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HSF Property:ROHS or Halogen-Free

1310A2548301 (SAMSUNG) R5061 CHANGE TO 6013A0107901 (45.3K OHM)
1310A2548302 (MICRON) R5061 CHANGE TO 6013A0017501 (30.1K OHM)

15CR-U-SI-1022

2012.10.22

Chief River						
UMA	DIS					
PGA 35W(dual)-HM77						
NA	N14P-GV2 23*23				N14P-GT 29*29	
NA	900MHz 256Mx16 DDR3 4pcs (2G)		900MHz 256Mx16 DDR3 8pcs (4G)		1GHz 128Mx16 GDDR5 8pcs (2G)	
	Samsung K4W4G1646B-HC11	Micron MT41K256M16HA-107G:E	Samsung K4W4G1646B-HC11	Micron MT41K256M16HA-107G:E	Hynix H5GQ2H24AFR-T2C	Samsung K4G20325FD-FC04
6050A2548201	6050A2548301				6050A2548401	
PCB-1(6L)	PCB-2 (8L)				PCB-3 (8L)	
1310A2548201	1310A2548301	1310A2548302	1310A2548303	1310A2548304	1310A2548401	1310A2548402

USB BOARD (6L) 1310A2548501 6050A2548501
POWER BOARD (6L) 1310A2548701 6050A2548701
POWER BOARD (8L) 1310A2548801 6050A2548801
USB BOARD (8L) 1310A2548601 6050A2548601

Location	Part number	Factory	Manufacturer Part No	Marking
D300	1st : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	L4
Q300	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
	2nd : 6015B0142901	DIODES	DMN65D8LV-7	MM3
Q301	1st : 6019B0932401	MXIC	MX25L512EM-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25FS128-SSH-T	
U301	1st : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	
U301	1st : 6019B0959901	WINBOND	W25Q64FVSSIG	
8MB	2nd : 6019B0813101	MXIC	MX25L6406EM2I-12G	

2012/5/02	DB	X01
21-OCT-2002		
DATE	CHANGE NO.	REV

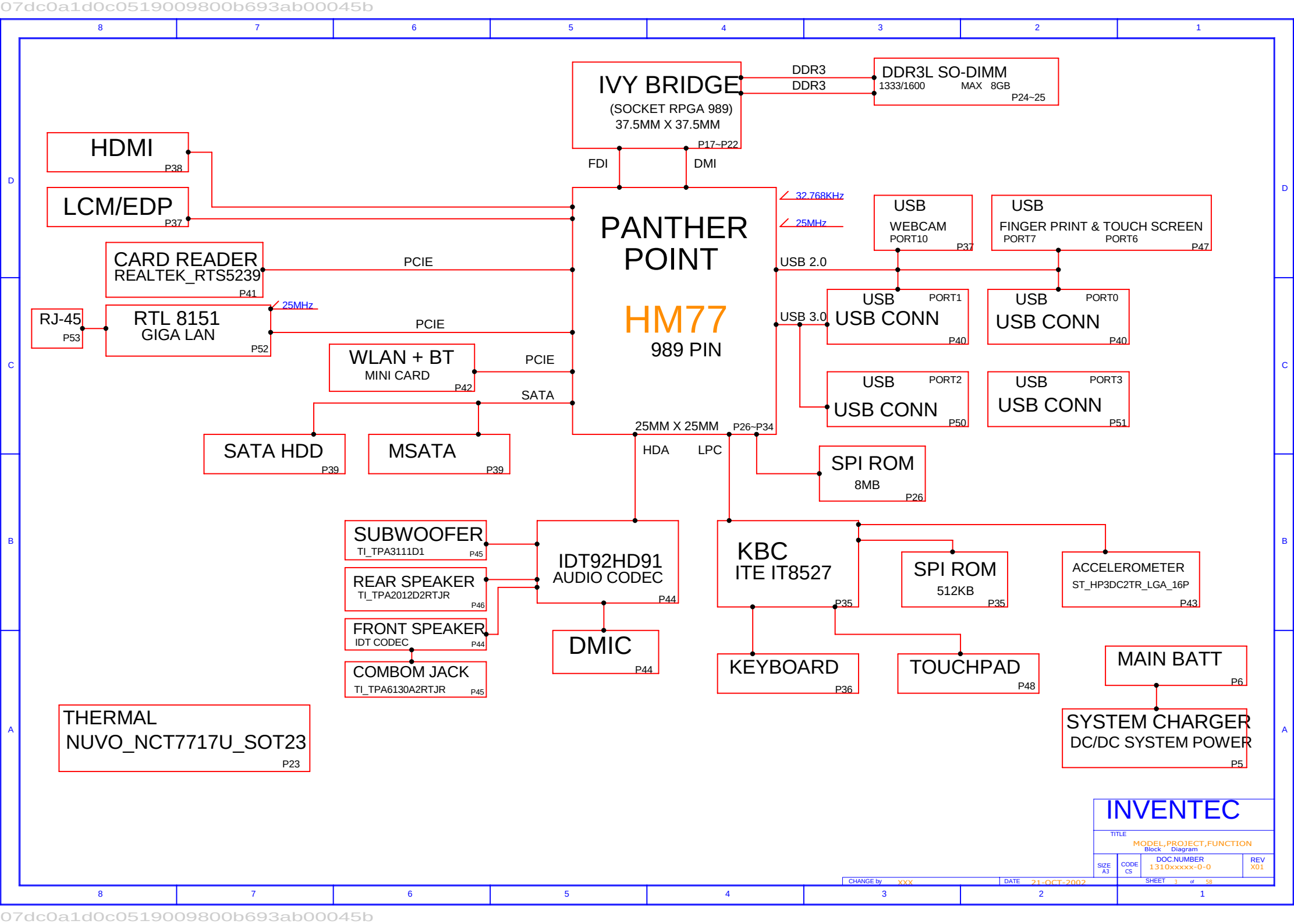
DRAWER		EE	DATE	POWER	DATE	INVENTEC			
DESIGN		Abel				FILE MODEL,PROJECT,FUNCTION			
CHECK		Alan				Main Board			
RESPONSIBLE									
SIZE						SIZE	CODE	DOC NUMBER	REV
FILE NAME						C	CS	1310XXXXX-D-0	X01
PIN		XXXX				SHEET		1 of 58	

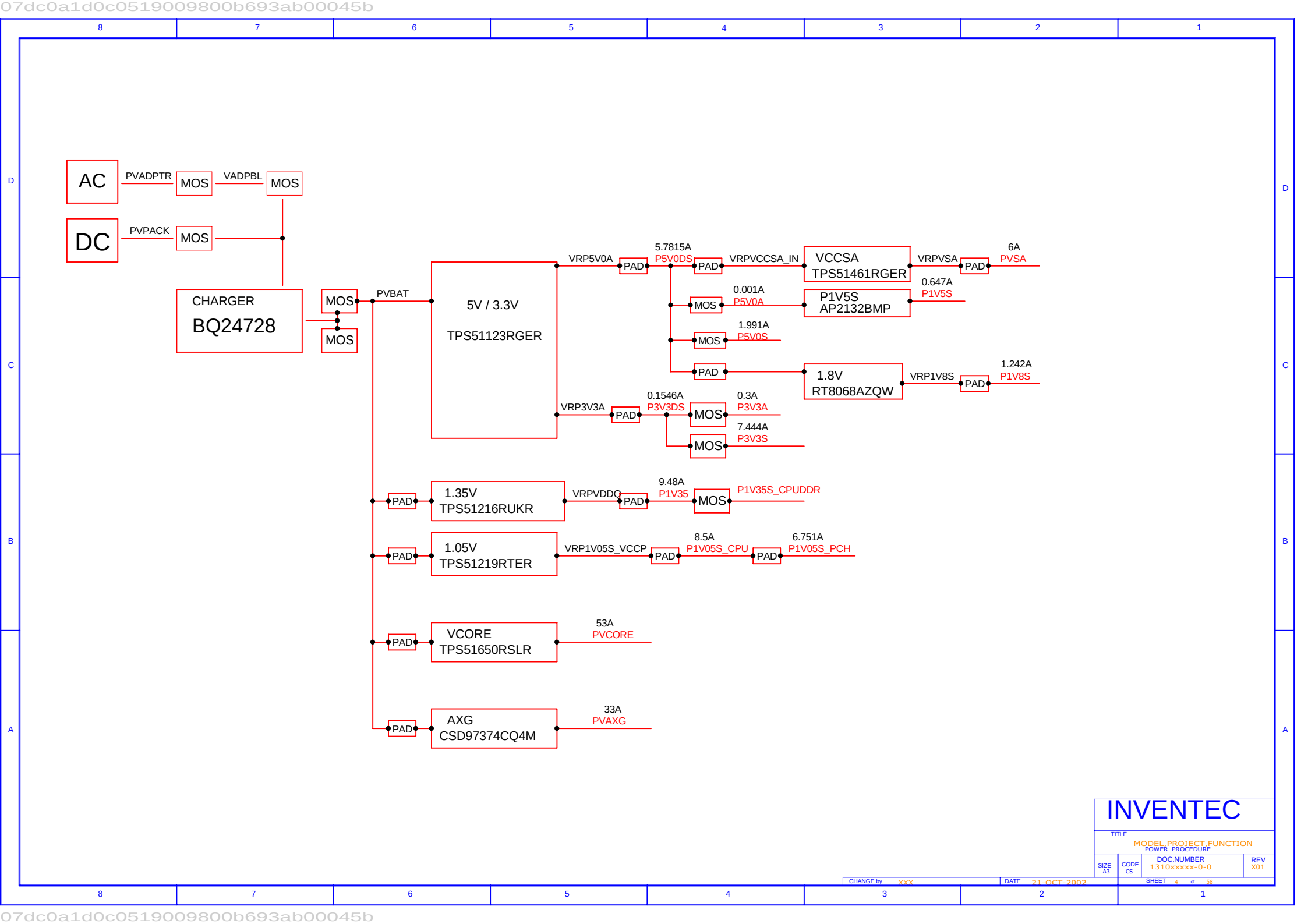
Index

1 COVER	26 PCH1 RTC,HDA,SPI,LPC.SATA	51 AUB_USB30-2
2 INDEX	27 PCH2 CLK,SMBUS,PCI-E	52 LAN_RLT8161GSH-CG
3 BLOCK DIAGRAM	28 PCH3 DMI,FDI,SPM	53 TRANSFORMER & RJ45
4 POWER PROCEDURE	29 PCH4 LVDS,CRT	54 JACK
5 SELECTOR	30 PCH5 PCI,USB	55 DAUGHTER BOARD
6 CHARGER	31 PCH6 GPIO,CPU/MISC	56 ESD BOARD
7 P3V3_P5V0	32 PCH7 POWER	57 POWER SEQUENCE
8 PVDDQ	33 PCH8 POWER	58 POWER SEQUENCE2
9 P1V0S_VCCP	34 PCH9 GND	
10 P1V8S	35 EC IT8527	
11 P1V5S	36 KB CONN & LED	
12 PVSA	37 40 PIN LCM	
13 PVCORE1	38 HDMI	
14 PVCORE2	39 SATA HDD & MSATA	
15 POWER TO EE PORT & EMI PART	40 USB3.0 CONN	
16 P5V0S & P3V3S	41 CARD READER	
17 CPU1	42 WLAN	
18 CPU2_EDP & FDI & DMI & PCIE_GPU	43 G-SENSOR	
19 CPU3	44 AUDIO-1	
20 CPU4	45 AUDIO-2	
21 CPU5	46 AUDIO-3	
22 CPU6	47 FINGER PRINT	
23 THERMAL & FAN	48 MB TO DB CONN & SCREW	
24 DDR3-1	49 AUB_BLANK	
25 DDR3-2	50 AUB_USB30-1	

INVENTEC

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





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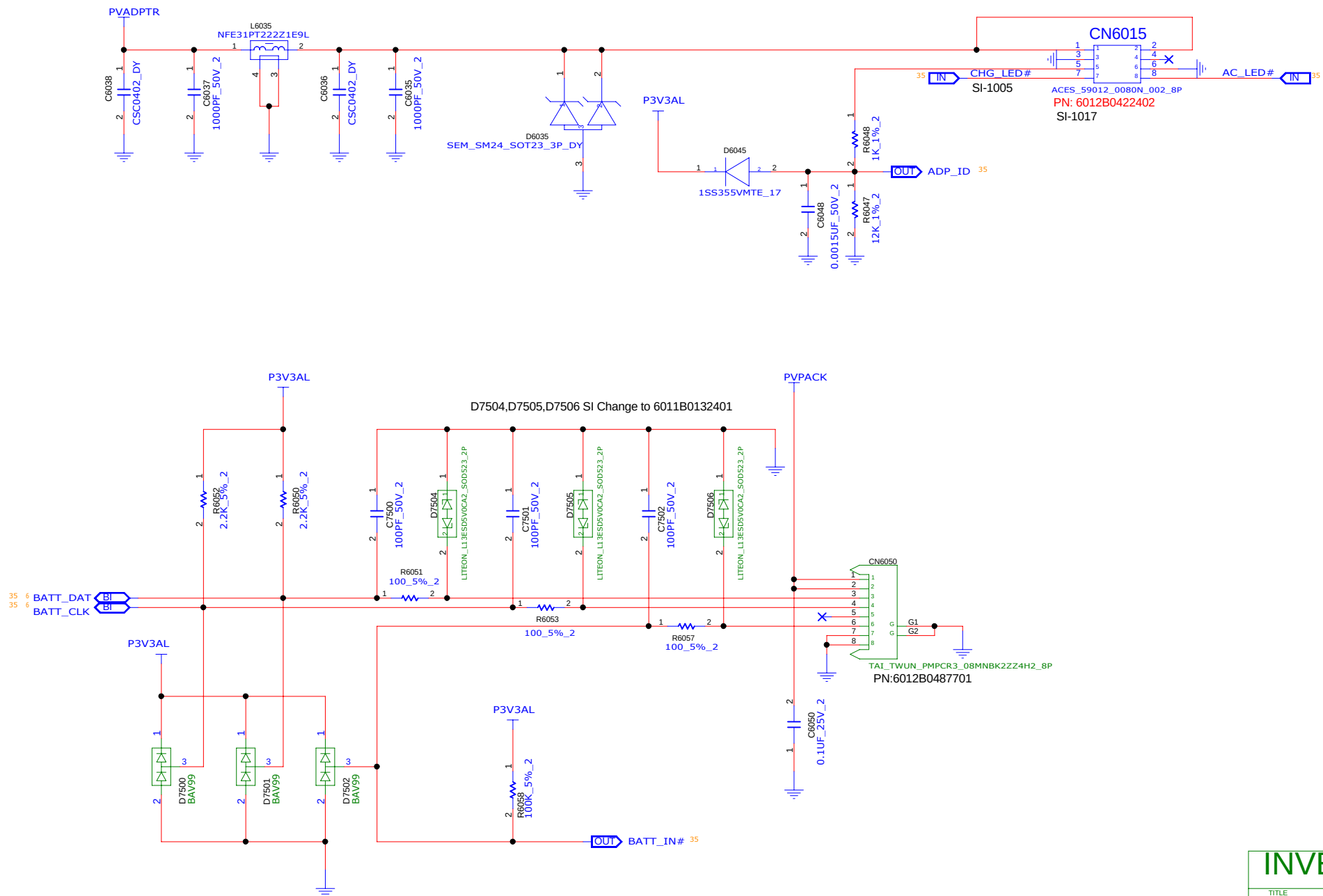
A

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**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 5 of 58







