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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 : 6015B0142901	DIODES	DMN65D8LV-7	MM3
U301	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 : 6019B095901	WINBOND	W25Q64FVSSIG	
8MB	2nd : 6019B0813101	MXIC	MX25L6406EM2I-12G	

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

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

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1 COVER  
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19 CPU3  
20 CPU4  
21 CPU5  
22 CPU6  
23 THERMAL & FAN  
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25 DDR3-2

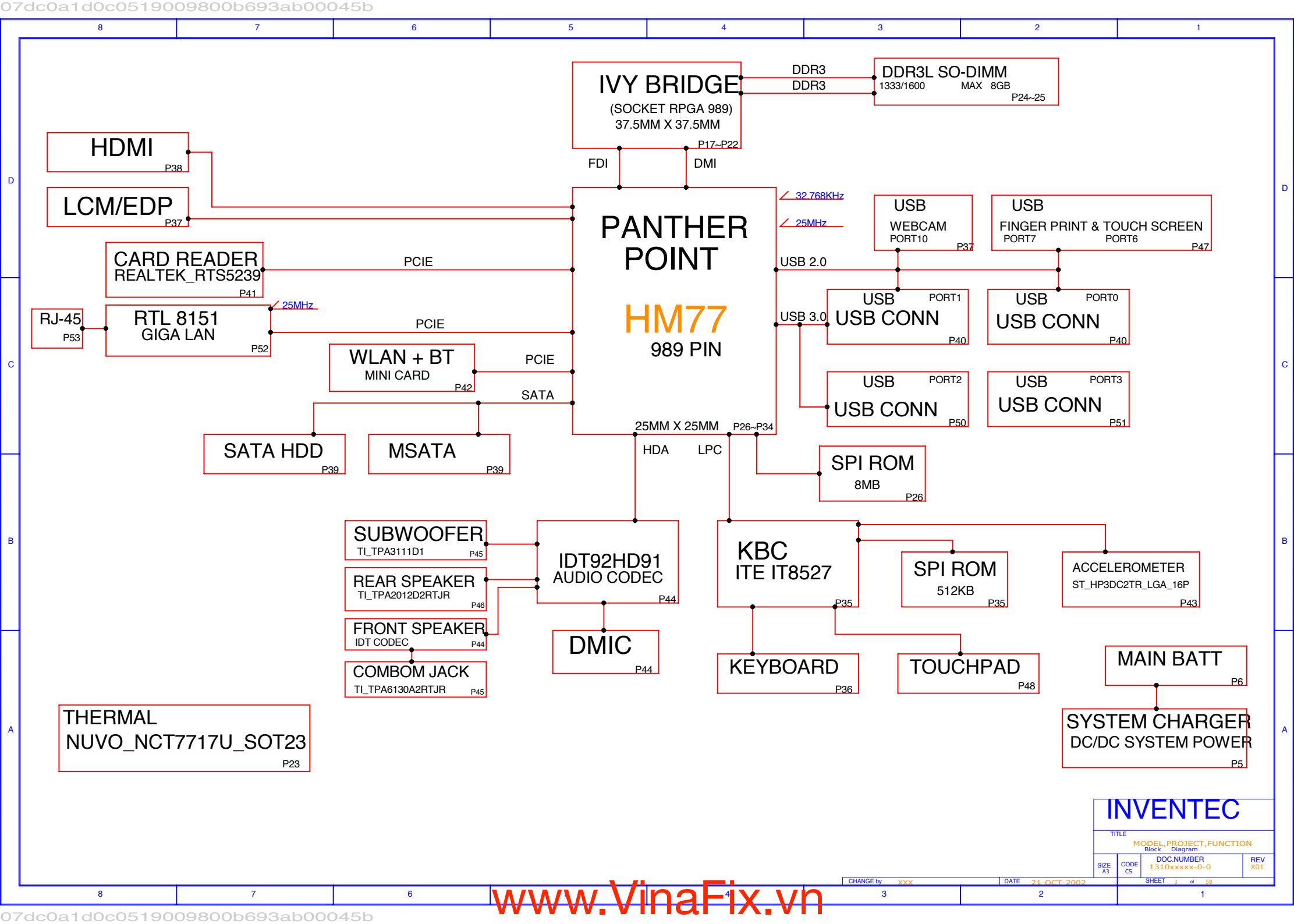
26 PCH1 RTC,HDA,SPI,LPC.SATA  
27 PCH2 CLK,SMBUS,PCI-E  
28 PCH3 DMI,FDI,SPM  
29 PCH4 LVDS,CRT  
30 PCH5 PCI,USB  
31 PCH6 GPIO,CPU/MISC  
32 PCH7 POWER  
33 PCH8 POWER  
34 PCH9 GND  
35 EC IT8527  
36 KB CONN & LED  
37 40 PIN LCM  
38 HDMI  
39 SATA HDD & MSATA  
40 USB3.0 CONN  
41 CARD READER  
42 WLAN  
43 G-SENSOR  
44 AUDIO-1  
45 AUDIO-2  
46 AUDIO-3  
47 FINGER PRINT  
48 MB TO DB CONN & SCREW  
49 AUB\_BLANK  
50 AUB\_USB30-1

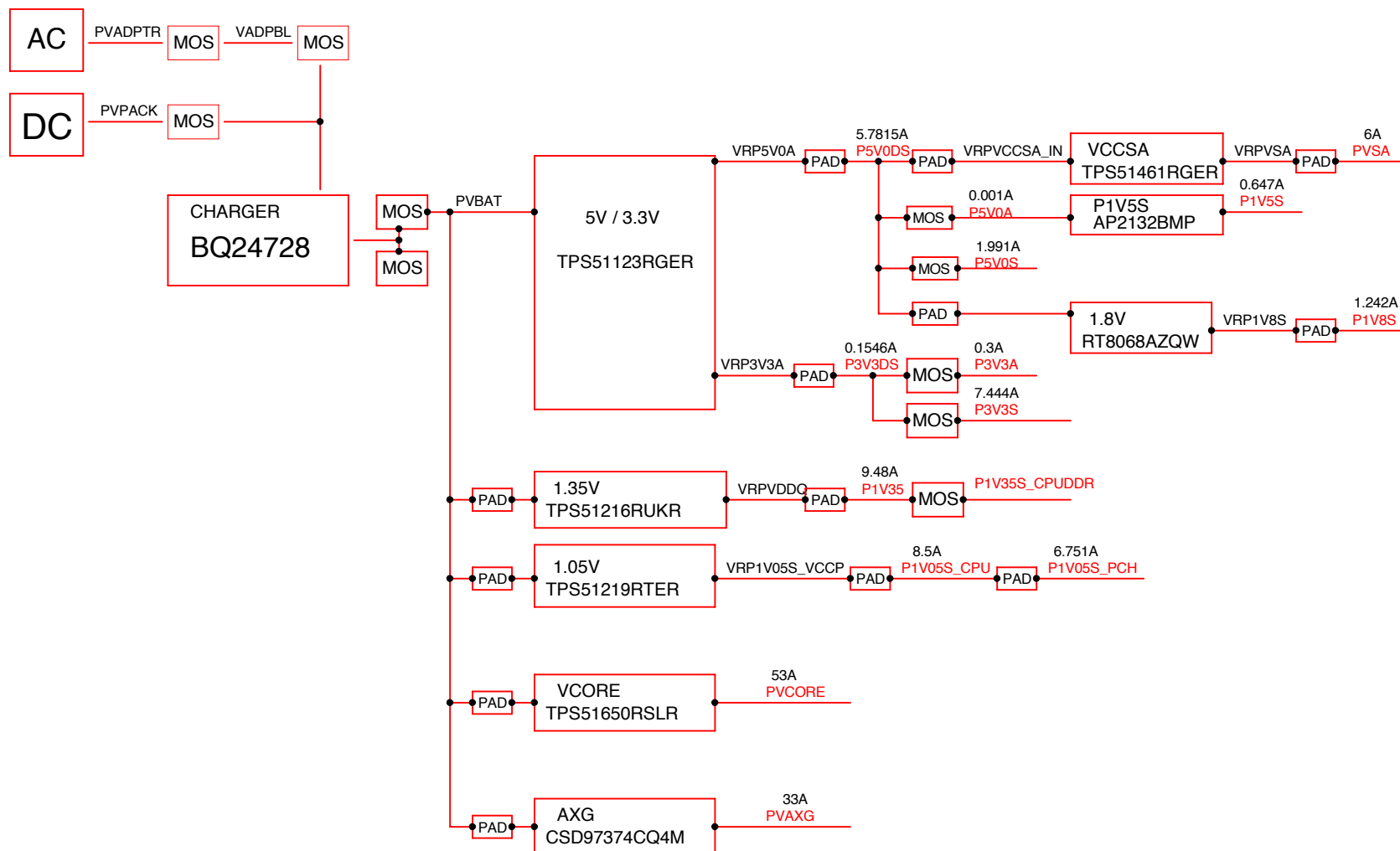
51 AUB\_USB30-2  
52 LAN RLT8161GSH-CG  
53 TRANSFORMER & RJ45  
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55 DAUGHTER BOARD  
56 ESD BOARD  
57 POWER SEQUENCE  
58 POWER SEQUENCE2

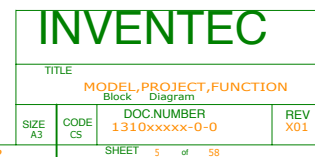
INVENTEC

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INDEX			
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A3	CS	1310xxxxx-0-0	X01
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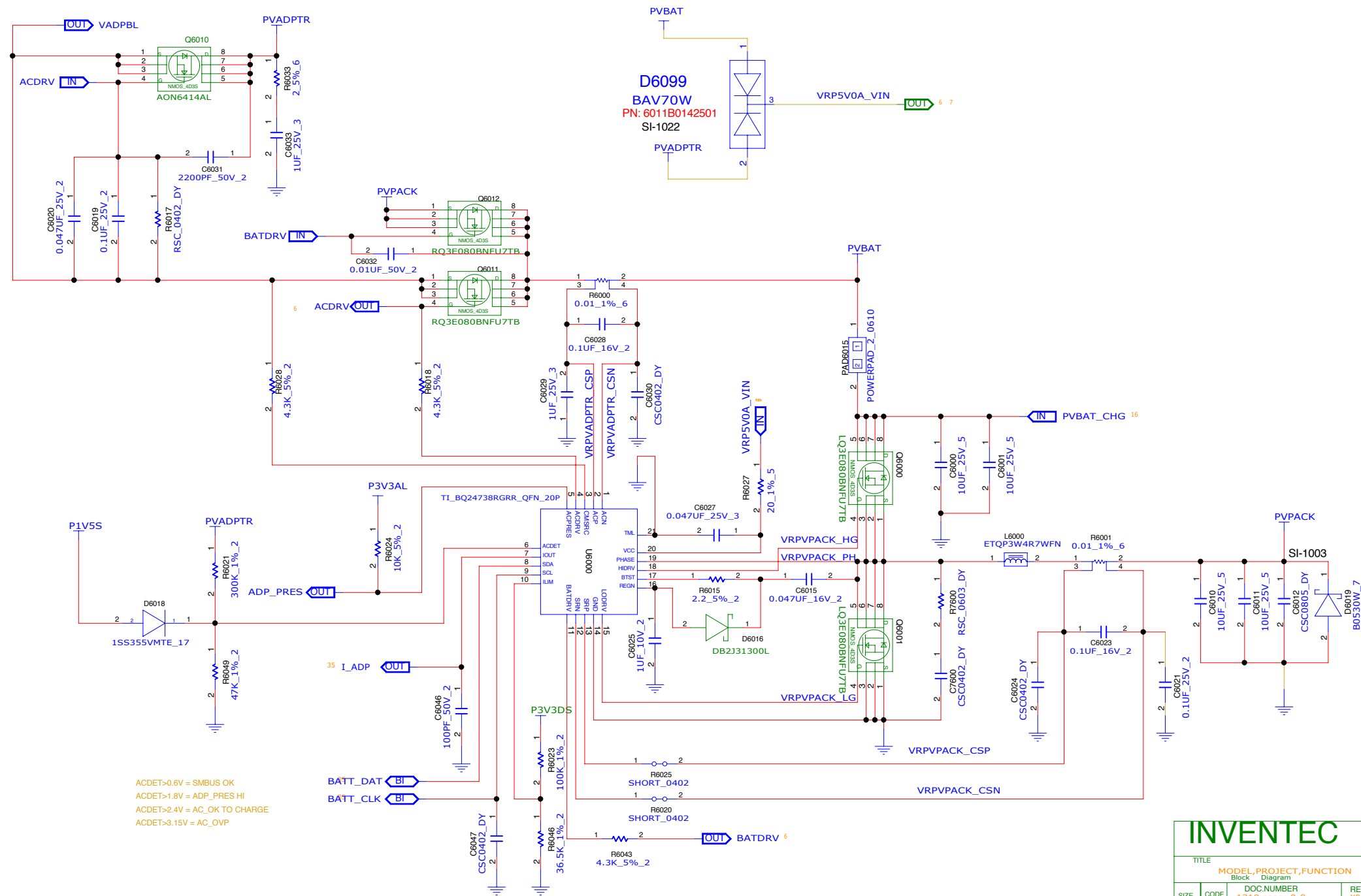


