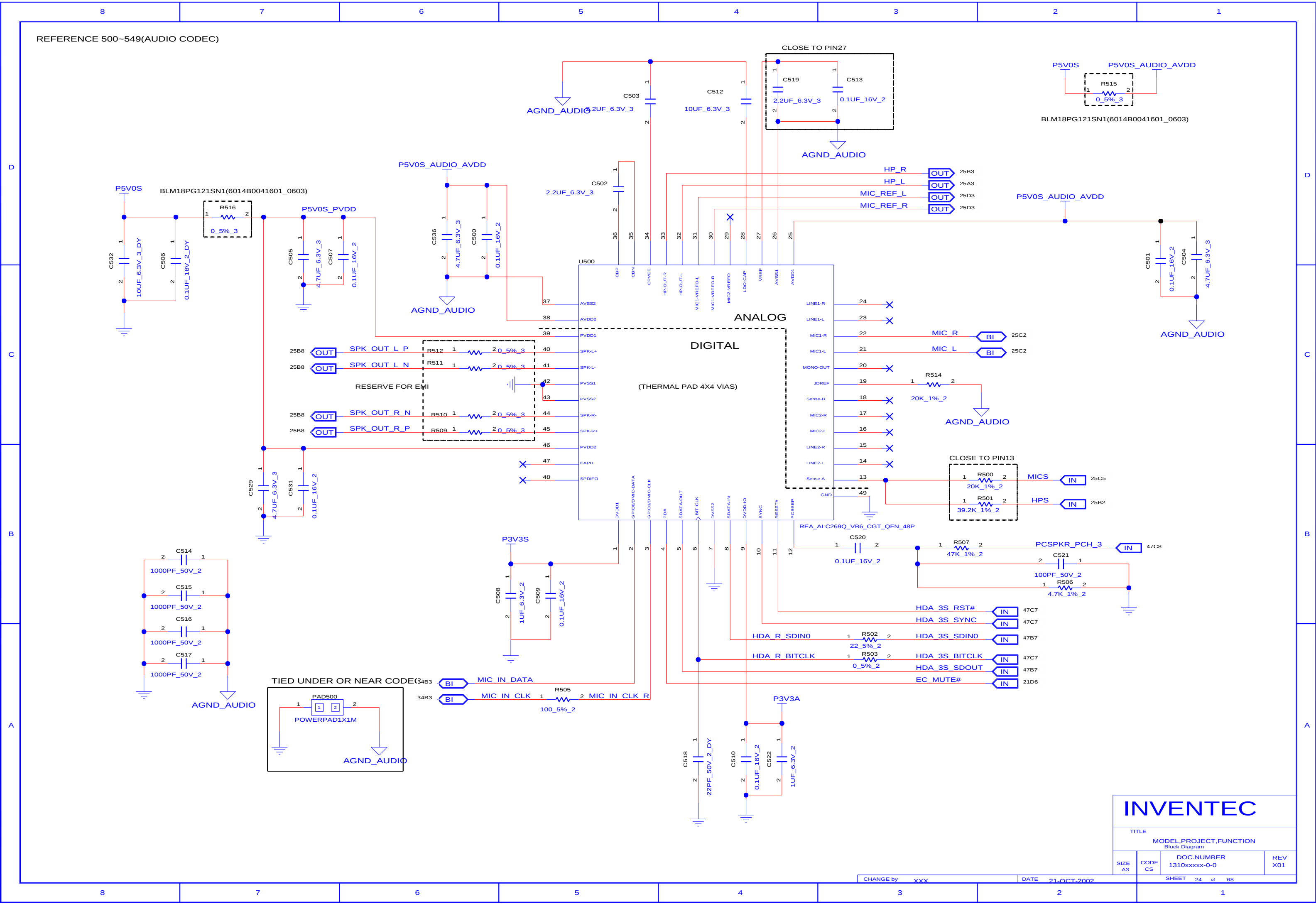
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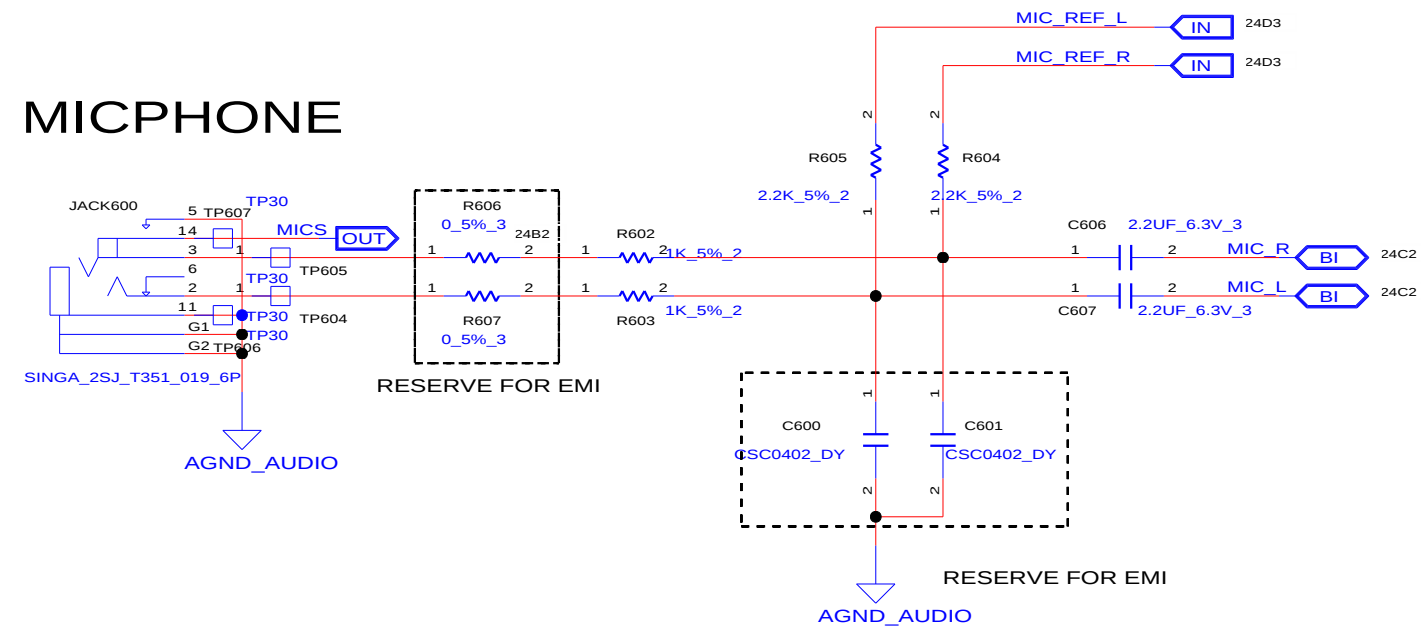
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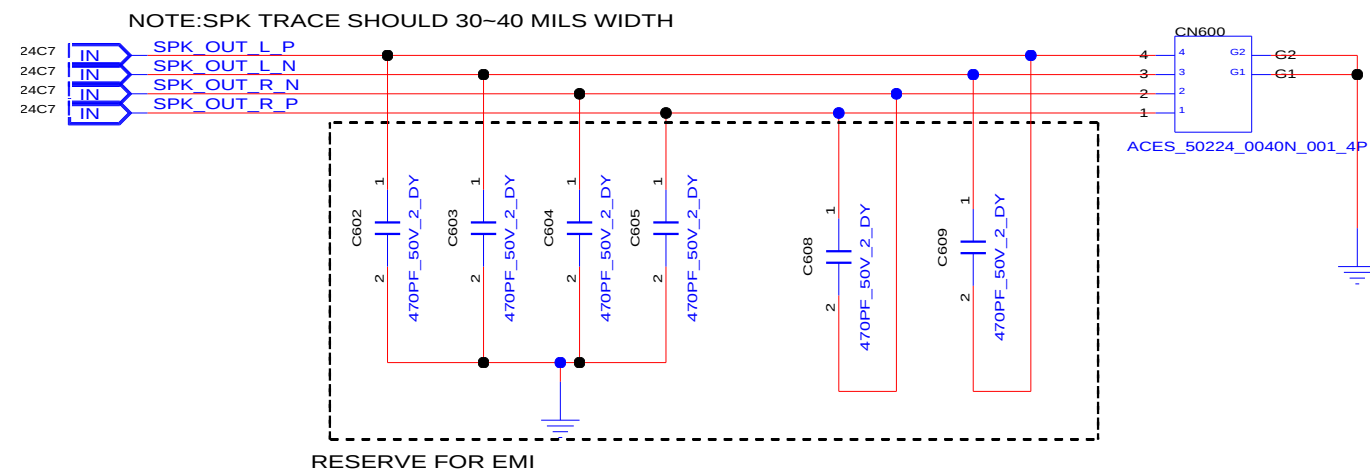
REFERCE 600-649(JACK/MIC/SPEAKER)

AUDIO JACKS

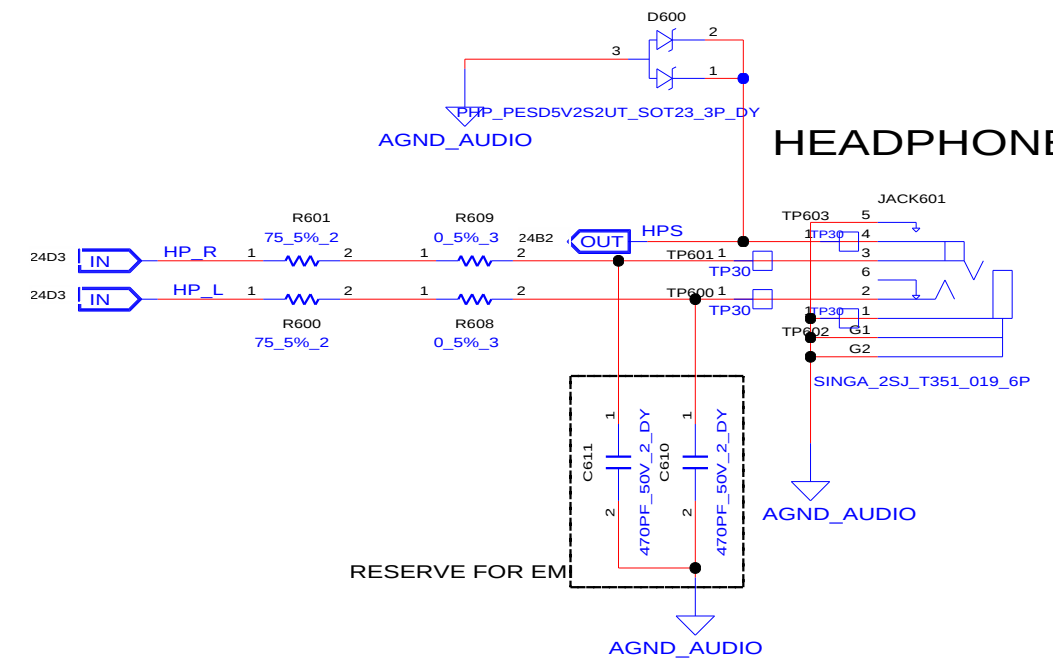
MICPHONE



INTERNAL SPEAKERS



HEADPHONE



INVENTEC

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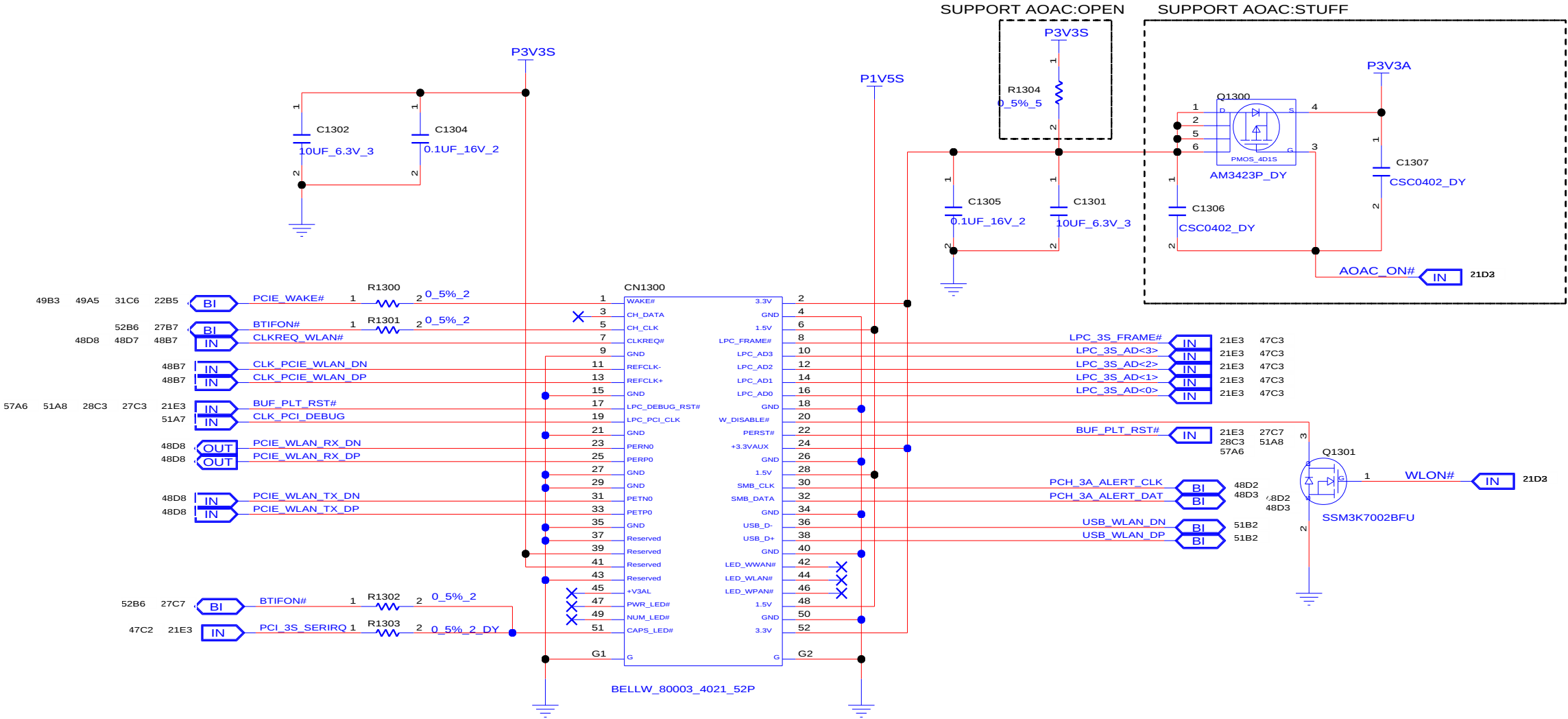


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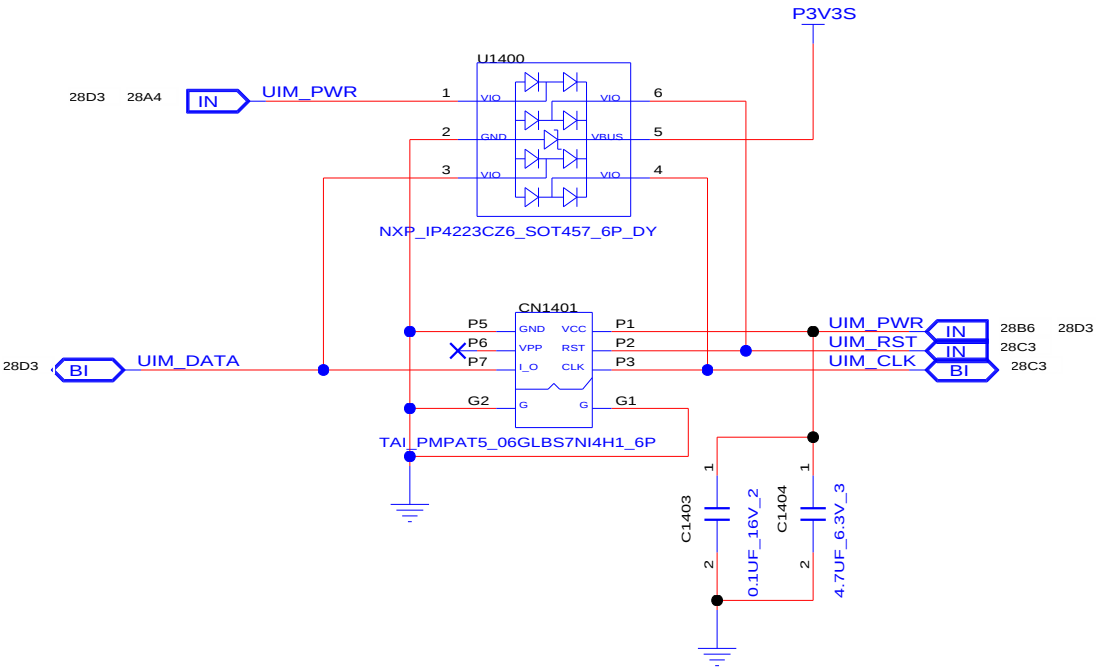
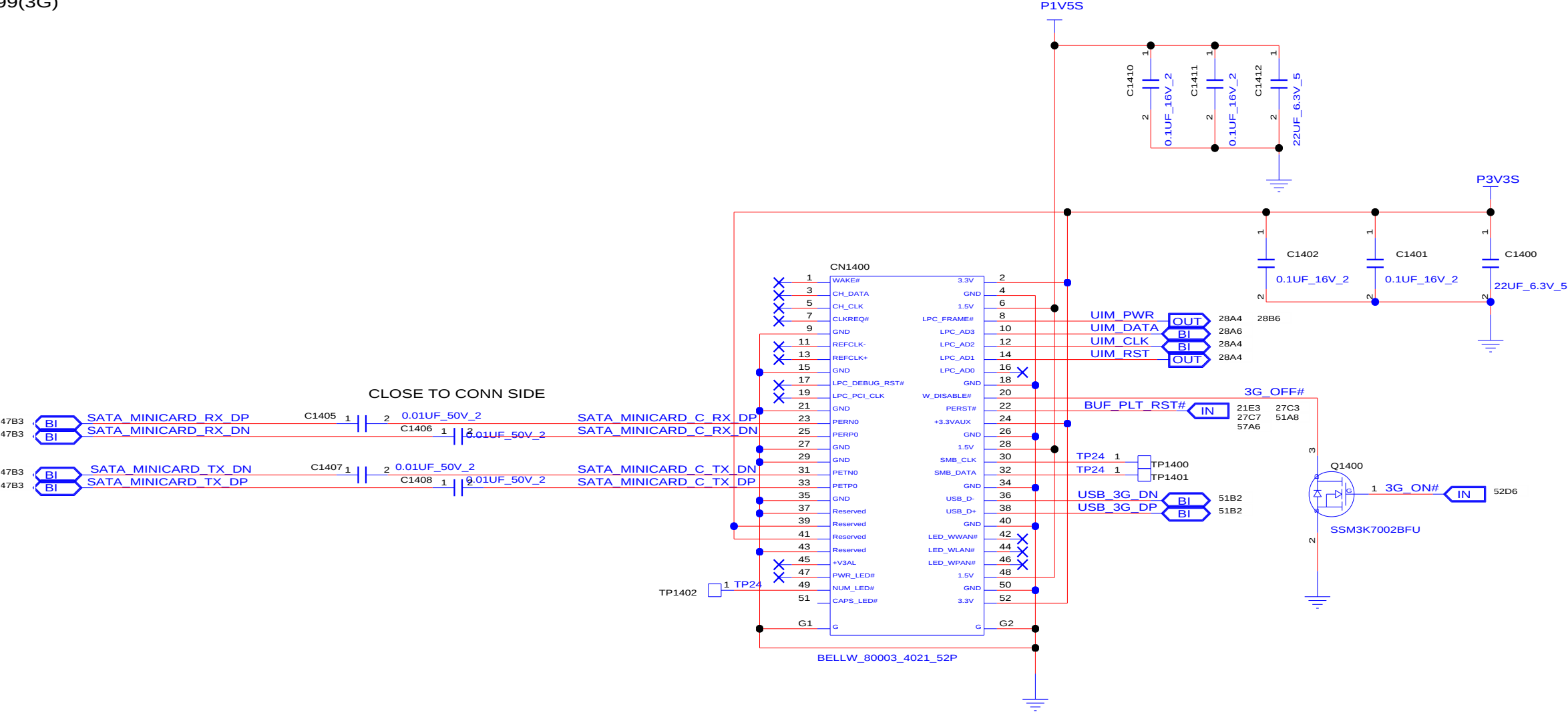
REFERENCE 1300~1349(WLAN)



MINI CARD 1(WLAN)

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REFERENCE 1400~1499(3G)