VTT
ON
(High-Z)
Discharge

VTT
ON
(High-Z)
Discharge

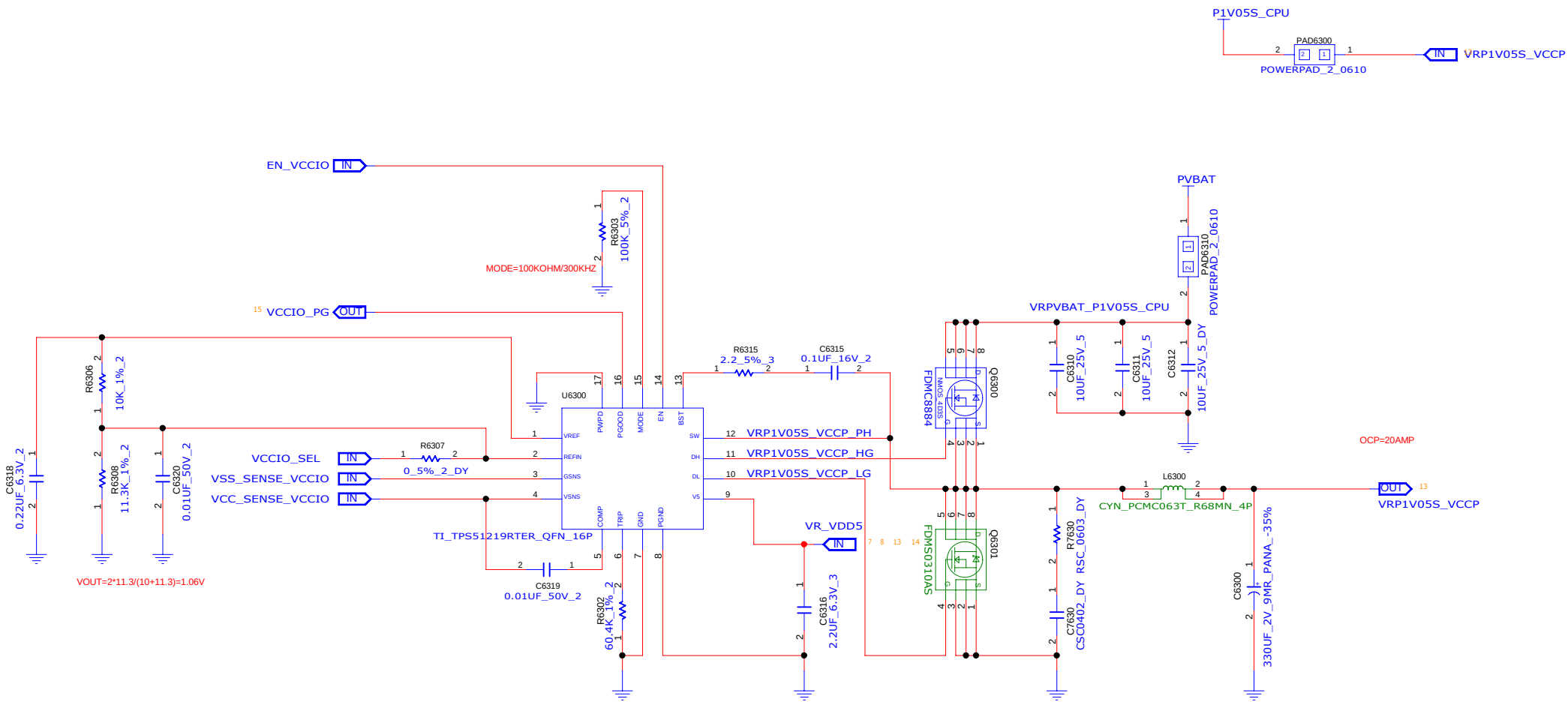
SHEET 8 of 58

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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 8 of 58

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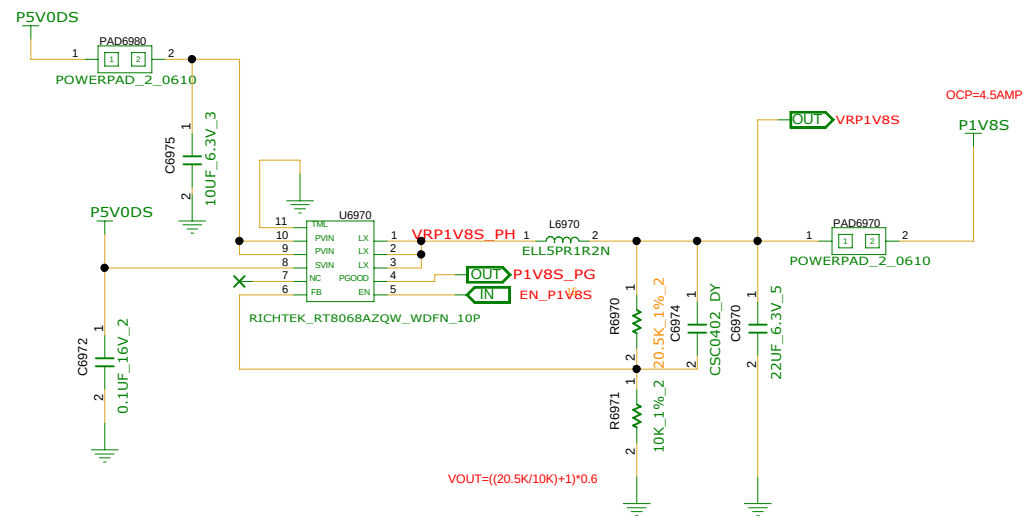
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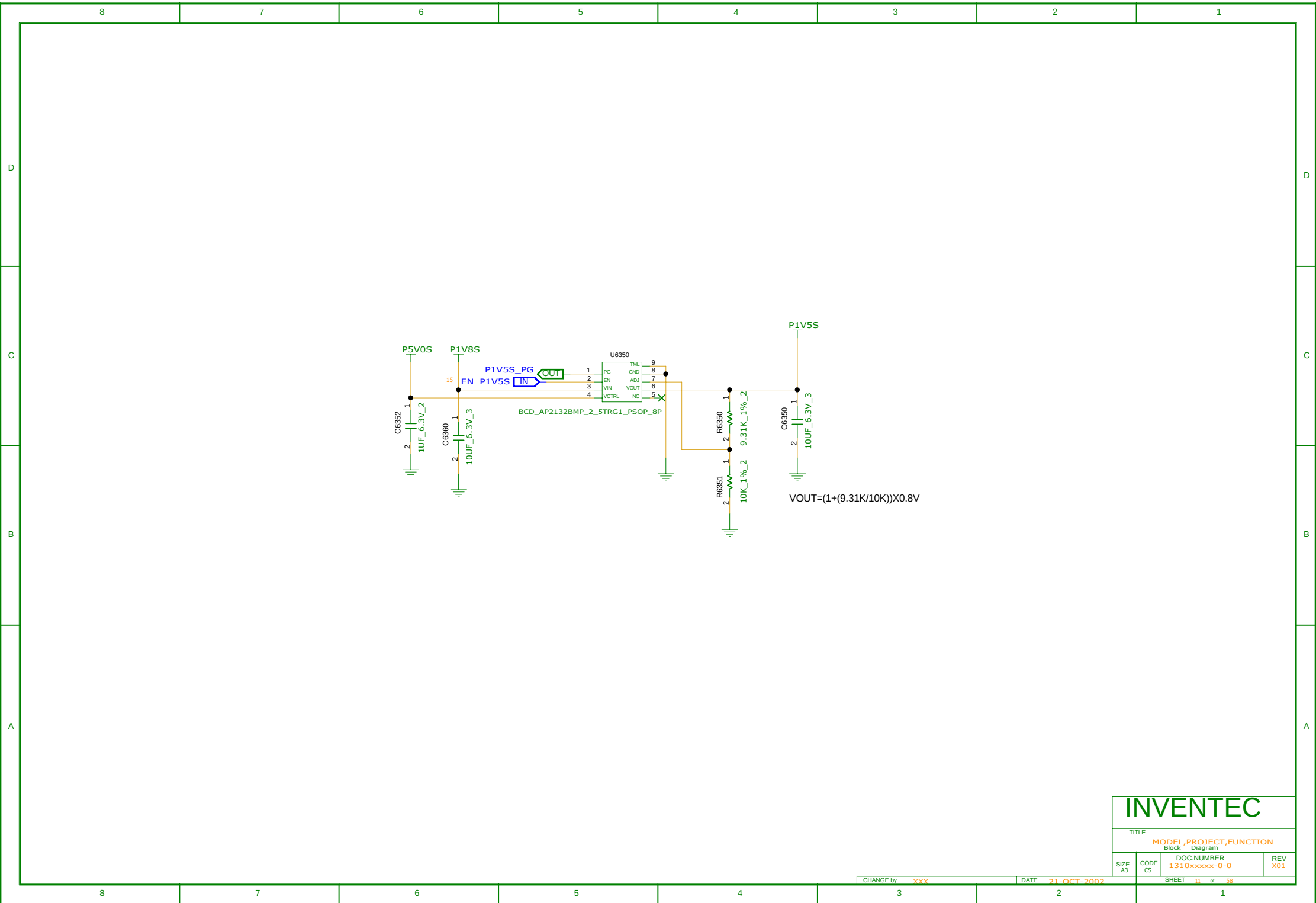
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TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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

SHEET 10 of 58



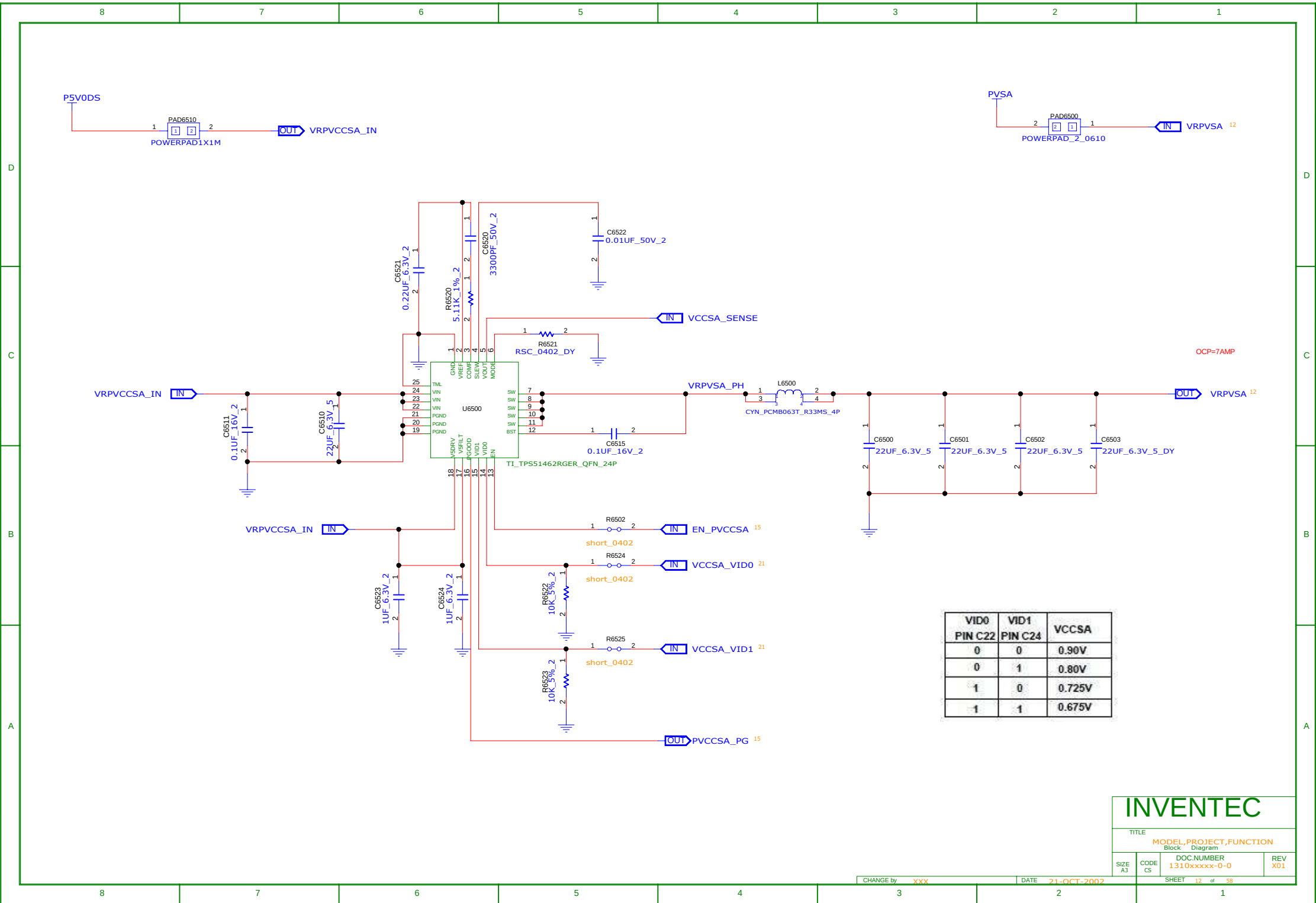
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TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