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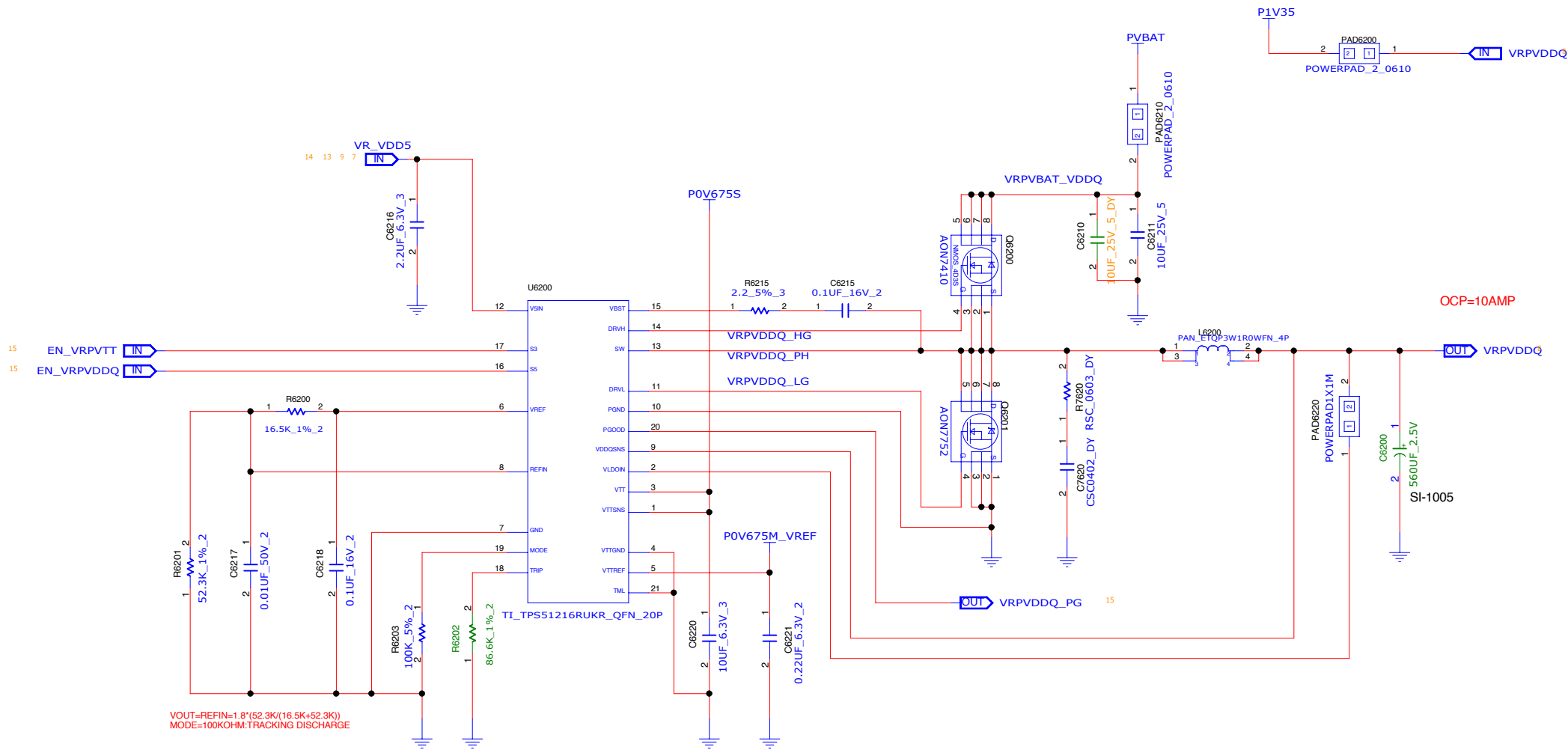


Table 1. S3/S5 Power State Control

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

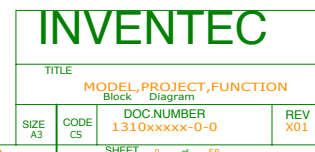
INVENTEC

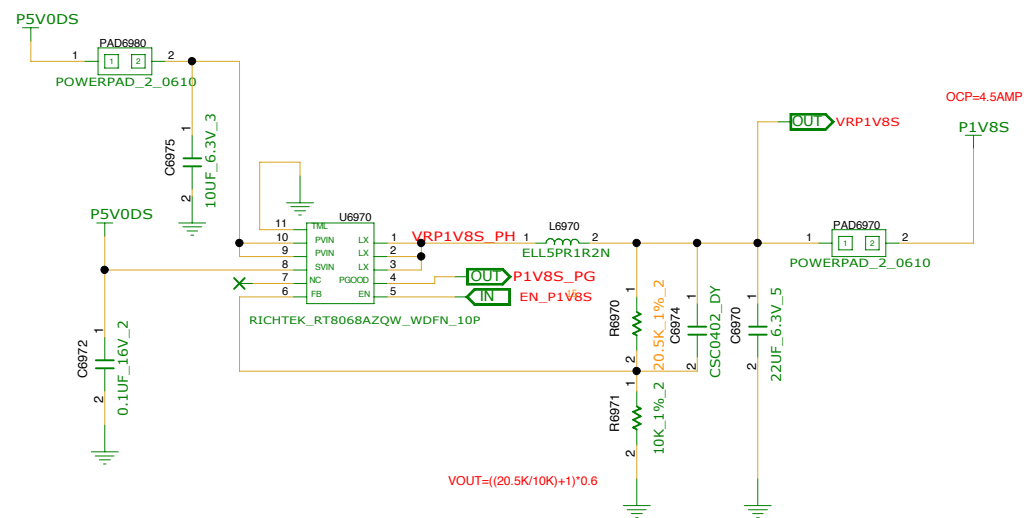
TITLE  
MODEL,PROJECT,FUNCTION  
Block DiagramSIZE A3  
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1310xxxxx-0-0  
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**INVENTEC**

TITLE

MODEL,PROJECT,FUNCTION

Block Diagram

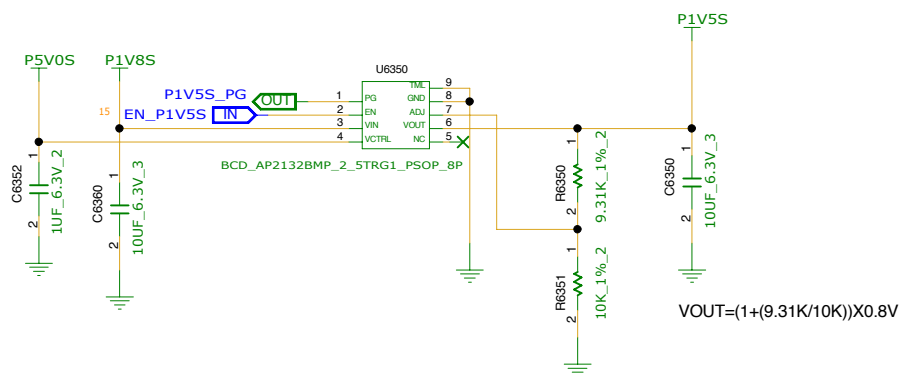
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CSDOC NUMBER  
1310xxxx-0-0REV  
X01

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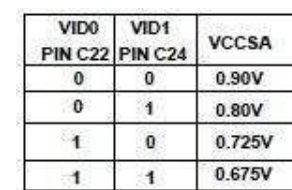
[www.VinaFix.vn](http://www.VinaFix.vn)

**INVENTEC**TITLE  
MODEL, PROJECT, FUNCTION  
Block Diagram

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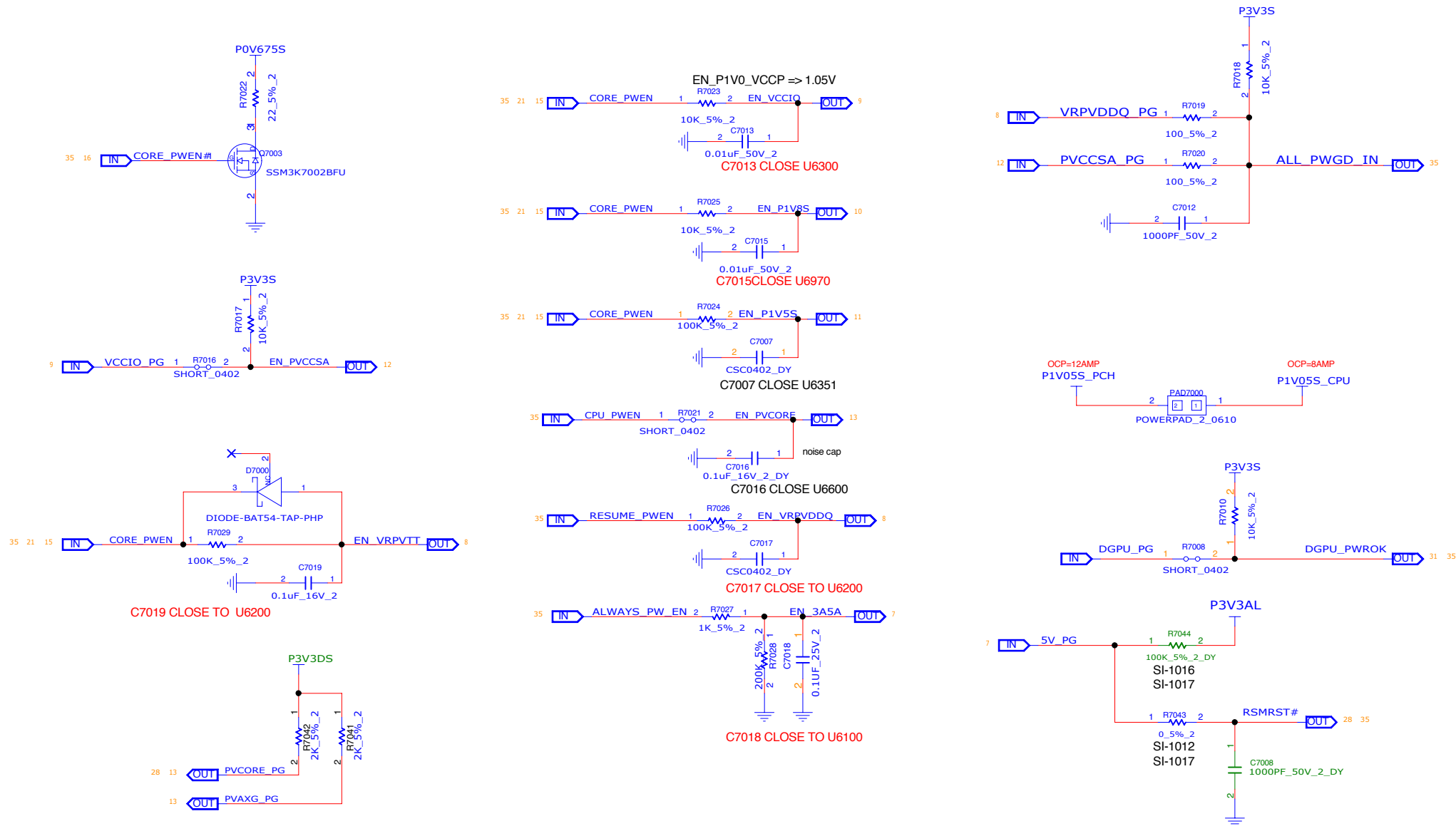
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INVENTEC