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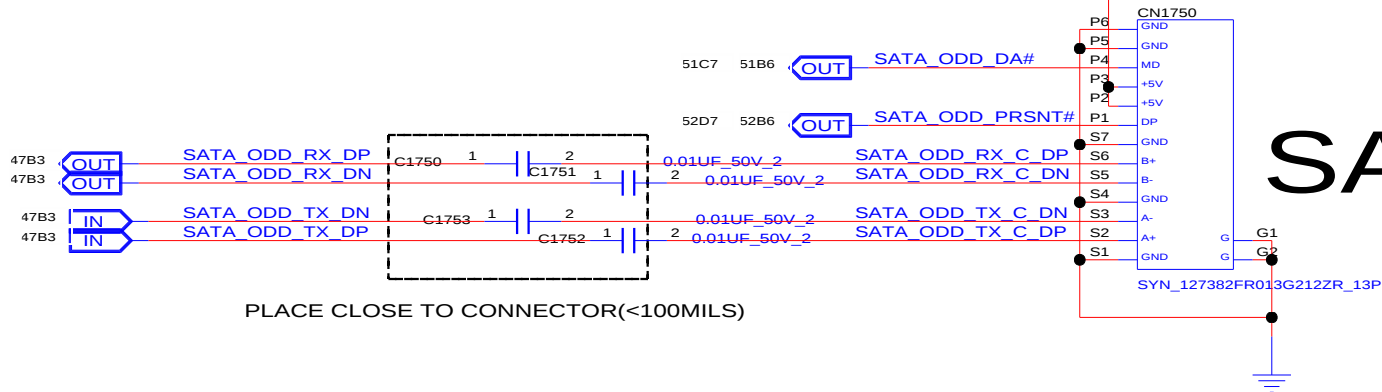
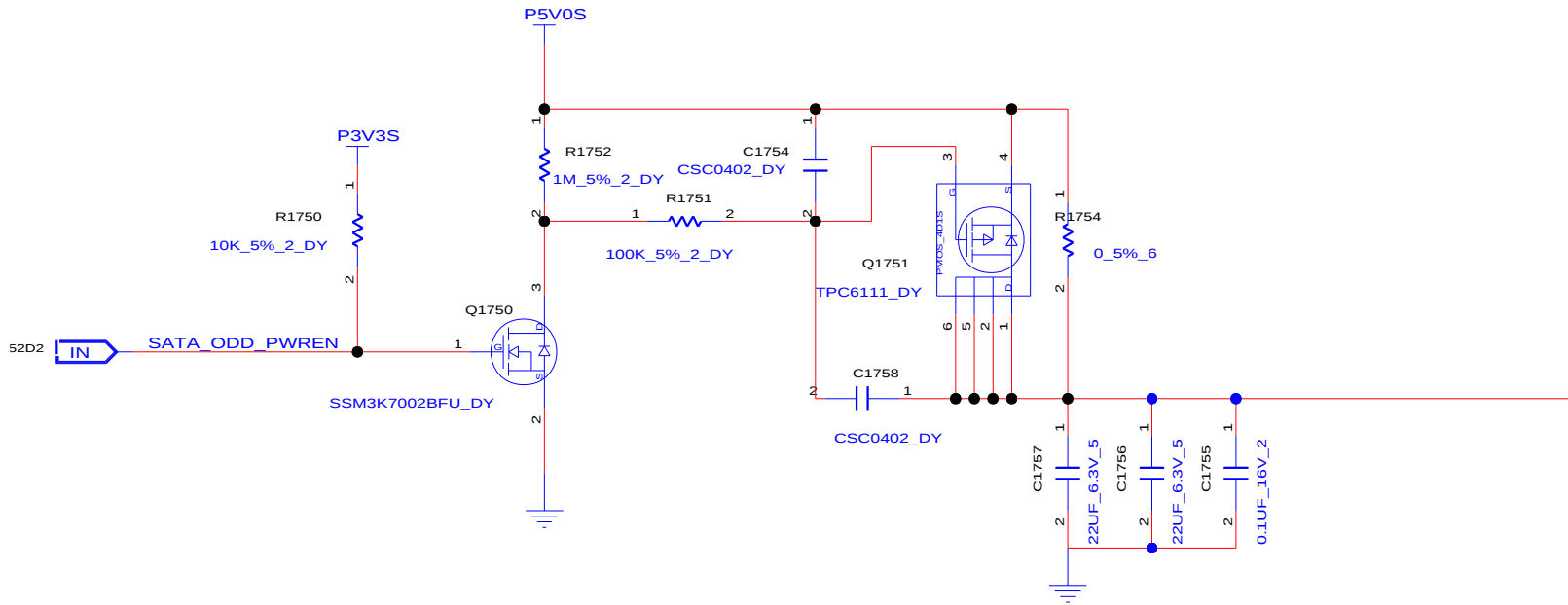
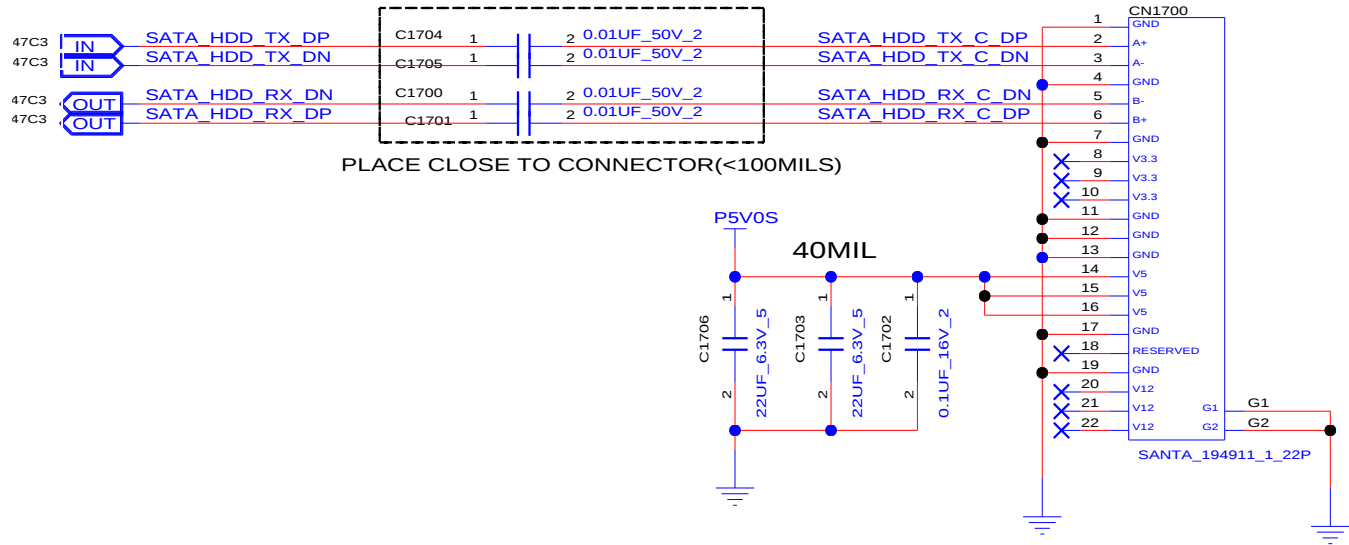
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REFERENCE 1700~1749(HDD)
REFERENCE 1750~1799(ODD)

SATA HDD



SATA ODD

INVENTEC

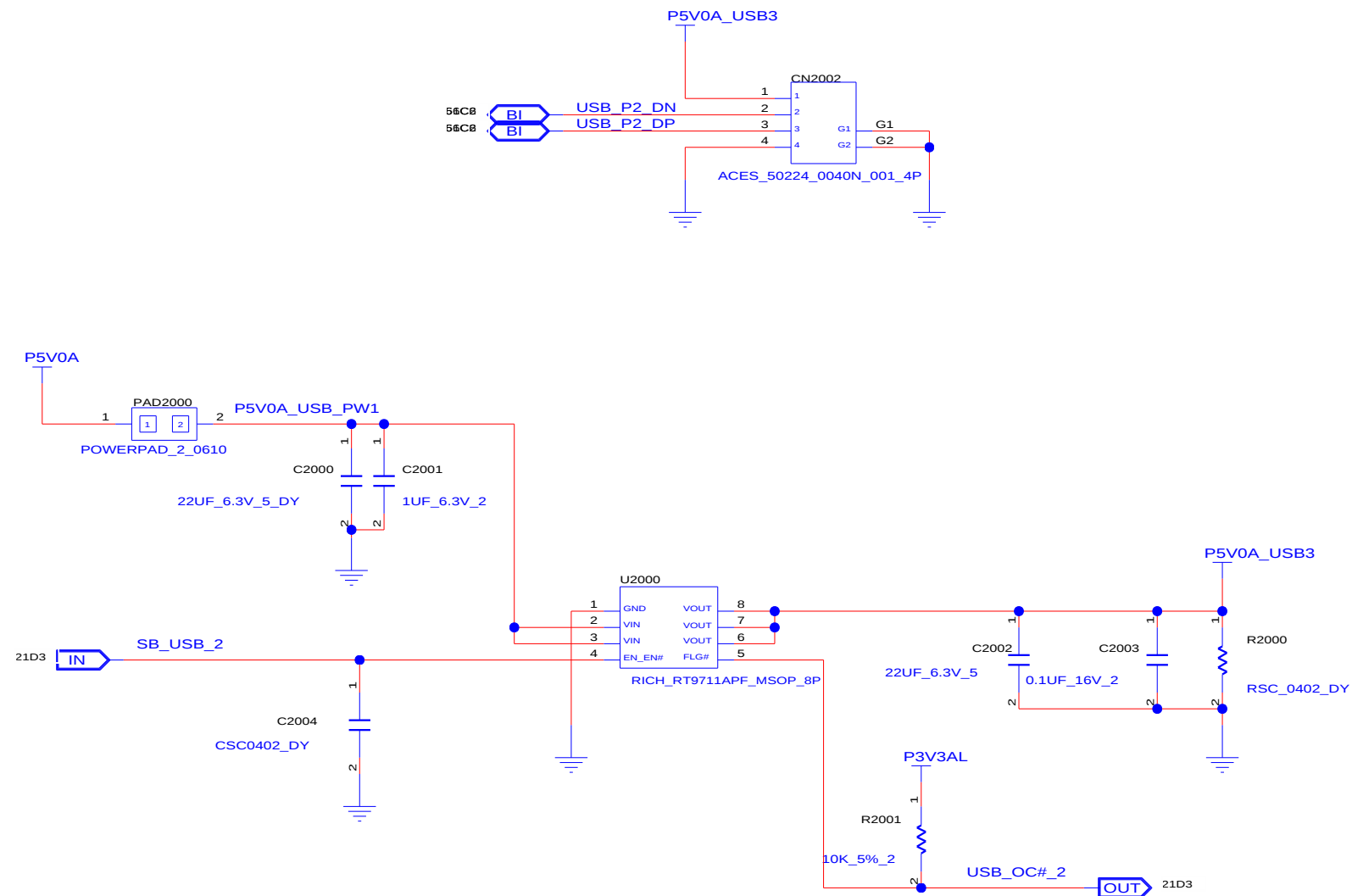
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REFERENCE 2000~2099(USB)



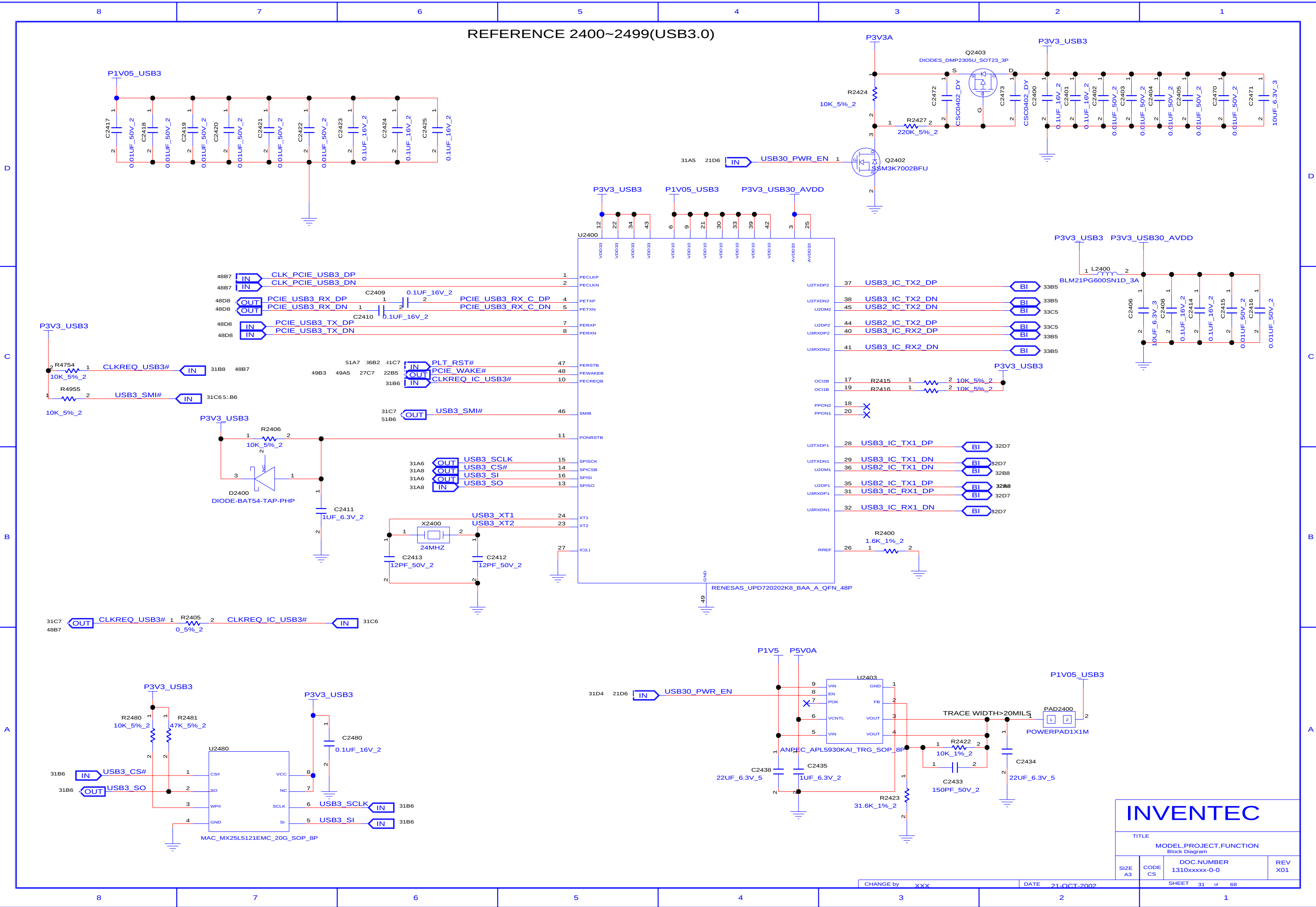
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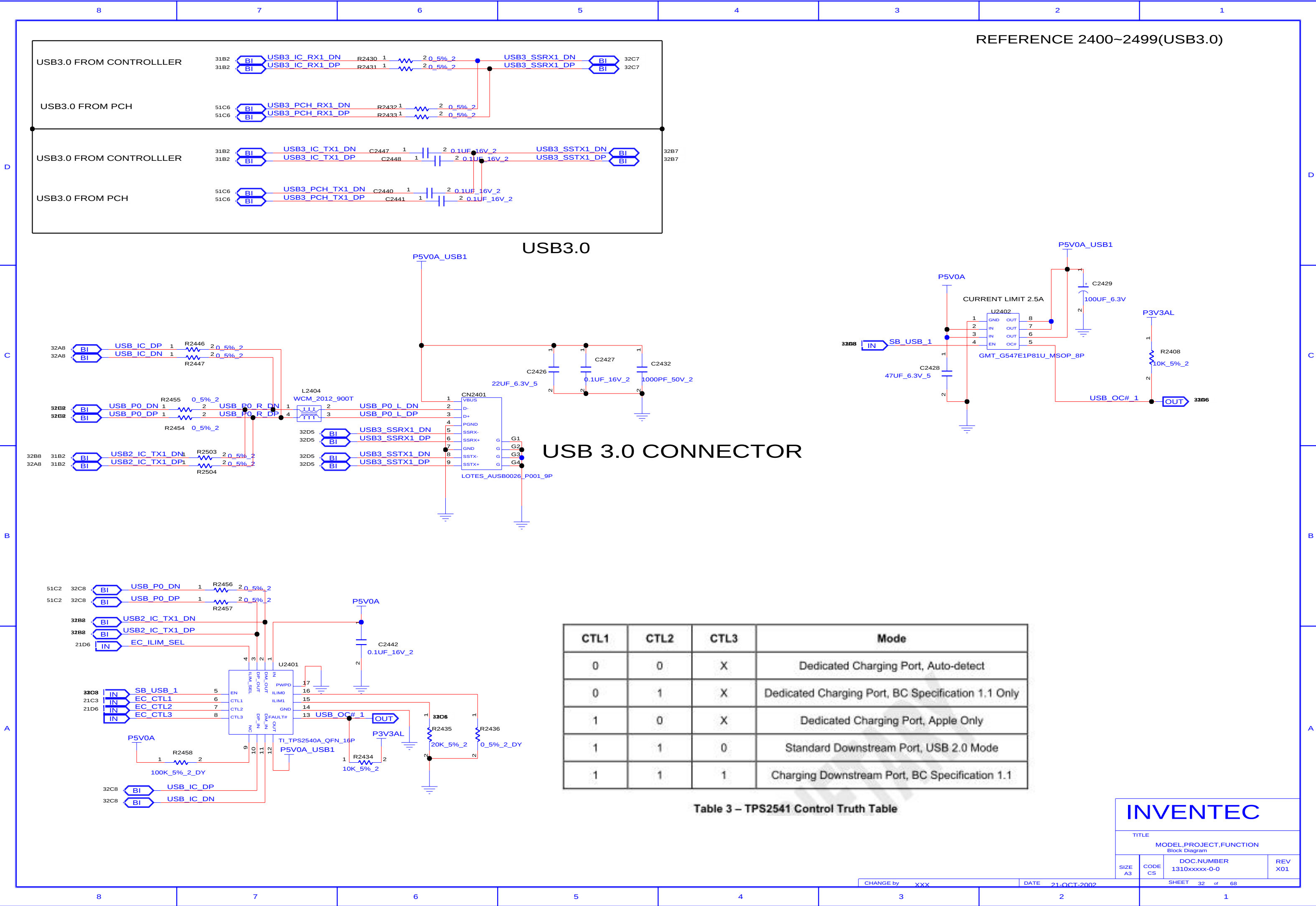
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REFERENCE 2400~2499(USB3.0)





REFERENCE 2400~2499(USB3.0)

USB3.0

USB 3.0 CONNECTOR

CTL1	CTL2	CTL3	Mode
0	0	X	Dedicated Charging Port, Auto-detect
0	1	X	Dedicated Charging Port, BC Specification 1.1 Only
1	0	X	Dedicated Charging Port, Apple Only
1	1	0	Standard Downstream Port, USB 2.0 Mode
1	1	1	Charging Downstream Port, BC Specification 1.1

Table 3 – TPS2541 Control Truth Table

INVENTEC

TITLE

MODEL,PROJECT,FUNCTION
Block Diagram

SIZE
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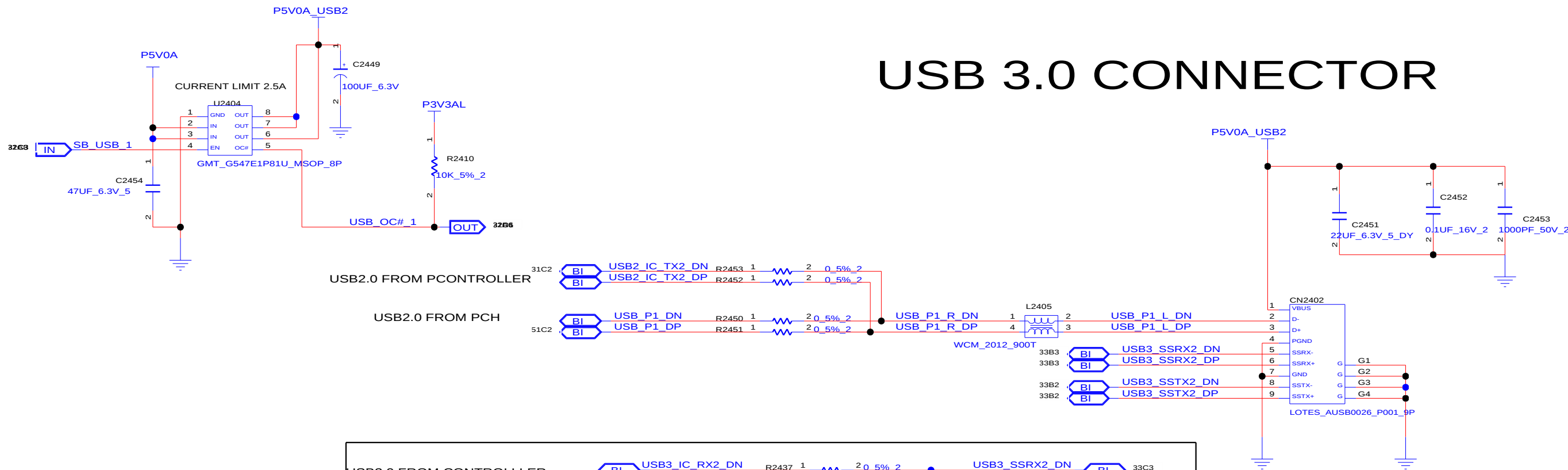
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CHANGE by
XXX

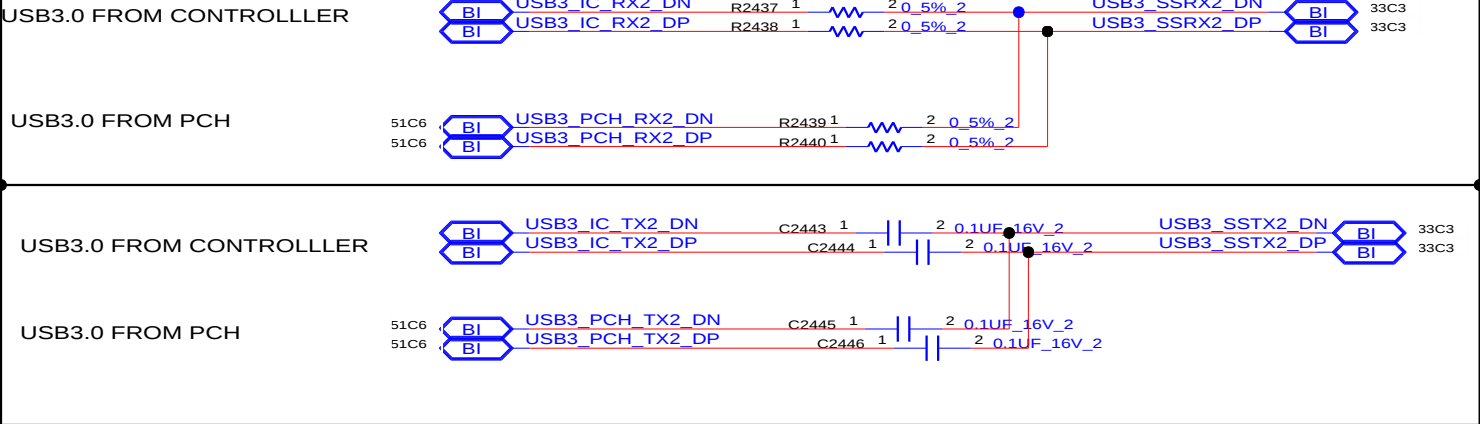
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REFERENCE 2400~2499(USB3.0)



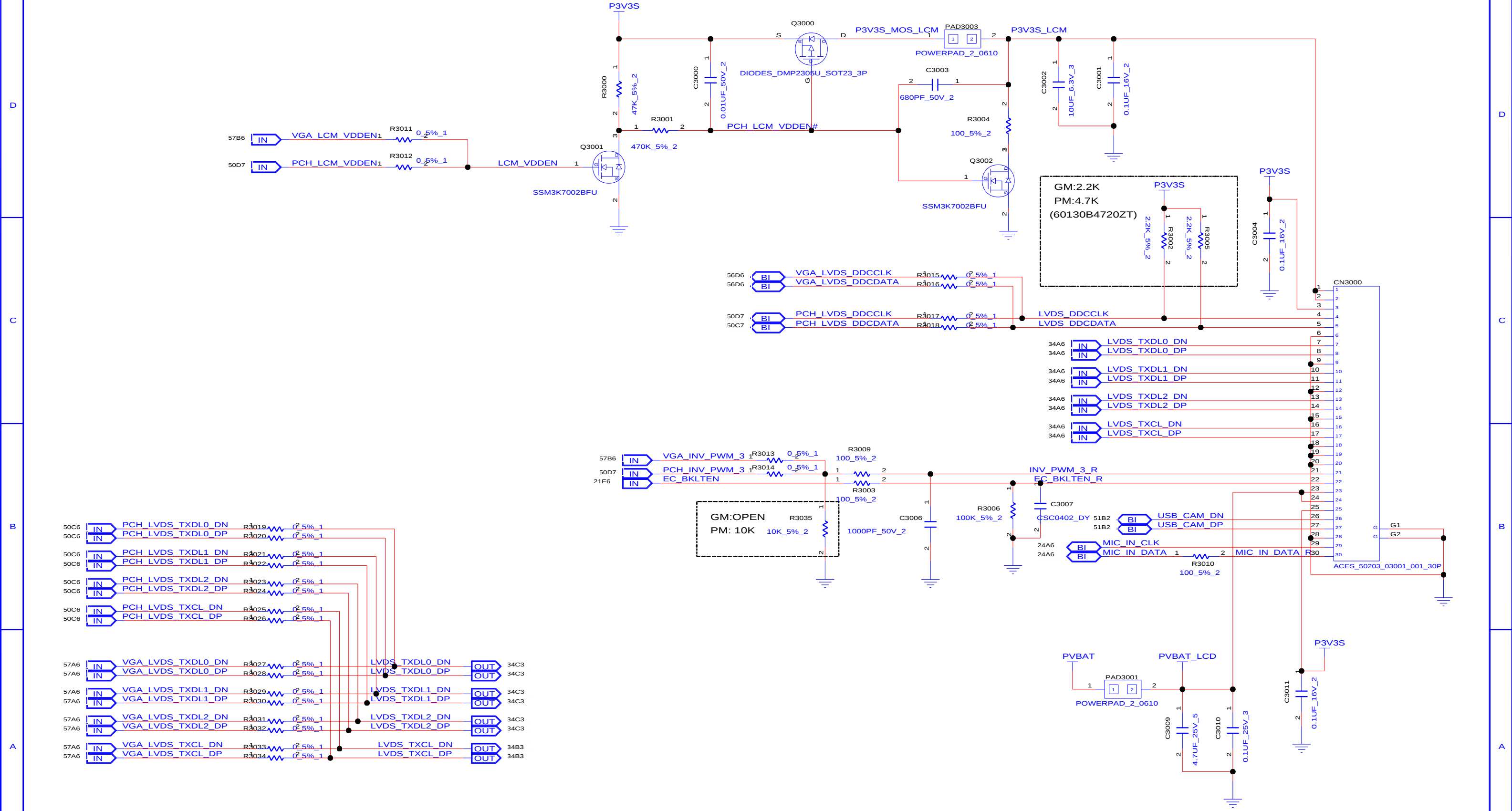
USB 3.0 CONNECTOR



USB3.0

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REFERENCE 3000~3049(LCM)