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

CHANGE by XXX DATE 21-OCT-2002

SHEET 11 of 58



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 12 of 58



D

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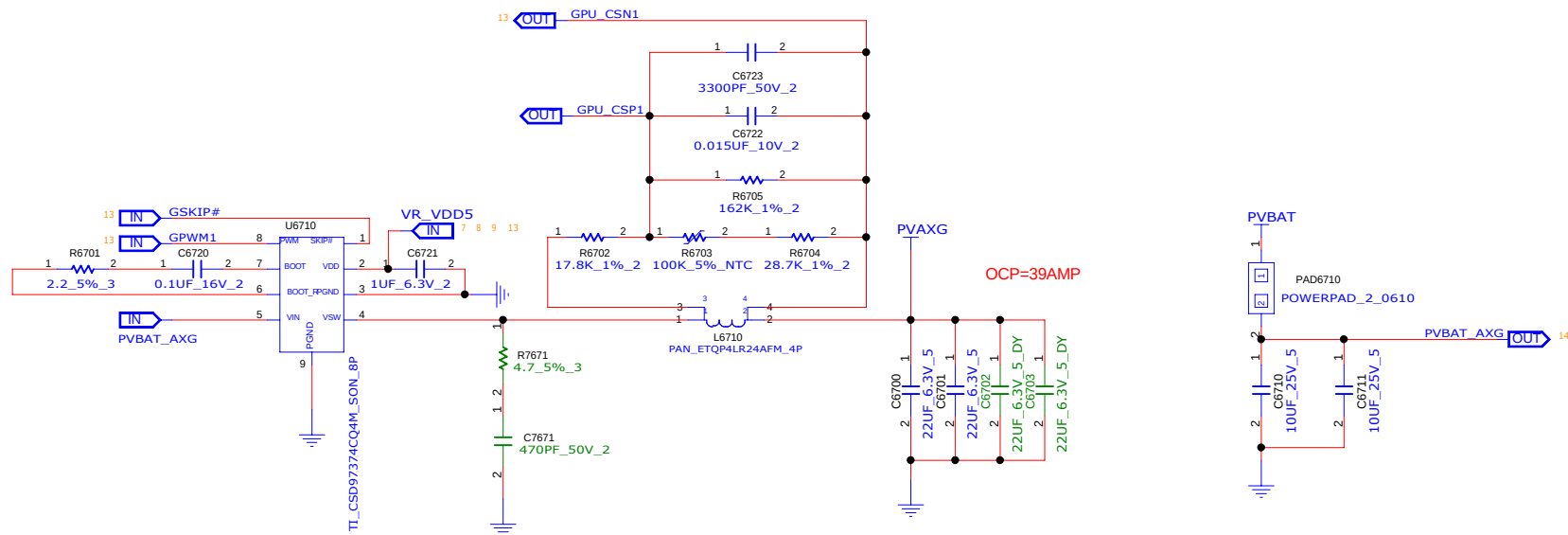
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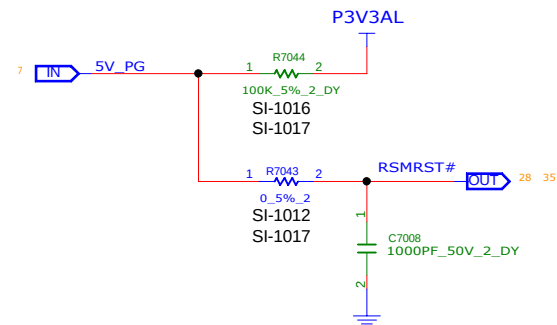
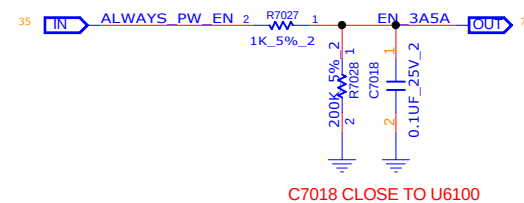
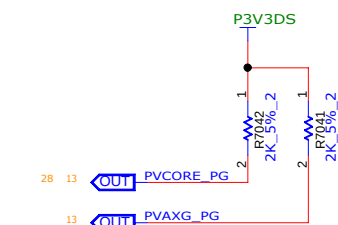
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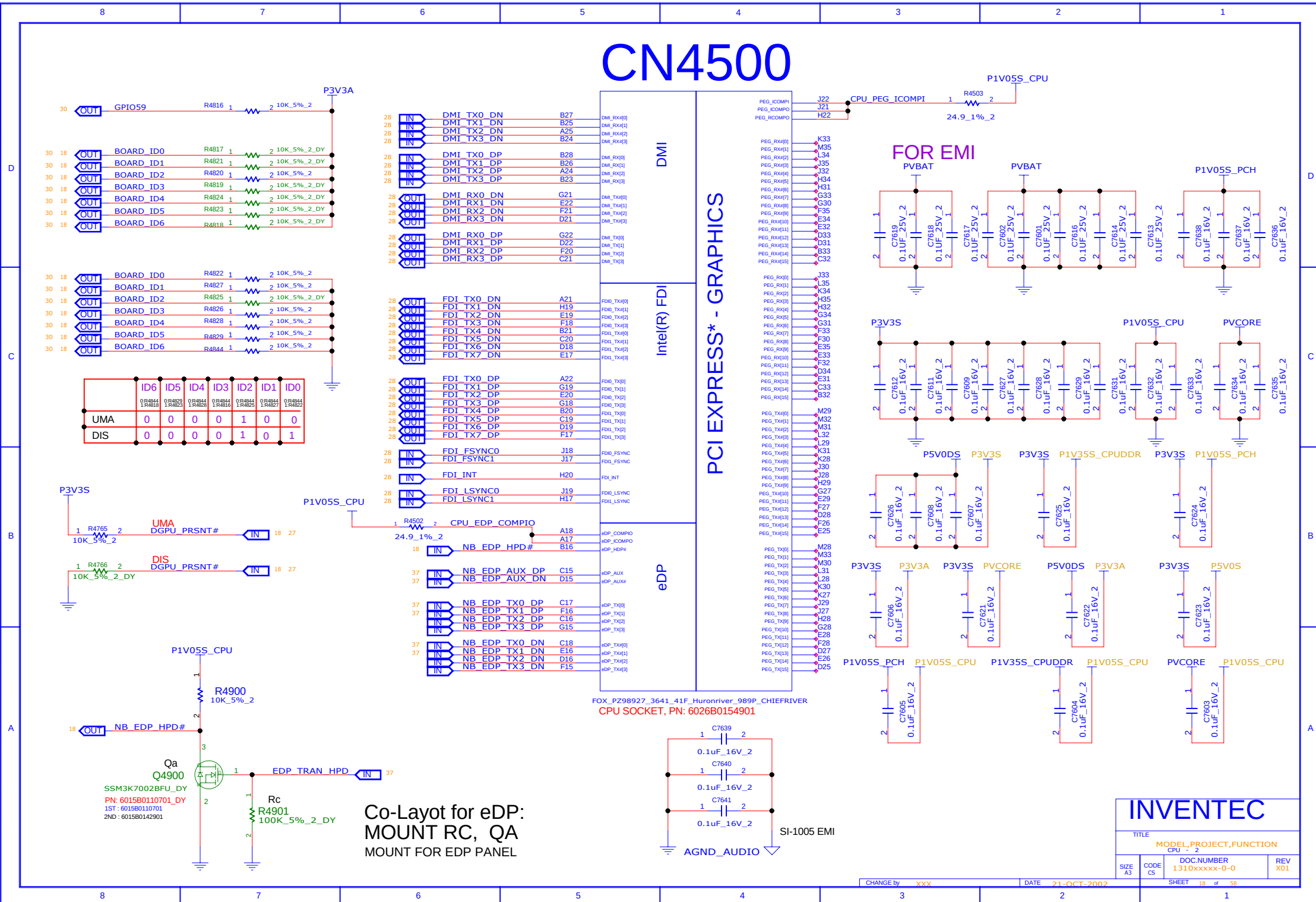
INVENTEC			
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01



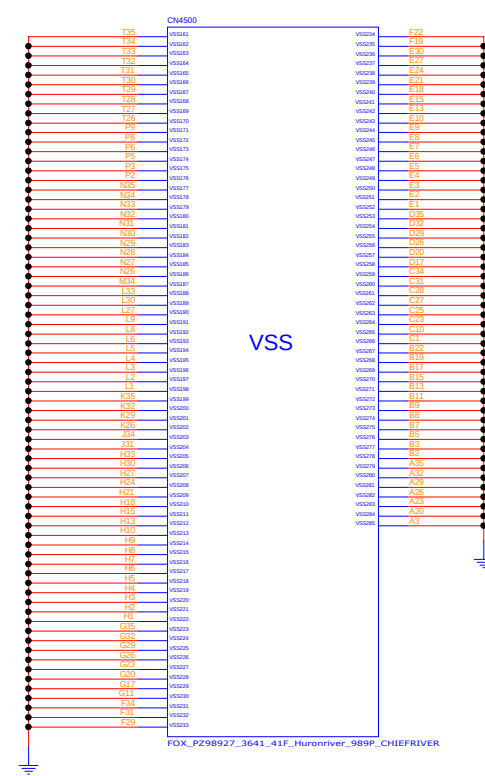
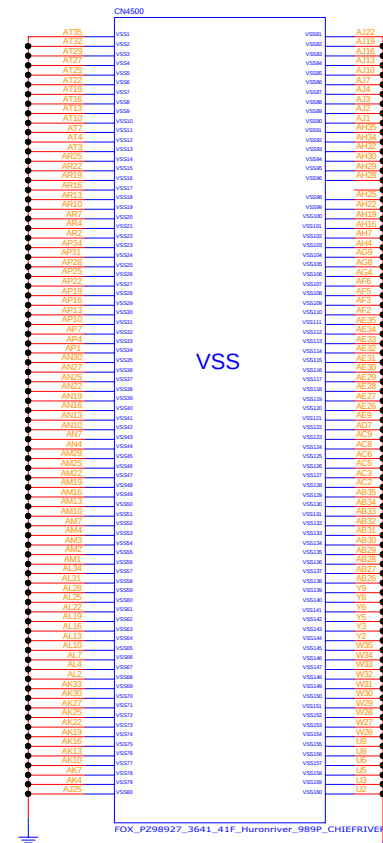
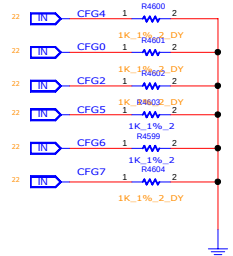
SHEET 15 of 58



CHANGE by	XXX	DATE	21-OCT-2002	SHEET	17	of	58
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21-OCT-2002



SHEET 24 of 58

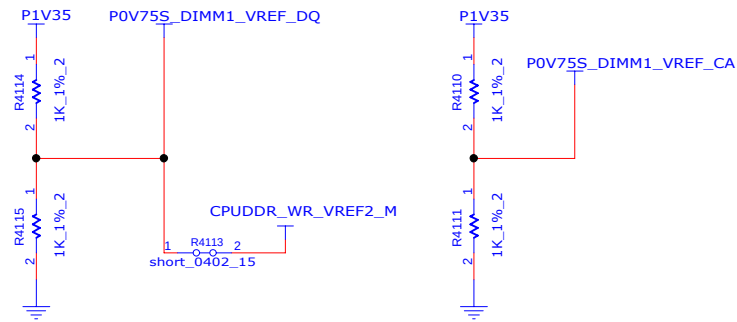
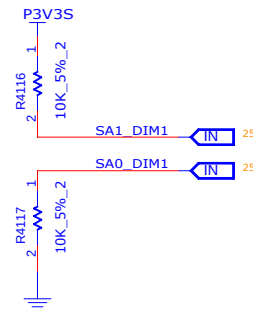
DDR3 (4MM) P/N : 6026B0216701 BOM CHANGE TO 6026B0221601

SI-1012

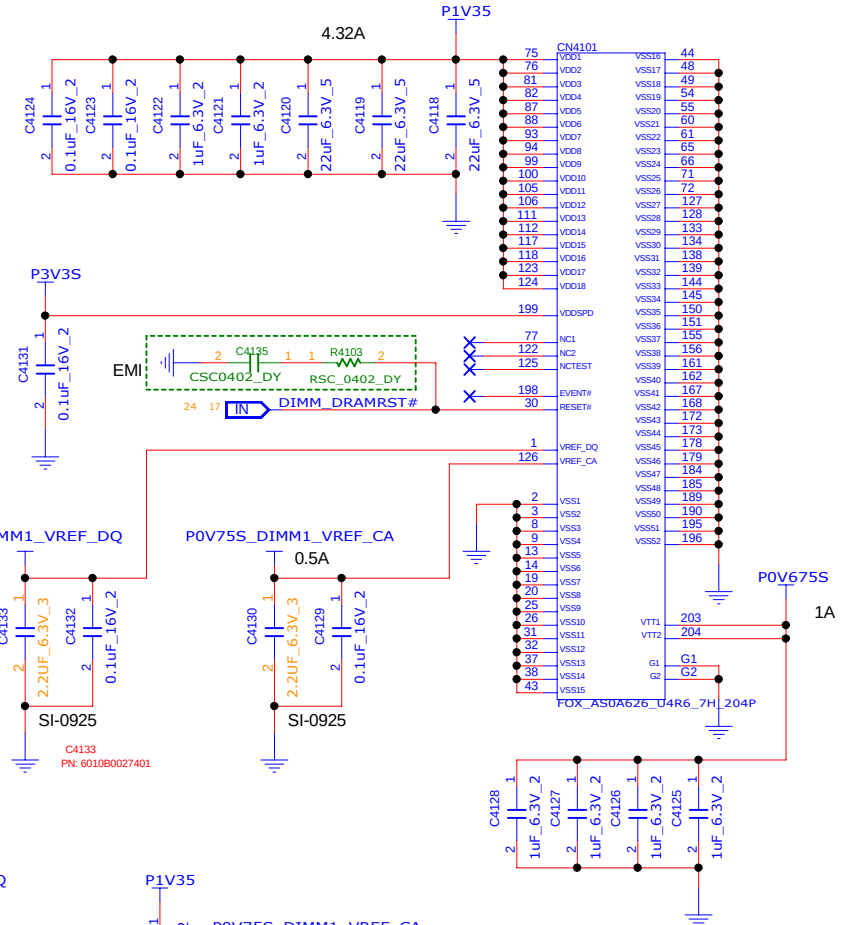
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19	BI	M B A<2>	96	A2	DQ02	15	M B DQ<7>	BI	19
19	BI	M B A<3>	95	A3	DQ03	17	M B DQ<3>	BI	19
19	BI	M B A<4>	92	A4	DQ04	4	M B DQ<4>	BI	19
19	BI	M B A<5>	91	A5	DQ05	16	M B DQ<5>	BI	19
19	BI	M B A<6>	90	A6	DQ06	18	M B DQ<6>	BI	19
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19	BI	M B A<10>	107	A10 AP	DQ11	35	M B DQ<11>	BI	19
19	BI	M B A<11>	84	A11	DQ12	22	M B DQ<12>	BI	19
19	BI	M B A<12>	83	A12	DQ13	24	M B DQ<13>	BI	19
19	BI	M B A<13>	119	A13	DQ14	34	M B DQ<14>	BI	19
19	BI	M B A<14>	80	A14	DQ15	36	M B DQ<15>	BI	19
19	BI	M B A<15>	78	A15	DQ16	39	M B DQ<16>	BI	19
19	IN	M B BS0	109	BA0	DQ17	41	M B DQ<17>	BI	19
19	IN	M B BS1	108	BA1	DQ18	51	M B DQ<18>	BI	19
19	IN	M B BS2	79	BA2	DQ19	53	M B DQ<19>	BI	19
19	IN	M CS#2	114	S0#	DQ20	40	M B DQ<20>	BI	19
19	IN	M CS#3	121	S1#	DQ21	42	M B DQ<21>	BI	19
19	IN	M CLK DDR2 DP	101	CK0	DQ22	50	M B DQ<22>	BI	19
19	IN	M CLK DDR2 DN	103	CK0#	DQ23	52	M B DQ<23>	BI	19
19	IN	M CLK DDR3 DP	102	CK1	DQ24	57	M B DQ<24>	BI	19
19	IN	M CLK DDR3 DN	104	CK1#	DQ25	59	M B DQ<25>	BI	19
19	IN	M CKE2	73	CKE1	DQ26	67	M B DQ<26>	BI	19
19	IN	M CKE3	74	CKE2	DQ27	69	M B DQ<27>	BI	19
19	IN	M B CAS#	115	CAS#	DQ28	56	M B DQ<28>	BI	19
19	IN	M B RAS#	110	RAS#	DQ29	58	M B DQ<29>	BI	19
19	IN	M B WE#	113	WE#	DQ30	68	M B DQ<31>	BI	19
25	IN	SA0_DIM1	197	SA0	DQ31	70	M B DQ<30>	BI	19
25	IN	PCH_3S_SMCLK	202	SA1	DQ32	129	M B DQ<36>	BI	19
27	24	PCH_3S_SMDAT	200	SCL	DQ33	131	M B DQ<37>	BI	19
27	24			SDA	DQ34	141	M B DQ<34>	BI	19
19	IN	M ODT2	116	ODT0	DQ35	143	M B DQ<35>	BI	19
19	IN	M ODT3	120	ODT1	DQ36	130	M B DQ<32>	BI	19
19					DQ37	132	M B DQ<33>	BI	19
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19					DQ40	147	M B DQ<41>	BI	19
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19	IN	M B DQS7 DP	188	DQS7	DQ55	176	M B DQ<50>	BI	19
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19	IN	M B DQS2 DN	45	DQS#2	DQ58	191	M B DQ<62>	BI	19
19	IN	M B DQS3 DN	62	DQS#3	DQ59	164	M B DQ<63>	BI	19
19	IN	M B DQS4 DN	135	DQS#4	DQ60	180	M B DQ<57>	BI	19
19	IN	M B DQS5 DN	152	DQS#5	DQ61	182	M B DQ<56>	BI	19
19	IN	M B DQS6 DN	169	DQS#6	DQ62	192	M B DQ<59>	BI	19
19	IN	M B DQS7 DN	186	DQS#7	DQ63	194	M B DQ<60>	BI	19

FOX_AS0A626_U4R6_7H_204P

Note :
SO-DIMMA SPD Address is 0xA4
SO-DIMMA TS Address is 0x34



SANDY BRIDGE + IVY BRIDGE DG4.14



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
DDR3			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310xxxxx-0-0	X01