TITLE MODEL,PROJECT,FUNCTION

POWER TO EE PORT &amp; EMI PART

DOC NUMBER 1310xxxxx-0-0

REV X01

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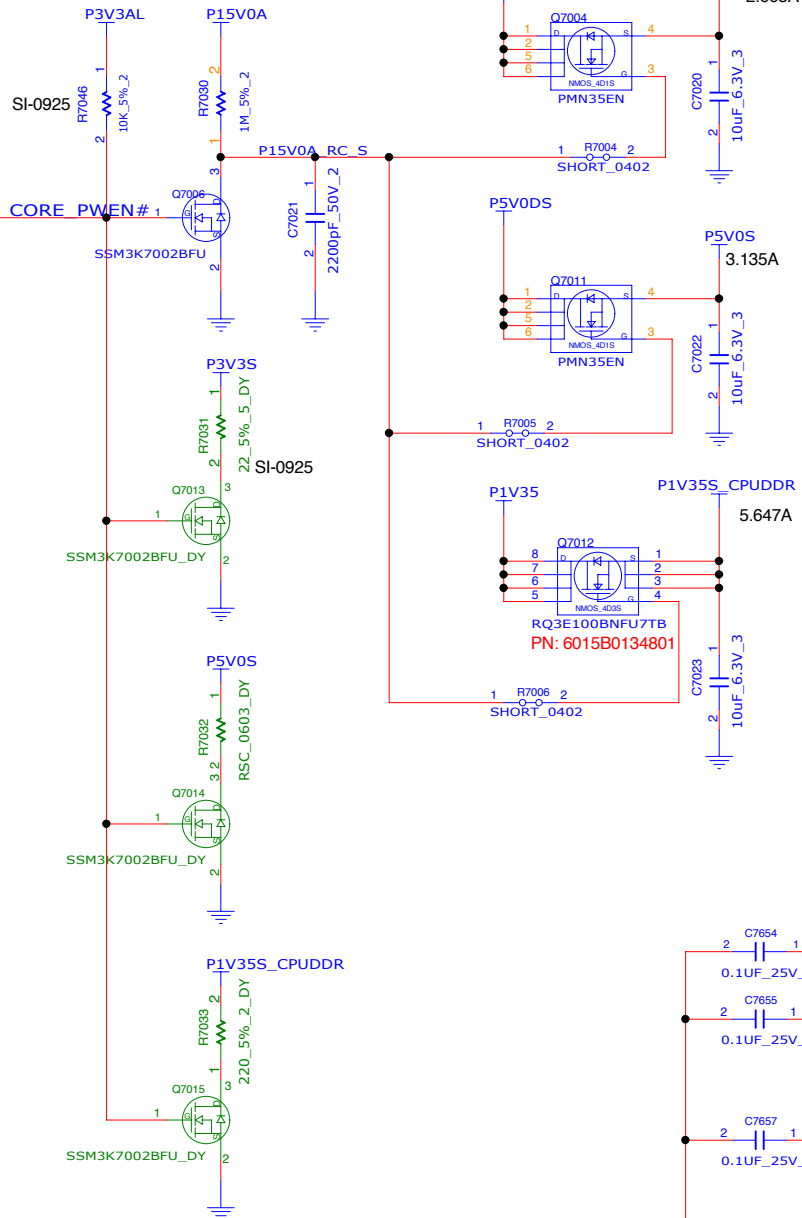
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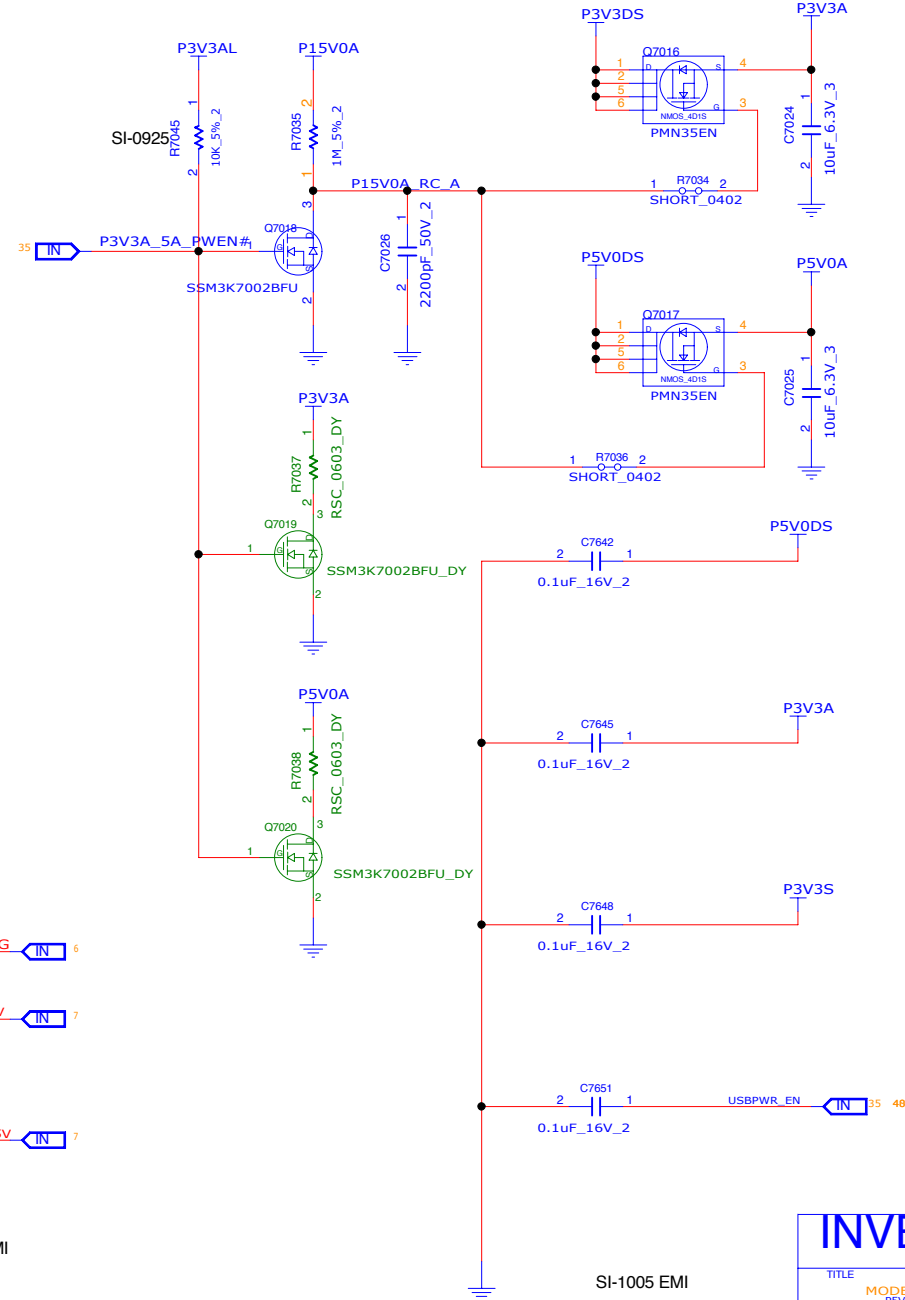
C

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SI-1005 EMI



SI-1005 EMI

INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
P5V0S & P3V3S			
DOC NUMBER			
1310xxxxx-0-0			
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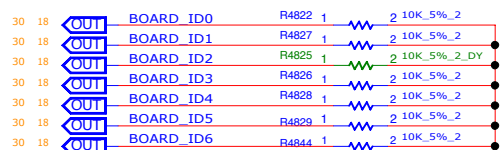
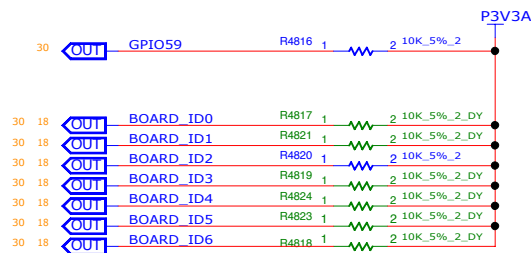
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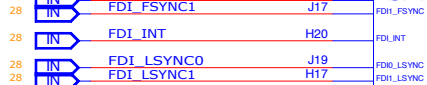
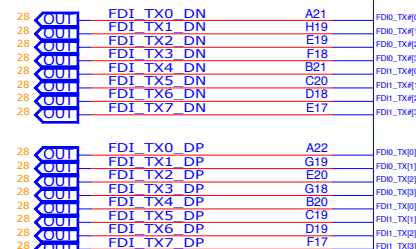
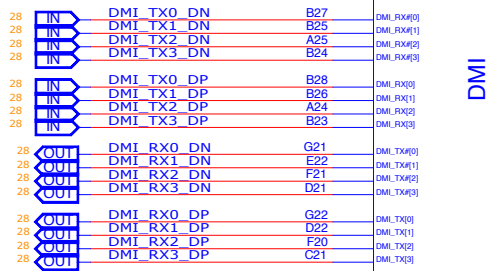
## CN4500

D

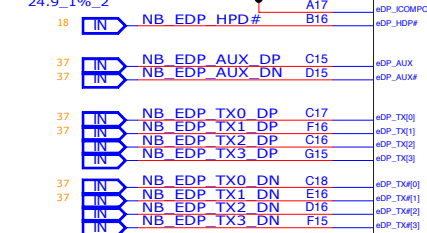


	ID6	ID5	ID4	ID3	ID2	ID1	ID0
UMA	0	0	0	0	1	0	0
DIS	0	0	0	0	1	0	1

C



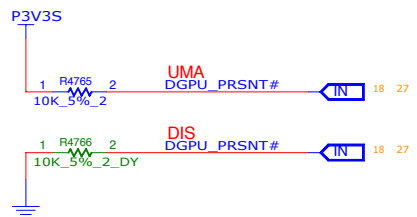
eDP



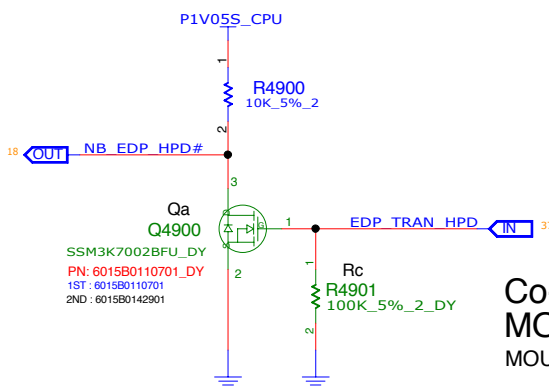
FOX\_P298927\_3641\_41F\_Huronriver\_989P\_CHIEFRIVER

CPU SOCKET, PN: 6026B0154901

B



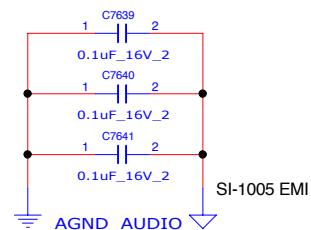
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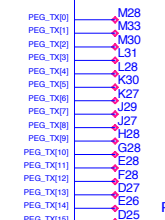
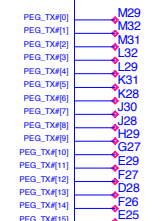
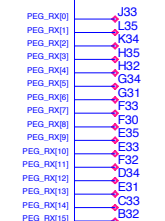
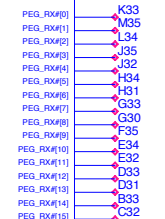
Co-Layot for eDP:

MOUNT RC, QA

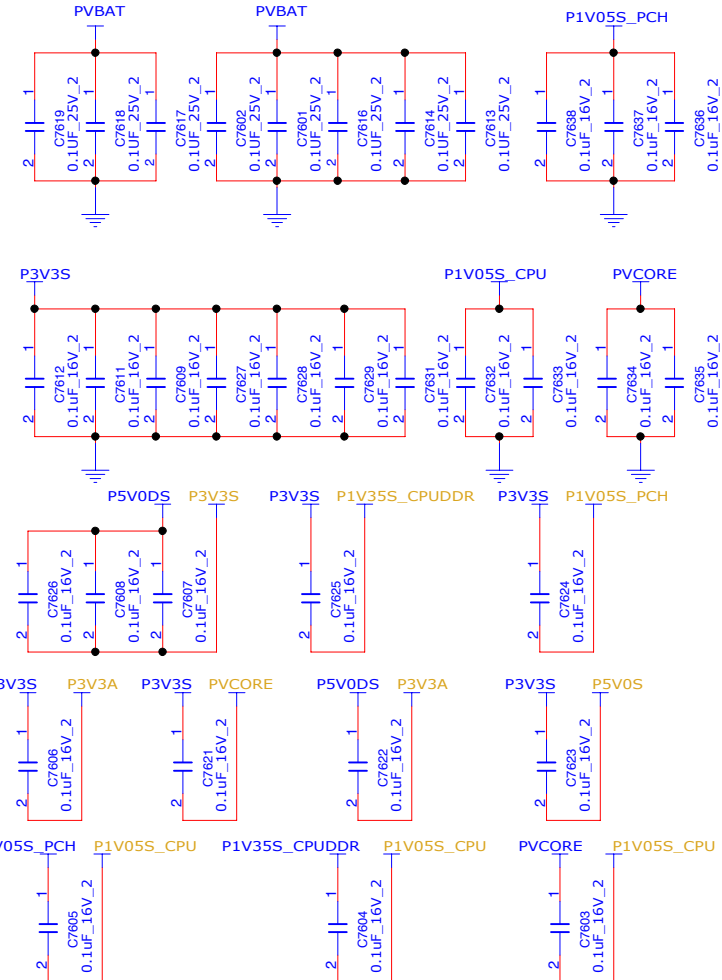
MOUNT FOR EDP PANEL



PCI EXPRESS\* - GRAPHICS



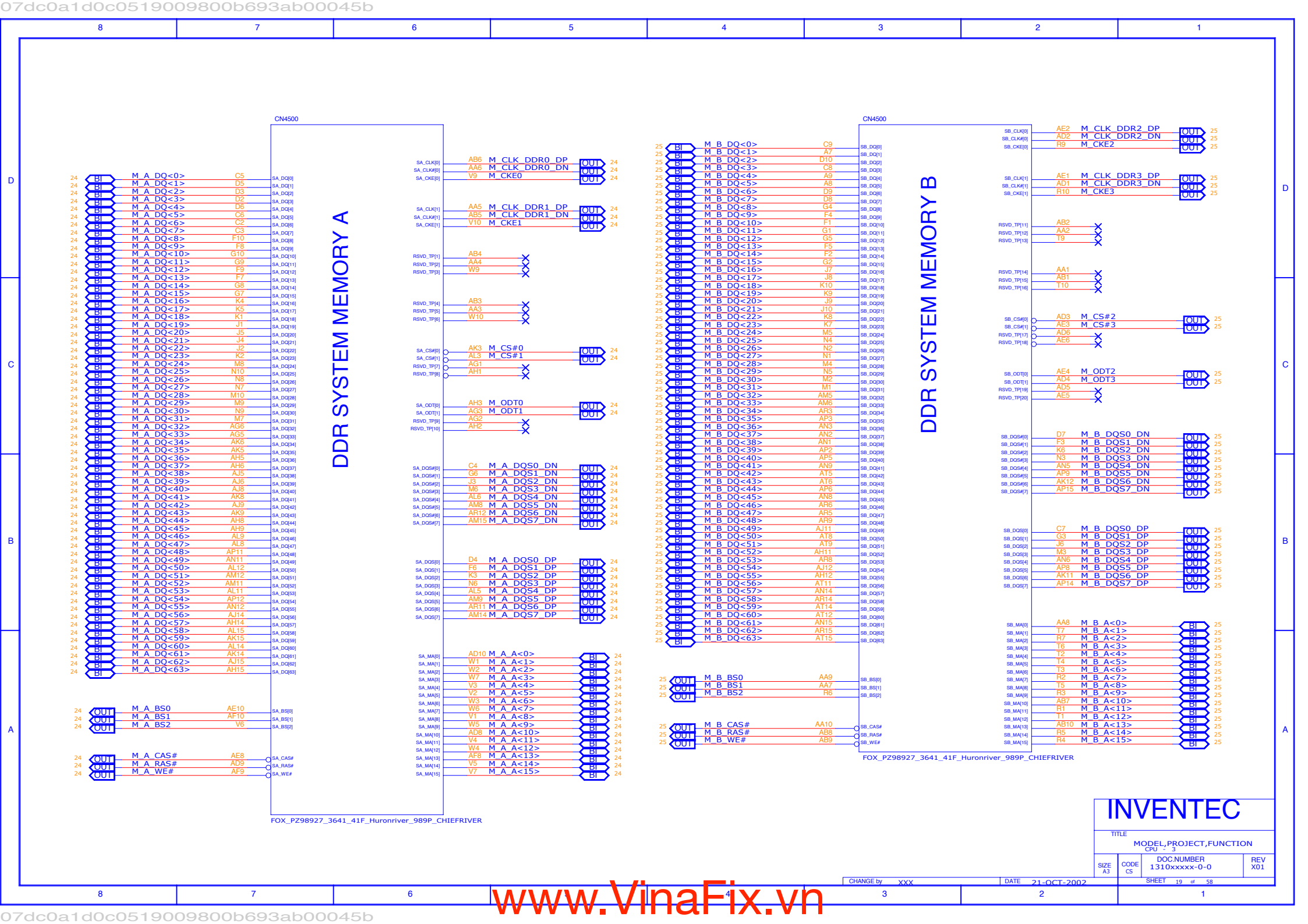
FOR EMI



INVENTEC

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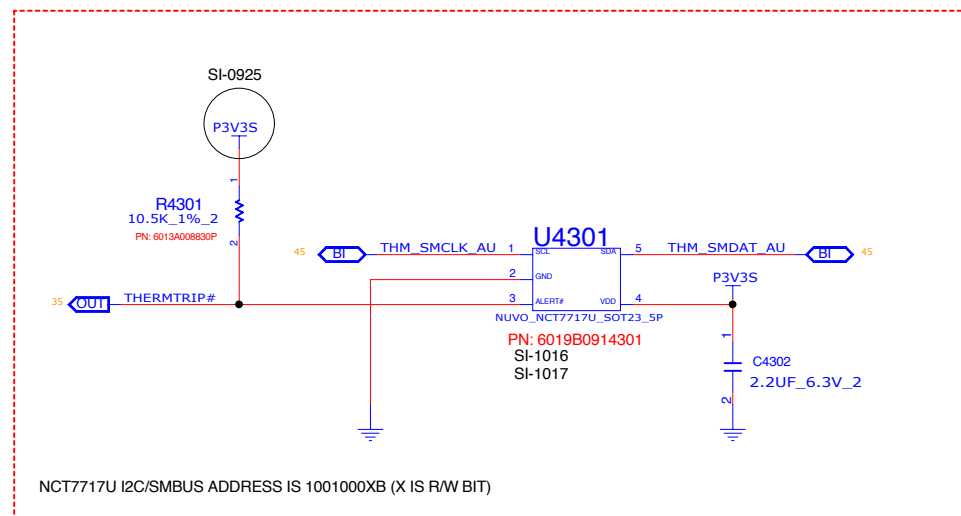
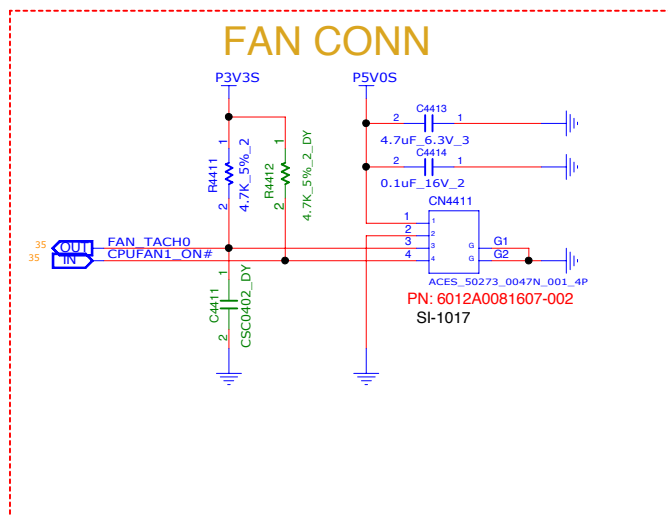
CHANGE by XXX DATE 21-OCT-2002











## 6.6 ALERT# point hardware power-on setting

The default value could be set after power up 100ms by different pull-up resistor of ALERT# pin:

PULL-UP RESISTOR		TEMPERATURE (°C)
ALERT	2KΩ	75
	7.5KΩ	90
	10.5KΩ	100
	14KΩ	105
	18.7KΩ	110

1. THERMAL SENSOR ON PCB TO PROTECT AGAINST POSSIBLE SYSTEM CASE DEFORMATION. SENSOR SHOULD BE ABLE TO THROTTLE SYSTEM AND ALSO CAUSE SYSTEM SHUT DOWN IF NEEDED.( FOR ALL PLATFORM)
2. SUPPORT DPTF FUNCTION. (FOR INTEL SBY)

**INVENTEC**

TITLE			
MODEL PROJECT FUNCTION THERMAL & FAN			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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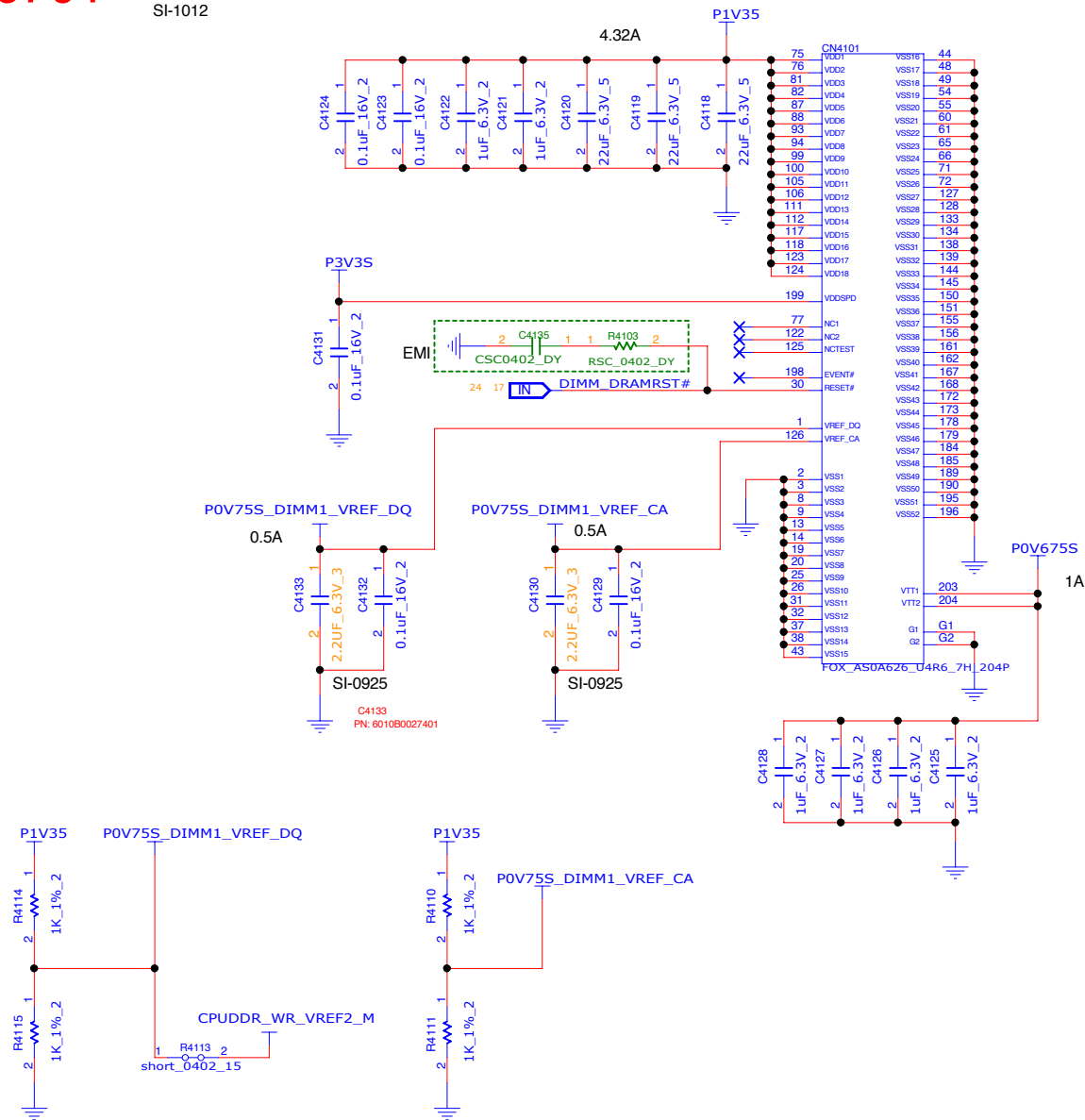
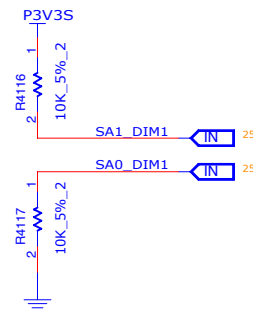
# DDR3 (4MM) P/N : 6026B0216701 BOM CHANGE TO 6026B0221601

SI-1012

19	BI	M B A<0>	98	AD0	DD0	5	M B DQ<0>	19
19	BI	M B A<1>	97	A1	DD1	7	M B DQ<1>	19
19	BI	M B A<2>	96	A2	DD2	15	M B DQ<2>	19
19	BI	M B A<3>	95	A3	DD3	17	M B DQ<3>	19
19	BI	M B A<4>	92	A4	DD4	4	M B DQ<4>	19
19	BI	M B A<5>	91	A5	DD5	6	M B DQ<5>	19
19	BI	M B A<6>	90	A6	DD6	16	M B DQ<6>	19
19	BI	M B A<7>	86	A7	DD7	18	M B DQ<7>	19
19	BI	M B A<8>	89	A8	DD8	21	M B DQ<8>	19
19	BI	M B A<9>	85	A9	DD9	23	M B DQ<9>	19
19	BI	M B A<10>	107	A10_AP	DD10	33	M B DQ<10>	19
19	BI	M B A<11>	84	A11	DD11	35	M B DQ<11>	19
19	BI	M B A<12>	83	A12	DD12	22	M B DQ<12>	19
19	BI	M B A<13>	119	A13	DD13	24	M B DQ<13>	19
19	BI	M B A<14>	80	A14	DD14	34	M B DQ<14>	19
19	BI	M B A<15>	78	A15	DD15	36	M B DQ<15>	19
19	IN	M B BS0	109	BA0	DD16	39	M B DQ<16>	19
19	IN	M B BS1	108	BA1	DD17	41	M B DQ<17>	19
19	IN	M B BS2	79	BA2	DD18	51	M B DQ<18>	19
19	IN	M CS#2	114	SBP	DD19	53	M B DQ<19>	19
19	IN	M CS#3	121	SBP	DD20	42	M B DQ<20>	19
19	IN	M CLK DDR2 DP	101	CK0	DD22	50	M B DQ<22>	19
19	IN	M CLK DDR2 DN	103	CK0#	DD23	52	M B DQ<23>	19
19	IN	M CLK DDR3 DP	102	CK1	DD24	57	M B DQ<24>	19
19	IN	M CLK DDR3 DN	104	CK1#	DD25	59	M B DQ<25>	19
19	IN	M CKE2	73	CKE2	DD26	67	M B DQ<26>	19
19	IN	M CKE3	74	CKE3	DD27	69	M B DQ<27>	19
19	IN	M B CAS#	115	CAS#	DD28	56	M B DQ<28>	19
19	IN	M B RAS#	110	RAS#	DD29	58	M B DQ<29>	19
19	IN	M B WE#	113	WE#	DD30	68	M B DQ<31>	19
25	IN	SA0_DIM1	197	SA0	DD31	70	M B DQ<30>	19
25	IN	PCH_3S_SMCLK	202	SA1	DD32	129	M B DQ<36>	19
27	IN	PCH_3S_SMDAT	200	SCL	DD33	131	M B DQ<37>	19
27	IN			SDA	DD34	141	M B DQ<34>	19
19	IN	M ODT2	116	ODT0	DD35	143	M B DQ<35>	19
19	IN	M ODT3	120	ODT1	DD36	130	M B DQ<32>	19
19					DD37	132	M B DQ<33>	19
19					DD38	140	M B DQ<39>	19
19					DD39	142	M B DQ<38>	19
19					DD40	147	M B DQ<41>	19
19					DD41	149	M B DQ<45>	19
19					DD42	157	M B DQ<46>	19
19					DD43	159	M B DQ<42>	19
19					DD44	146	M B DQ<44>	19
19					DD45	148	M B DQ<40>	19
19					DD46	158	M B DQ<43>	19
19					DD47	160	M B DQ<47>	19
19	IN	M B DQS0 DP	12	DQS0	DD48	163	M B DQ<48>	19
19	IN	M B DQS1 DP	29	DQS1	DD49	165	M B DQ<53>	19
19	IN	M B DQS2 DP	47	DQS2	DD50	175	M B DQ<54>	19
19	IN	M B DQS3 DP	64	DQS3	DD51	177	M B DQ<55>	19
19	IN	M B DQS4 DP	137	DQS4	DD52	164	M B DQ<49>	19
19	IN	M B DQS5 DP	184	DQS5	DD53	166	M B DQ<52>	19
19	IN	M B DQS6 DP	171	DQS6	DD54	174	M B DQ<51>	19
19	IN	M B DQS7 DP	188	DQS7	DD55	176	M B DQ<50>	19
19	IN	M B DQS0 DN	10	DQS#0	DD56	181	M B DQ<58>	19
19	IN	M B DQS1 DN	27	DQS#1	DD57	183	M B DQ<61>	19
19	IN	M B DQS2 DN	45	DQS#2	DD58	191	M B DQ<62>	19
19	IN	M B DQS3 DN	62	DQS#3	DD59	193	M B DQ<63>	19
19	IN	M B DQS4 DN	135	DQS#4	DD60	180	M B DQ<57>	19
19	IN	M B DQS5 DN	152	DQS#5	DD61	182	M B DQ<56>	19
19	IN	M B DQS6 DN	169	DQS#6	DD62	192	M B DQ<59>	19
19	IN	M B DQS7 DN	186	DQS#7	DD63	194	M B DQ<60>	19