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REFERENCE 3050~3099(CRT)

D

C

B

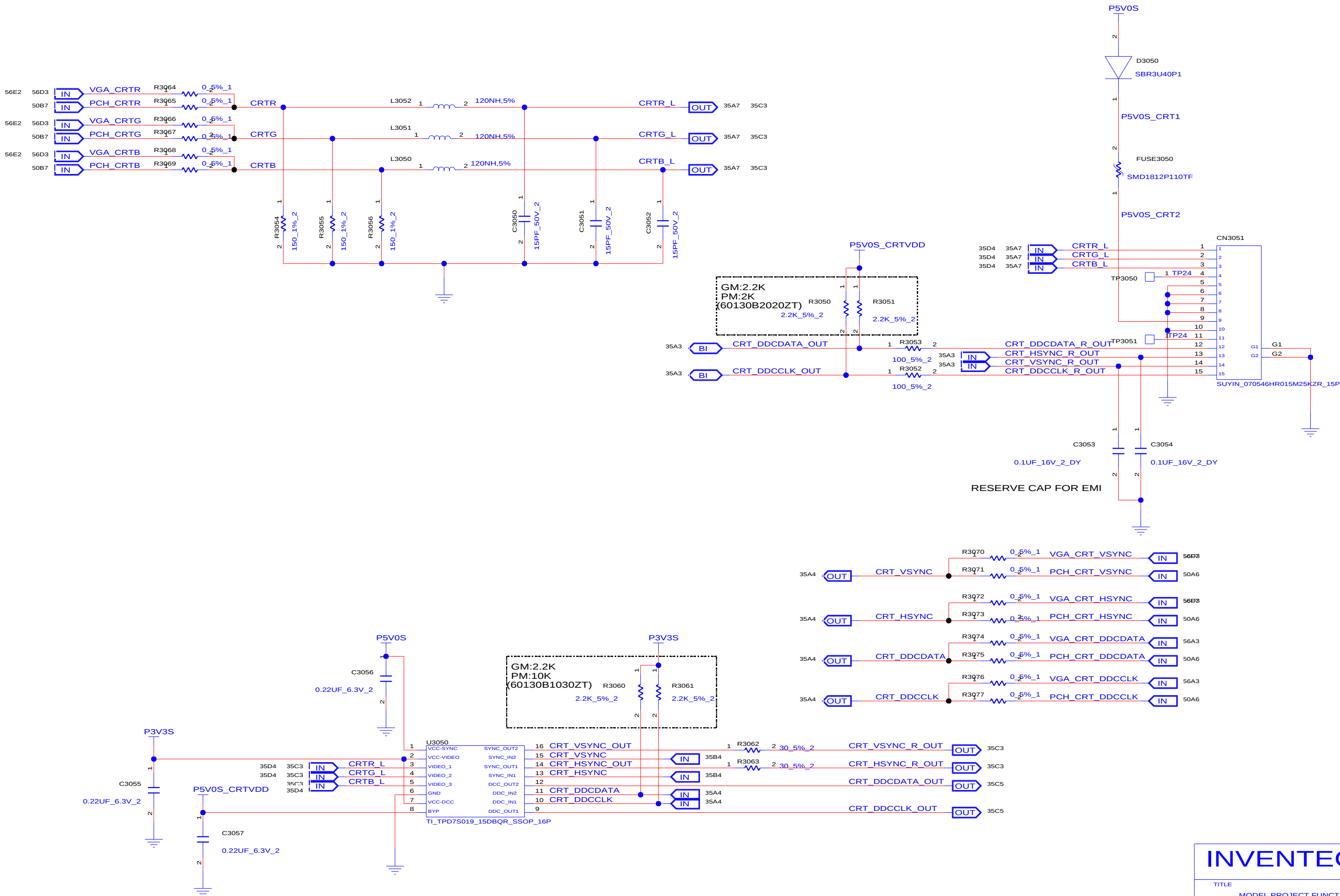
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INVENTEC

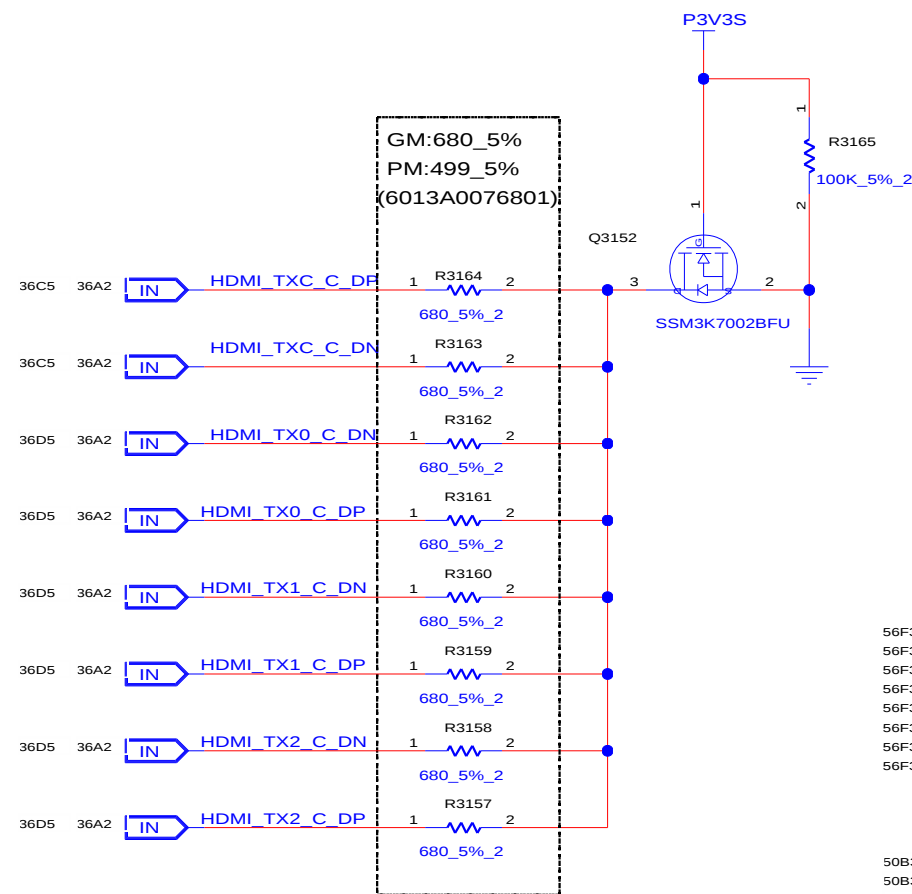
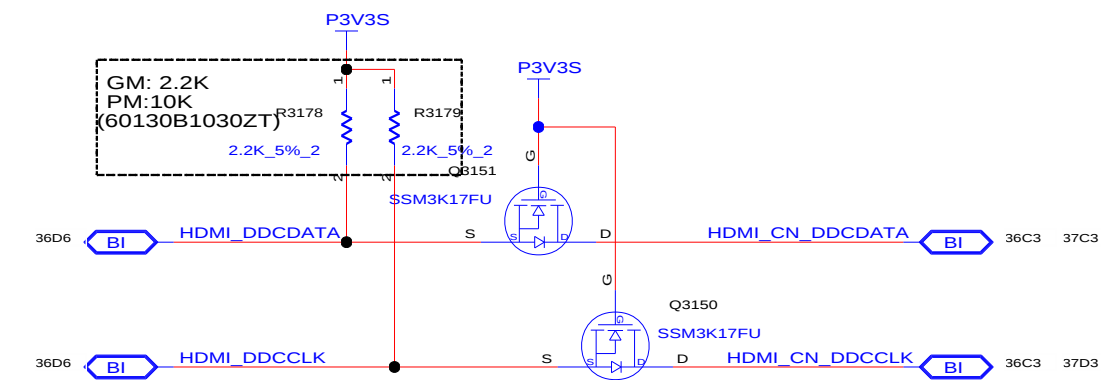
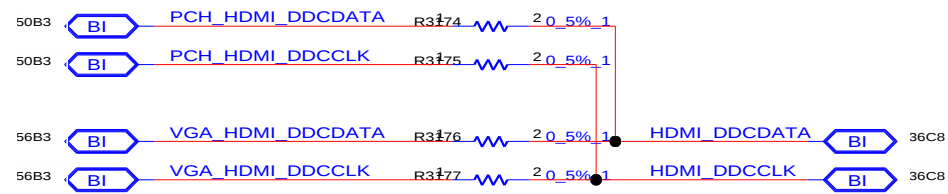
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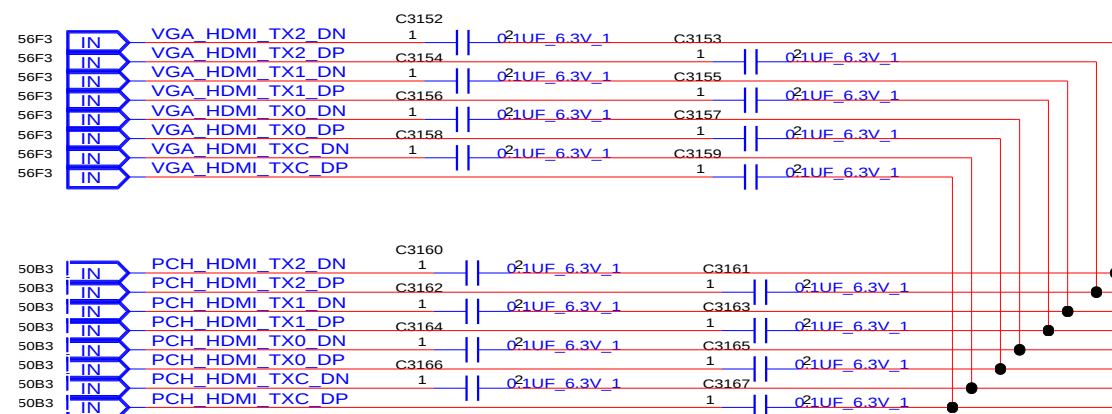
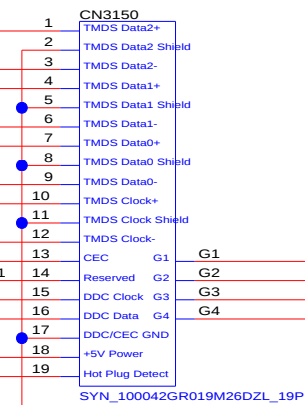
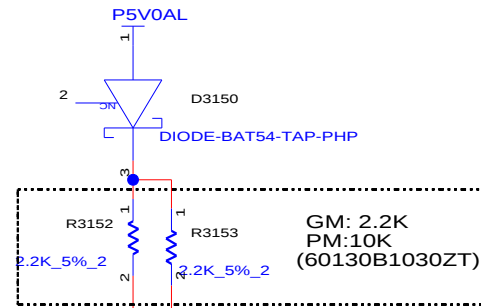
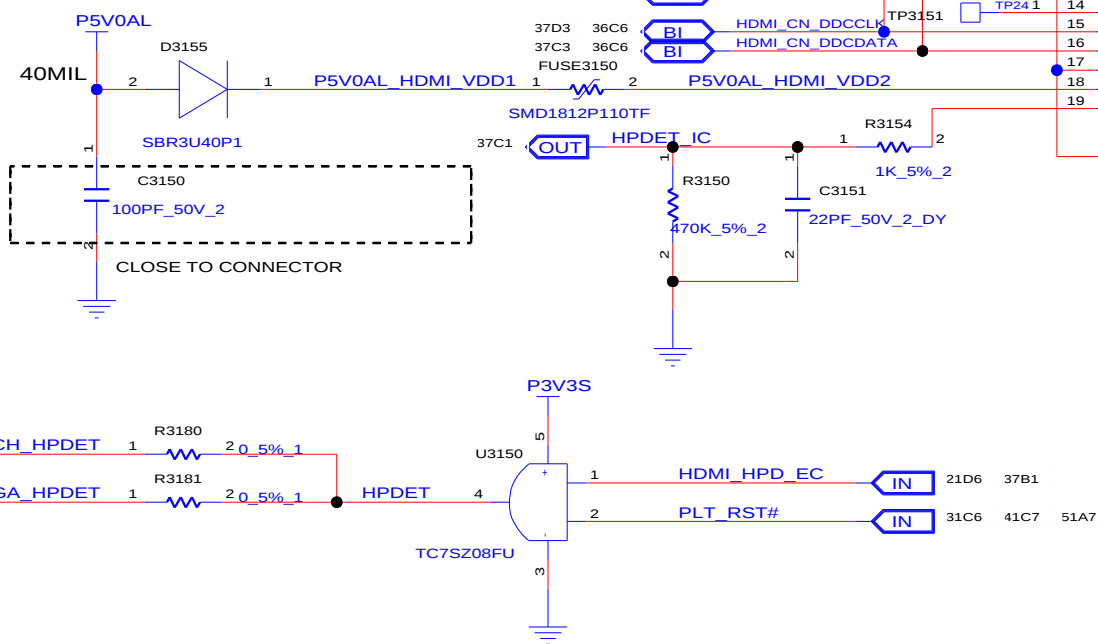
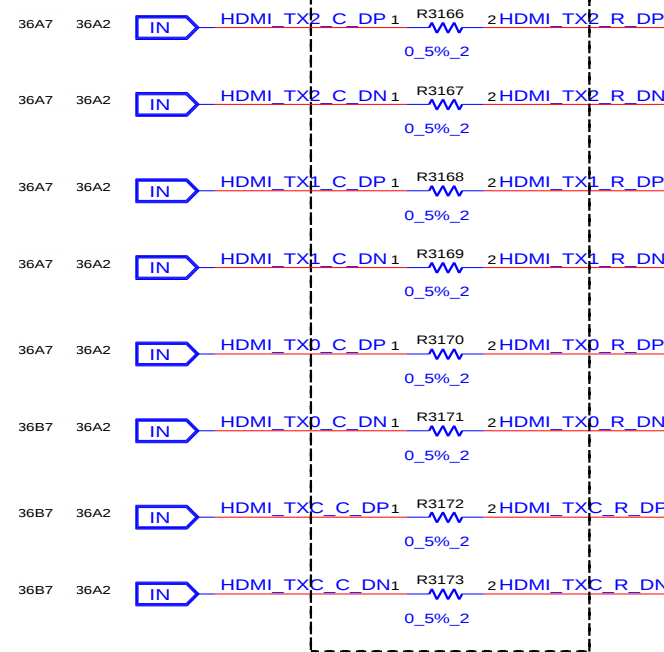
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REFERENCE 3150~3199(HDMI)



PLACE CLOSE TO CONNECTOR



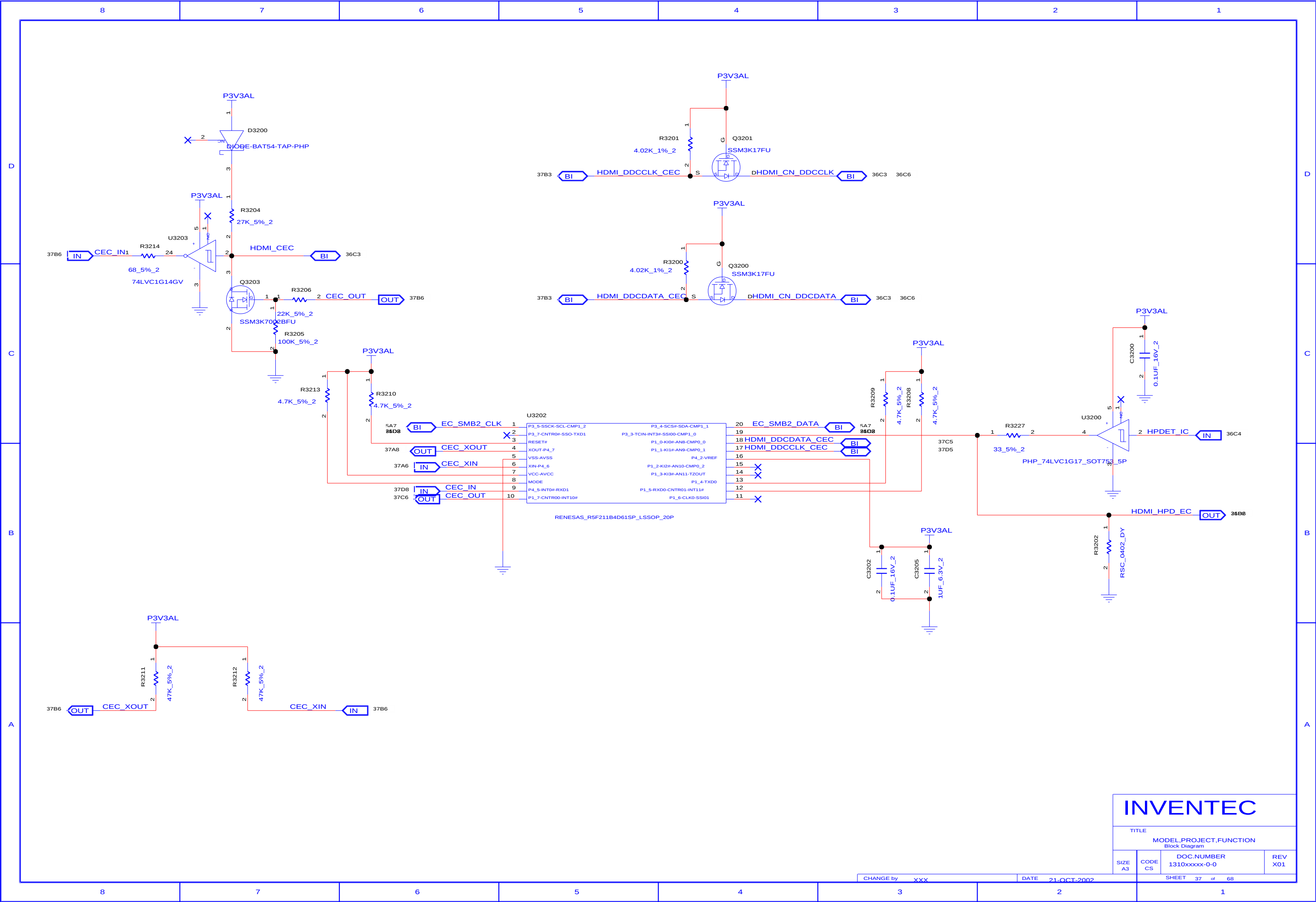
INVENTEC

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 36 of 68



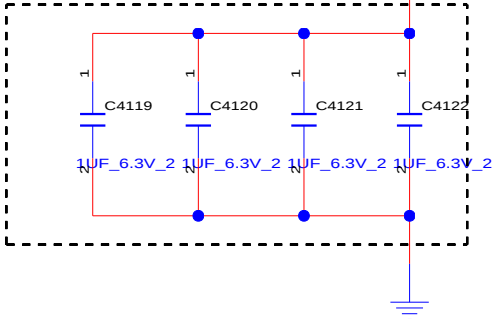
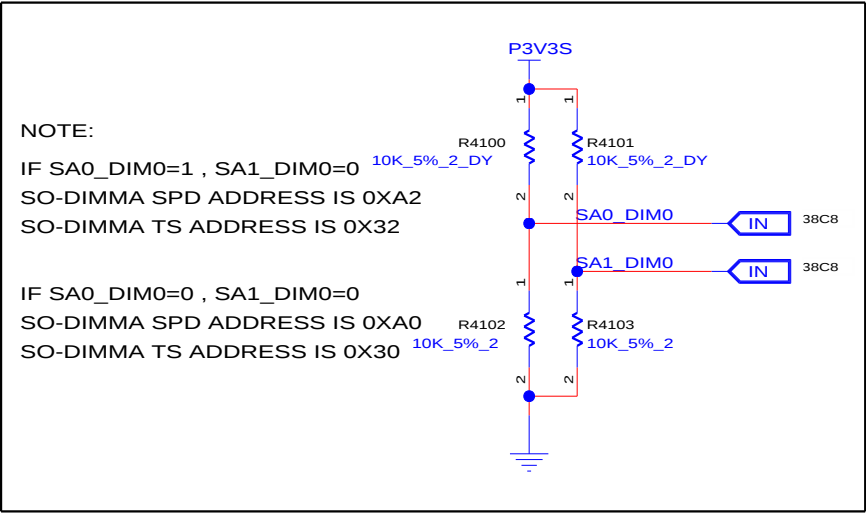
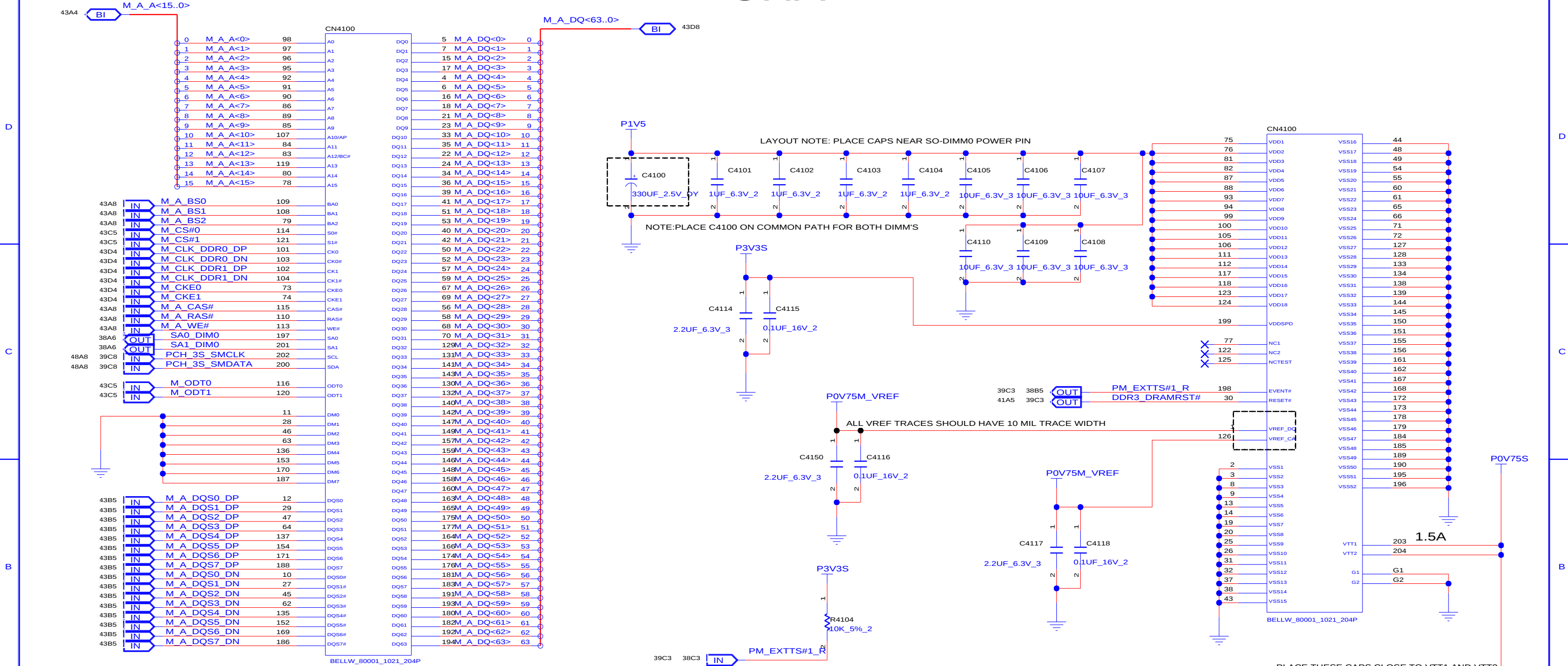
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 37 of 68

CHA

REFERENCE 4100-4299(DDR)