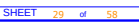
CHANGE by XXX DATE 21-OCT-2002

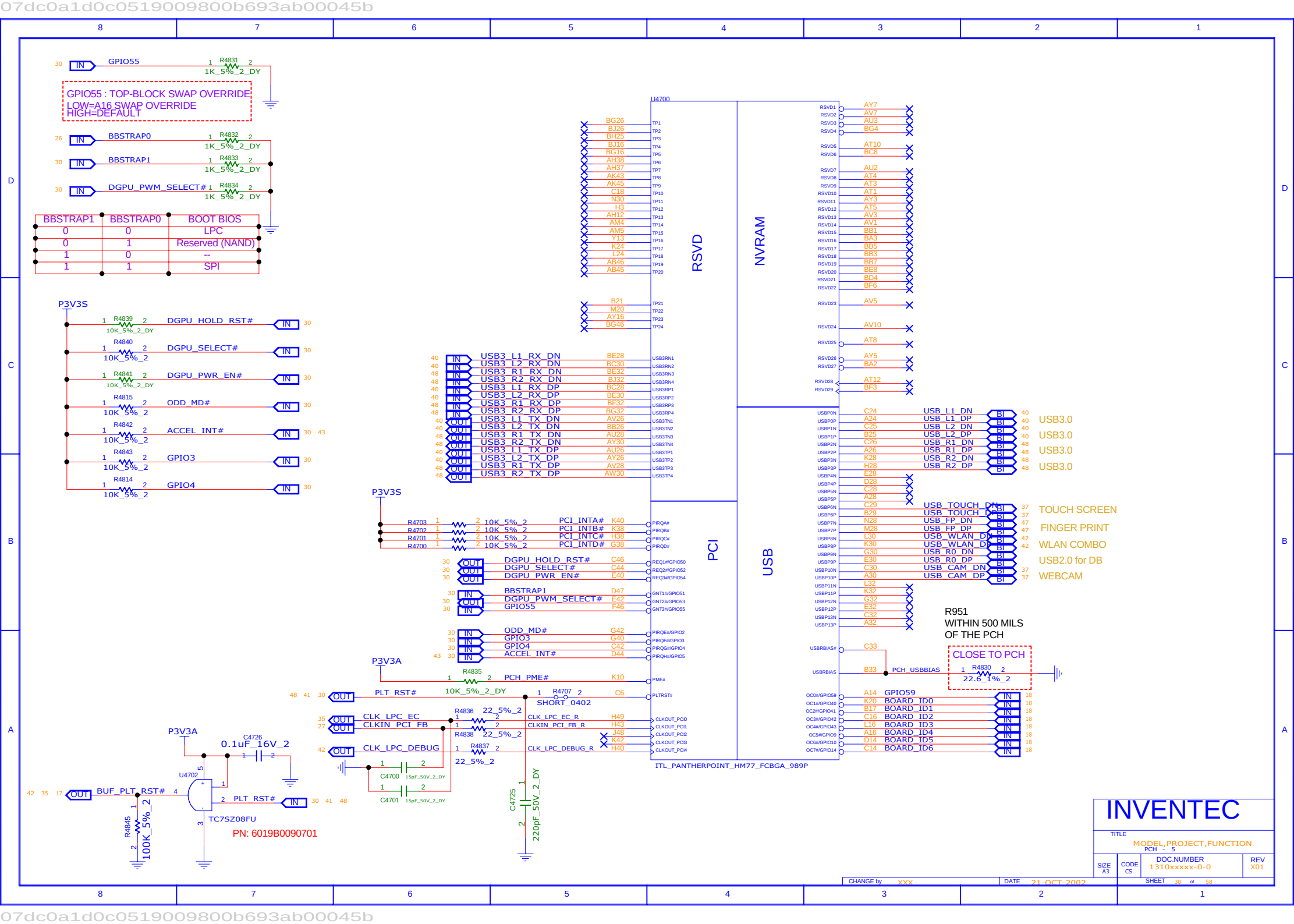
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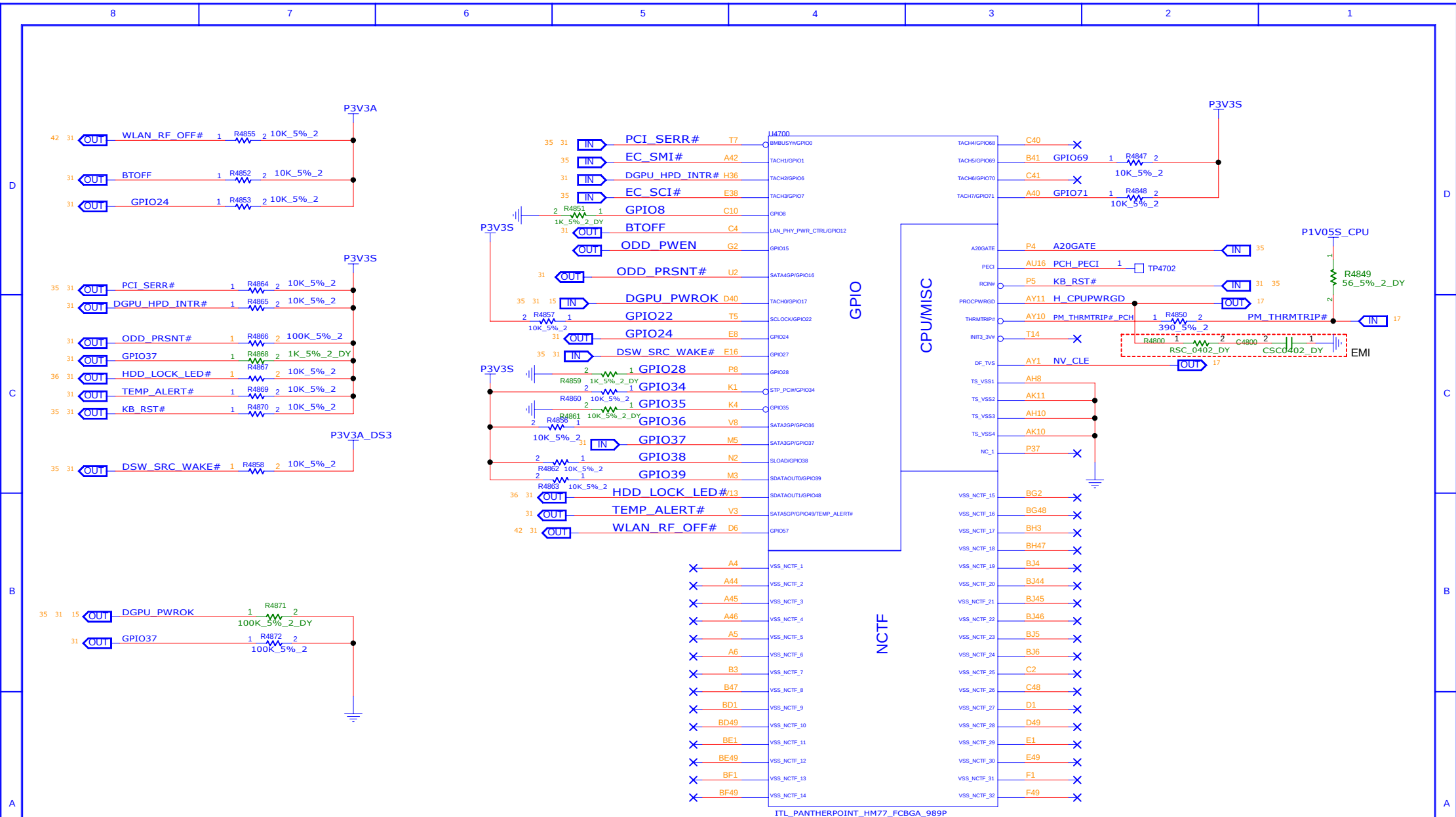


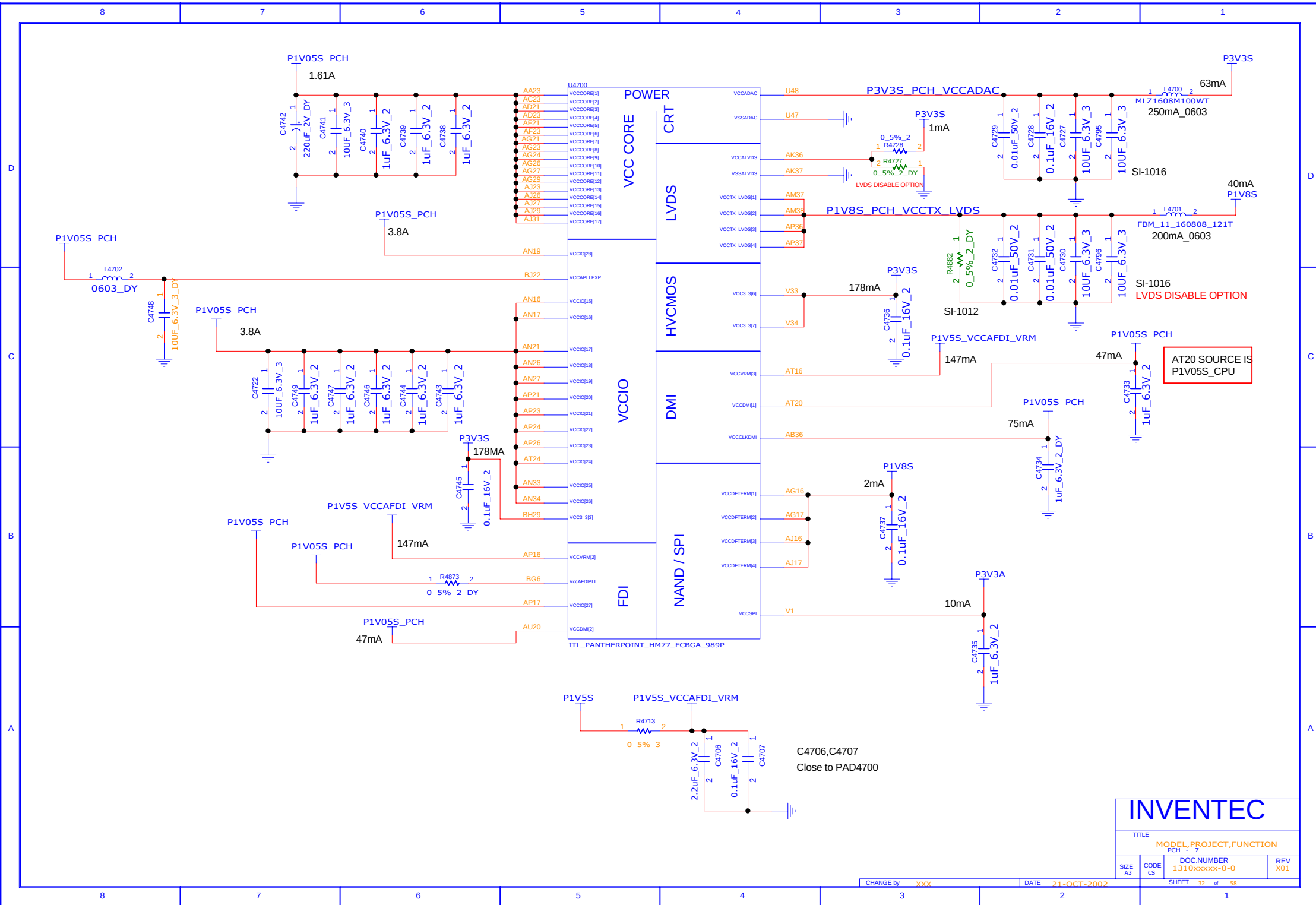


SHEET 28 of 58









INVENTEC

TITLE

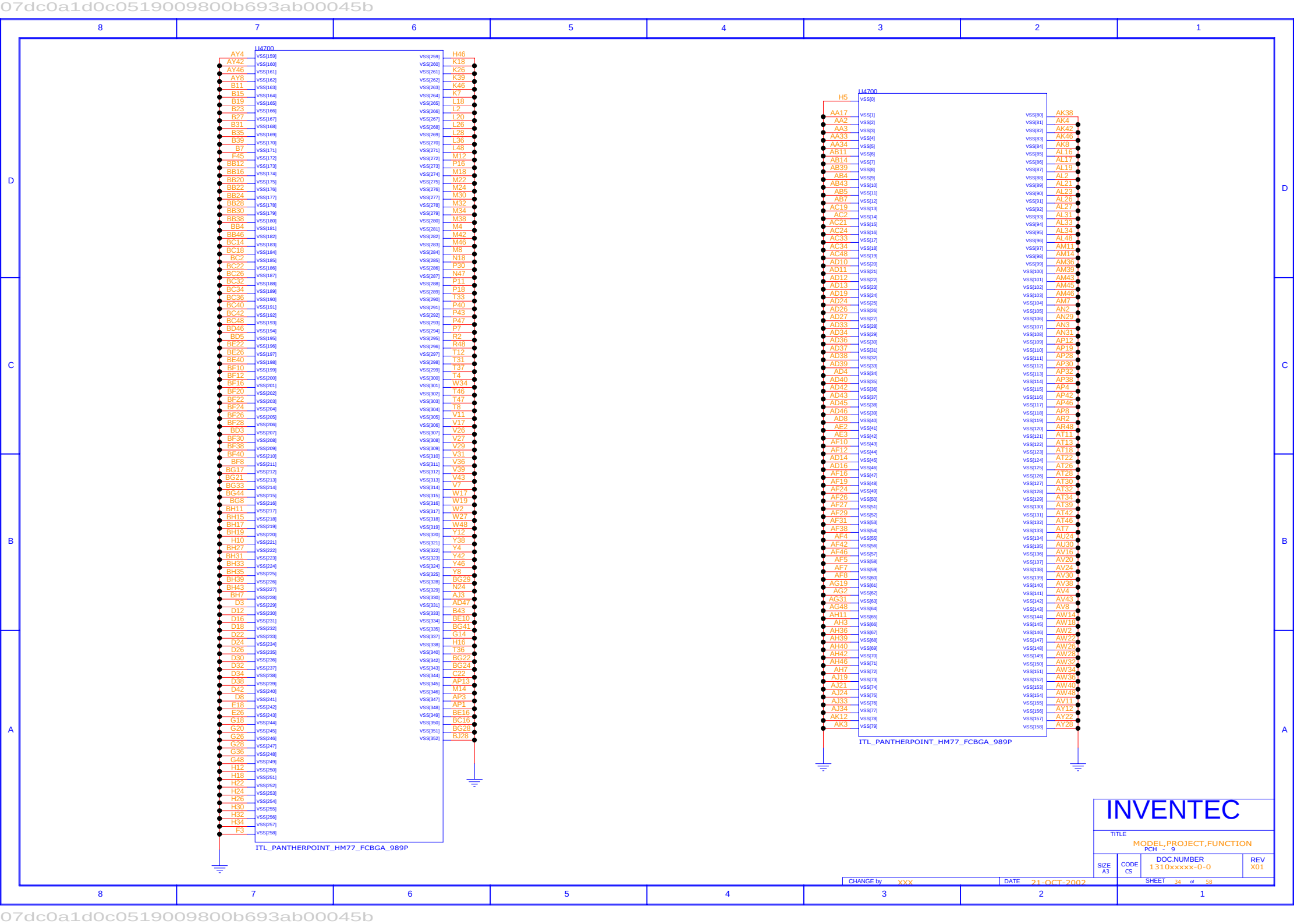
MODEL,PROJECT,FUNCTION
PCH - 7SIZE
A3CODE
CSDOC NUMBER
1310xxxxx-0-0REV
X01