FOX\_AS0A626\_U4R6\_7H\_204P

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



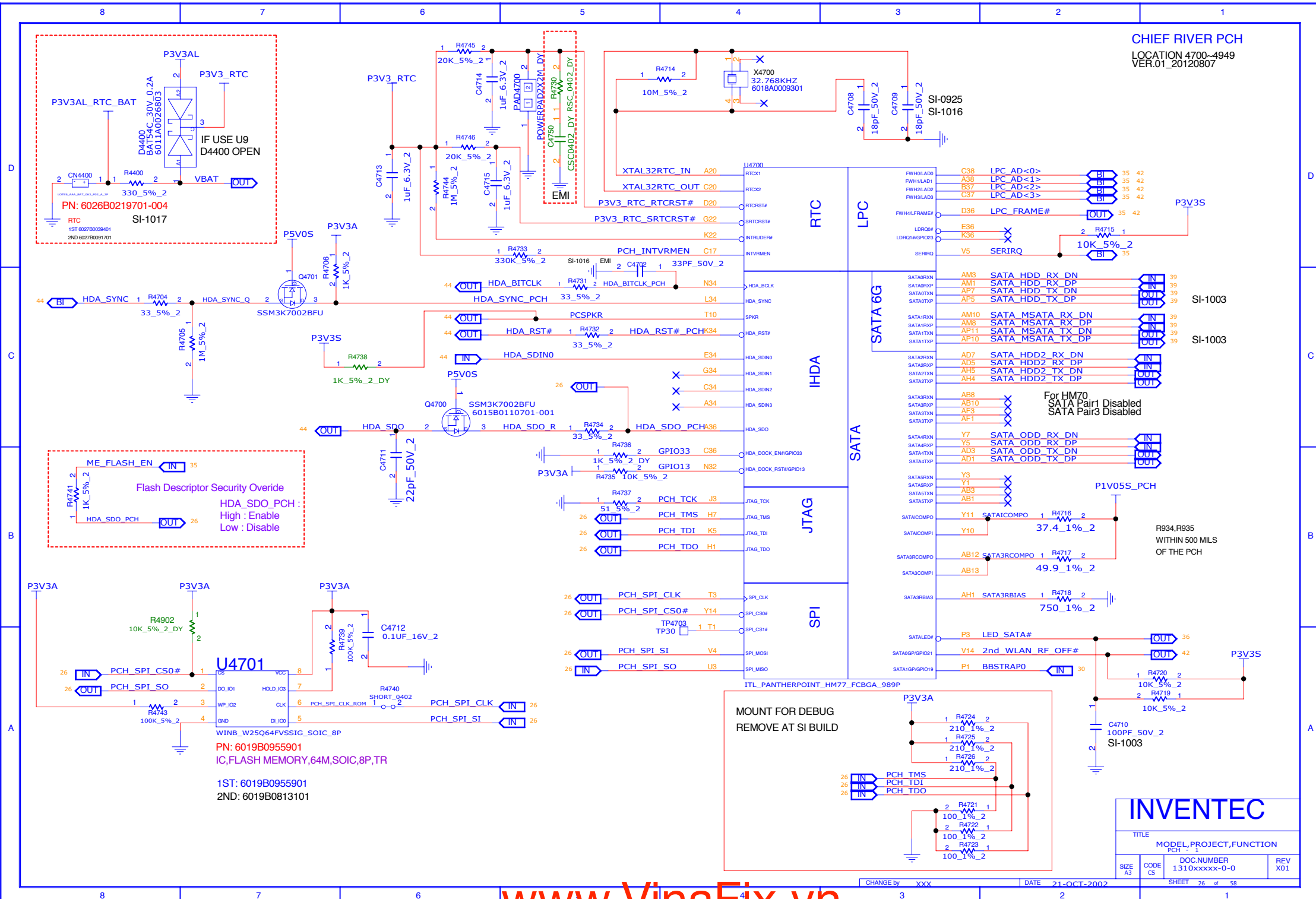
SANDY BRIDGE + IVY BRIDGE DG4.14

INVENTEC

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

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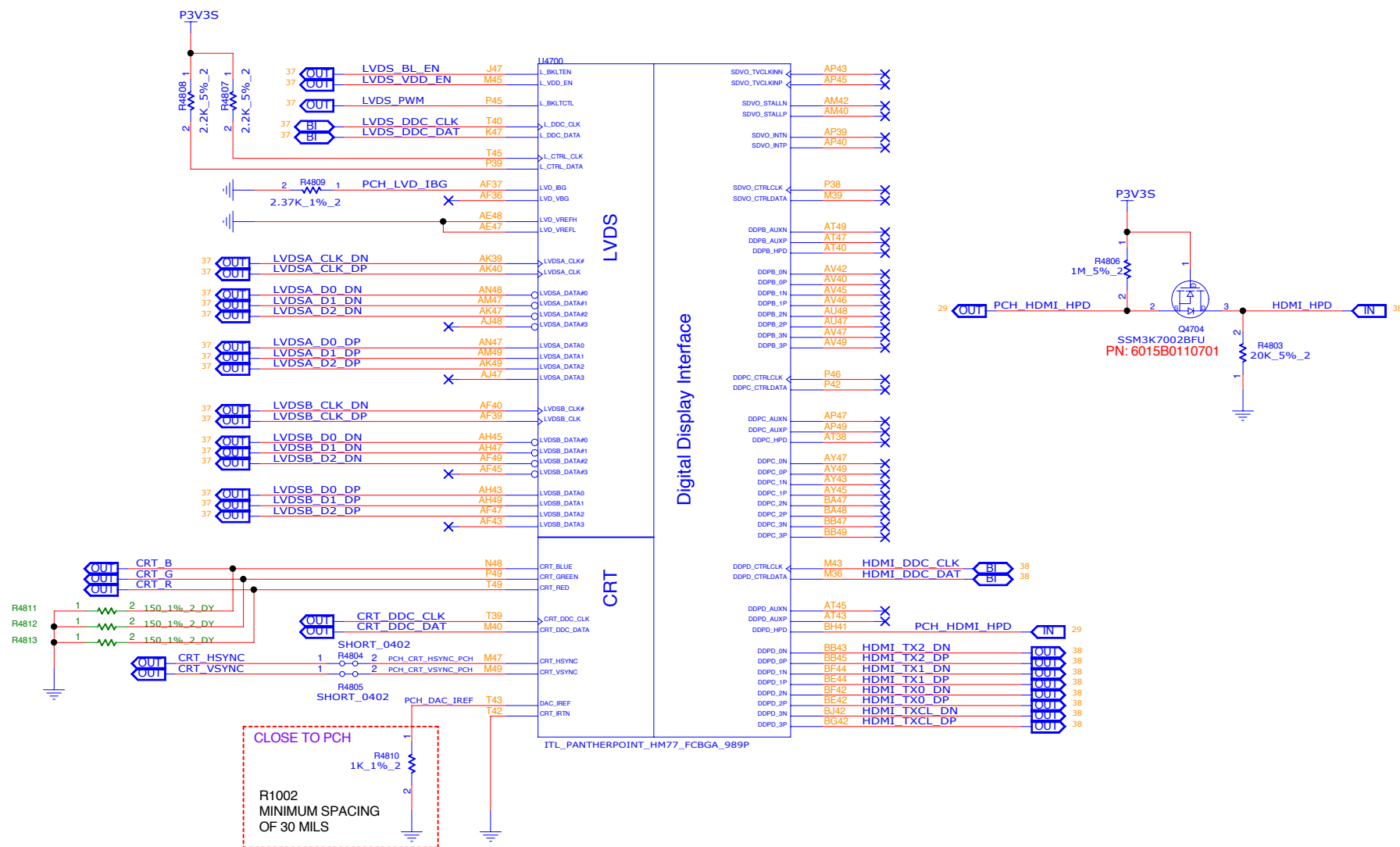
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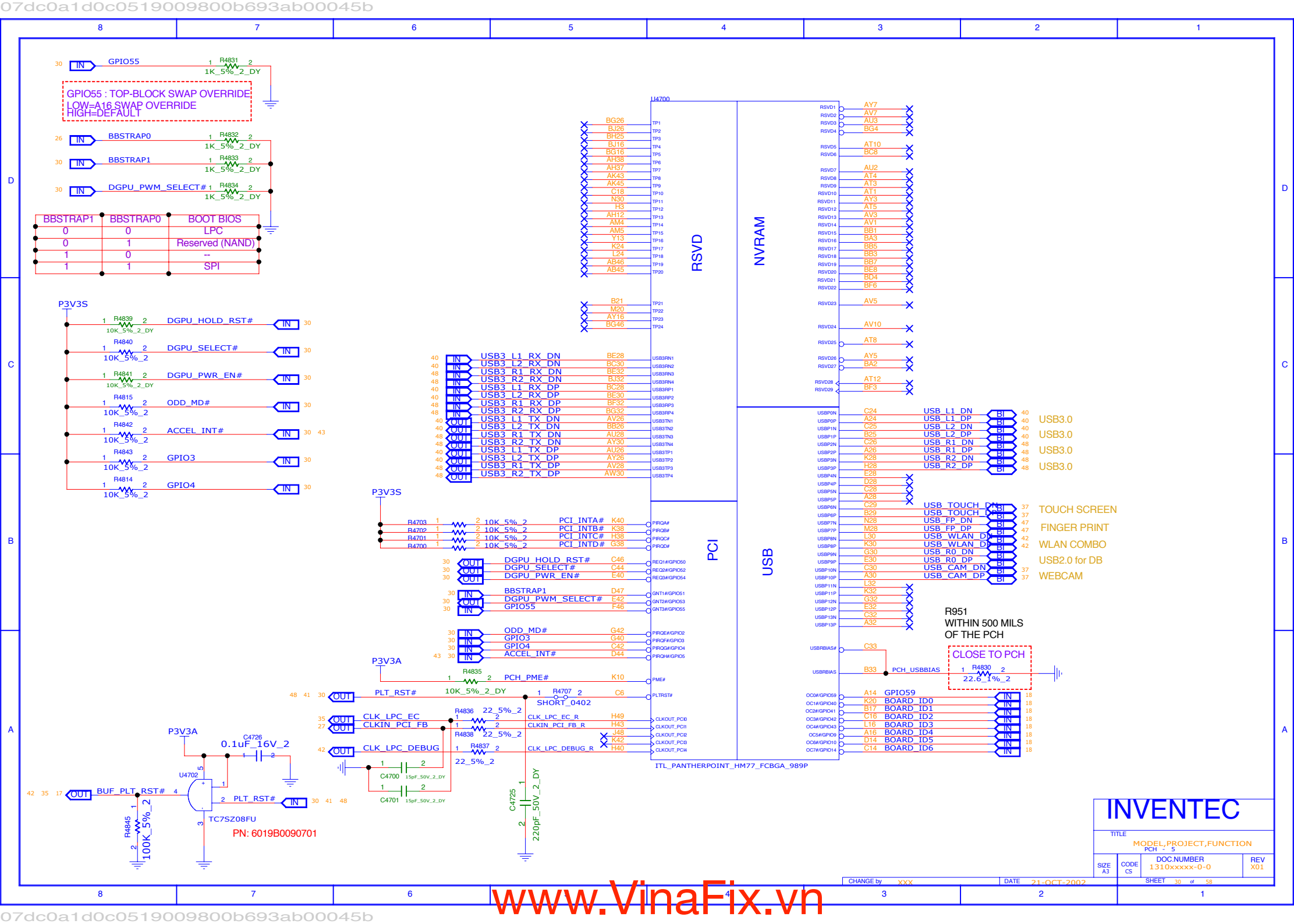
TITLE  
MODEL,PROJECT,FUNCTION  
PCH - 4

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

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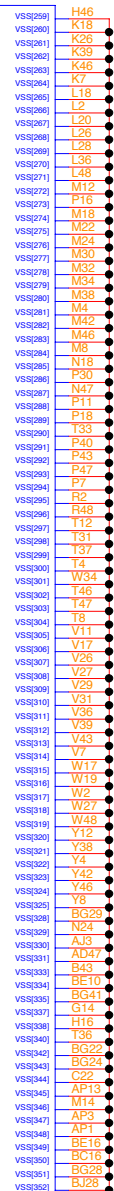


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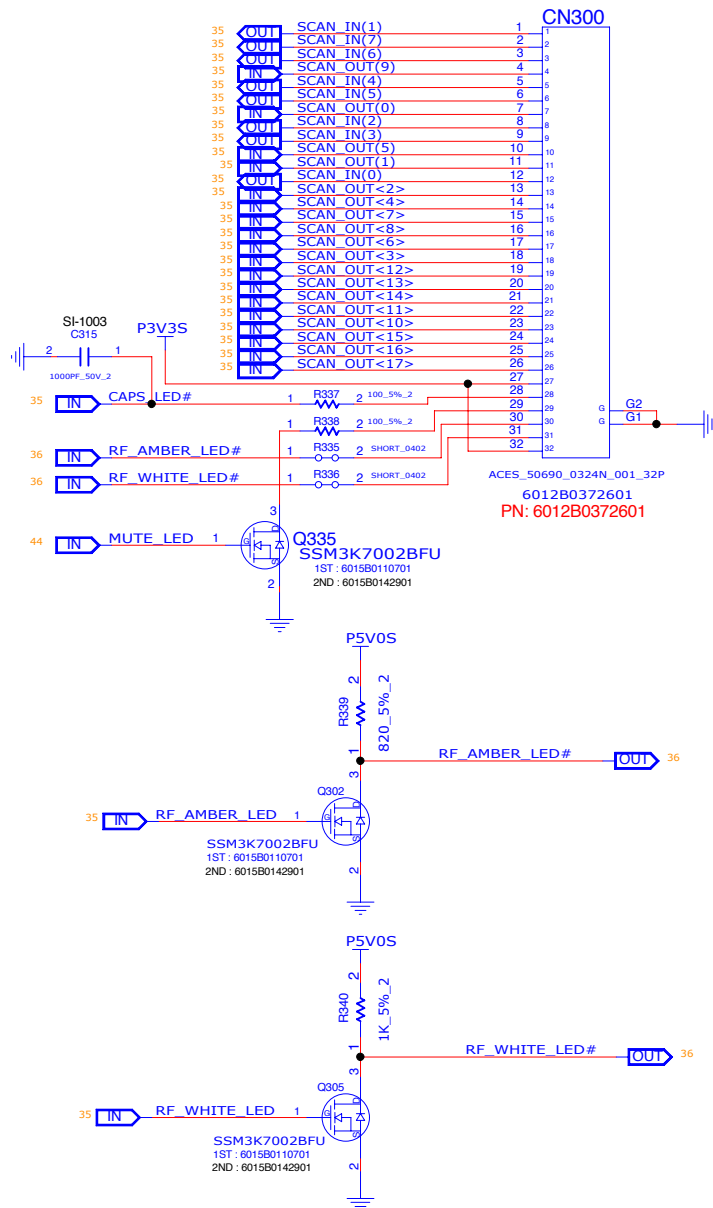