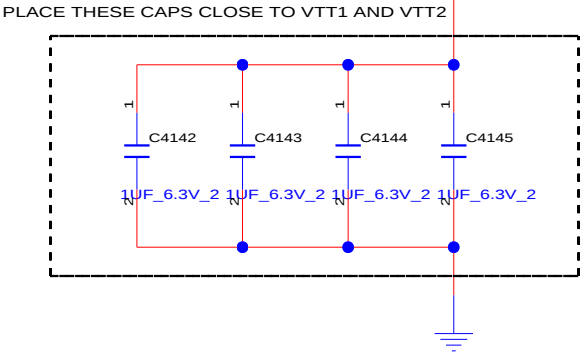
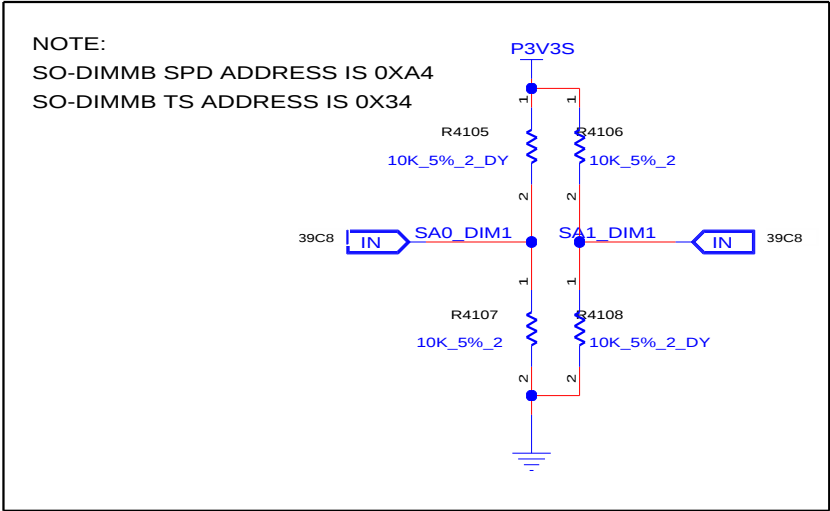
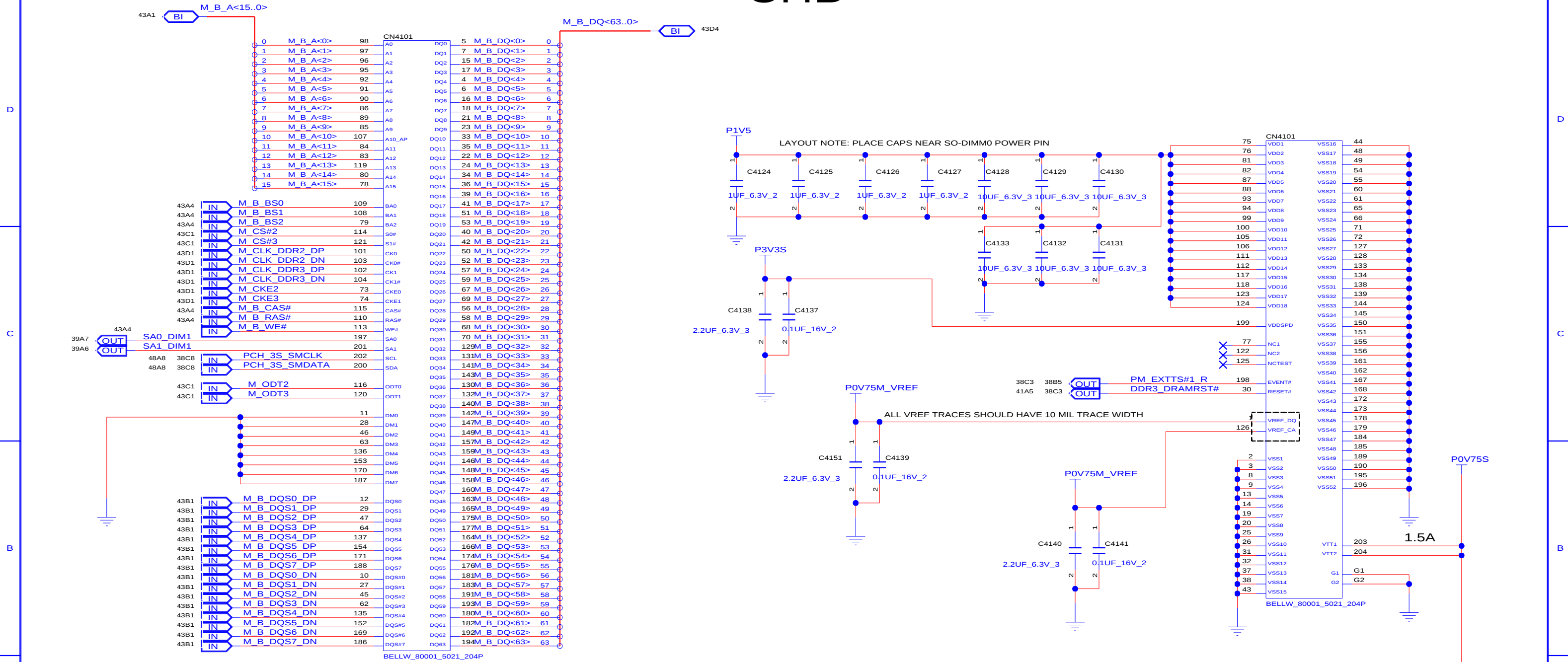


INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
SHEET 38 of 68			

REFERENCE 4100~4299(DDR)

CHB



INVENTEC

TITLE

MODEL,PROJECT,FUNCTION

Block Diagram

DOC.NUMBER

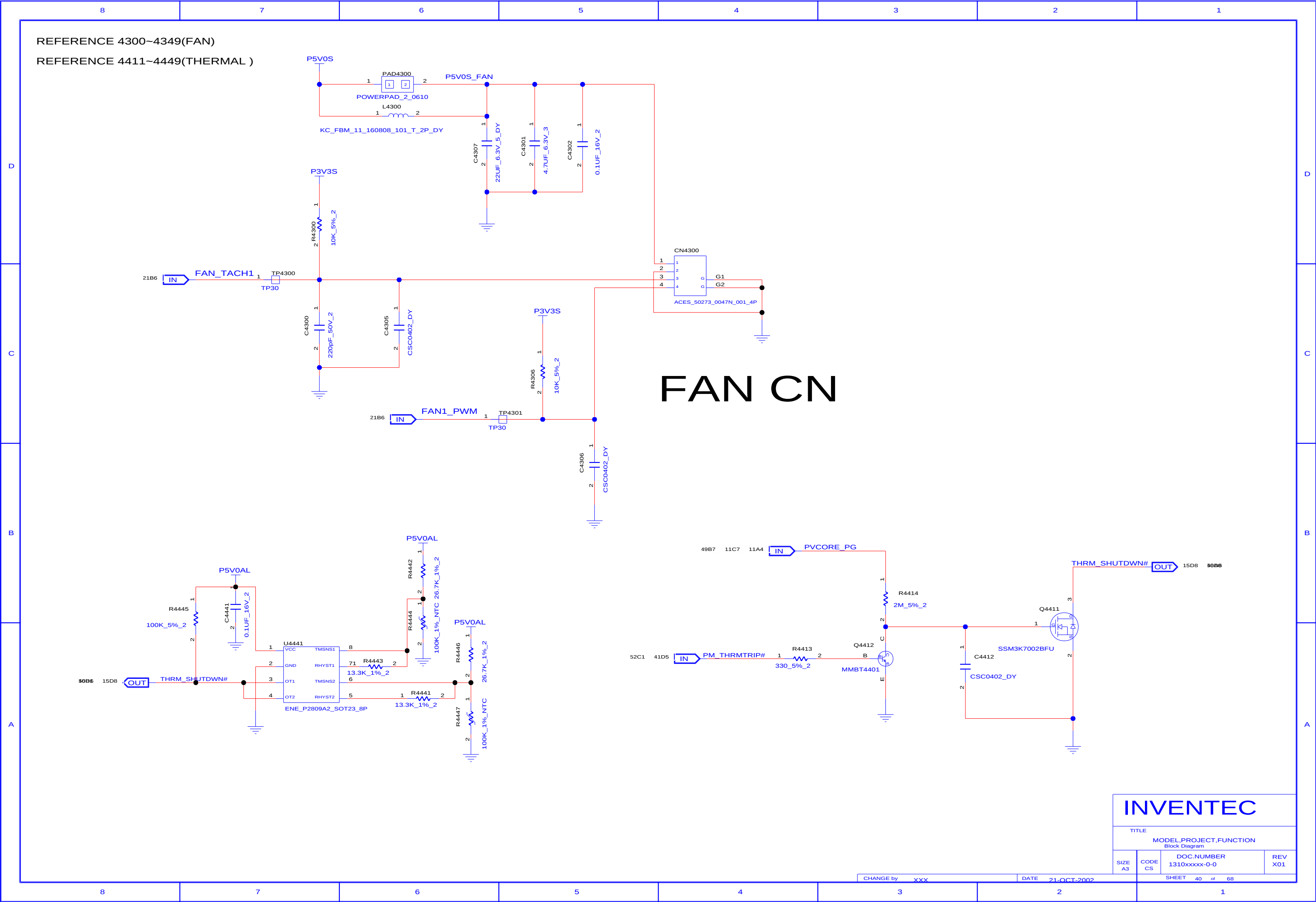
1310xxxx-0-0

REV

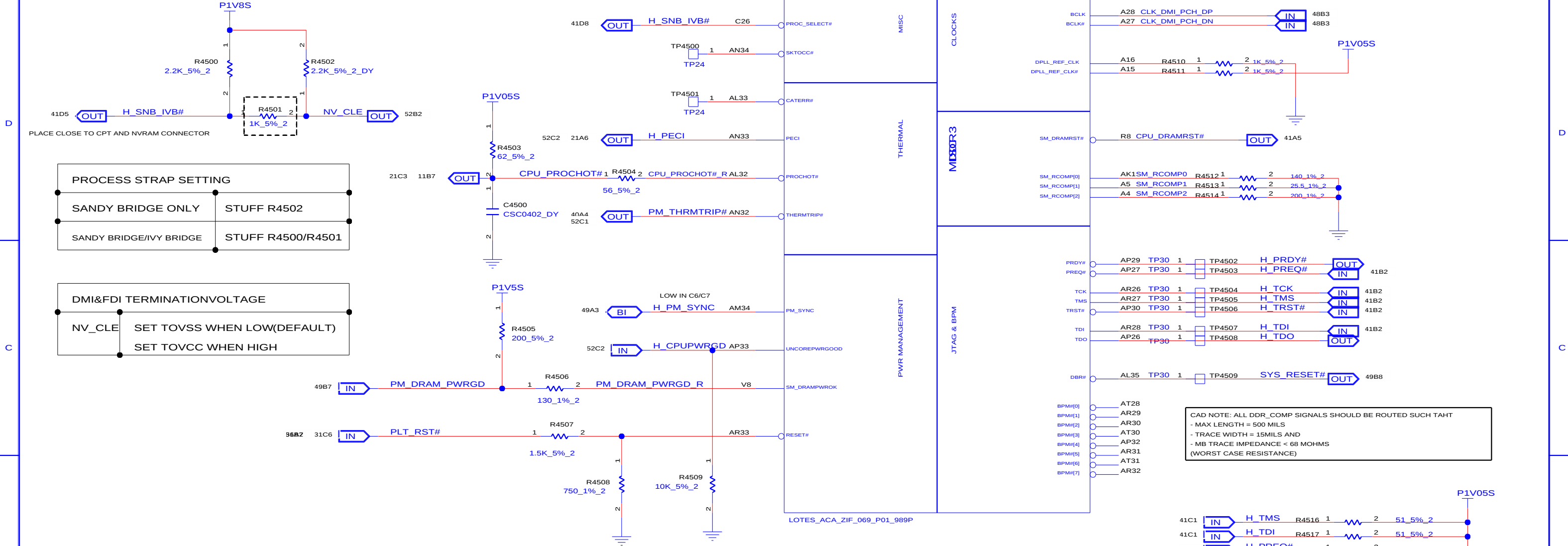
X01

CHANGE by XXX DATE 21-OCT-2002

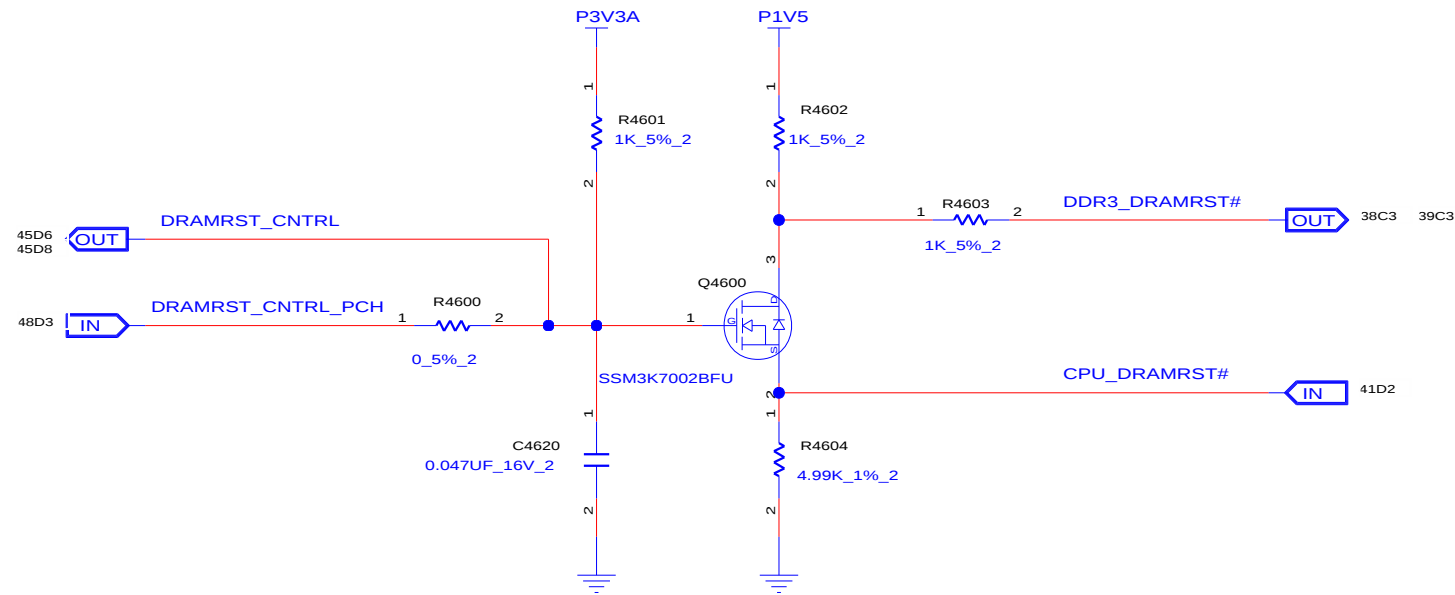
SHEET 39 of 68



REFERENCE 4500~4699(CPU)



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



INVENTEC

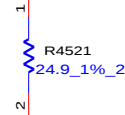
TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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REFERENCE 4500~4699(CPU)