CHANGE by XXX

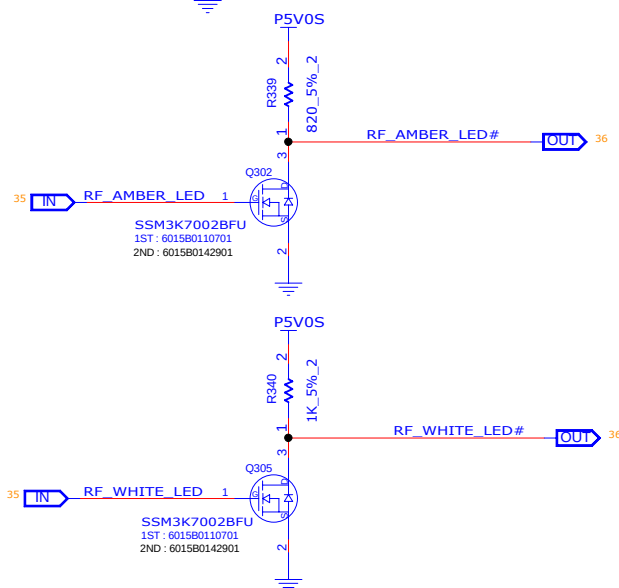
DATE 21-OCT-2002

SHEET 32 of 58





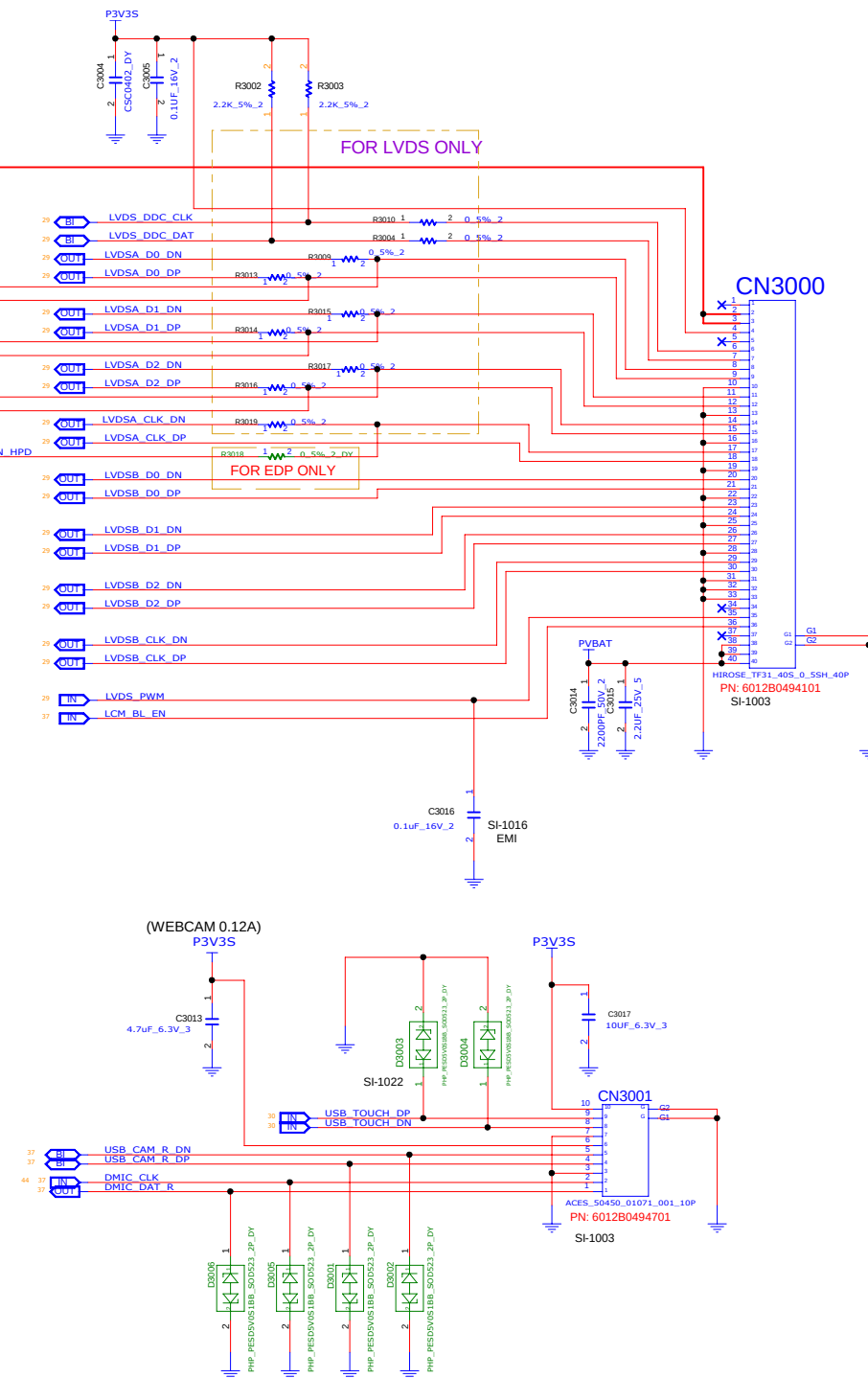
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LOCATION 3000~3049
VER.01 20120822



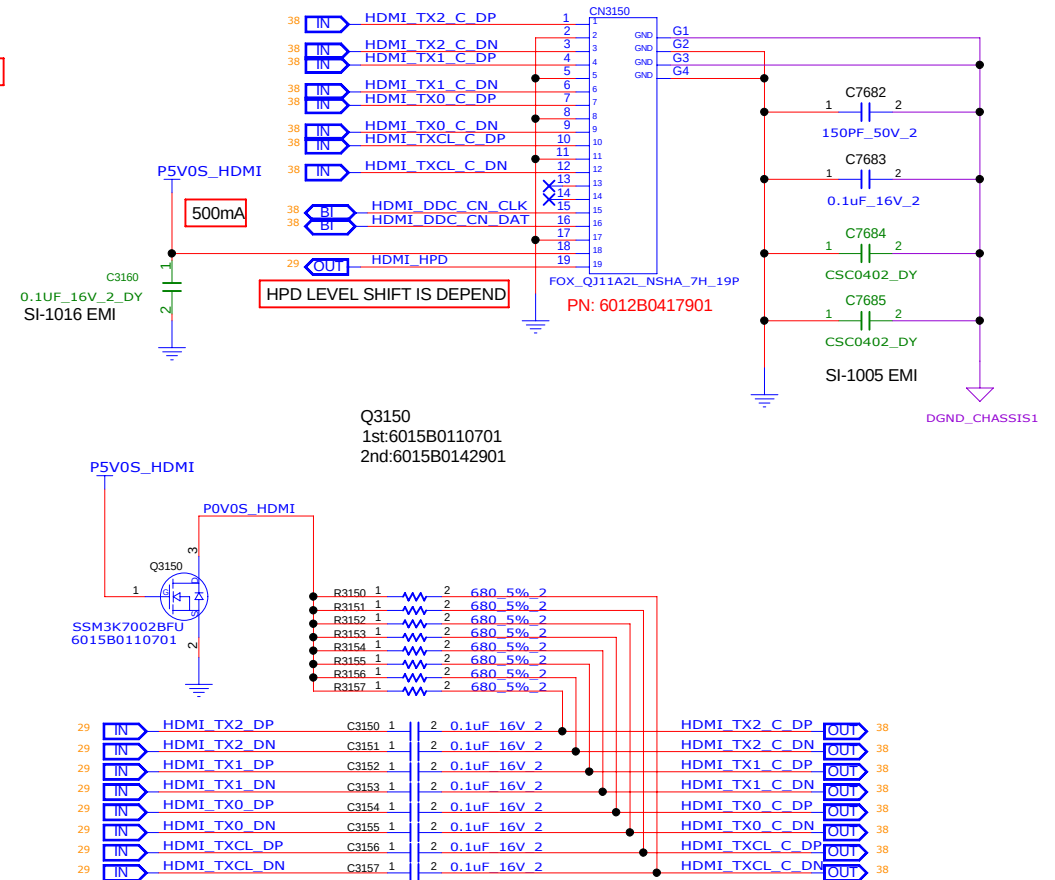
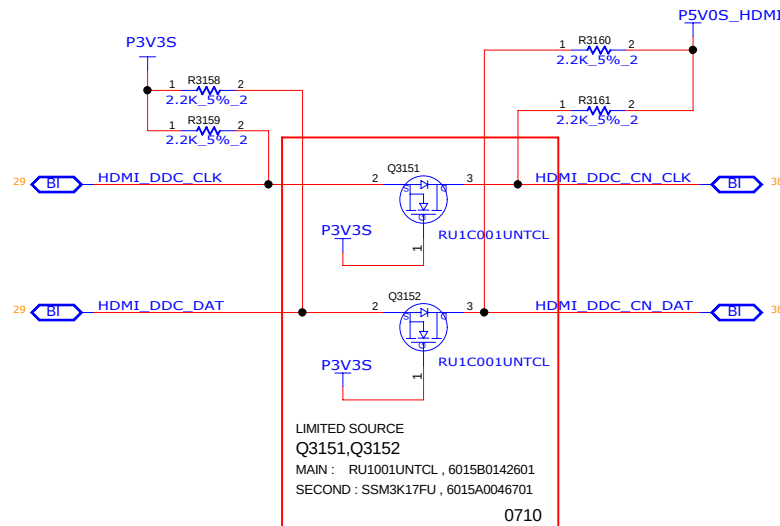
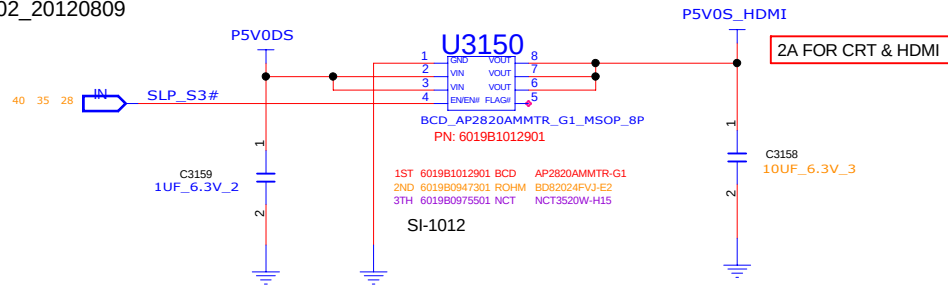
CO-LAYOUT	LVDS	EDP
Q4900, R4901	×	○
R4600	×	○
R4500, R4523	○	×
R4524, R4525	×	○
C3006, C3007, C3009 C3010, C3011, C3012	×	○
R3018	×	○
R4727, R4882	×	○
C4730, C4731, C4732 L4701, R4728, C4796	○	×
R4807, R4808	○	×
R3002, R3003, R3004 R3009, R3010, R3013 R3014, R3015, R3016 R3017, R3019	○	×



WEBCAM+TOUCHN SCREEN

INVENTEC		
TITLE MODEL,PROJECT,FUNCTION LVDS		
SIZE C	CODE CS	DOC NUMBER 1310xxxxxx-0-0
SHEET 37 of 58		

Location 3150 ~ 3199
Ver.02_20120809



Location	Part number	Factory	Manufacturer Part No	Marking
D300	1ST : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	
Q300	1ST : 6015B0124601	NXP	2N7002P	LWx
Q301	2nd : 6015B0140901	DIODES	DMN65D8L-7	MM6
U301	1ST : 6019B0932401	MXIC	MX25L512EMI-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25F512B-SSH-T	
U301	1ST : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	

INVENTEC

TITLE	MODEL,PROJECT,FUNCTION
	HDMI_CONN

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 30 of 50			

CHANGE by	XXX	DATE	21-OCT-2002
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SHEET 38 of 58

D

C

B

A

D

C

B

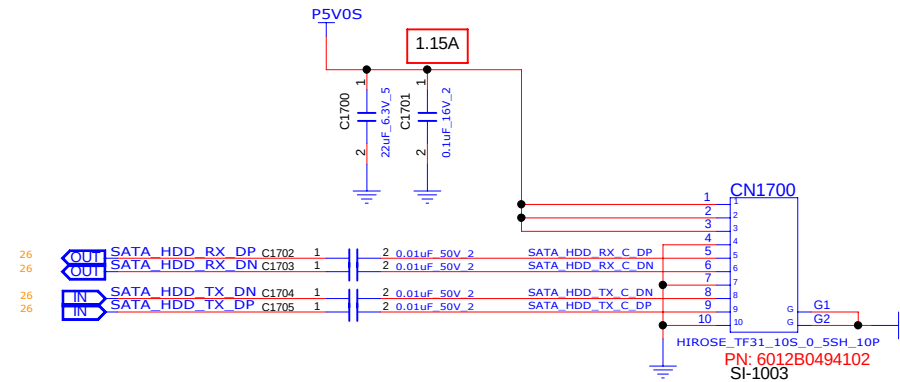
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SATA HDD

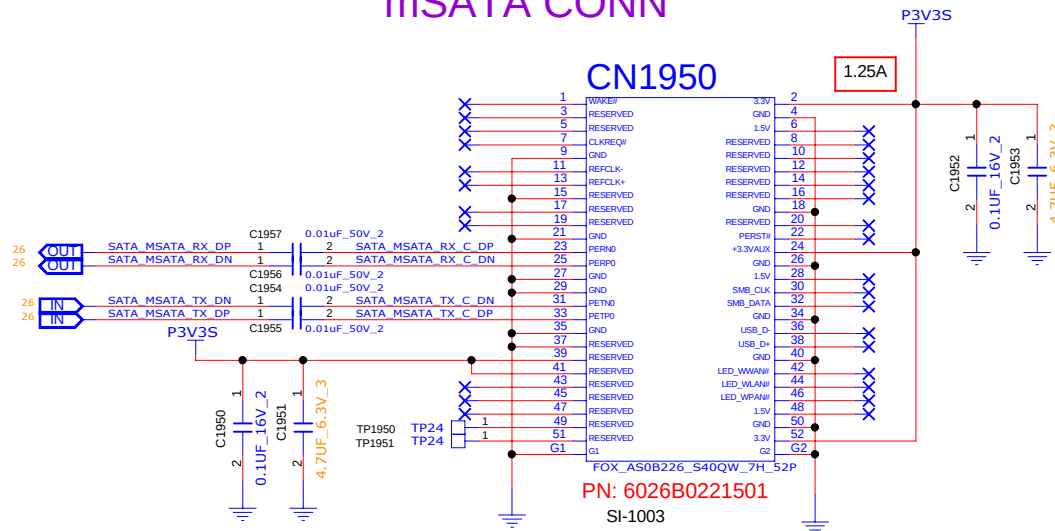
Location 1700 ~ 1749

mSATA
Location 1950 ~ 1999
Ver.01_20120808

SATA HDD CABLE CONN on MB



mSATA CONN

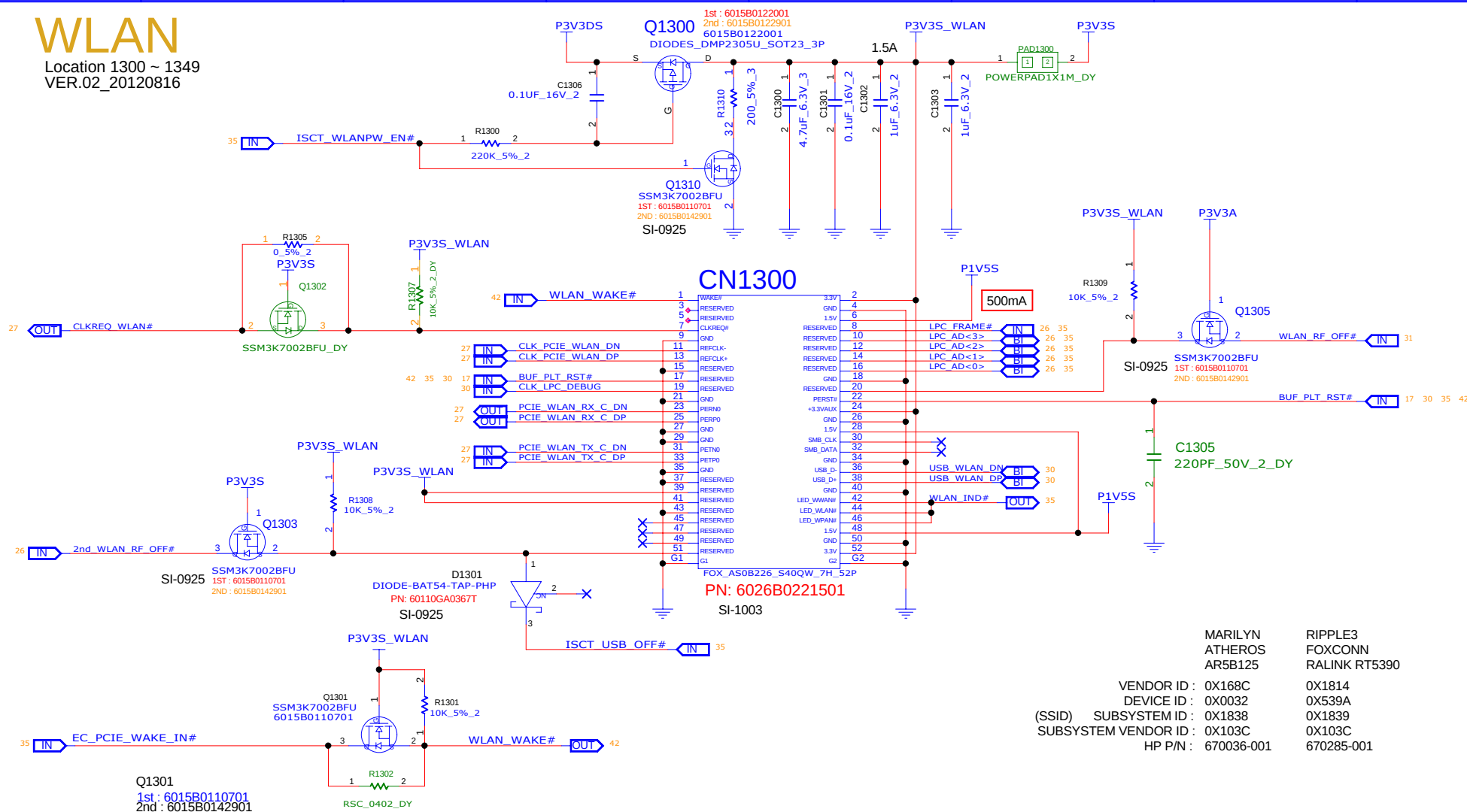


INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
SATA HDD & SATA ODD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01