CHANGE by	XXX	DATE	21-OCT-2002
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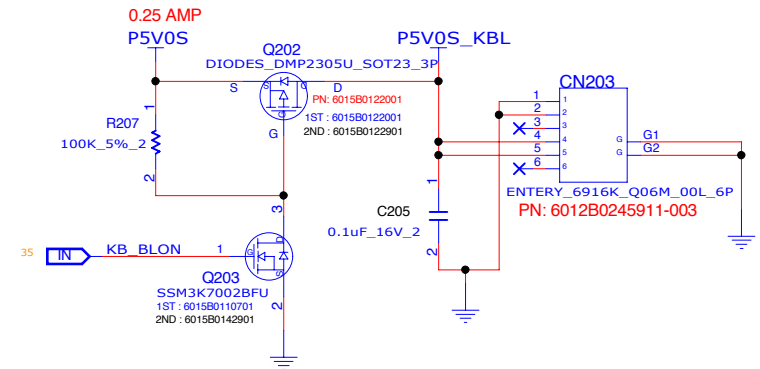
EC 2013EE1B  
Location 300 ~ 389  
VER.05 20120824

# KEYBOARD CONN(32 PIN)



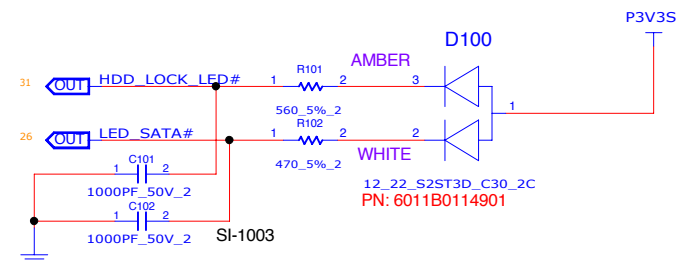
## CONNECTOR KEY BOARD 200~299

# KEYBOARD BACKLIGHT

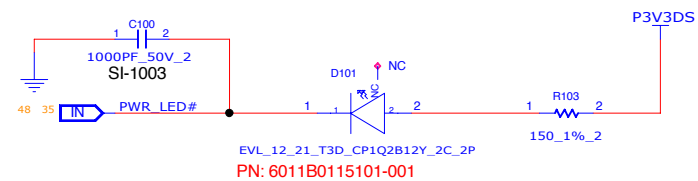


## LED 100~199

# HDD LED



# POWER LED



**INVENTEC**

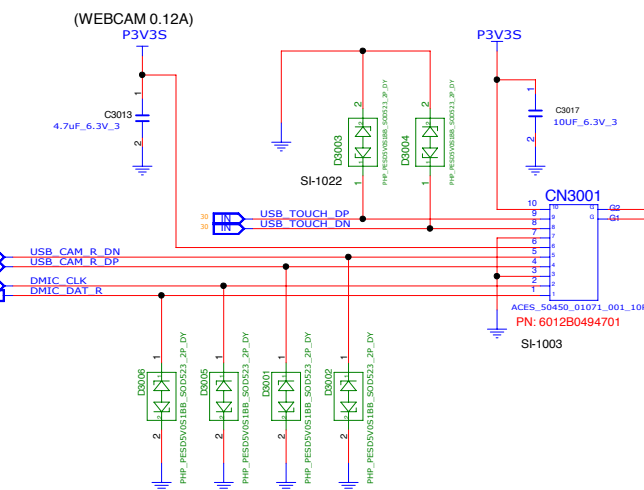
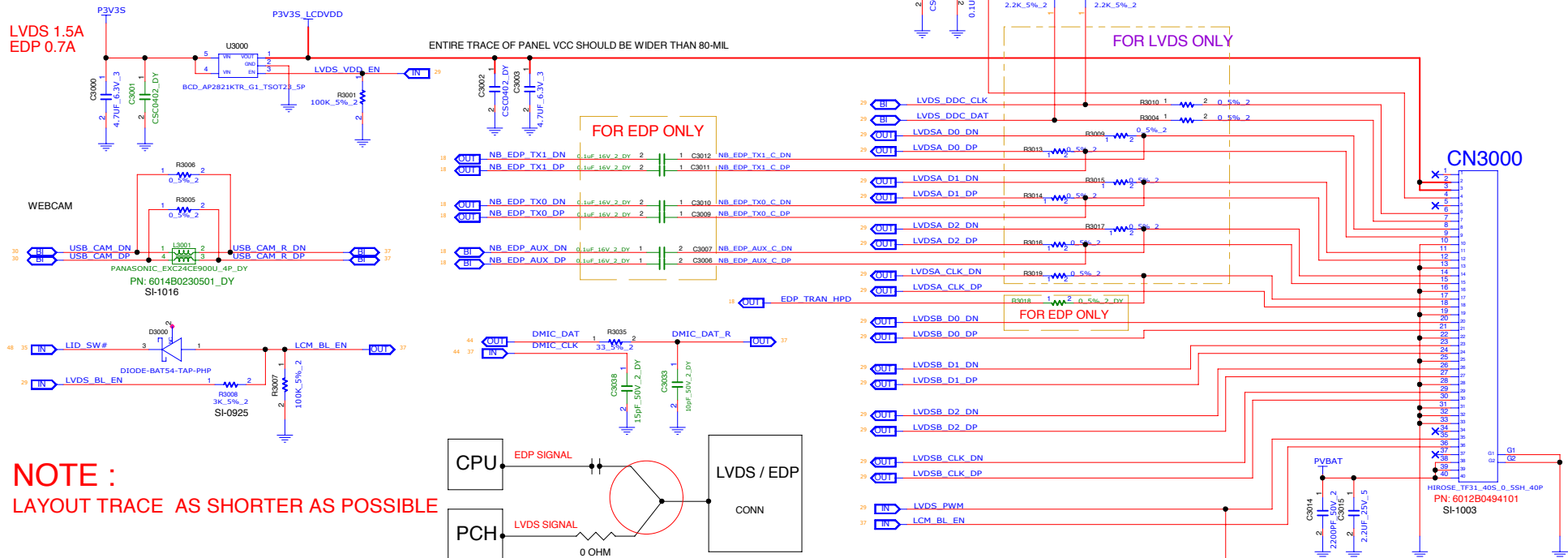
TITLE			
MODEL PROJECT,FUNCTION			
KB_CONN & LED			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 36 of 58

# 40 PIN LCM CONN FOR DREAMWORK CR

LOCATION 3000~3049  
VER.01\_20120822



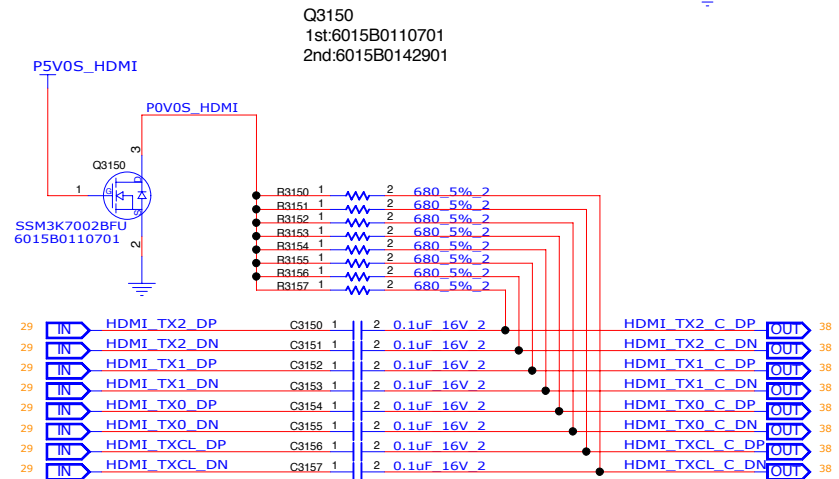
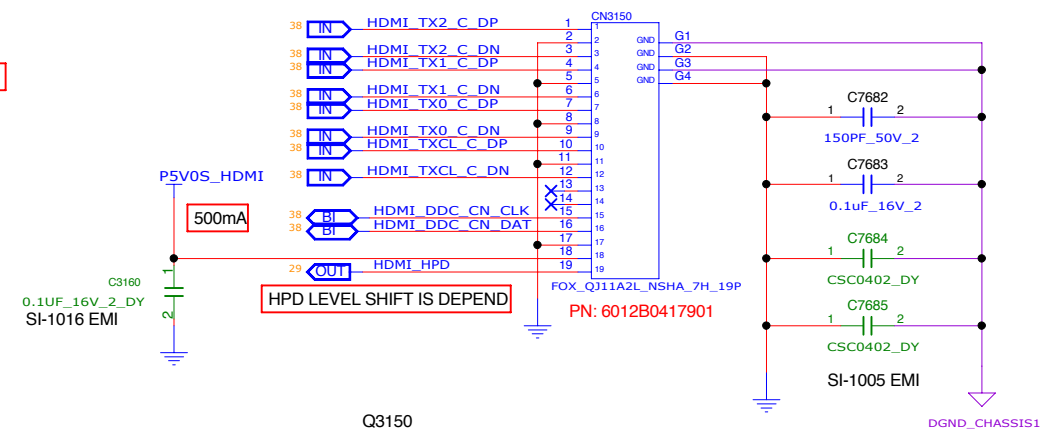
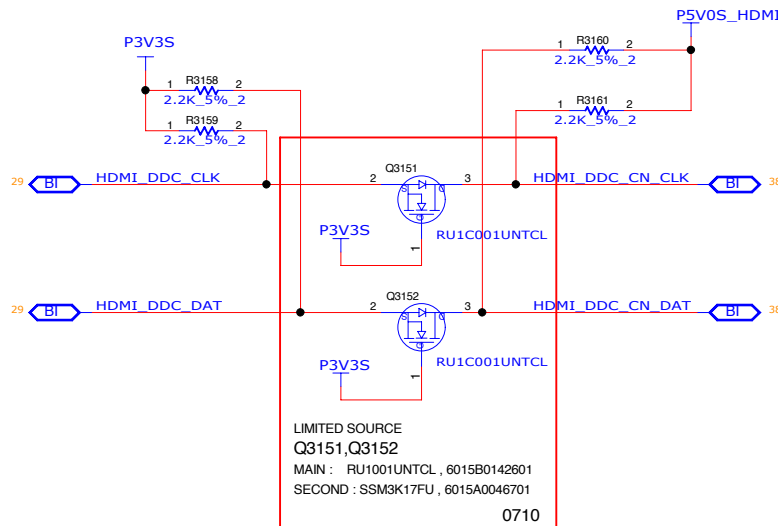
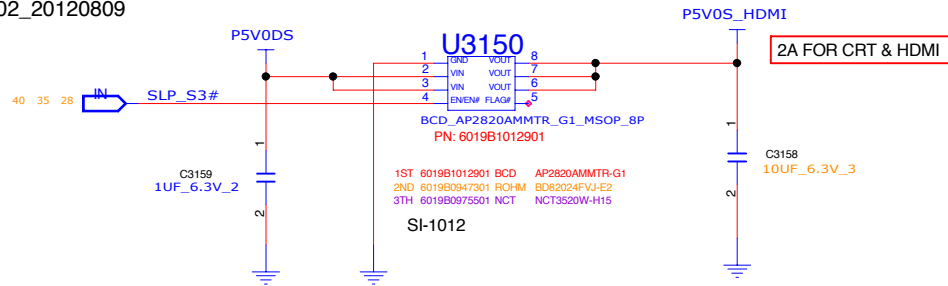
WEBCAM+TOUCHN SCREEN

INVENTEC

MODEL/PROJECT/FUNCTION			
LVDS			
SIZE	CODE	DOC NUMBER	REV
E	CS	1310VXXXX-0-D	001
SHEET		37	of 38

# HDMI

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

DOC NUMBER  
1310xxxxx-0-0

REV  
X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 38 of 58

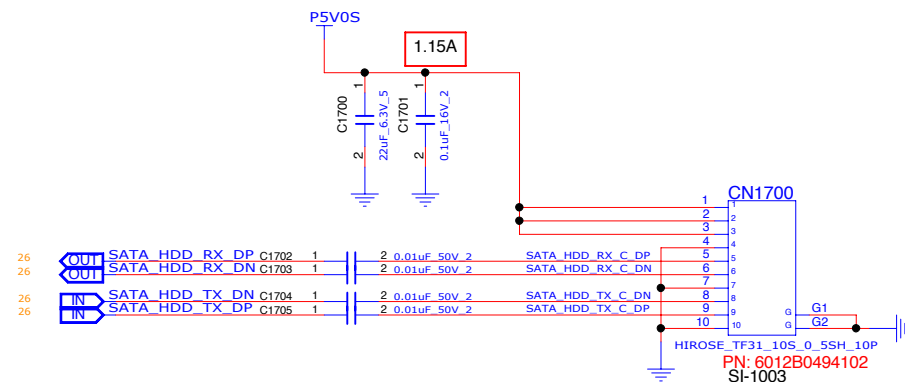
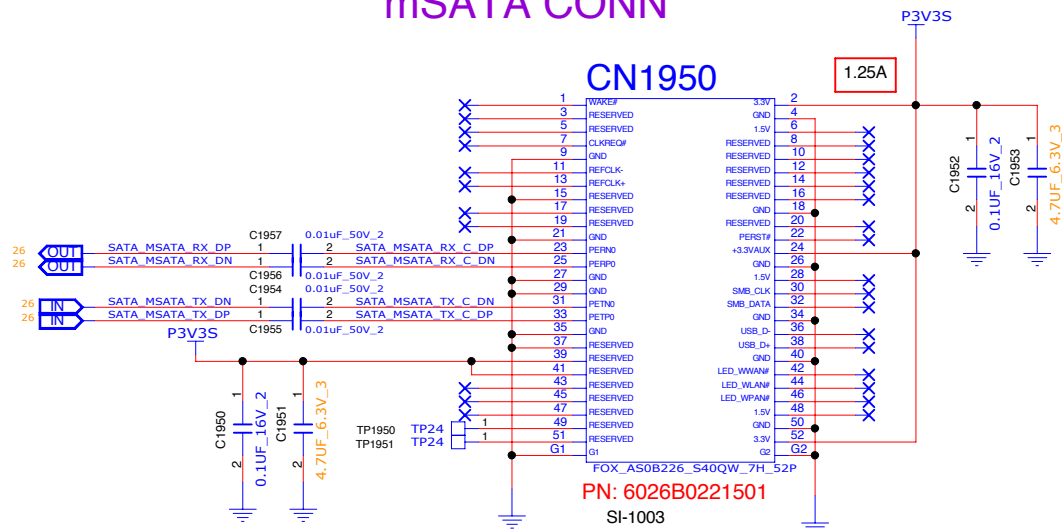
**SATA HDD**