P1V05S

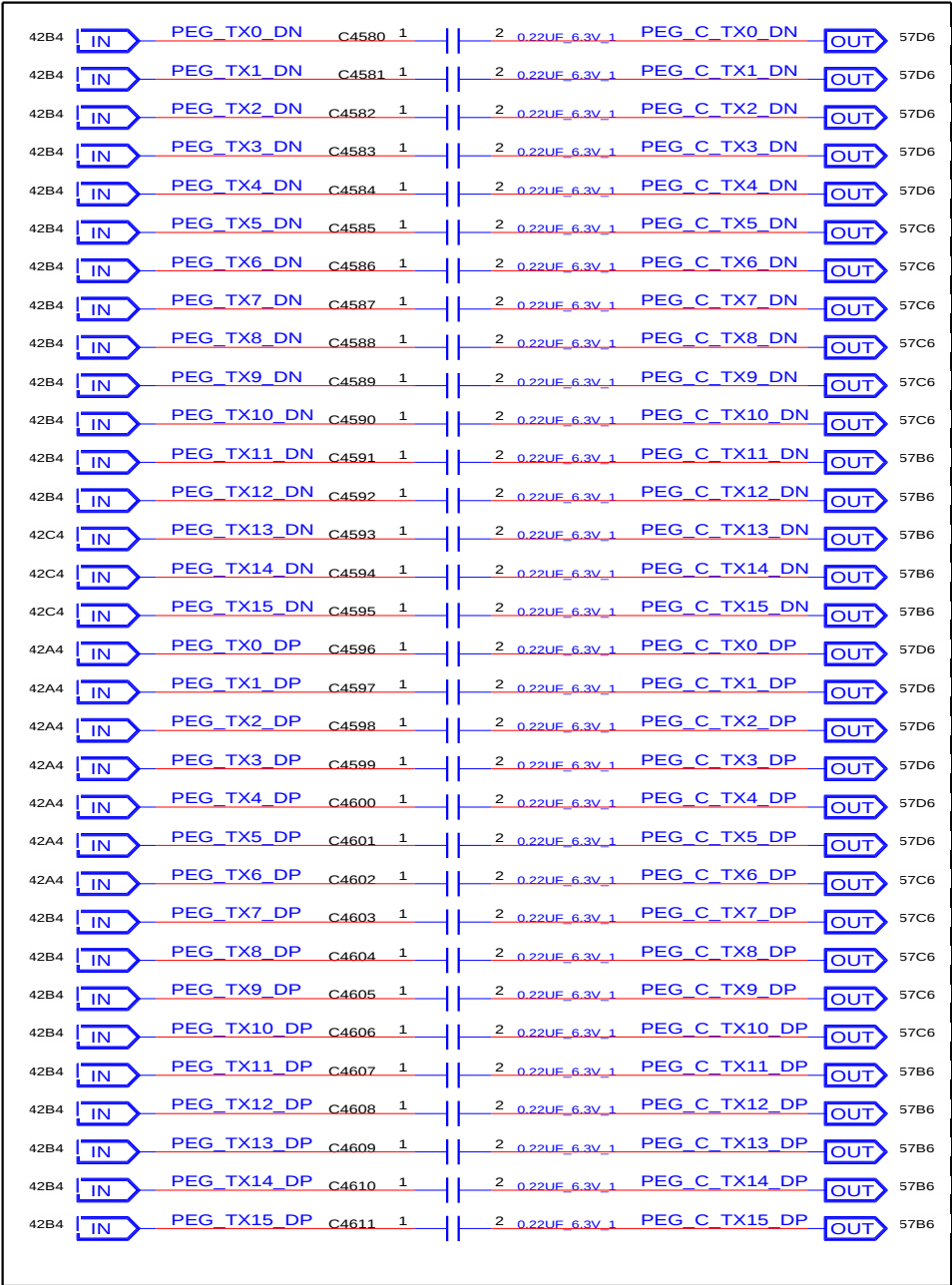


CAD NOTE: DP_COMPIO AND ICOMPO SIGNALS
SHOULD BE SHORTED NEAR BALLS AND ROUTED WITH
- TYPICAL IMPEDANCE < 25 MOHMS

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

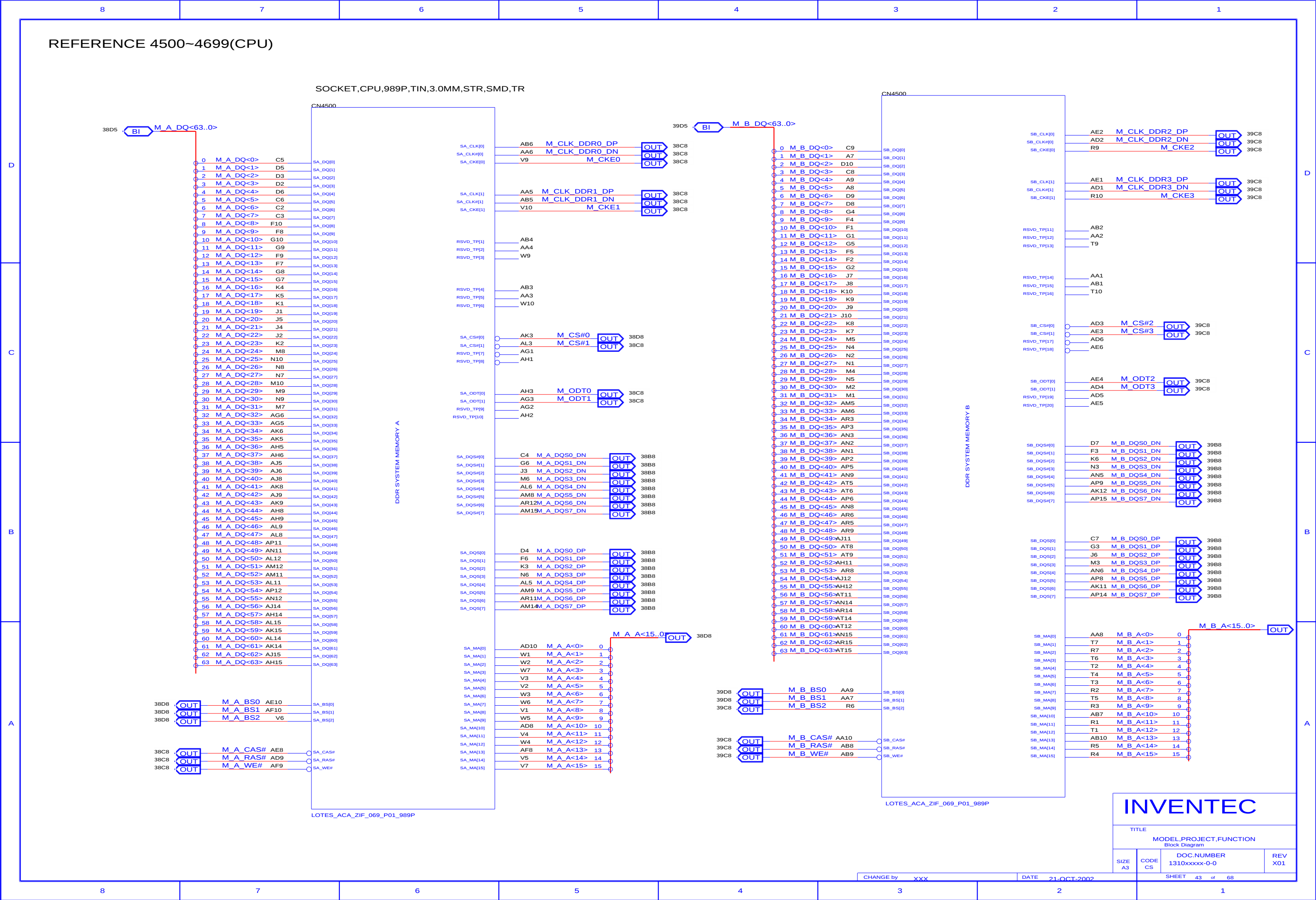


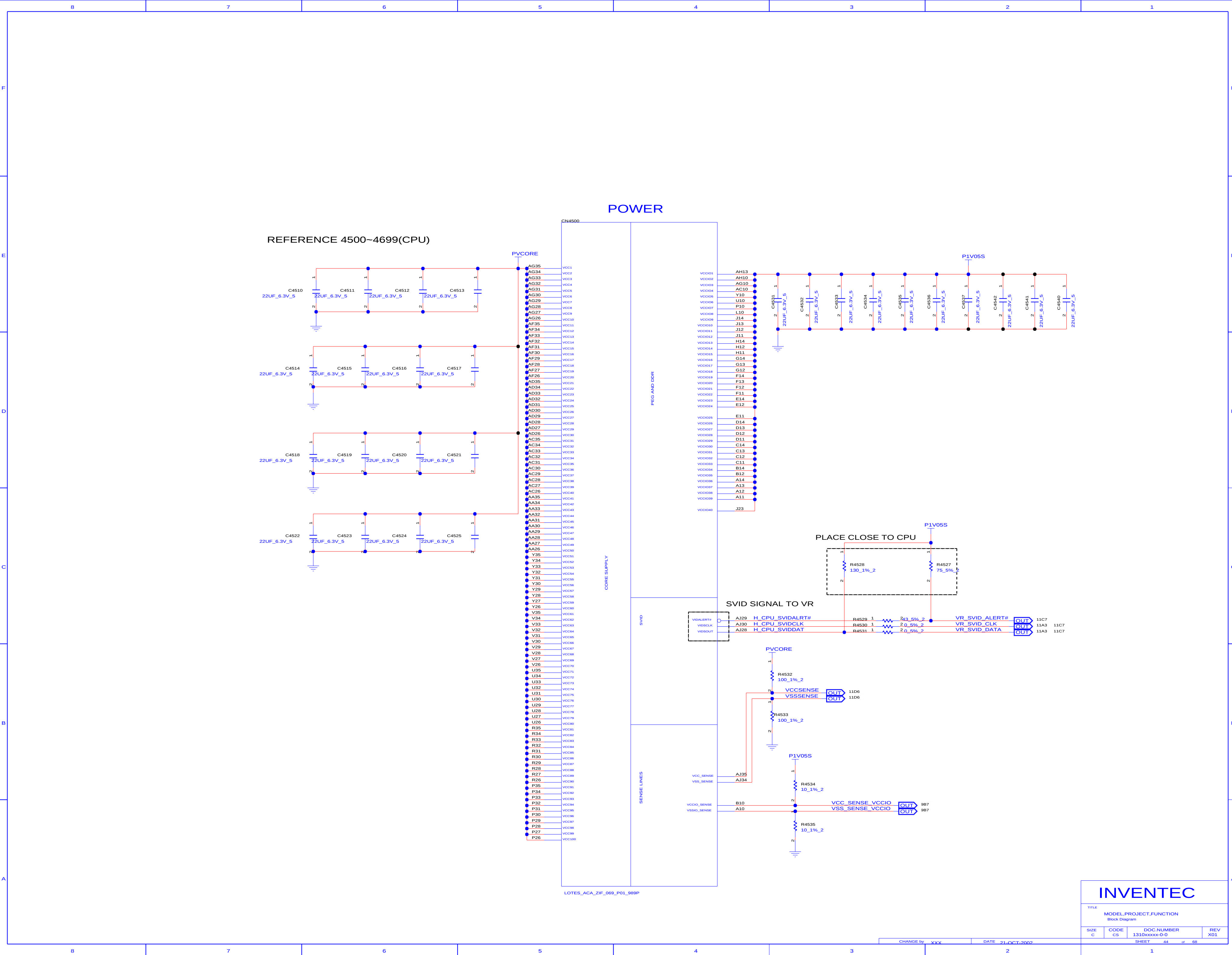
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxx-0-0	REV X01
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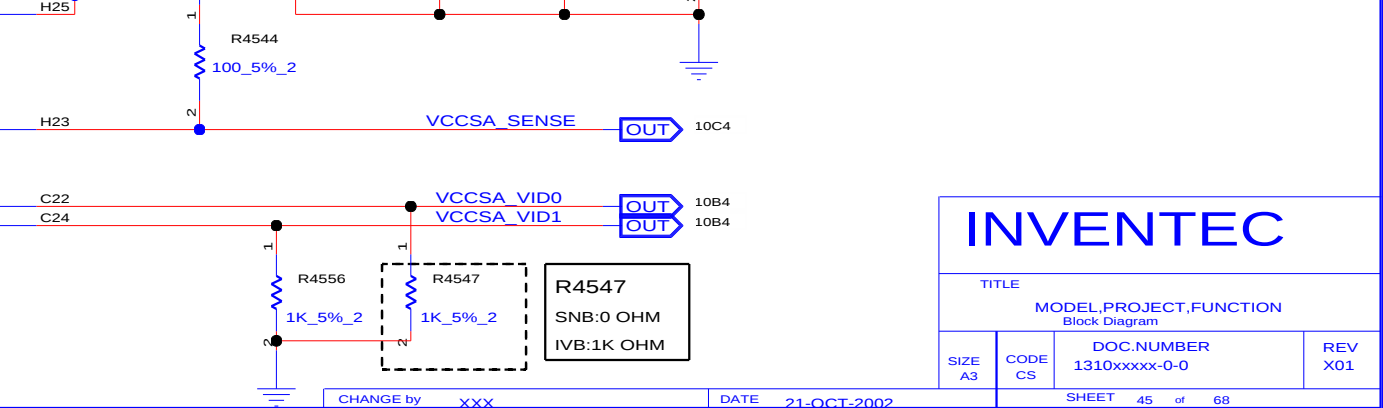
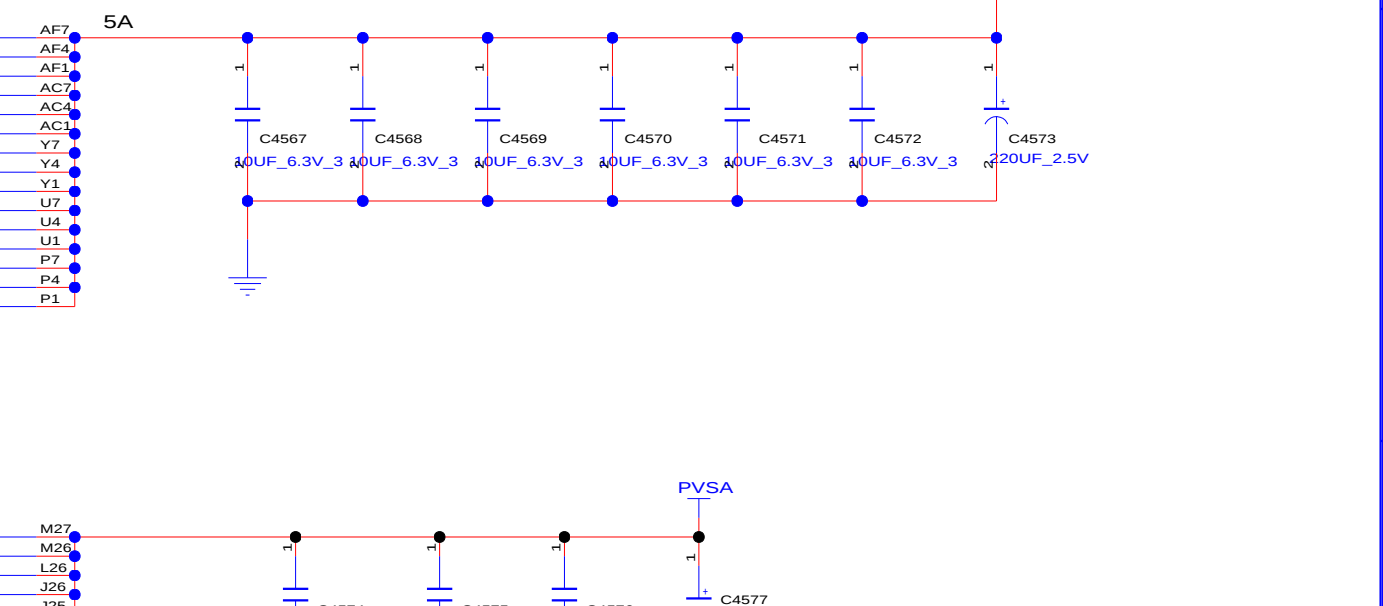
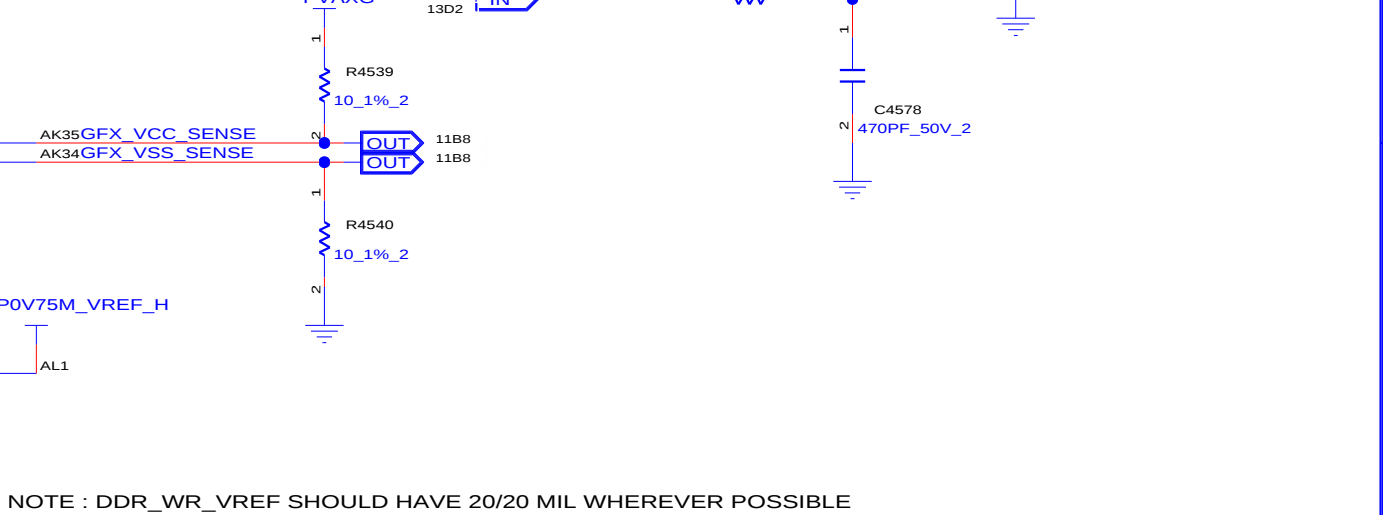
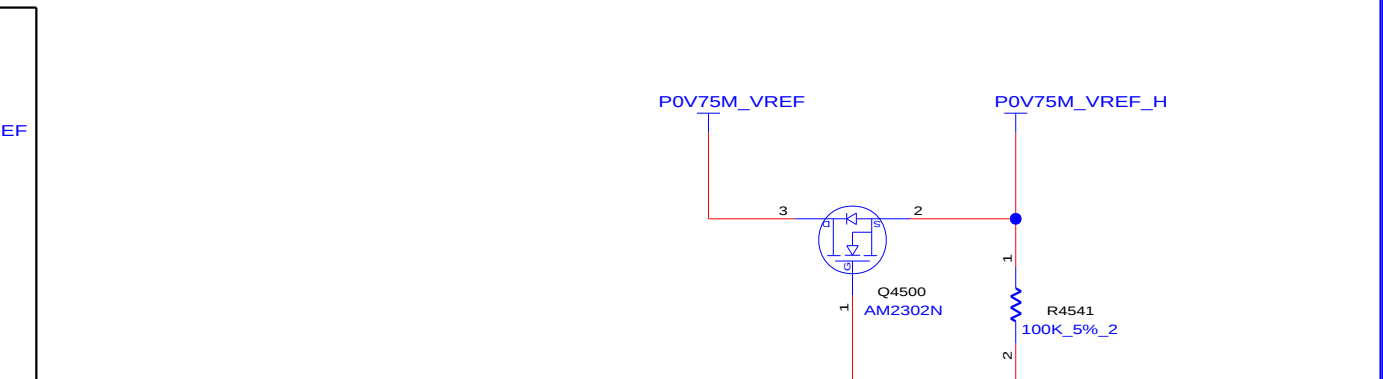
CHANGE by XXX DATE 21-OCT-2002 SHEET 42 of 68



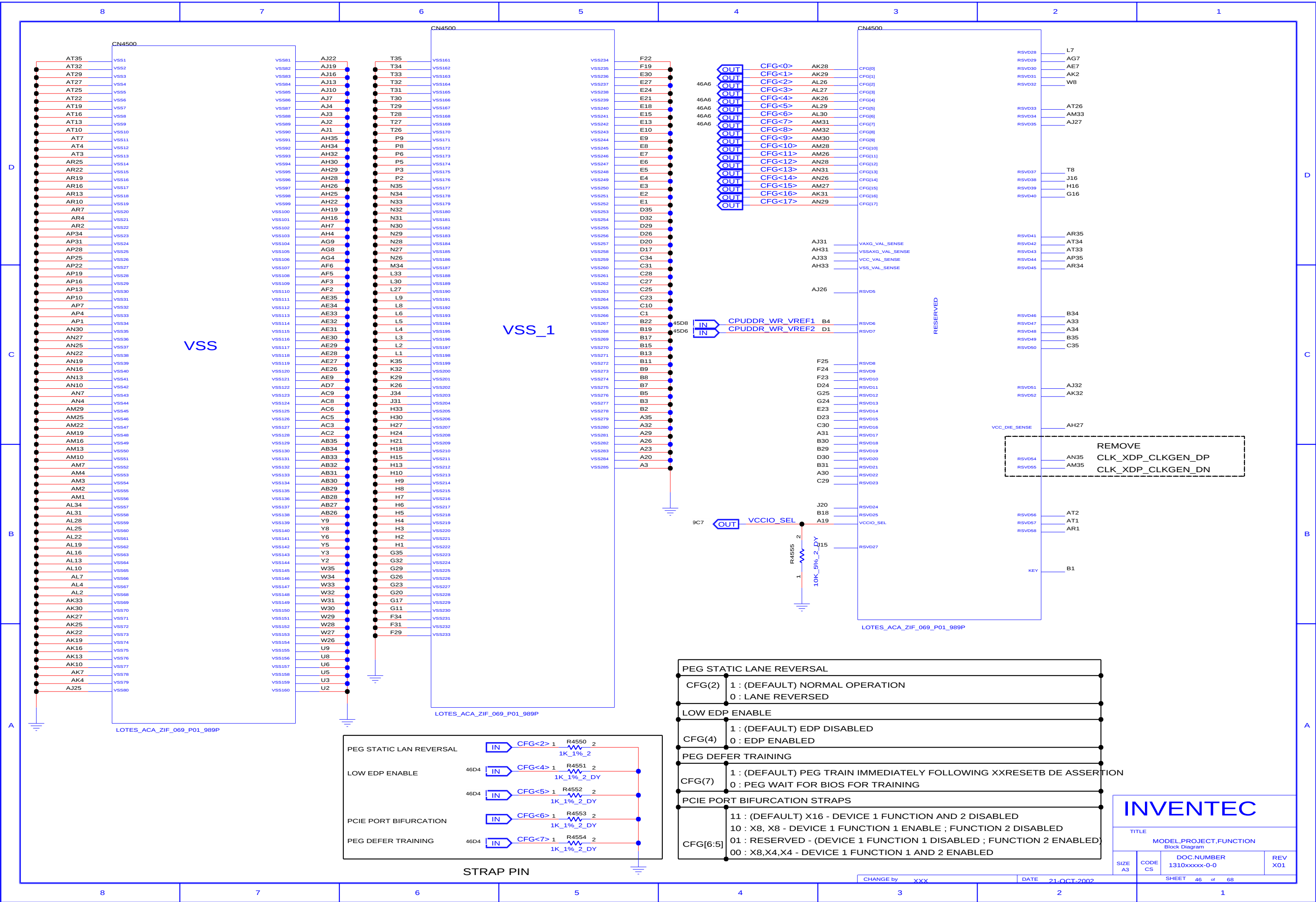


INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
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INVENTEC			
TITLE MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 45 of 68			

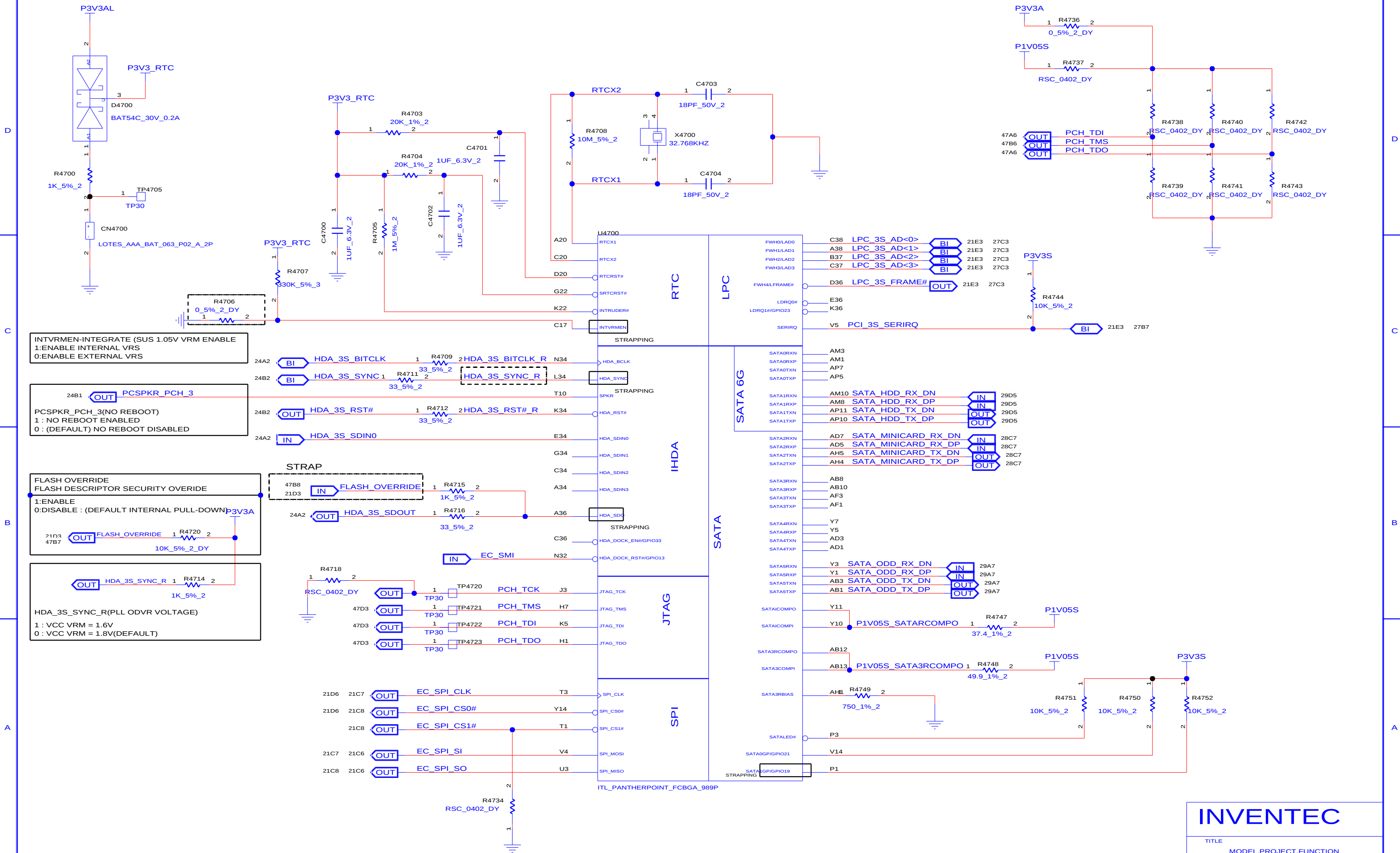


PEG STATIC LANE REVERSAL	
CFG(2)	1 : (DEFAULT) NORMAL OPERATION 0 : LANE REVERSED
LOW EDP ENABLE	
CFG(4)	1 : (DEFAULT) EDP DISABLED 0 : EDP ENABLED
PEG DEFER TRAINING	
CFG(7)	1 : (DEFAULT) PEG TRAIN IMMEDIATELY FOLLOWING XXRESETB DE ASSERTION 0 : PEG WAIT FOR BIOS FOR TRAINING
PCIE PORT BIFURCATION STRAPS	
CFG[6:5]	11 : (DEFAULT) X16 - DEVICE 1 FUNCTION AND 2 DISABLED 10 : X8, X8 - DEVICE 1 FUNCTION 1 ENABLE ; FUNCTION 2 DISABLED 01 : RESERVED - (DEVICE 1 FUNCTION 1 DISABLED ; FUNCTION 2 ENABLED) 00 : X8,X4,X4 - DEVICE 1 FUNCTION 1 AND 2 ENABLED

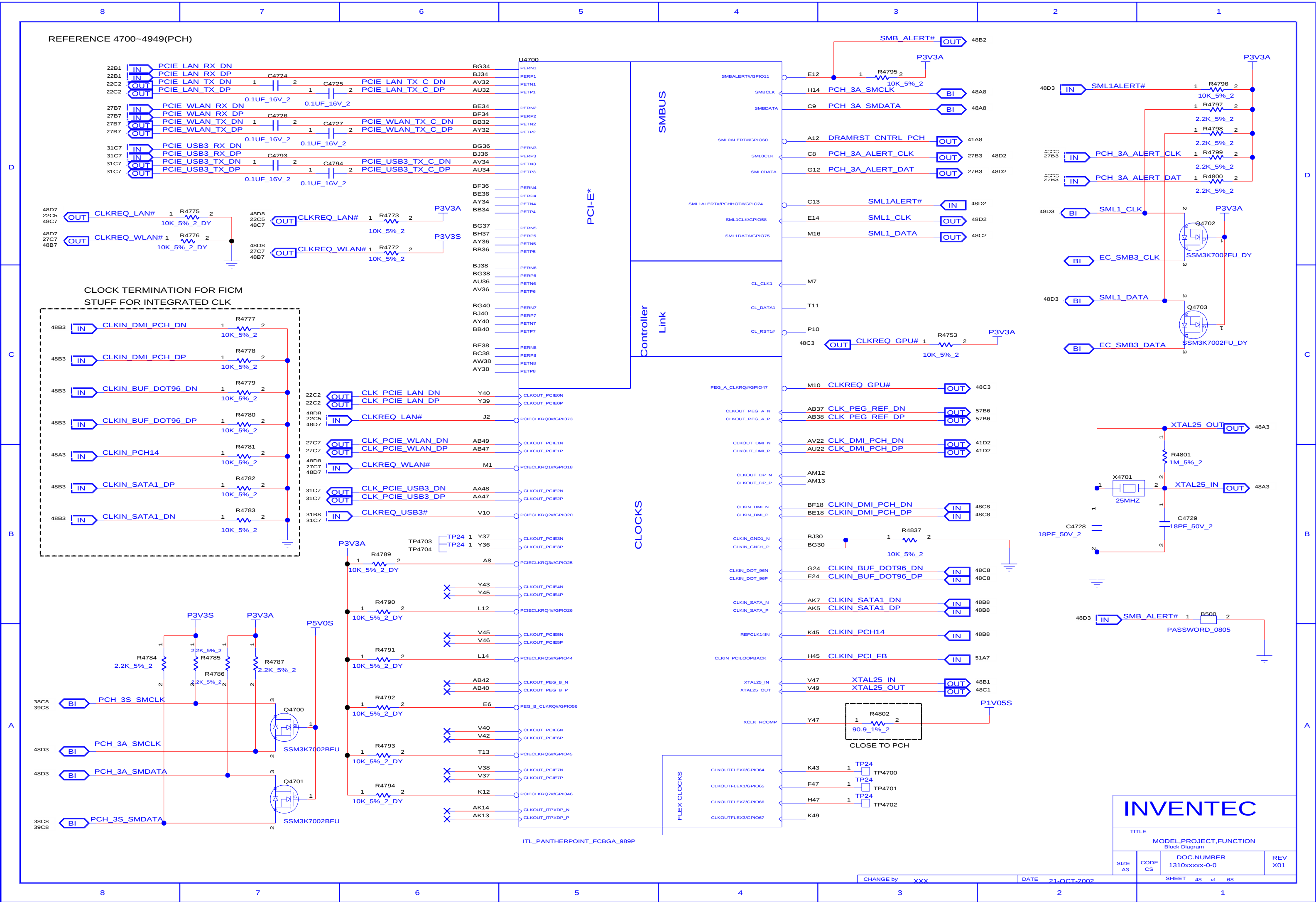
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310xxxx-0-0	X01
SHEET 46 of 68			

CHANGE by XXX DATE 21-OCT-2002

REFERENCE 4700~4949(PCH)