Location 1300 ~ 1349
VER.02 20120816



Location	Part number	Factory	Manufacturer Part No	Marking
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	2nd : 60110GA0367T	NXP	BAT54	
Q1301	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
	2nd : 6015B0142901	DIODES	DMN65D8LW-7	MM3
Q1300	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG

MARILYN	RIPPLE3
ATHEROS	FOXCONN
AR5B125	RALINK RT5390
: 0X168C	0X1814
: 0X0032	0X539A
: 0X1838	0X1839
: 0X103C	0X103C
: 670036-001	670285-001

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VENDOR ID : 0X168C
DEVICE ID : 0X0032
(SSID) SUBSYSTEM ID : 0X1838
SUBSYSTEM VENDOR ID : 0X103C
HP P/N : 670036-001

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INVENTEC

TITLE	MODEL,PROJECT,FUNCTION

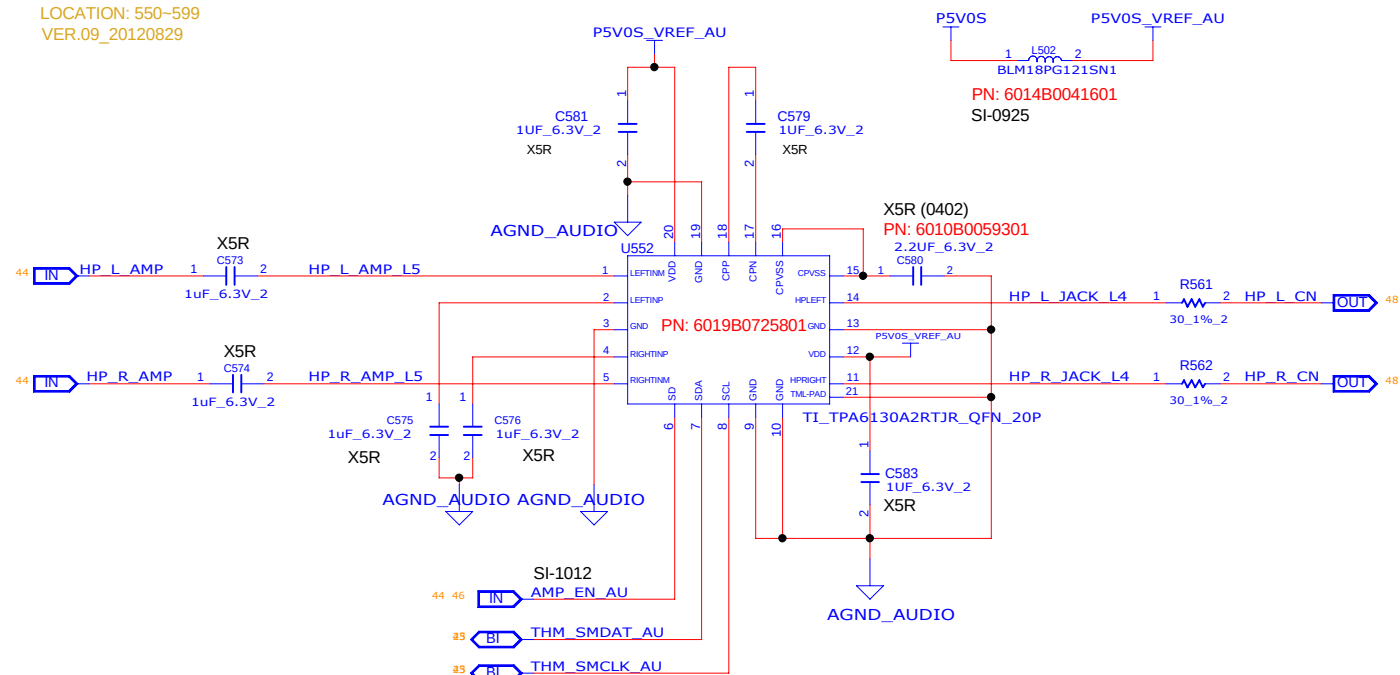
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	FRONT X
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CHANGE by	XXX	DATE	21-OCT-2002
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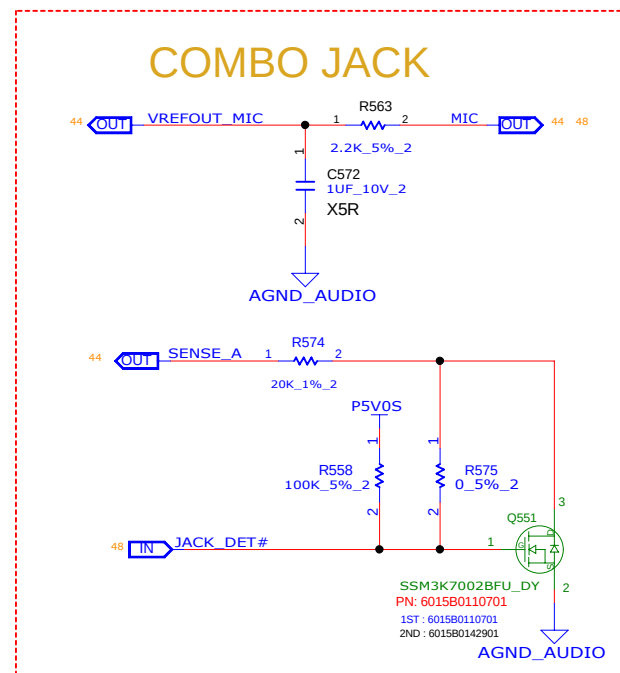
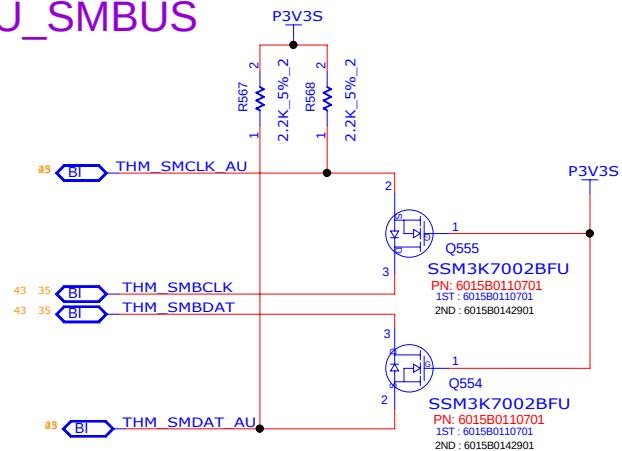
SHEET 42 of 58

AUDIO-2 CODEC

LOCATION: 550~599
VER.09 20120829



AU SMBUS



Location	Part number	Factory	Manufacturer Part No	Marking
Q9401	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG
L9401	1st : 6014B0200401	TAI-TECH	SWF2520CF-2R2M-R15	
	2nd : 6014B0190301	CYNTEC	PHI25201B-2R2MS	
X9401	1st : 6018B0060301	EPSON	FA-238G	2500M
	2nd : 6018B0054701	TXC	7V25000014	T250

INVENTEC

TITLE	MODEL, PROJECT, FUNCTION
	Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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SHEET 45 of 50

CHANGE by	XXX	DATE	21-OCT-2002
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1

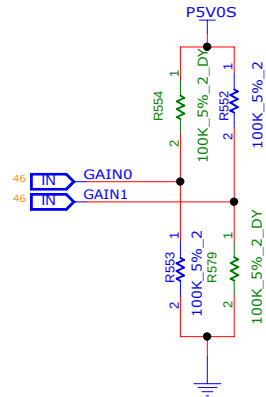
AUDIO (AMP) 550-599

AUDIO-3

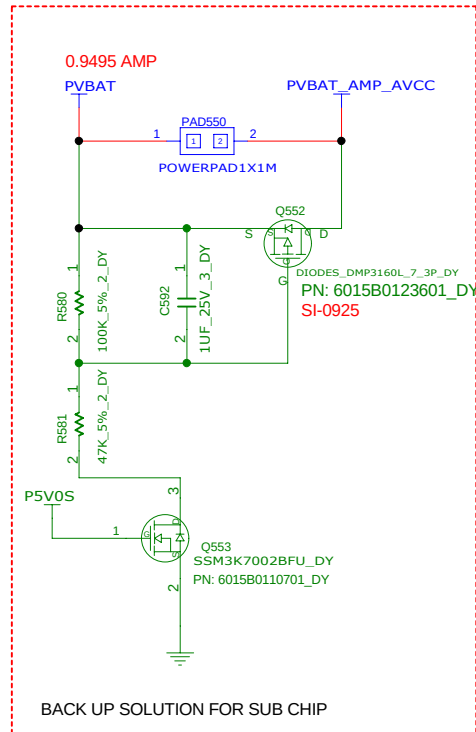
CODEC

LOCATION: 550-599

VER.09_20120829

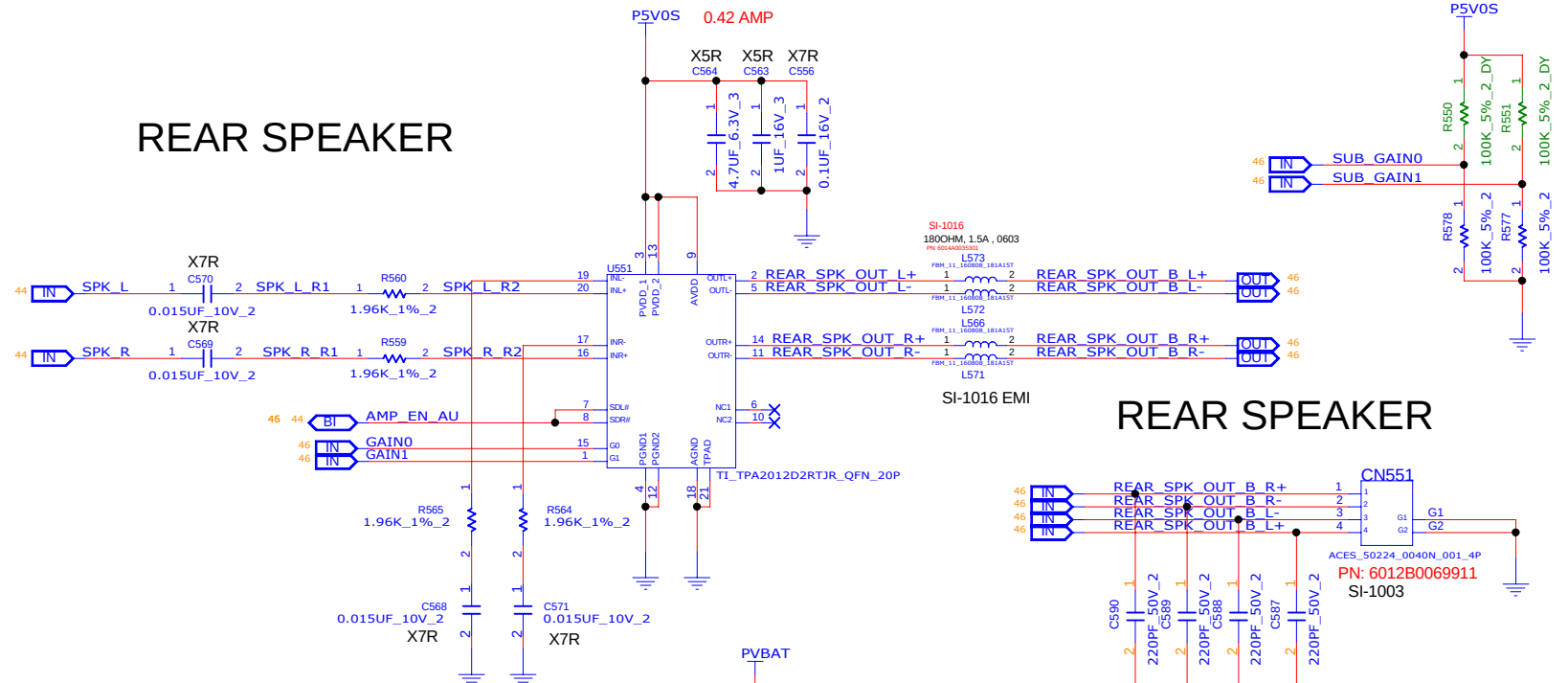


SUBWOOFER

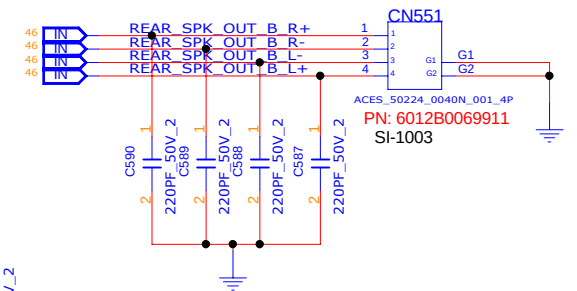


BACK UP SOLUTION FOR SUB CHIP

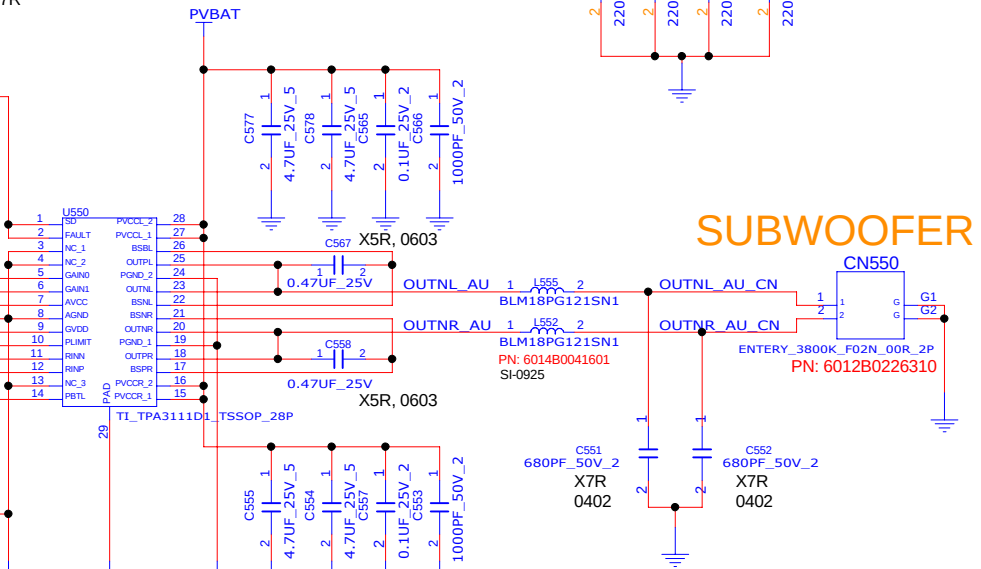
REAR SPEAKER



REAR SPEAKER



SUBWOOFER



TI TPA311D1 (HP PART NUMBER HPA00836PWPR)