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

SHEET 39 of 58

CHANGE by XXX DATE 21-OCT-2002





SI-0925

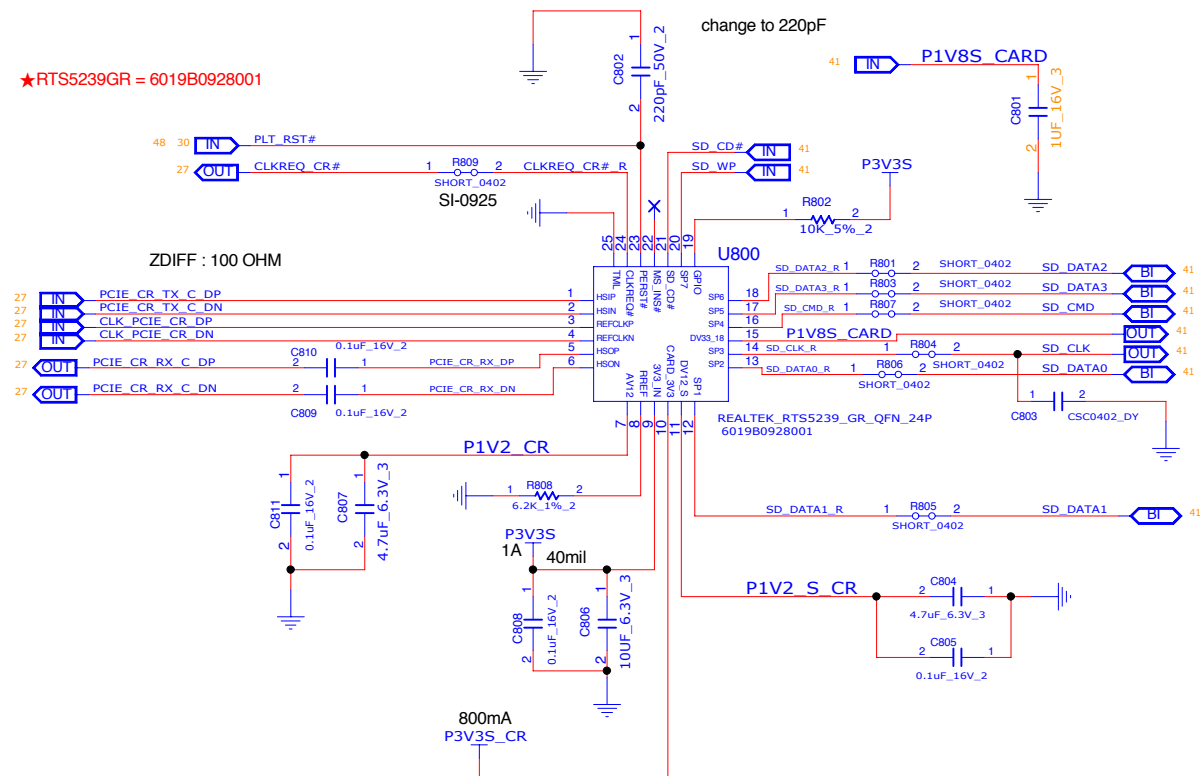
www.VinaFix.vn

CHANGE by	XXX	DATE	21-OCT-2002
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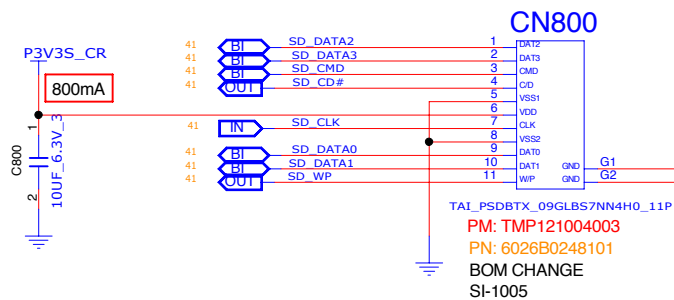


LOCATION: 800~899  
VER\_04 . 20120823

★RTS5239GR = 6019B0928001



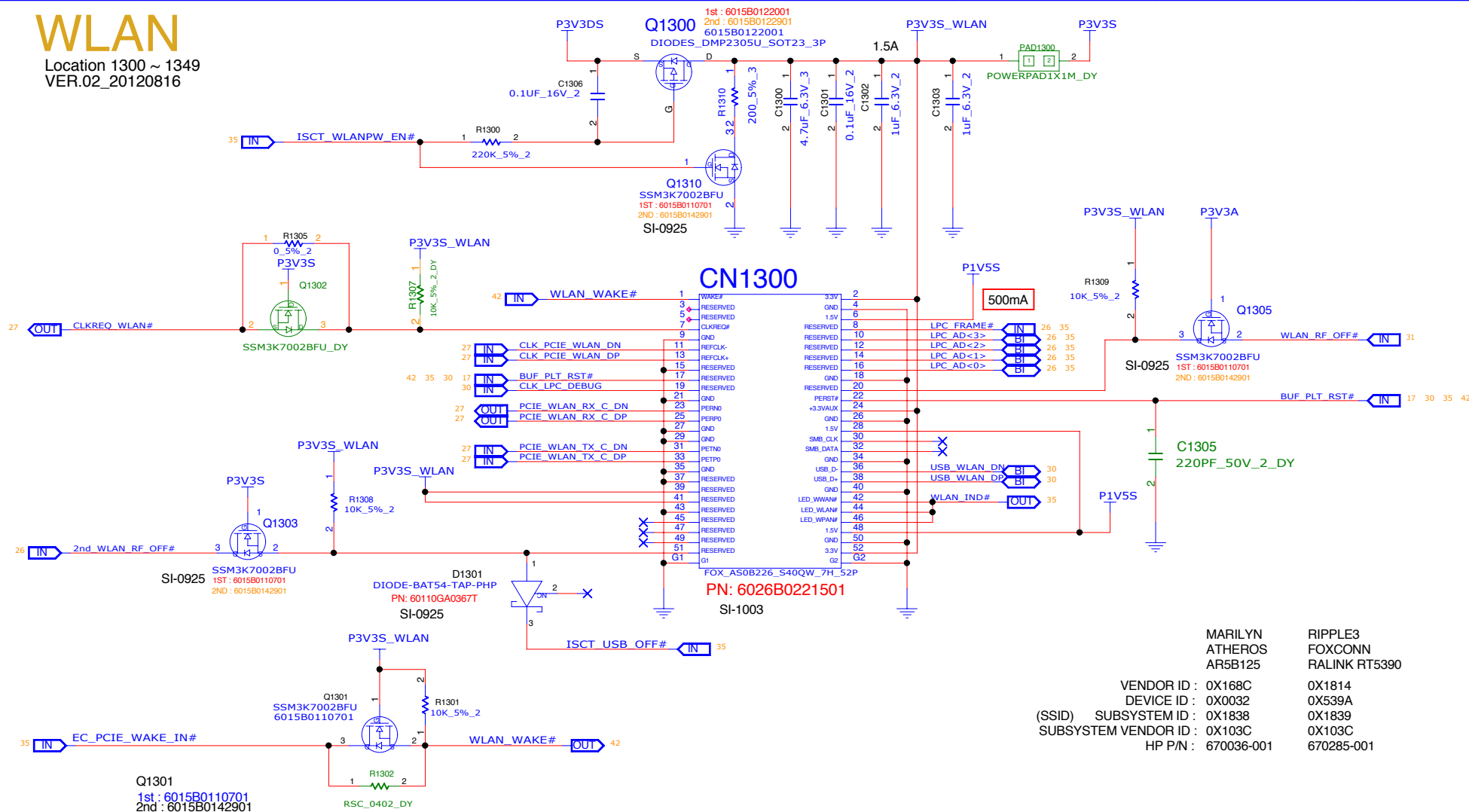
## CN800



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

SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
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Location 1300 ~ 1349  
VER.02 20120816



Location	Part number	Factory	Manufacturer Part No	Marking
D1300	1st : 6011A0026801	DIODES	D-BAT54-7	KL1
	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

```

      VENDOR ID : 0X168C      0X1814
      DEVICE ID : 0X0032      0X539A
(SSID) SUBSYSTEM ID : 0X1838      0X1839
      SUBSYSTEM VENDOR ID : 0X103C      0X103C
      HP P/N : 670036-001      670285-001

```

INVENTEC

TITLE	MODEL	PROJECT	FUNCTION
1.1	1.1.1	1.1.1.1	1.1.1.1.1
1.2	1.2.1	1.2.1.1	1.2.1.1.1
1.3	1.3.1	1.3.1.1	1.3.1.1.1
1.4	1.4.1	1.4.1.1	1.4.1.1.1
1.5	1.5.1	1.5.1.1	1.5.1.1.1
1.6	1.6.1	1.6.1.1	1.6.1.1.1
1.7	1.7.1	1.7.1.1	1.7.1.1.1
1.8	1.8.1	1.8.1.1	1.8.1.1.1
1.9	1.9.1	1.9.1.1	1.9.1.1.1
1.10	1.10.1	1.10.1.1	1.10.1.1.1
1.11	1.11.1	1.11.1.1	1.11.1.1.1
1.12	1.12.1	1.12.1.1	1.12.1.1.1
1.13	1.13.1	1.13.1.1	1.13.1.1.1
1.14	1.14.1	1.14.1.1	1.14.1.1.1
1.15	1.15.1	1.15.1.1	1.15.1.1.1
1.16	1.16.1	1.16.1.1	1.16.1.1.1
1.17	1.17.1	1.17.1.1	1.17.1.1.1
1.18	1.18.1	1.18.1.1	1.18.1.1.1
1.19	1.19.1	1.19.1.1	1.19.1.1.1
1.20	1.20.1	1.20.1.1	1.20.1.1.1
1.21	1.21.1	1.21.1.1	1.21.1.1.1
1.22	1.22.1	1.22.1.1	1.22.1.1.1
1.23	1.23.1	1.23.1.1	1.23.1.1.1
1.24	1.24.1	1.24.1.1	1.24.1.1.1
1.25	1.25.1	1.25.1.1	1.25.1.1.1
1.26	1.26.1	1.26.1.1	1.26.1.1.1
1.27	1.27.1	1.27.1.1	1.27.1.1.1
1.28	1.28.1	1.28.1.1	1.28.1.1.1
1.29	1.29.1	1.29.1.1	1.29.1.1.1
1.30	1.30.1	1.30.1.1	1.30.1.1.1
1.31	1.31.1	1.31.1.1	1.31.1.1.1
1.32	1.32.1	1.32.1.1	1.32.1.1.1
1.33	1.33.1	1.33.1.1	1.33.1.1.1
1.34	1.34.1	1.34.1.1	1.34.1.1.1
1.35	1.35.1	1.35.1.1	1.35.1.1.1
1.36	1.36.1	1.36.1.1	1.36.1.1.1
1.37	1.37.1	1.37.1.1	1.37.1.1.1
1.38	1.38.1	1.38.1.1	1.38.1.1.1
1.39	1.39.1	1.39.1.1	1.39.1.1.1
1.40	1.40.1	1.40.1.1	1.40.1.1.1
1.41	1.41.1	1.41.1.1	1.41.1.1.1
1.42	1.42.1	1.42.1.1	1.42.1.1.1
1.43	1.43.1	1.43.1.1	1.43.1.1.1
1.44	1.44.1	1.44.1.1	1.44.1.1.1
1.45	1.45.1	1.45.1.1	1.45.1.1.1
1.46	1.46.1	1.46.1.1	1.46.1.1.1
1.47	1.47.1	1.47.1.1	1.47.1.1.1
1.48	1.48.1	1.48.1.1	1.48.1.1.1
1.49	1.49.1	1.49.1.1	1.49.1.1.1
1.50	1.50.1	1.50.1.1	1.50.1.1.1
1.51	1.51.1	1.51.1.1	1.51.1.1.1
1.52	1.52.1	1.52.1.1	1.52.1.1.1
1.53	1.53.1	1.53.1.1	1.53.1.1.1
1.54	1.54.1	1.54.1.1	1.54.1.1.1
1.55	1.55.1	1.55.1.1	1.55.1.1.1
1.56	1.56.1	1.56.1.1	1.56.1.1.1
1.57	1.57.1	1.57.1.1	1.57.1.1.1
1.58	1.58.1	1.58.1.1	1.58.1.1.1
1.59	1.59.1	1.59.1.1	1.59.1.1.1
1.60	1.60.1	1.60.1.1	1.60.1.1.1
1.61	1.61.1	1.61.1.1	1.61.1.1.1
1.62	1.62.1	1.62.1.1	1.62.1.1.1
1.63	1.63.1	1.63.1.1	1.63.1.1.1
1.64	1.64.1	1.64.1.1	1.64.1.1.1
1.65	1.65.1	1.65.1.1	1.65.1.1.1
1.66	1.66.1	1.66.1.1	1.66.1.1.1
1.67	1.67.1	1.67.1.1	1.67.1.1.1
1.68	1.68.1	1.68.1.1	1.68.1.1.1
1.69	1.69.1	1.69.1.1	1.69.1.1.1
1.70</			