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

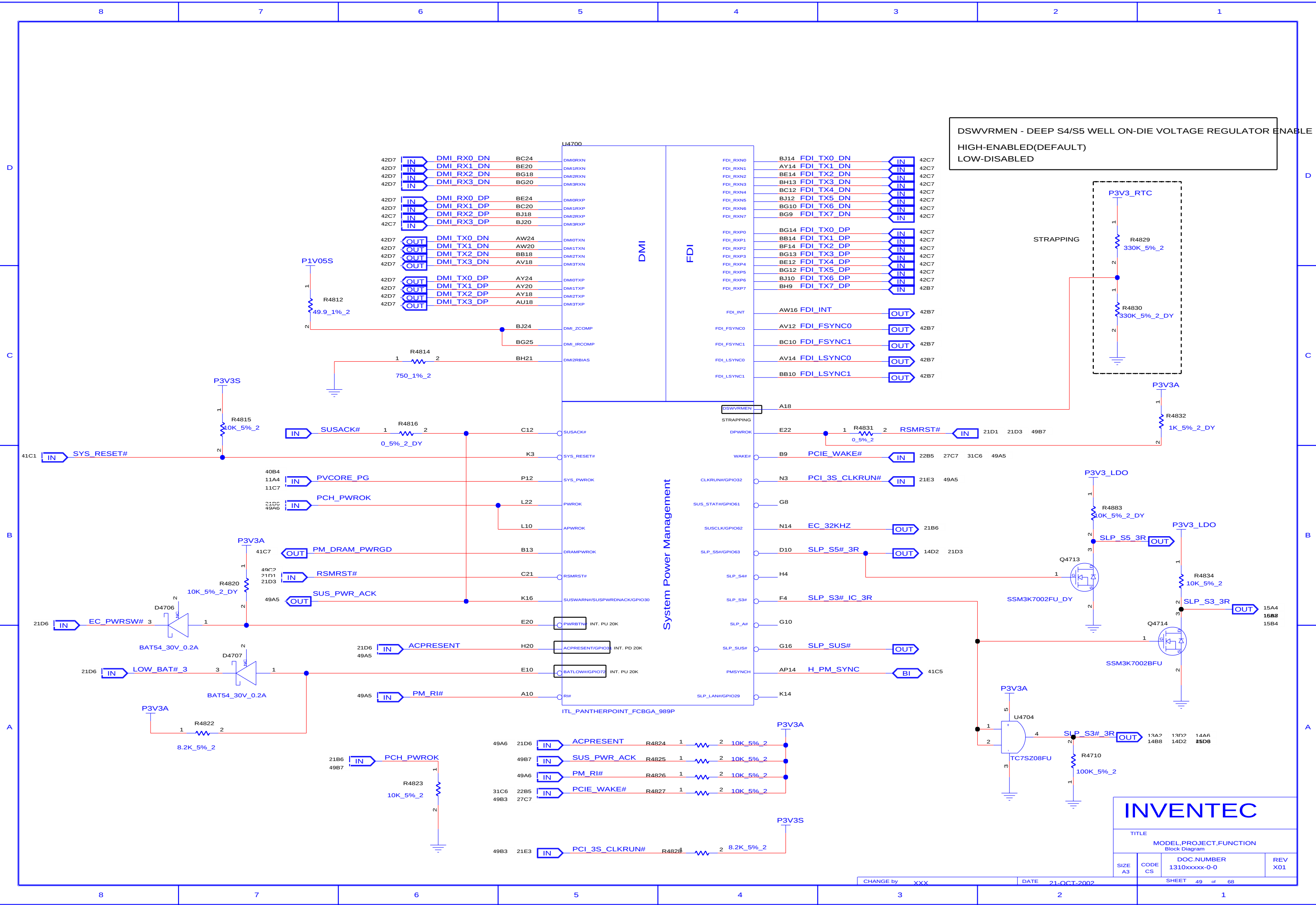


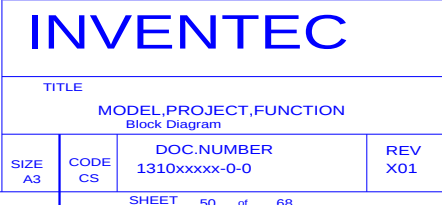
INVENTEC

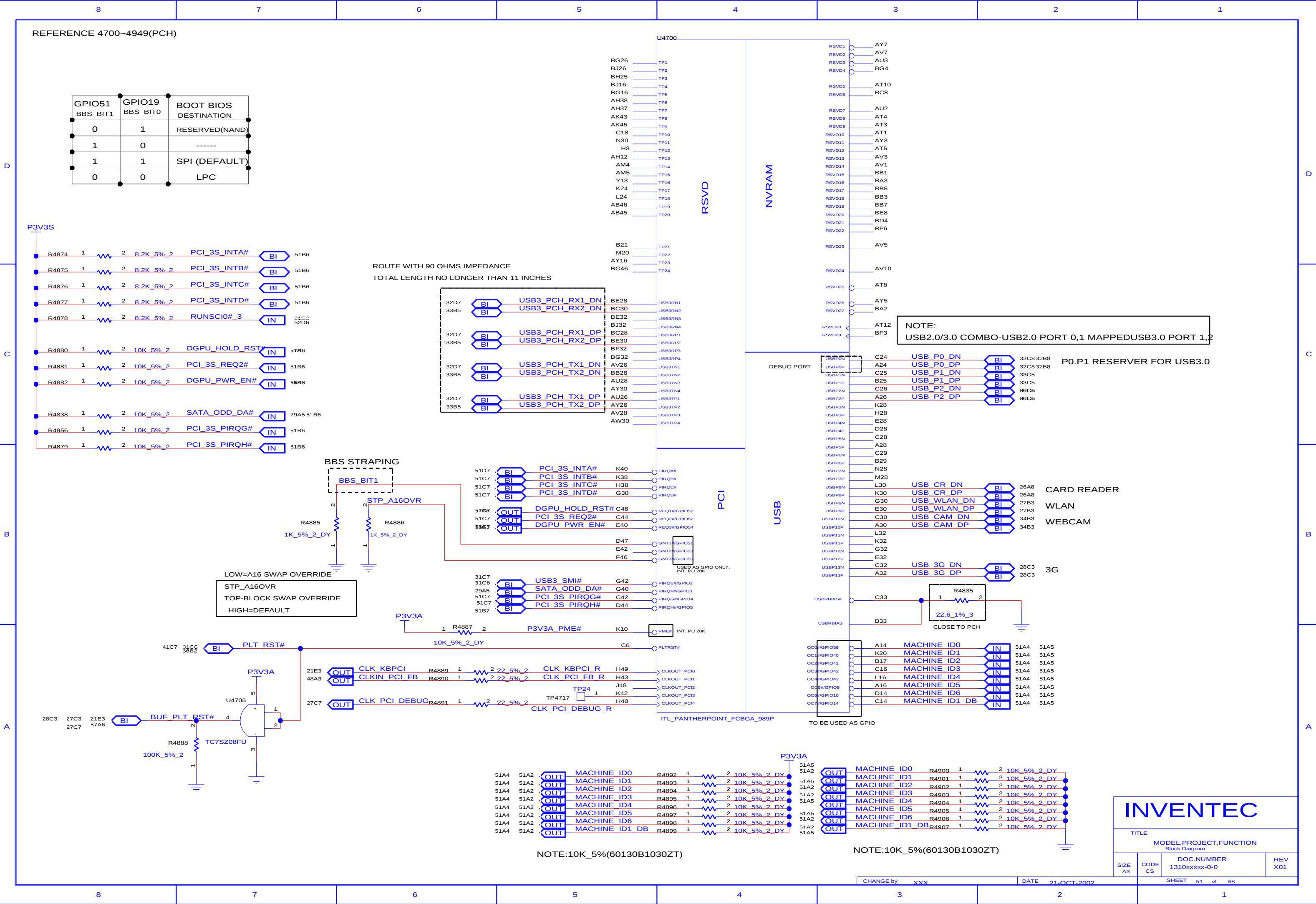
TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

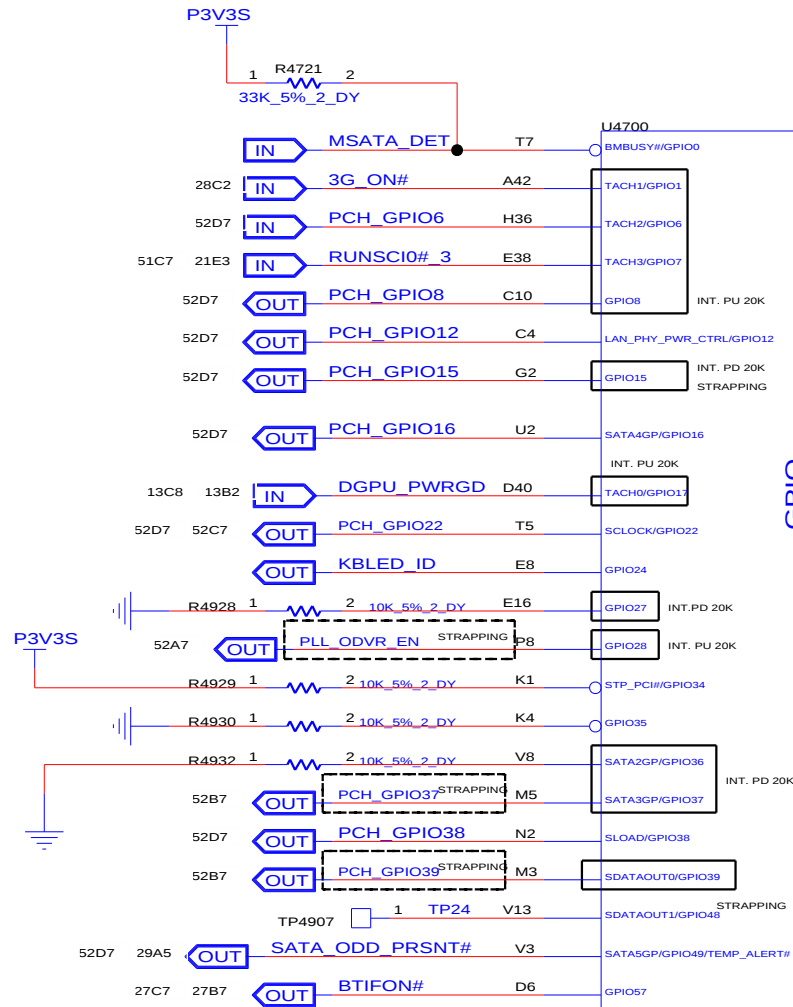
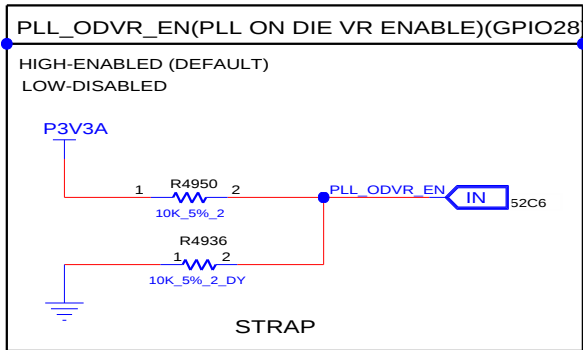
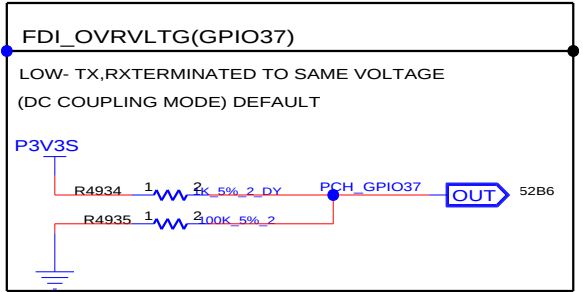
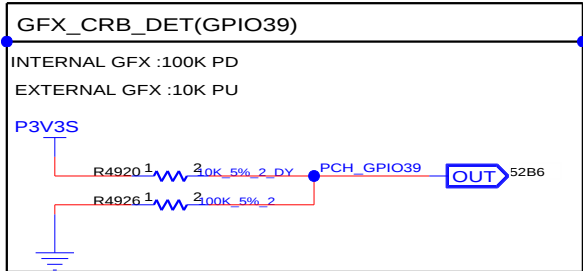
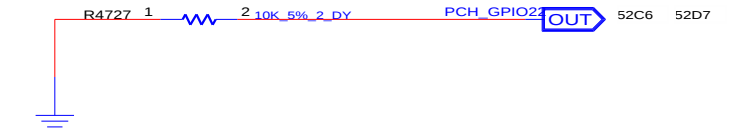
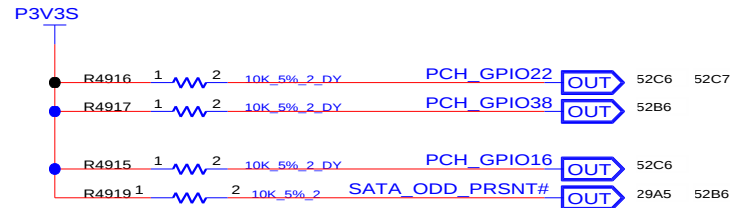
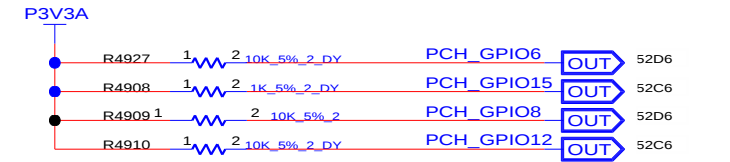
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