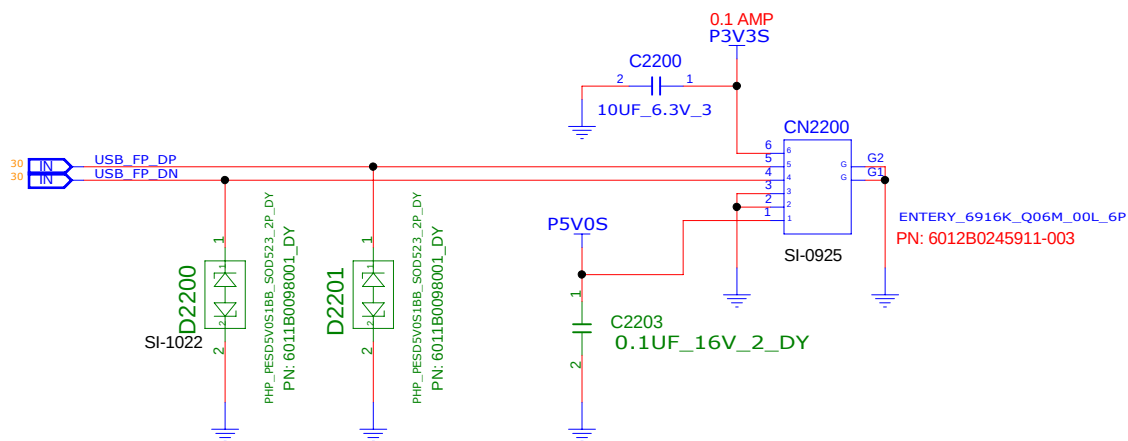
INVENTEC

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

CHANGE by XXX DATE 21-OCT-2002

SHEET 46 of 58

FINGER PRINT



VFM5302-3192 PIN ASSIGNMENTS

Pin Number	Signal Name	Test Point
1	3.3V _{CC}	TP3
2	DP	TP1
3	DM	TP2
4	GND	TP4
5	GND	TP4
6	5V _{CC}	TP6

Figure 4 - Connector Pin-out

INVENTEC

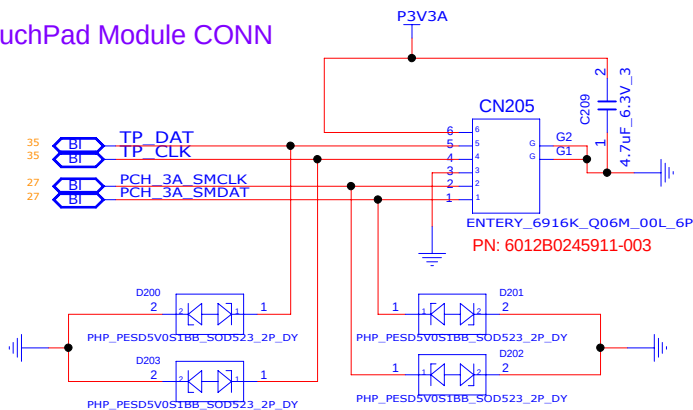
TITLE
MODEL,PROJECT,FUNCTION

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

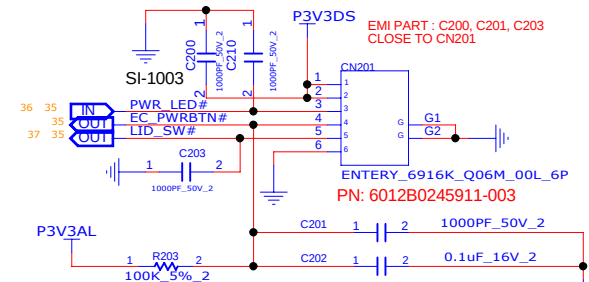
CHANGE by XXX DATE 21-OCT-2002

SHEET 47 of 58

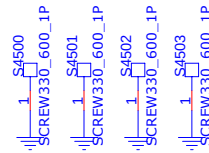
TouchPad Module CONN



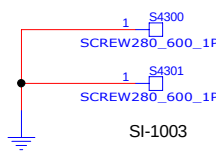
POWER BUTTON CONN ON MB



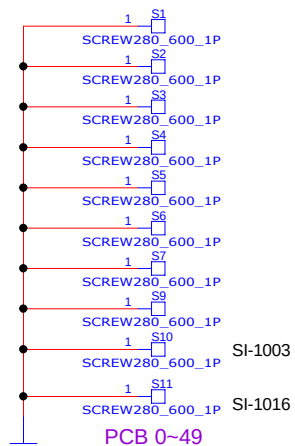
FOR CPU



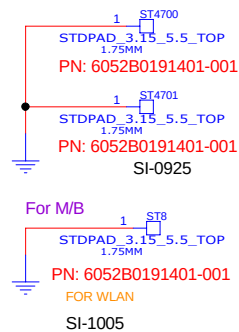
FOR FAN



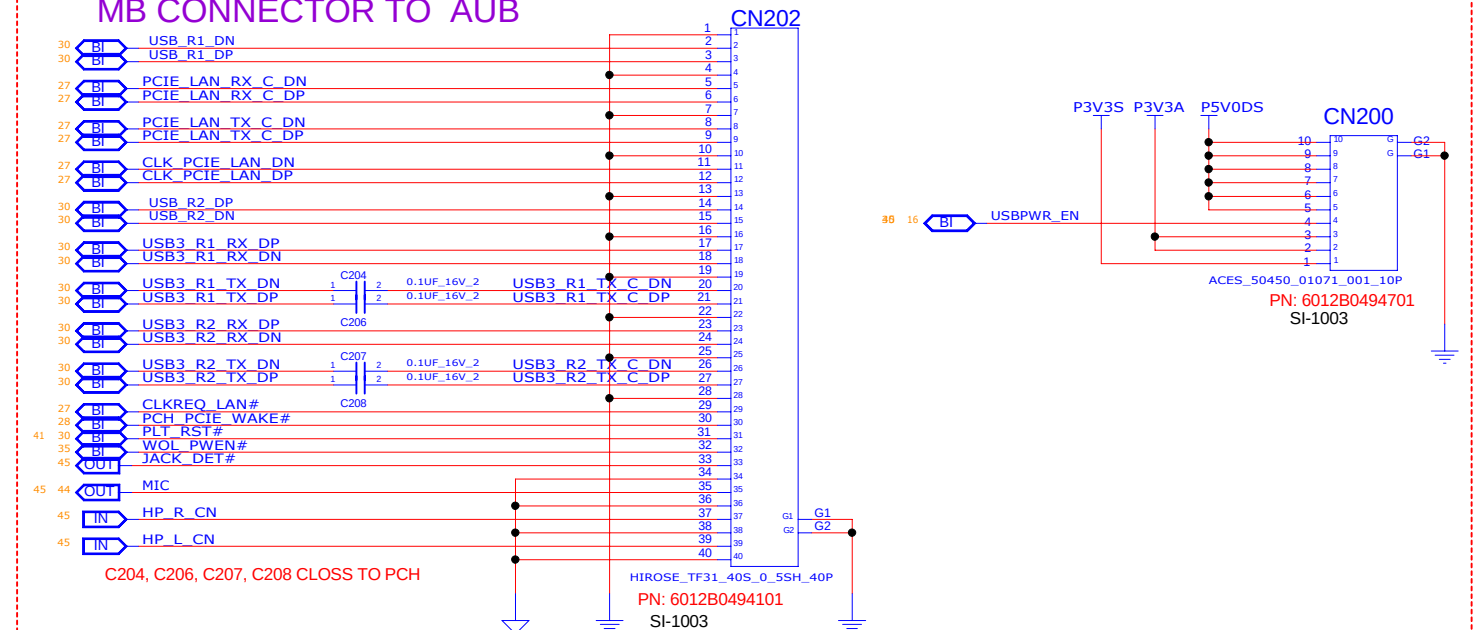
For M/B



FOR PCH



MB CONNECTOR TO AUB



INVENTEC

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

CHANGE by XXX DATE 21-OCT-2002

SHEET 48 of 58

AUB
LOCATION: 9000-9999
VER.03_20120814

AUB BOARD

INVENTEC

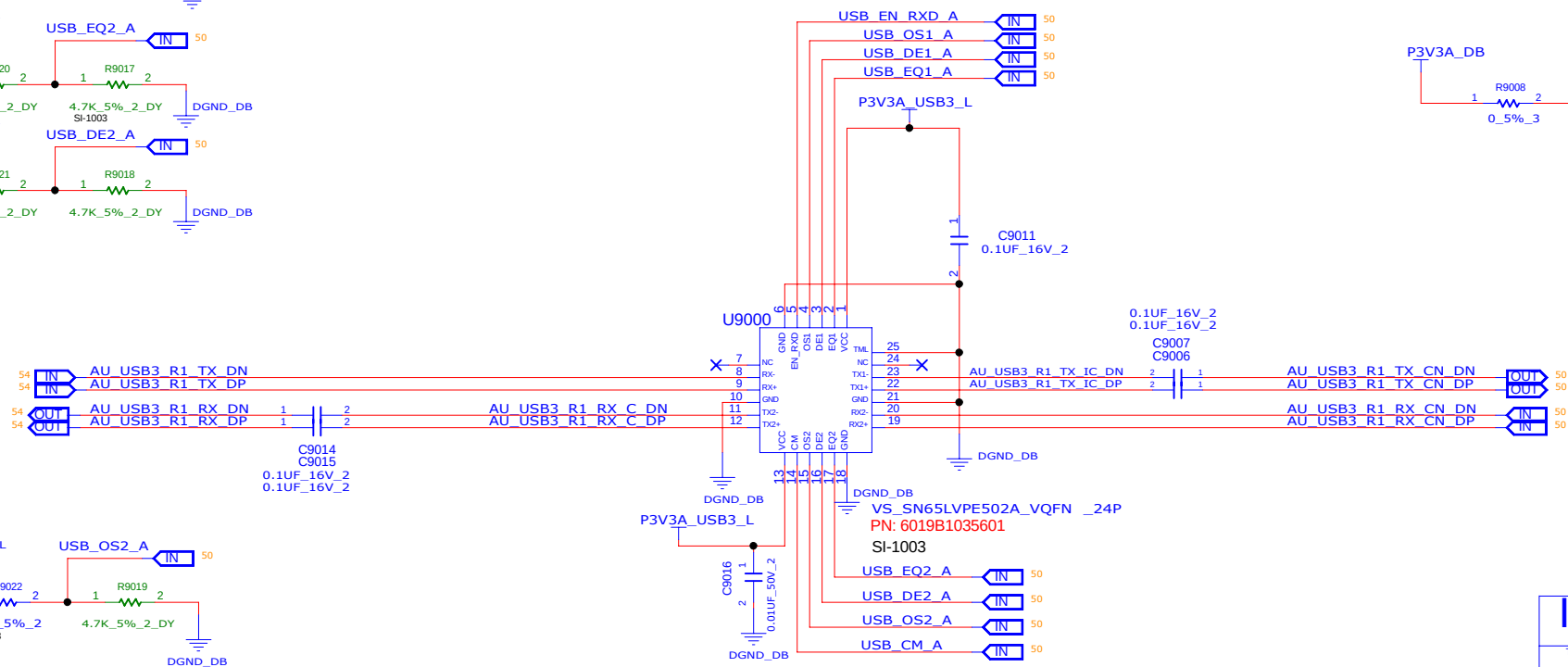
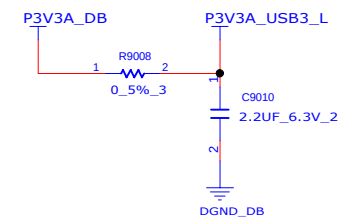
TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 49 of 58



USB30_REDRIIVER_PORT1



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block		Diagram	
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 50 of 58			