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GPIO

CPU/MISC

NCTF

A4 VSS_NCTF_1

A44 VSS_NCTF_2

A45 VSS_NCTF_3

A46 VSS_NCTF_4

A5 VSS_NCTF_5

A6 VSS_NCTF_6

B3 VSS_NCTF_7

B47 VSS_NCTF_8

BD1 VSS_NCTF_9

BD49 VSS_NCTF_10

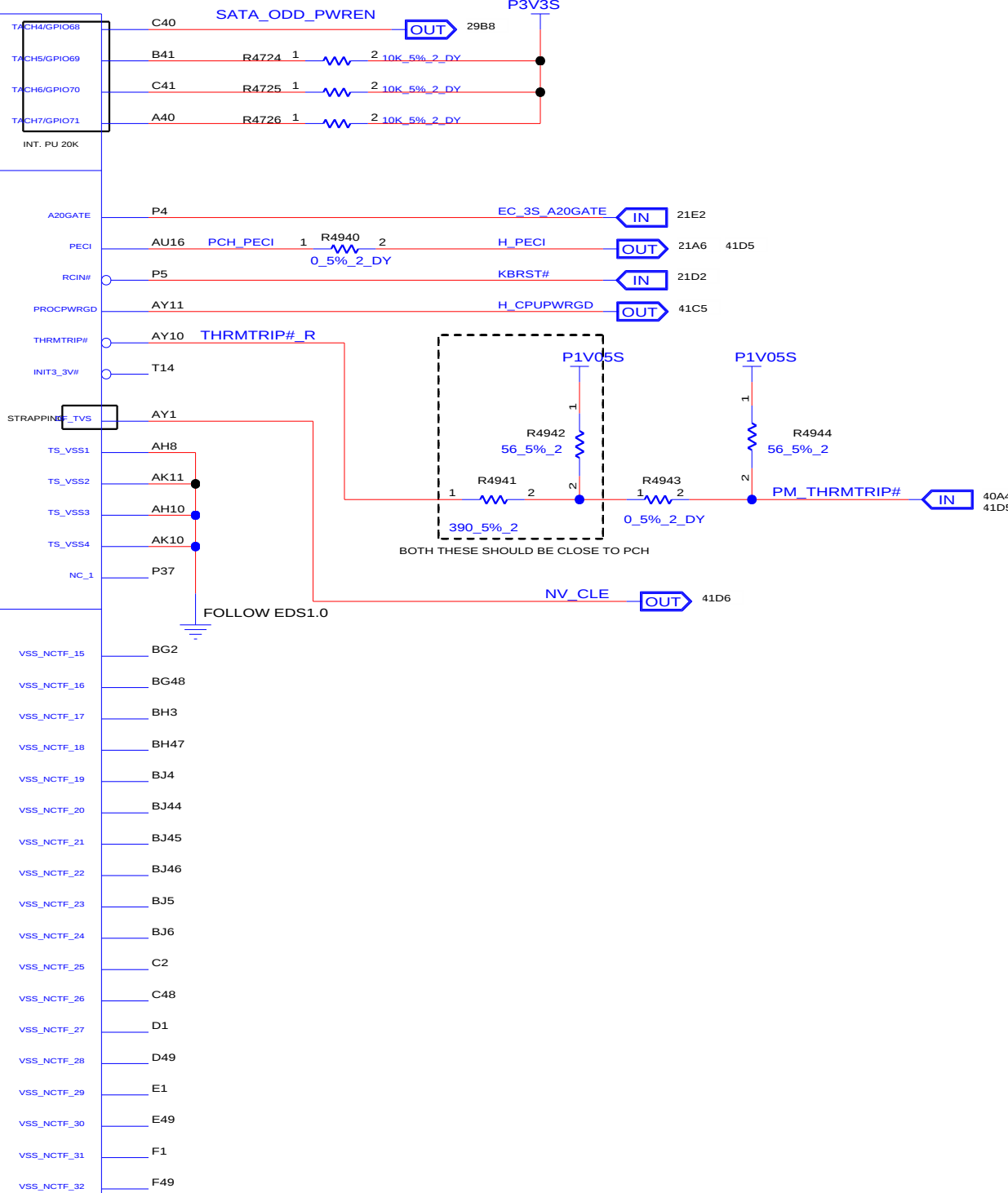
BE1 VSS_NCTF_11

BE49 VSS_NCTF_12

BF1 VSS_NCTF_13

BF49 VSS_NCTF_14

ITL_PANTHERPOINT_FCBGA_989P



INVENTEC

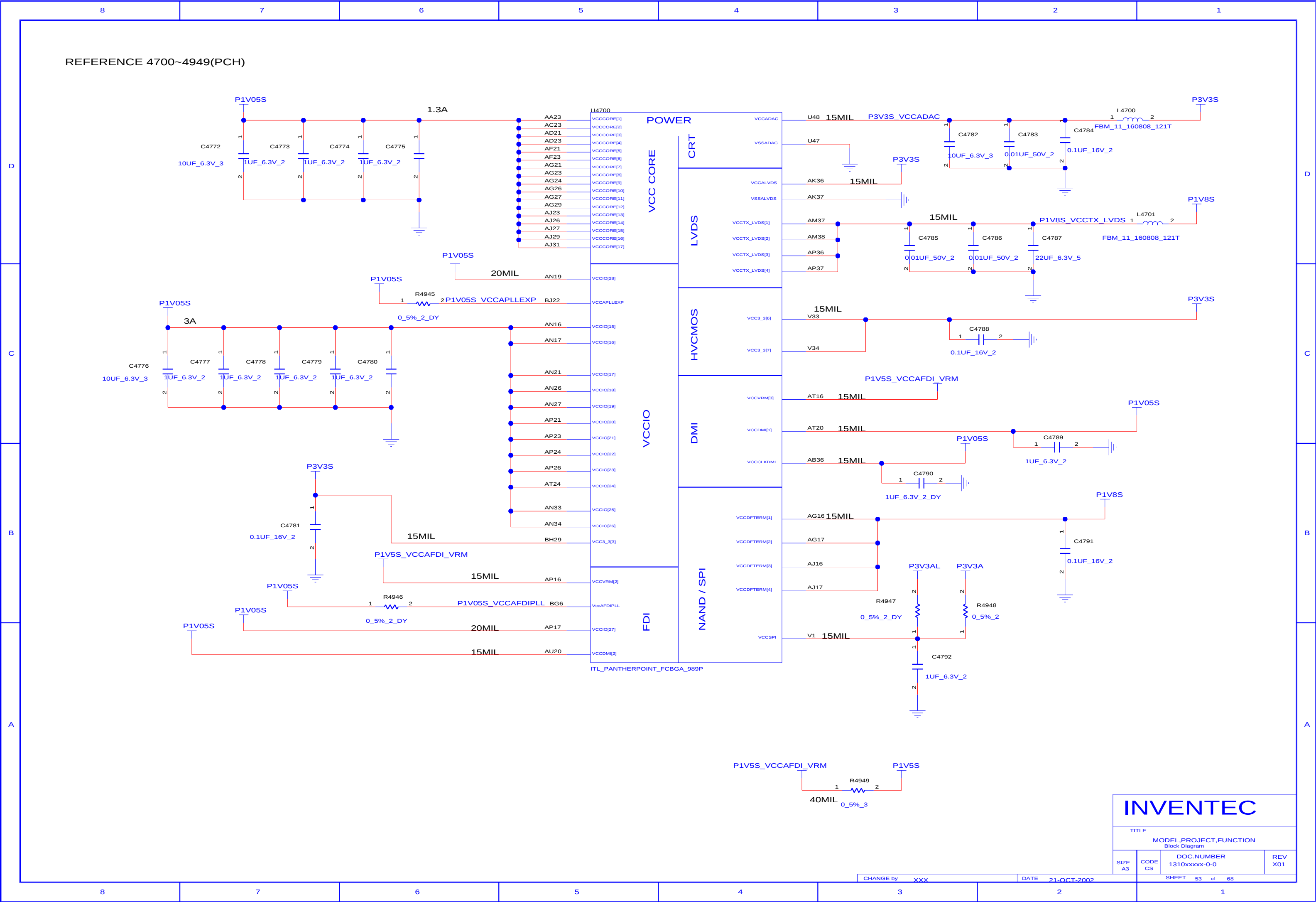
TITLE

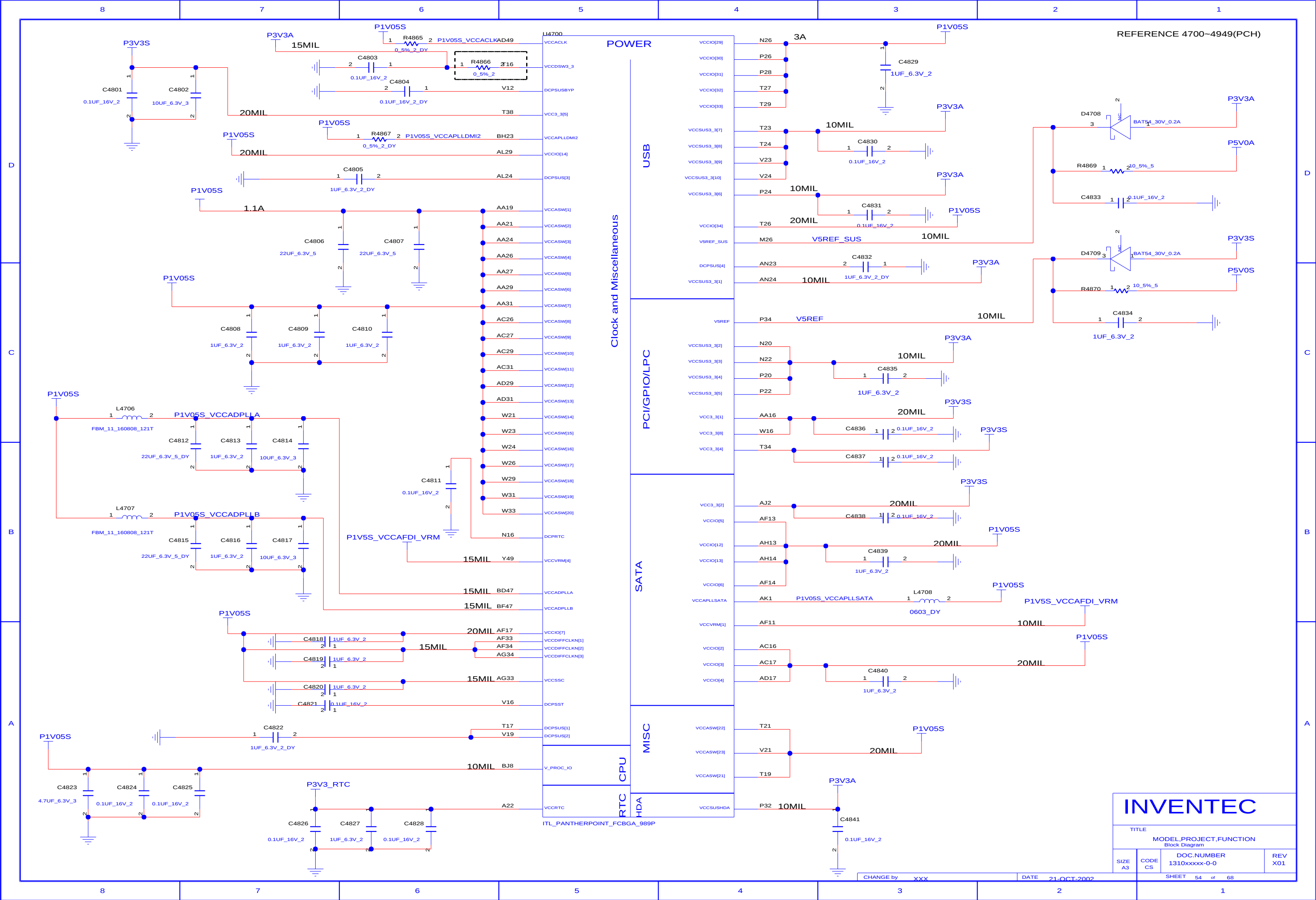
MODEL,PROJECT,FUNCTION

Block Diagram

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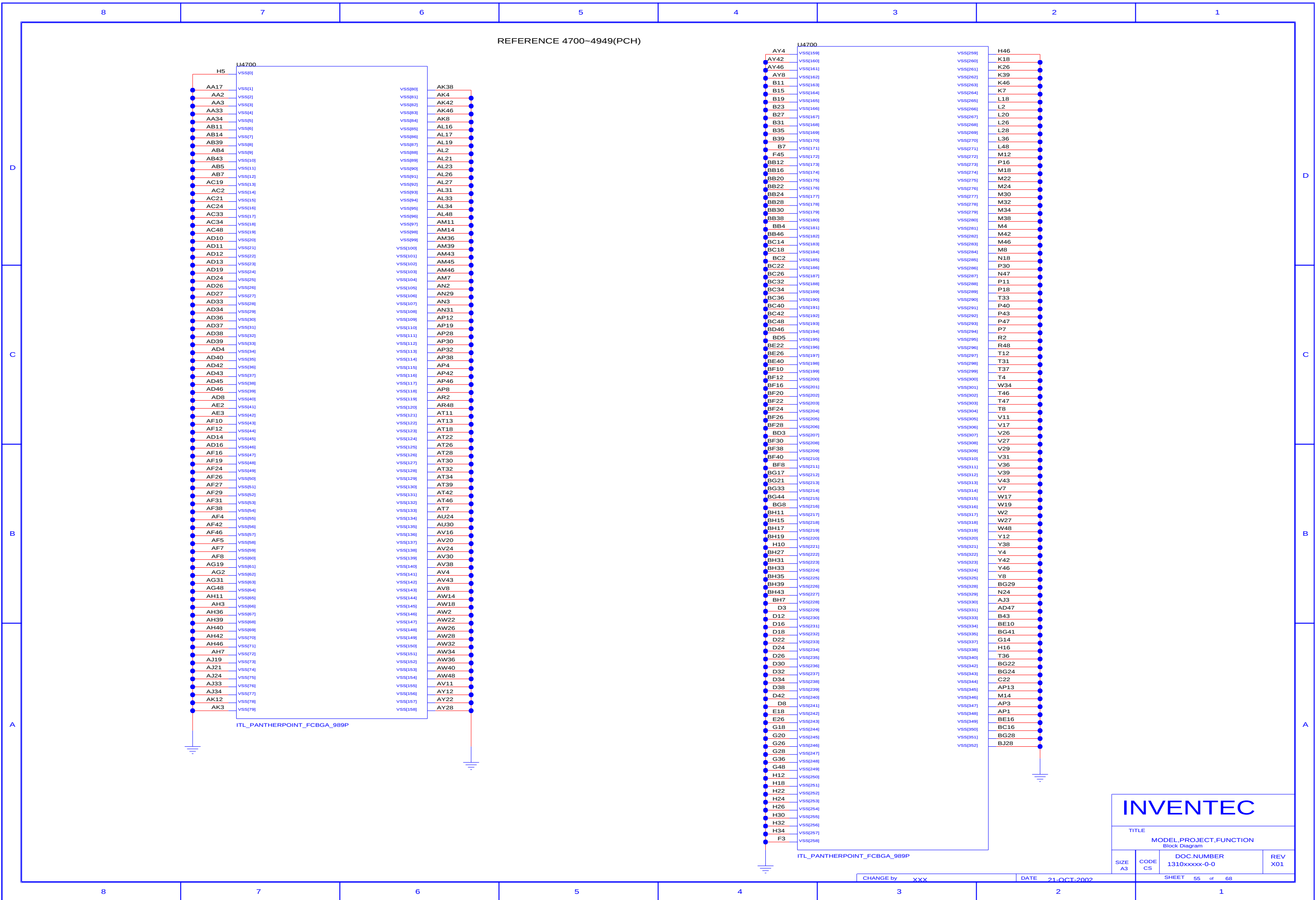


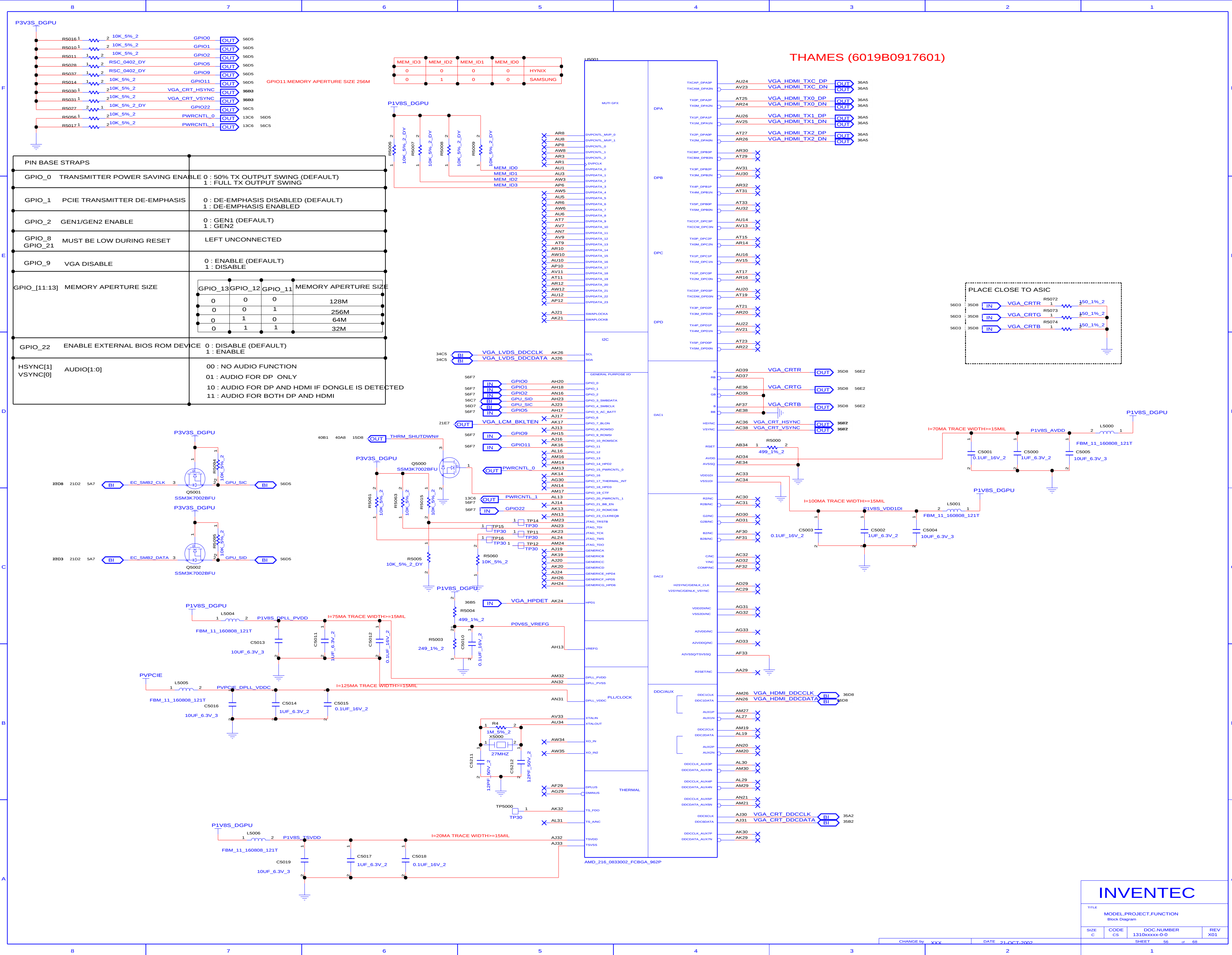


REFERENCE 4700-4949(PCH)

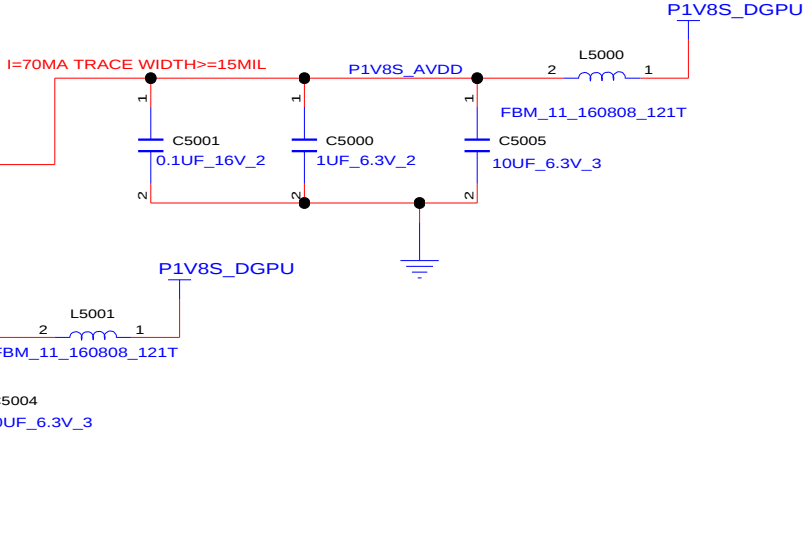
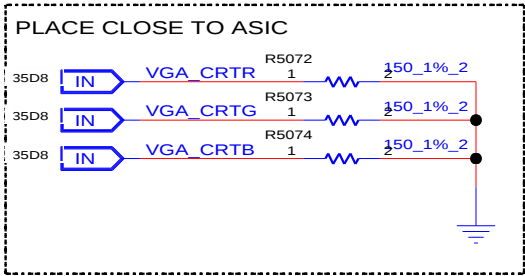
INVENTEC

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





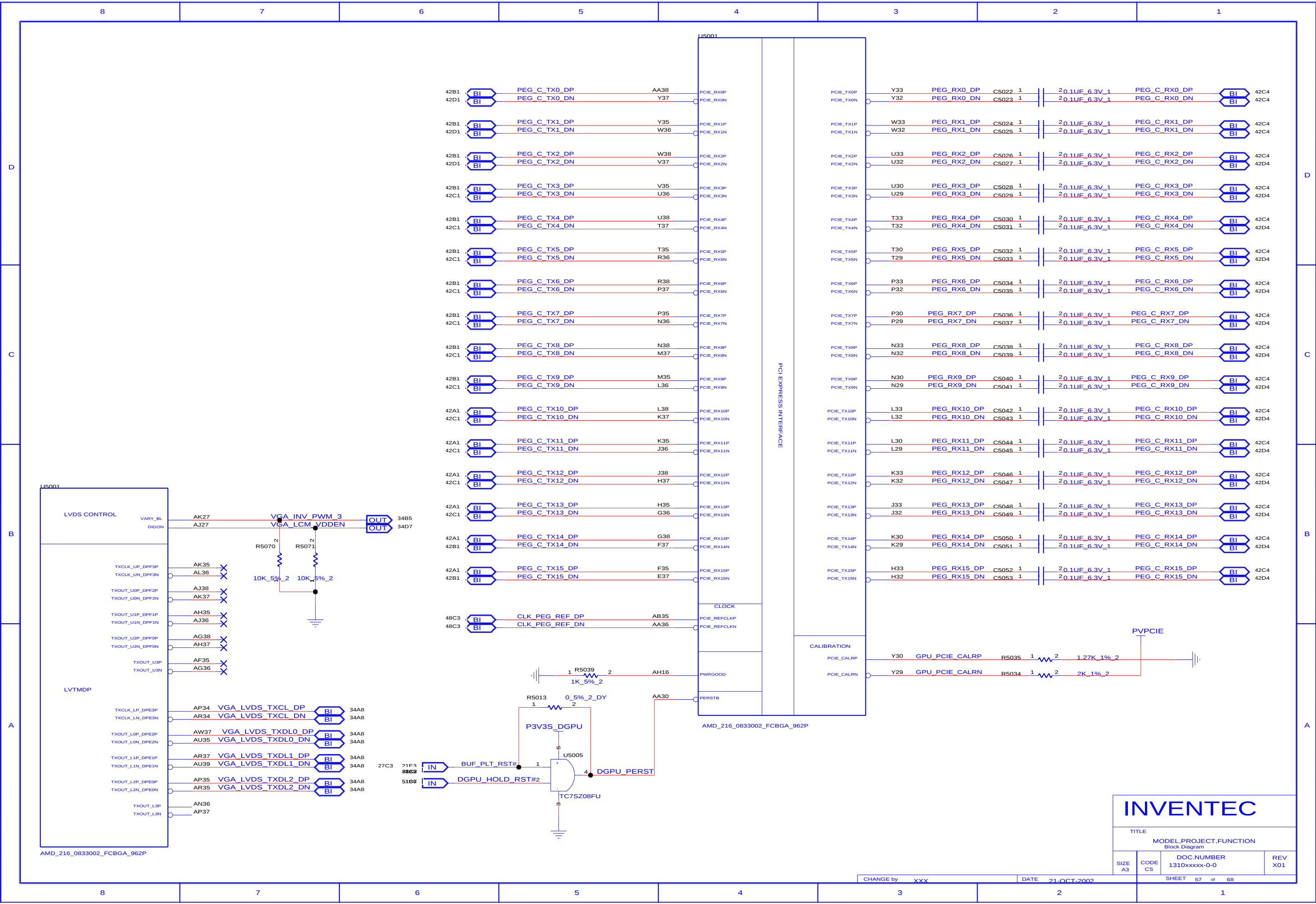
PIN BASE STRAPS	
GPIO_0	TRANSMITTER POWER SAVING ENABLE 0 : 50% TX OUTPUT SWING (DEFAULT)
	1 : FULL TX OUTPUT SWING
GPIO_1	PCIE TRANSMITTER DE-EMPHASIS 0 : DE-EMPHASIS DISABLED (DEFAULT)
	1 : DE-EMPHASIS ENABLED
GPIO_2	GEN1/GEN2 ENABLE 0 : GEN1 (DEFAULT)
	1 : GEN2
GPIO_8 GPIO_21	MUST BE LOW DURING RESET LEFT UNCONNECTED
GPIO_9	VGA DISABLE 0 : ENABLE (DEFAULT)
	1 : DISABLE
GPIO_[11:13] MEMORY APERTURE SIZE	GPIO_13GPIO_12GPIO_11MEMORY APERTURE SIZE
	000128M
	001256M
	01064M
	01132M
GPIO_22	ENABLE EXTERNAL BIOS ROM DEVICE 0 : DISABLE (DEFAULT)
	1 : ENABLE
HSYNC[1] VSYNC[0] AUDIO[1:0]	00 : NO AUDIO FUNCTION
	01 : AUDIO FOR DP ONLY
	10 : AUDIO FOR DP AND HDMI IF DONGLE IS DETECTED
	11 : AUDIO FOR BOTH DP AND HDMI



INVENTEC

TITLE			
MODEL_PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
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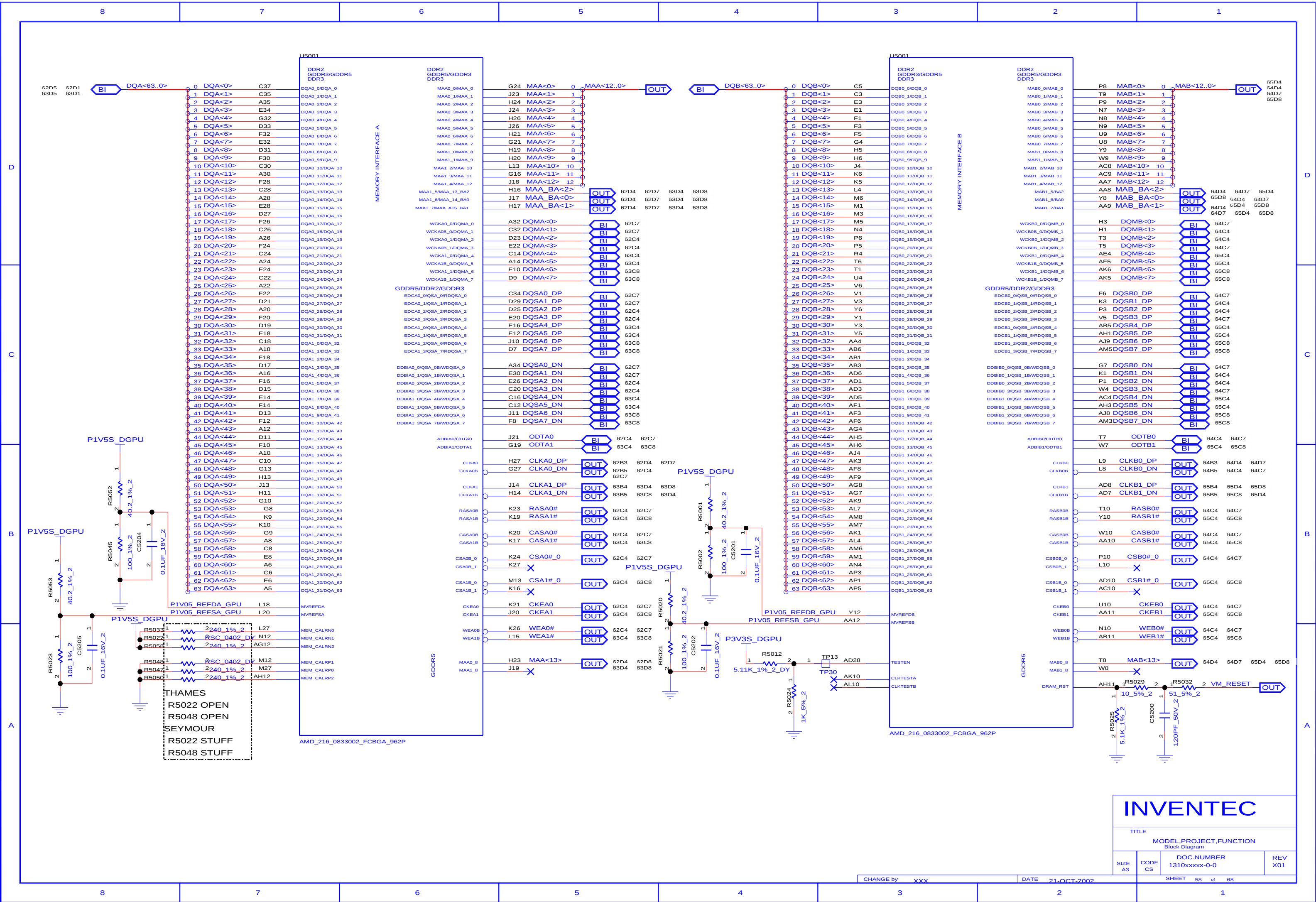


INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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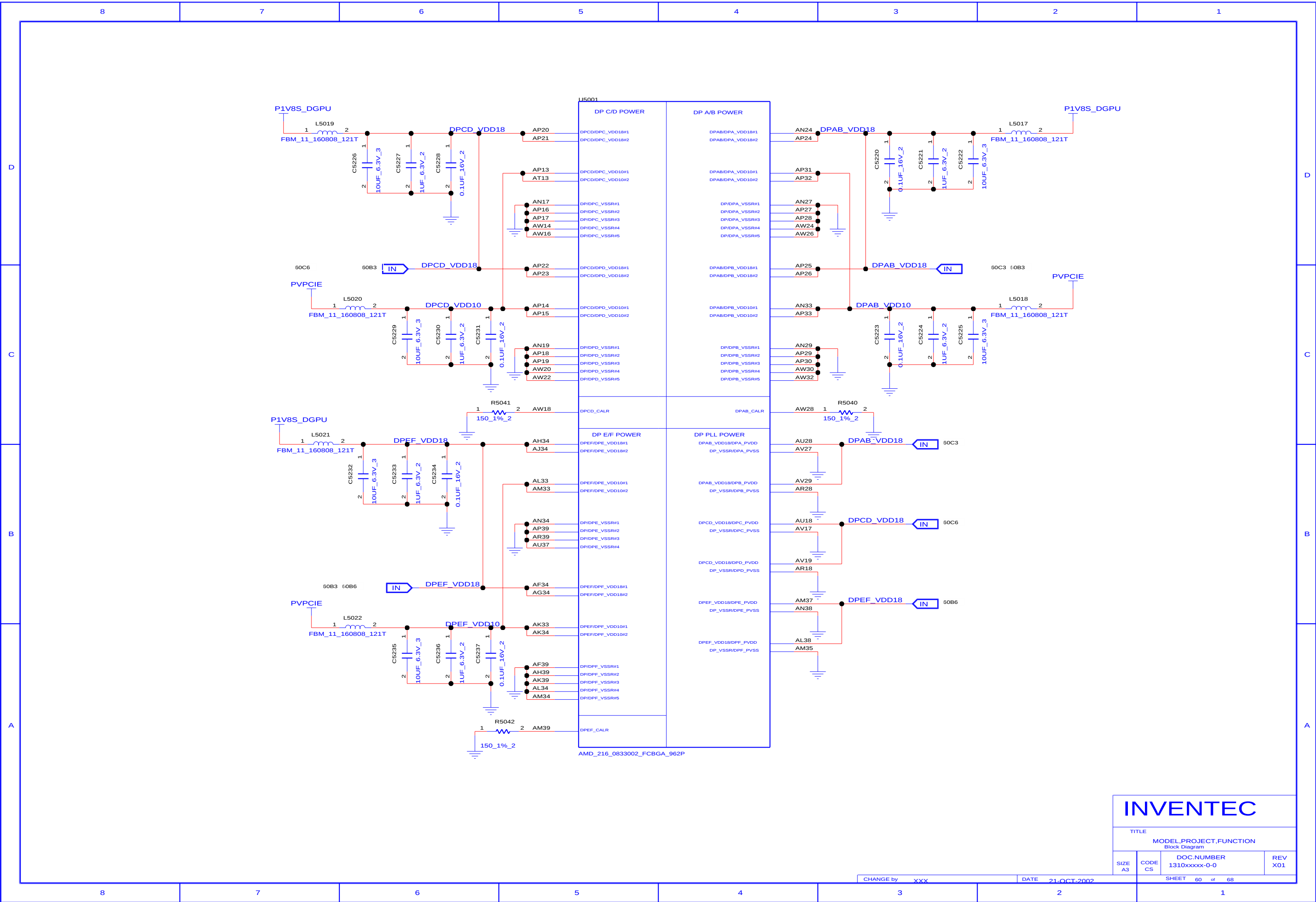
INVENTEC