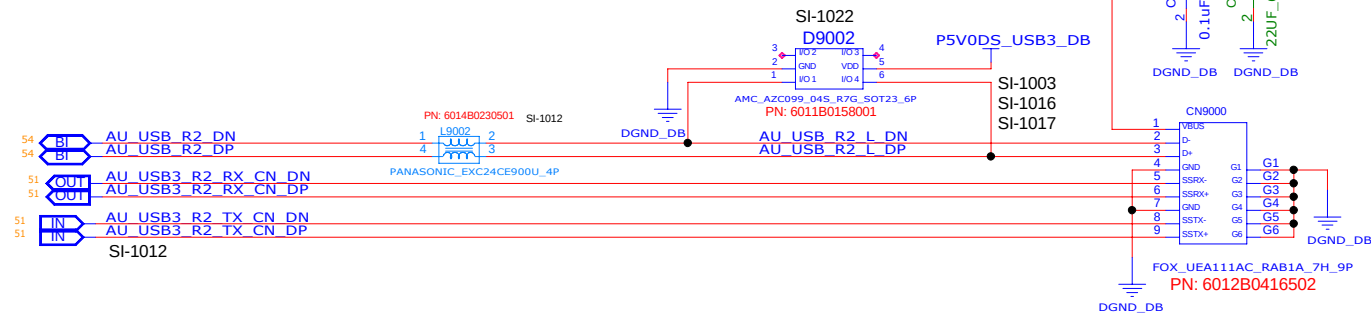
D

C

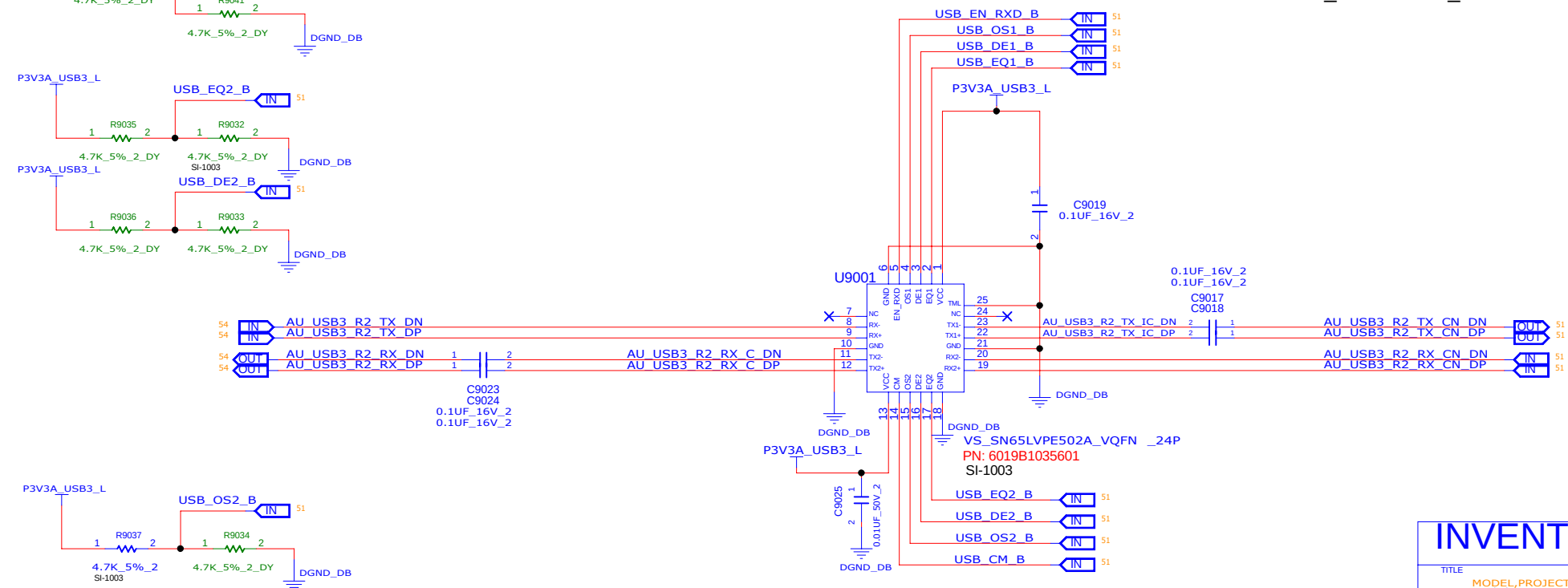
B

A

USB 3.0 CONNN



USB30_REDRIIVER_PORT2

**INVENTEC**

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

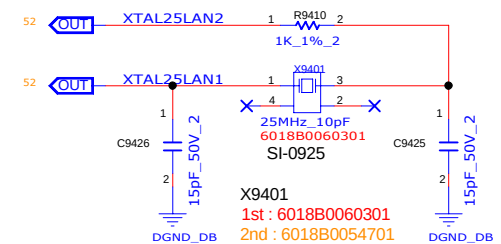
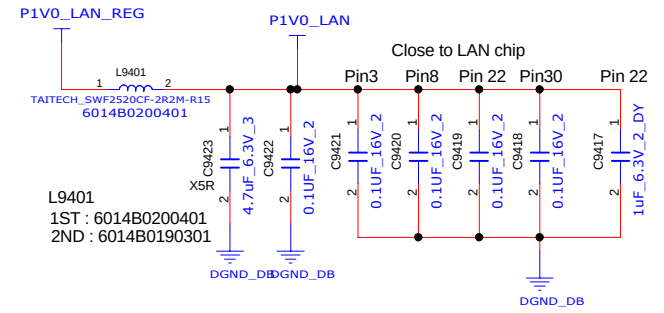
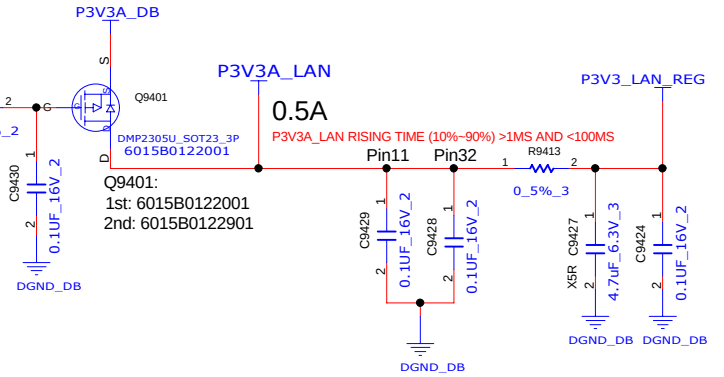
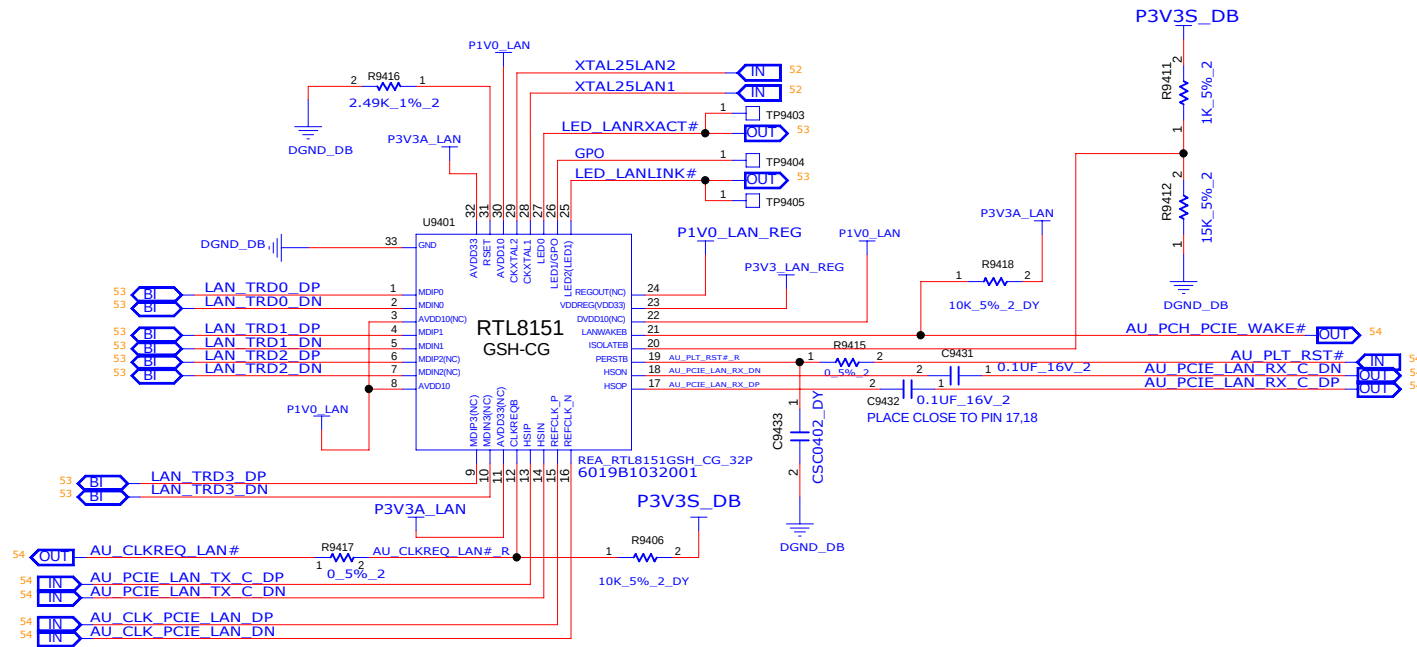
CHANGE by XXX DATE 21-OCT-2002

SHEET 51 of 58

LAN (Controller)

Location 9400 ~ 9499
Ver.03_20120807

6019B1032101_RTL8161GSH-CG_10/100/1000
6019B1032001_RTL8151GSH-CG_10/100/1000



Location	Part number	Factory	Manufacturer Part No	Marking
Q9401	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG
L9401	1st : 6014B0200401	TAI-TECH	SWF2520CF-2R2M-R15	
	2nd : 6014B0190301	CYNTEC	PHI25201B-2R2MS	
X9401	1st : 6018B0060301	EPSON	FA-238G	2500M
	2nd : 6018B0054701	TXC	7V25000014	T250

INVENTEC

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

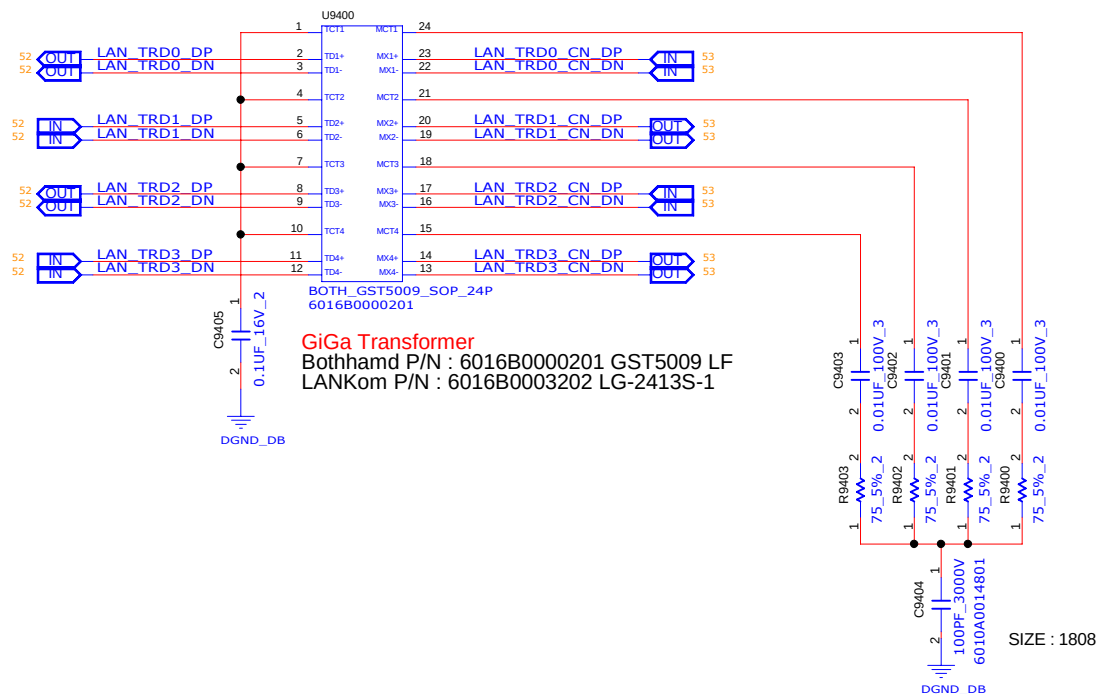
CHANGE by XXX DATE 21-OCT-2002

SHEET 52 of 58

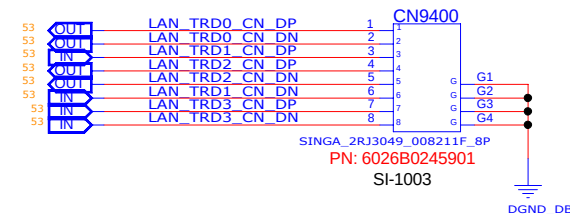
LAN (Transformer & RJ45)

Location 9400 ~ 9499

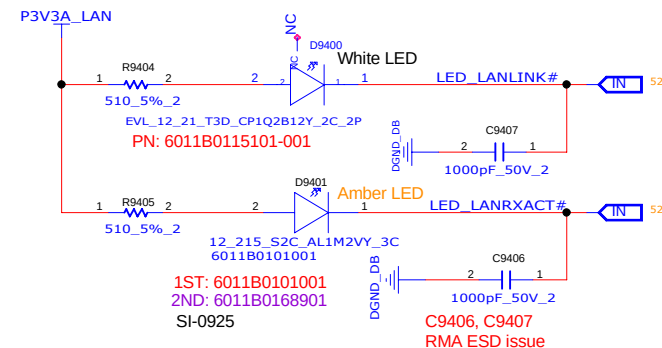
Ver.06_20120813



RJ-45



★Layout
D9400 White LED place on TOP side.
D9401 Amber LED place on Bottom side.



Location	Part number	Factory	Manufacturer Part No	Color
D9400	6011B0115101	EVERLIGHT	T3D_CP1Q2B12Y_2C	White
D9401	6011B0101001	EVERLIGHT	S2C_AL1M2VY_3C	Amber

Location	Part number	Factory	Manufacturer Part No	Marking
D300	1st : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	L4
Q300	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
Q301	2nd : 6015B0142901	DIODES	DMN65D8LW-7	MM3
U301	1st : 6019B0932401	MXIC	MX25L512EML-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25F512B-SSH-T	
U301	1st : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	
U301	1st : 6019B0955901	WINBOND	W25Q64FV55IG	
8MB	2nd : 6019B0813101	MXIC	MX25L6406EM2I-12G	

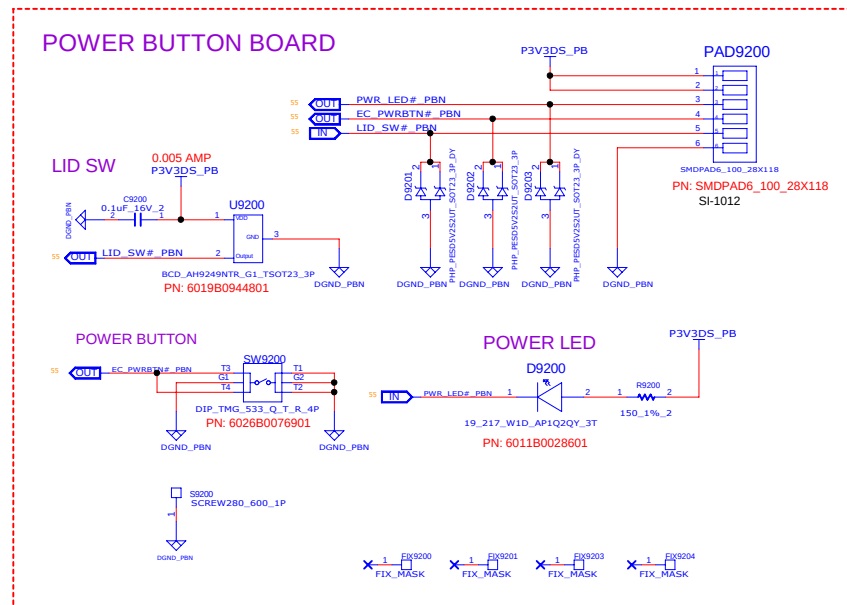
INVENTEC

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

CHANGE by XXX DATE 21-OCT-2002

SHEET 53 of 58

POWER BUTTON BOARD



INVENTEC

MODEL,PROJECT,FUNCTION
Block Diagram

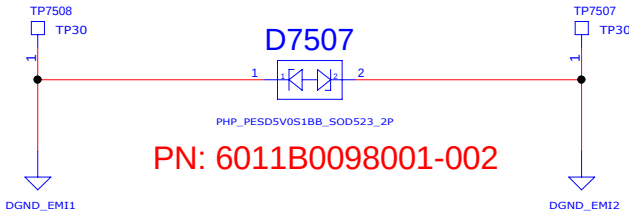
SIZE CODE DOCNUMBER REV
C CS 1310XXXX-S-0 X01

CHANGE BY xxx DATE 21-OCT-2002

SHEET 1 of 1

1310A2552101 (6L)
1310A2552201 (8L)

ESD BOARD 1



USB BOARD (6L)
USB BOARD (8L)

POWER BOARD (6L)
POWER BOARD (8L)

EMI BOARD (6L)
EMI BOARD (8L)

1310A2548501
1310A2548601

1310A2548701
1310A2548801

1310A2552101
1310A2552102

1310A2552201
1310A2552202

6050A2548501
6050A2548601

6050A2548701
6050A2548801

6050A2552101
6050A2552201

1310A2552102 (6L)
1310A2552202 (8L)

ESD BOARD 2



CHIEF RIVER	DIS	NVIDIA N14P-GV2 (GEFORCE 630M)	4G	SAMSUNG K4W4G1646B-HC11	1310A2548303
CHIEF RIVER	DIS	NVIDIA N14P-GV2 (GEFORCE 630M)	2G	MICRON MT41K256M16HA-107G:E	1310A2548302
CHIEF RIVER	UMA	N/A	N/A	N/A	1310A2548201

INVENTEC

TITLE

MODEL, PROJECT, FUNCTION
Block Diagram

SIZE A3CODE CS

DOC. NUMBER
1310xxxxx-0-0

REV
X01

CHANGE by xxx

DATE 21-OCT-2002

SHEET 56 of 58

POWE UP

S5----->S0

S3



INVENTEC

MODEL,PROJECT,FUNCTION
Block Diagram

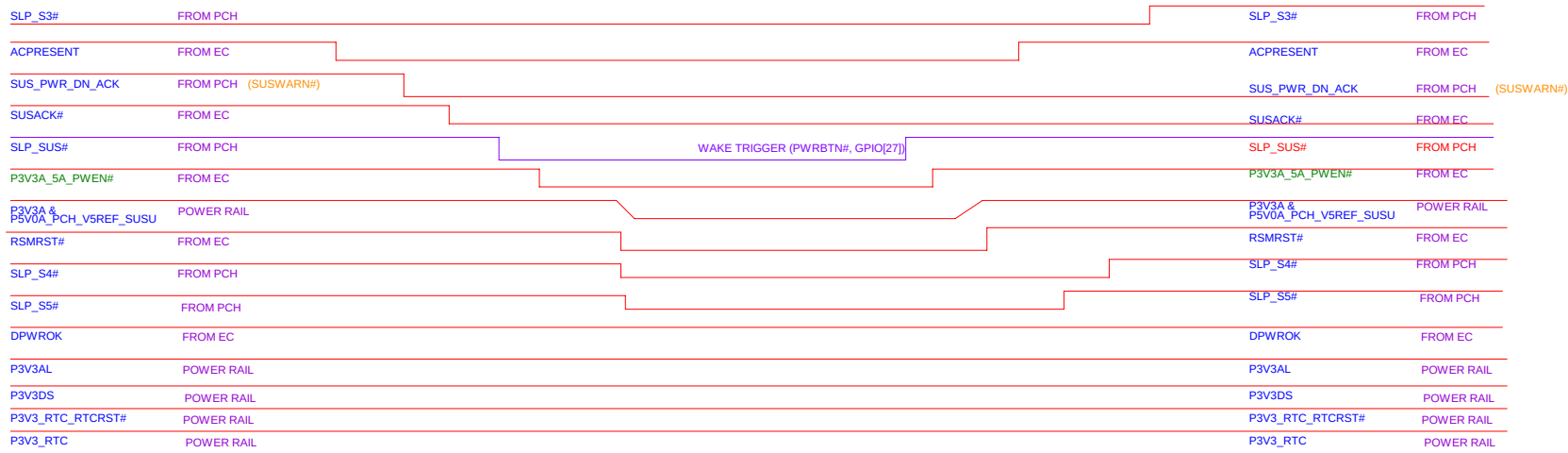
SIZE CODE DOC NUMBER REV
C CS 1310xxxxx-0-0 201

CHANGE BY: xxx DATE: 21-OCT-2002

SHEET 57 OF 58

S3 TO DEEP S3

DEEP S3 TO S0



INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	201
SHEET		58	58