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 58 of 68



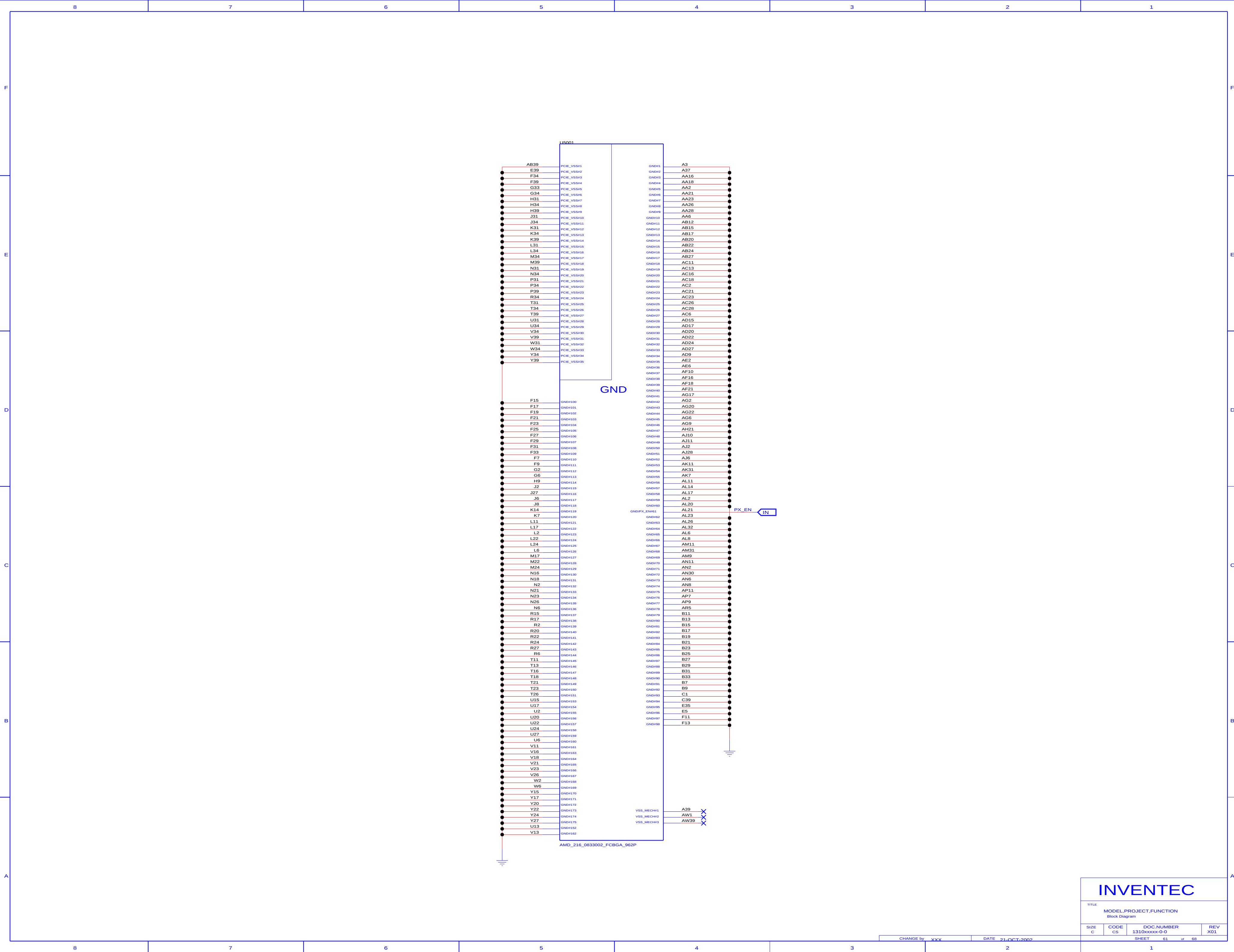
INVENTEC

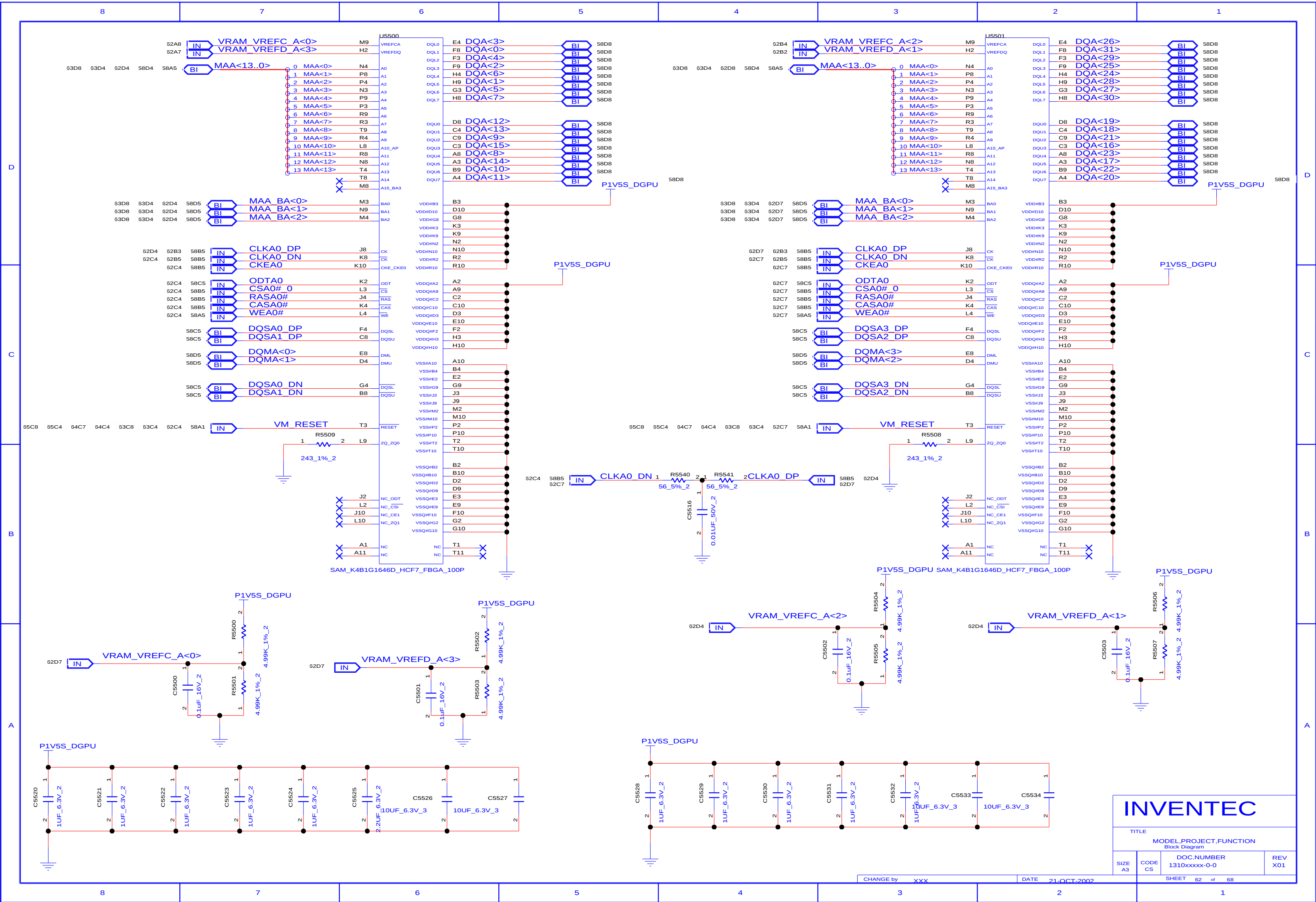
TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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

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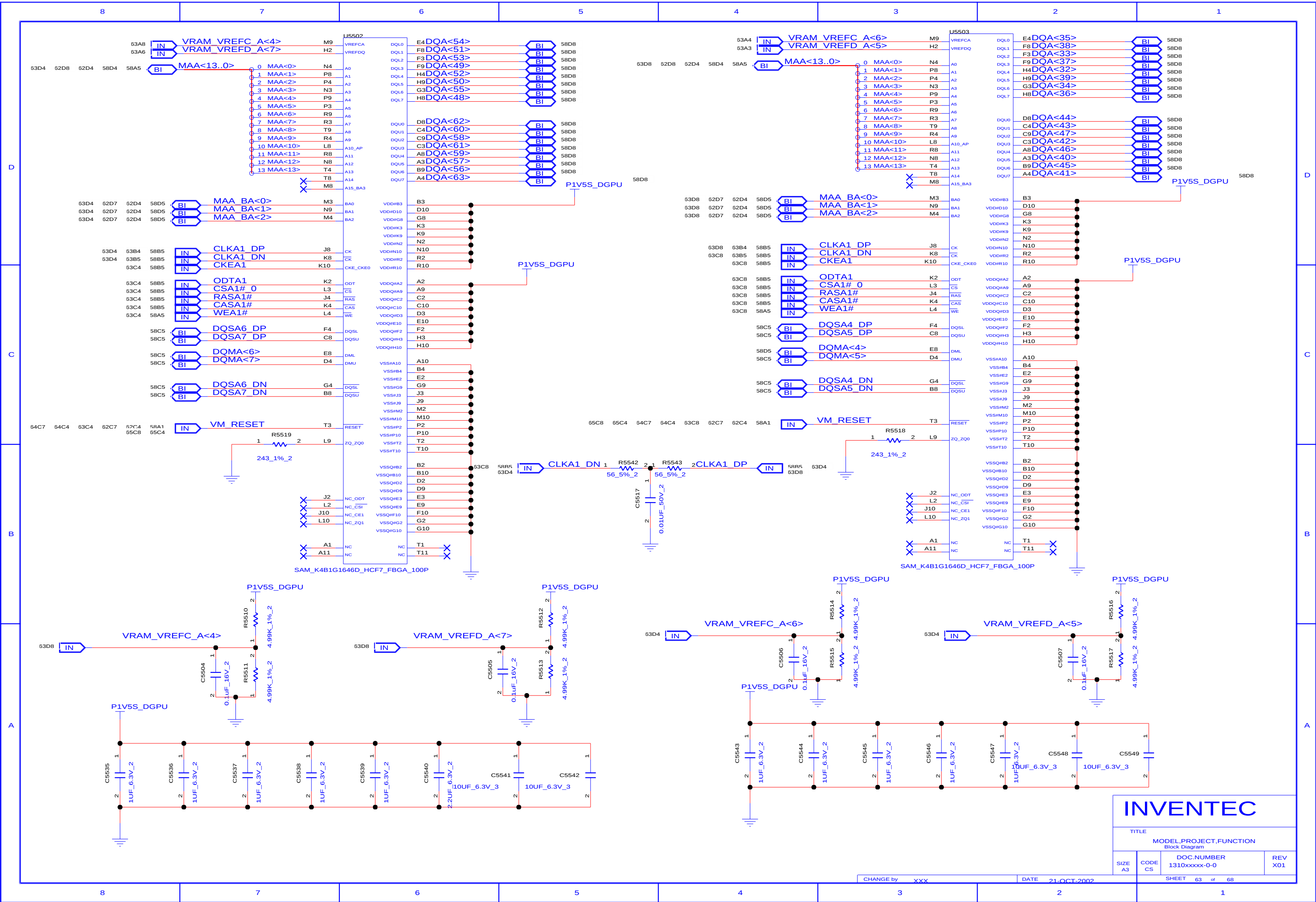


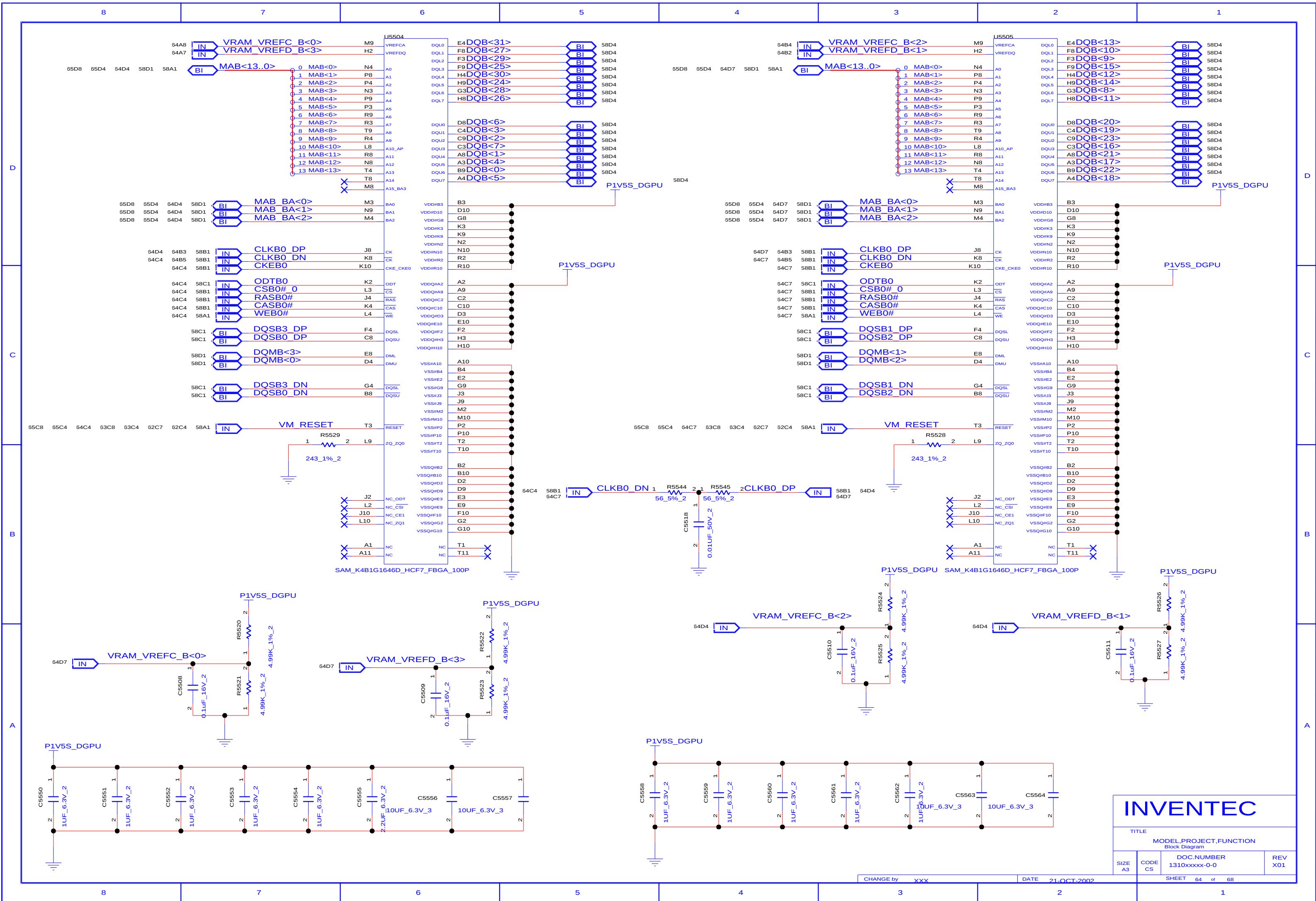
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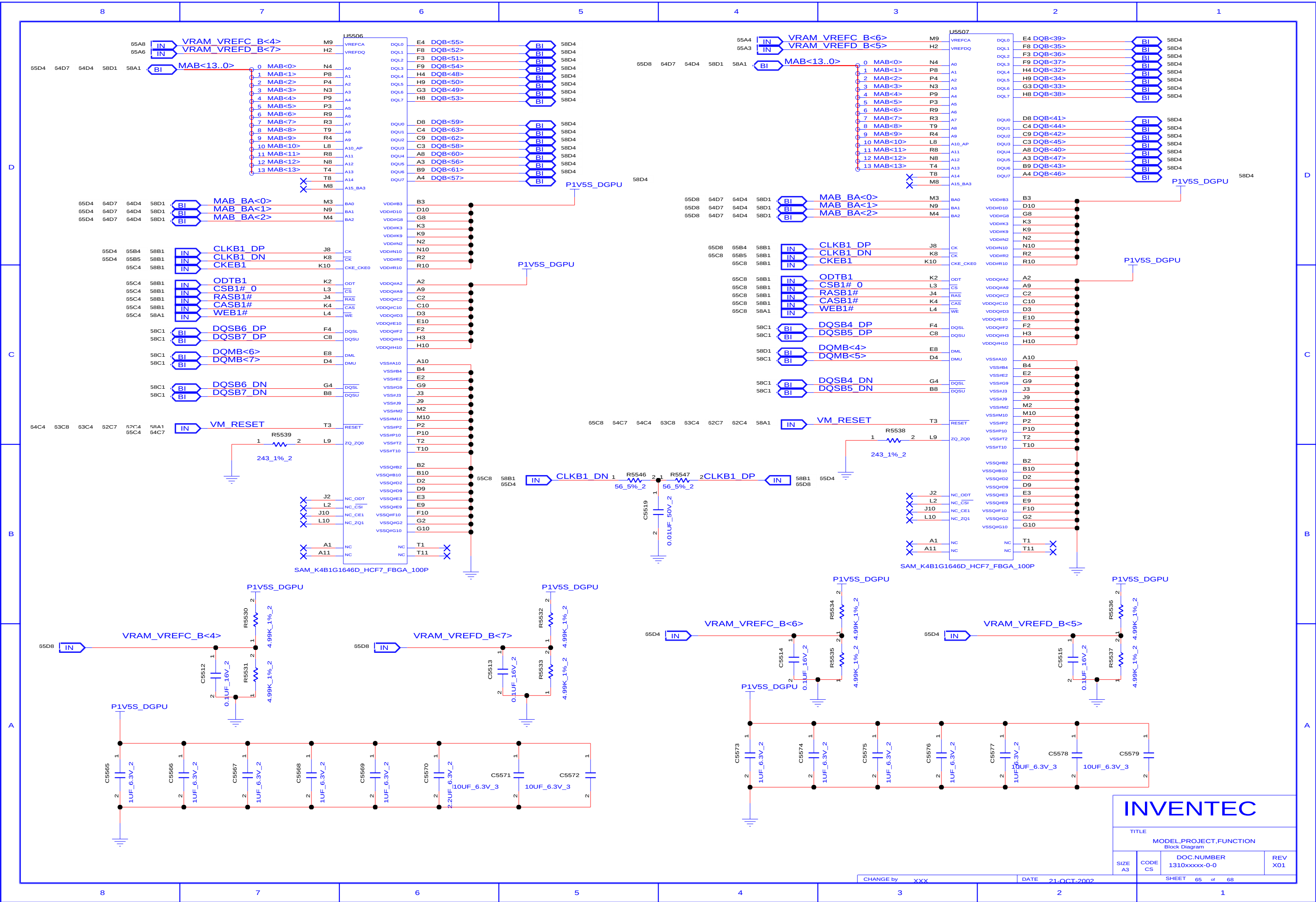
TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

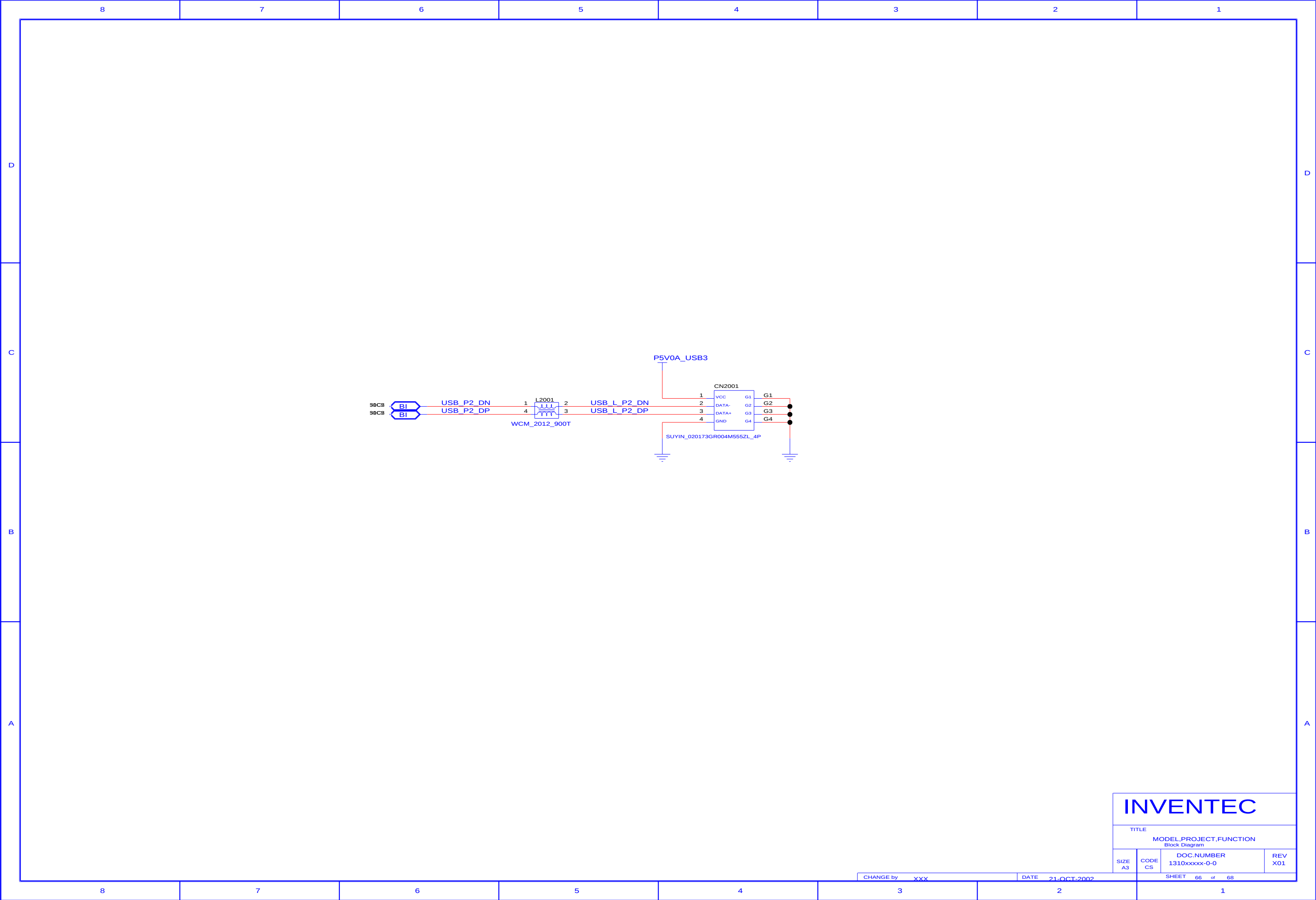
SIZE A3	CODE CS	DOC. NUMBER 1310xxxx-0-0	REV X01
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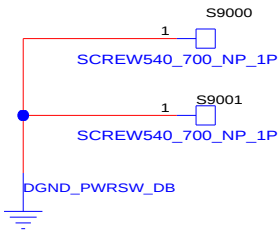
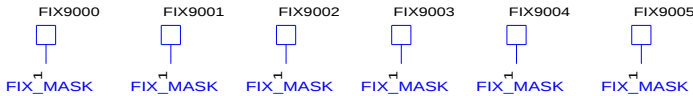
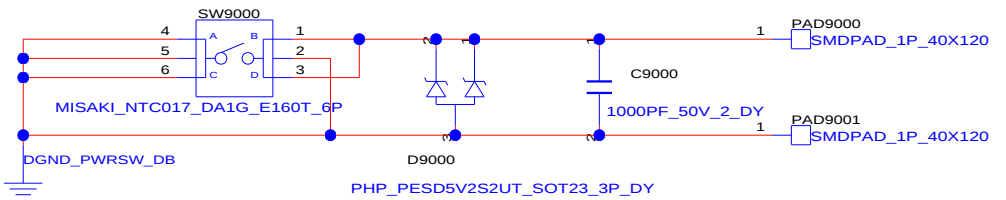






REFERENCE 9000~9999(SMALL BOARD)

POWER BUTTON



INVENTEC			
TITLE MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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8		7		6		5		4		3		2		1	
D															
C															
B															
A															
8		7		6		5		4		3		2		1	

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