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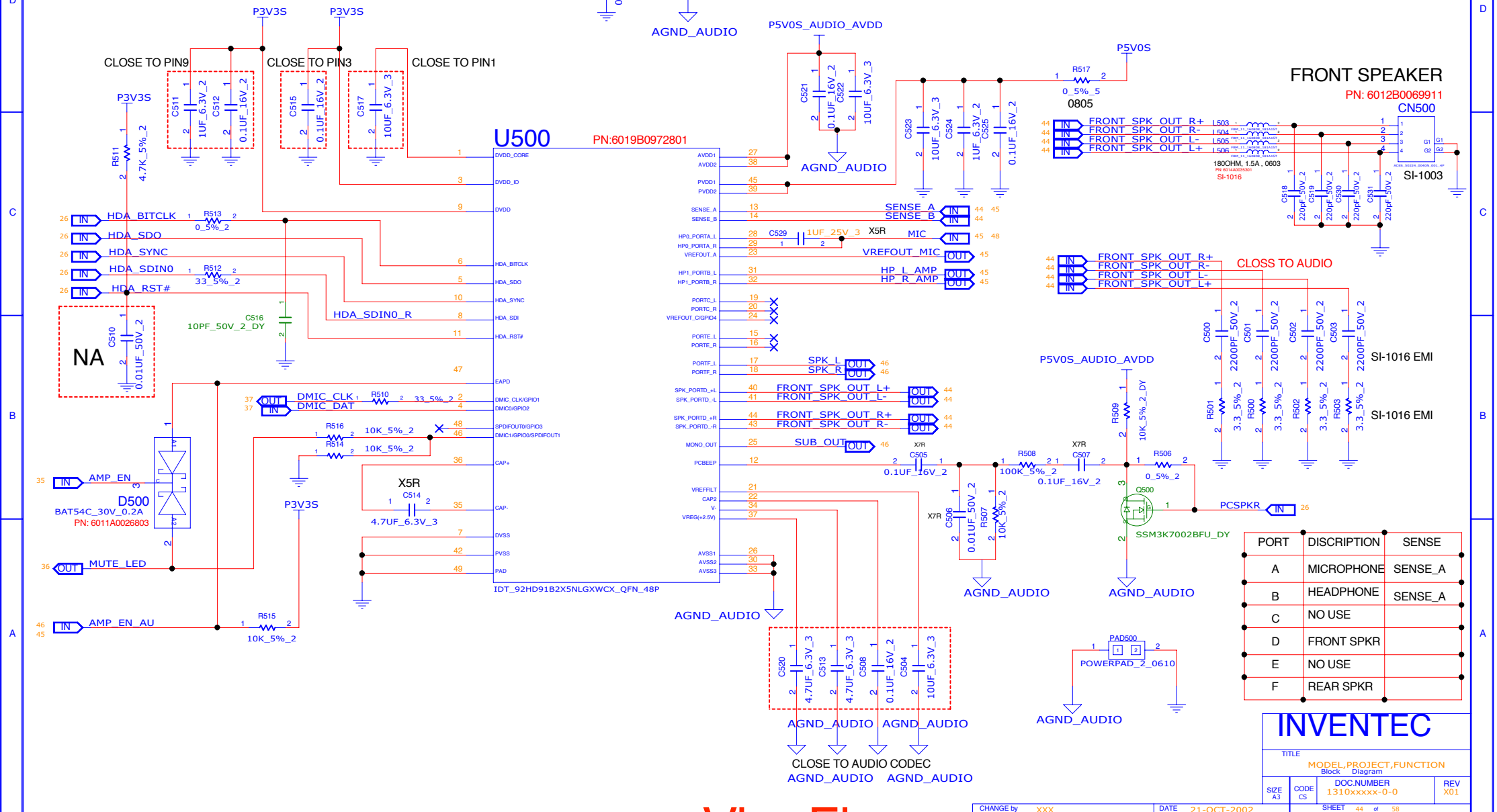
CHANGE by	XXX	DATE	21-OCT-2002
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SHEET 42 of 58



LOCATION: 500~549  
VER.09\_20120829

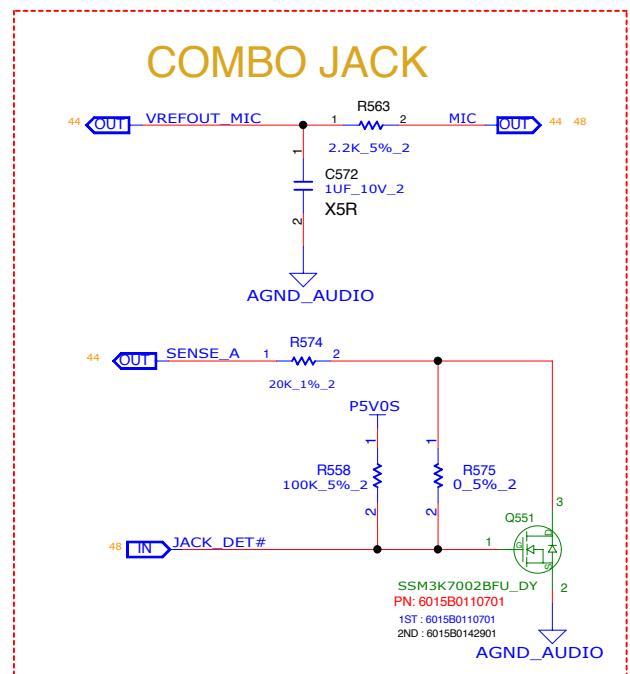
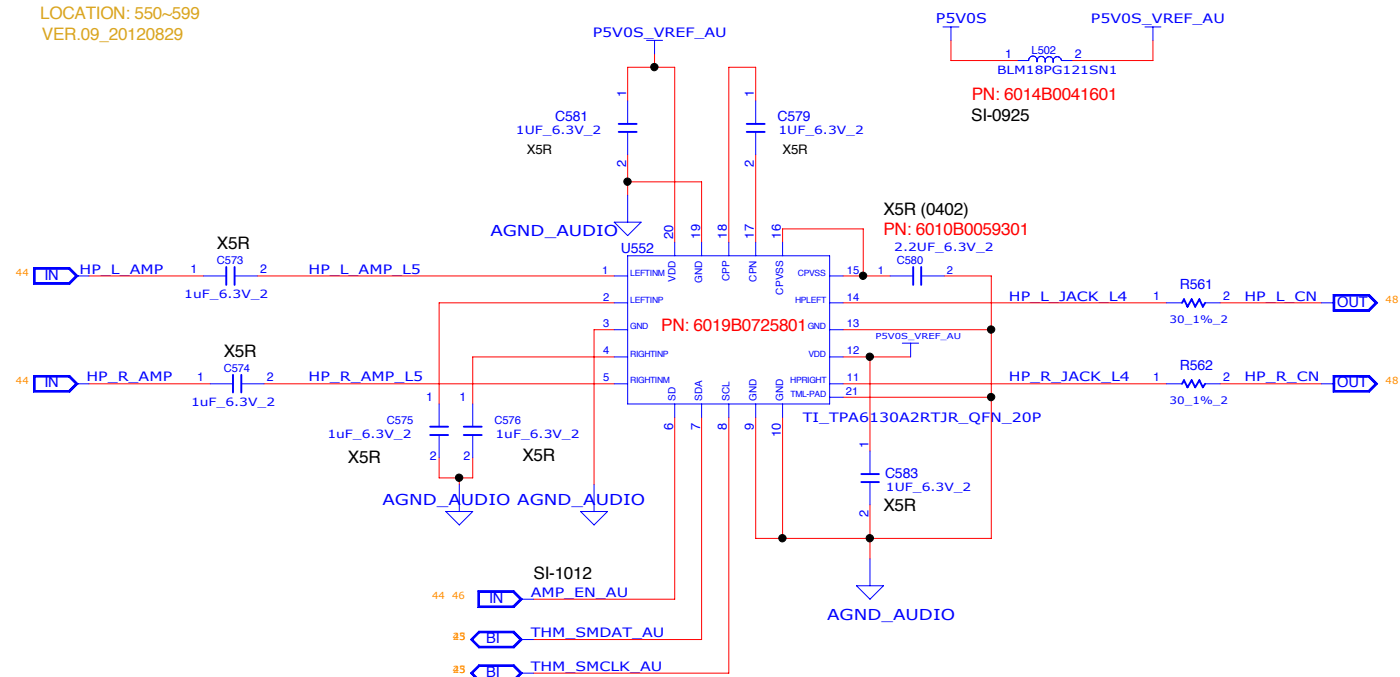
DVDD	0.025AMP
AVDD	0.06AMP
PVDD	0.01.3AMP



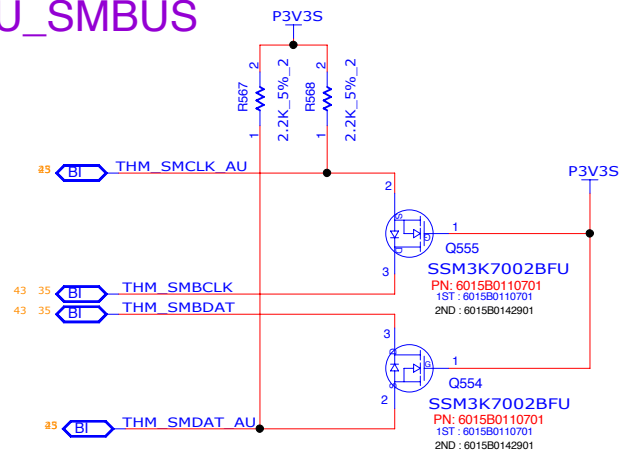
AUDIO (AMP) 550~599

## 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

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

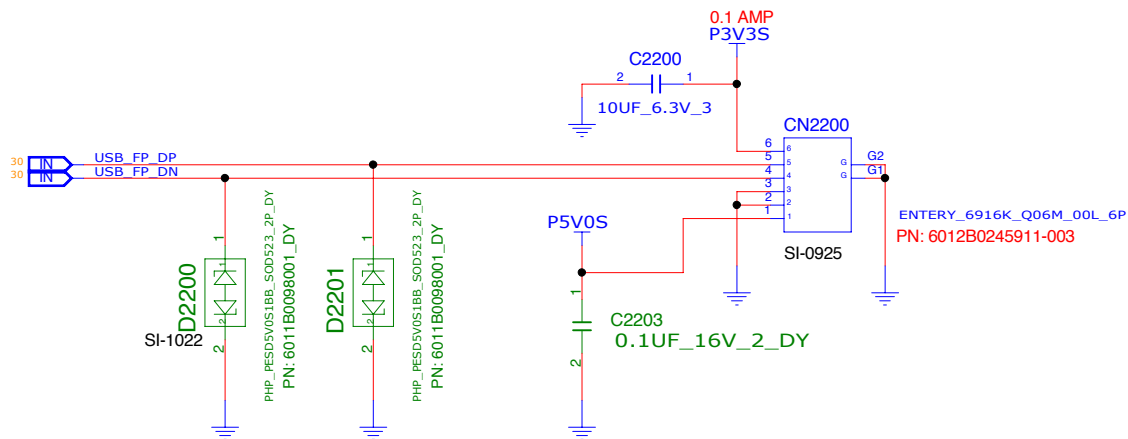
SHEET 45 of 58

CHANGE by XXX DATE 21-OCT-2002

VER.09\_20120829



# FINGER PRINT



## VFM5302-3192 PIN ASSIGNMENTS

Pin Number	Signal Name	Test Point
1	3.3V <sub>CC</sub>	TP3
2	DP	TP1
3	DM	TP2
4	GND	TP4
5	GND	TP4
6	5V <sub>CC</sub>	TP6

Figure 4 - Connector Pin-out

INVENTEC

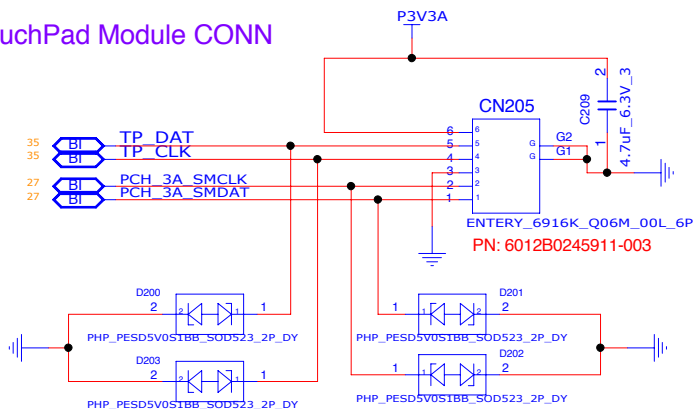
TITLE  
MODEL,PROJECT,FUNCTION

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

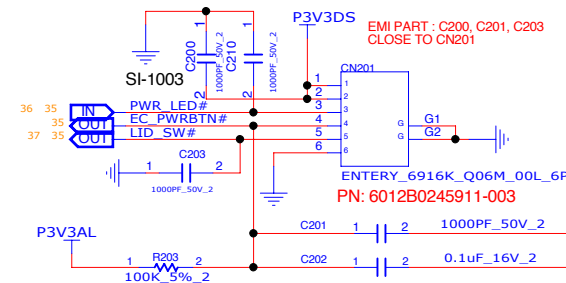
CHANGE by XXX DATE 21-OCT-2002

SHEET 47 of 58

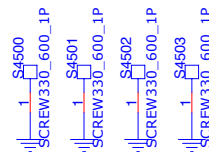
## TouchPad Module CONN



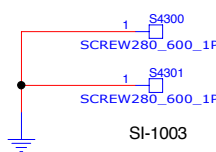
## POWER BUTTON CONN ON MB



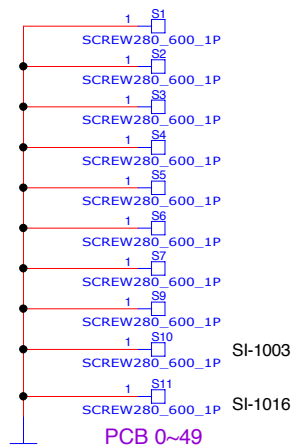
## FOR CPU



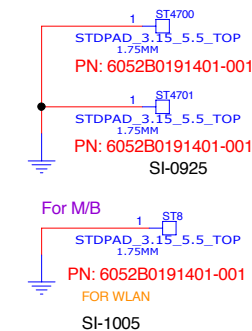
## FOR FAN



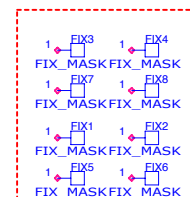
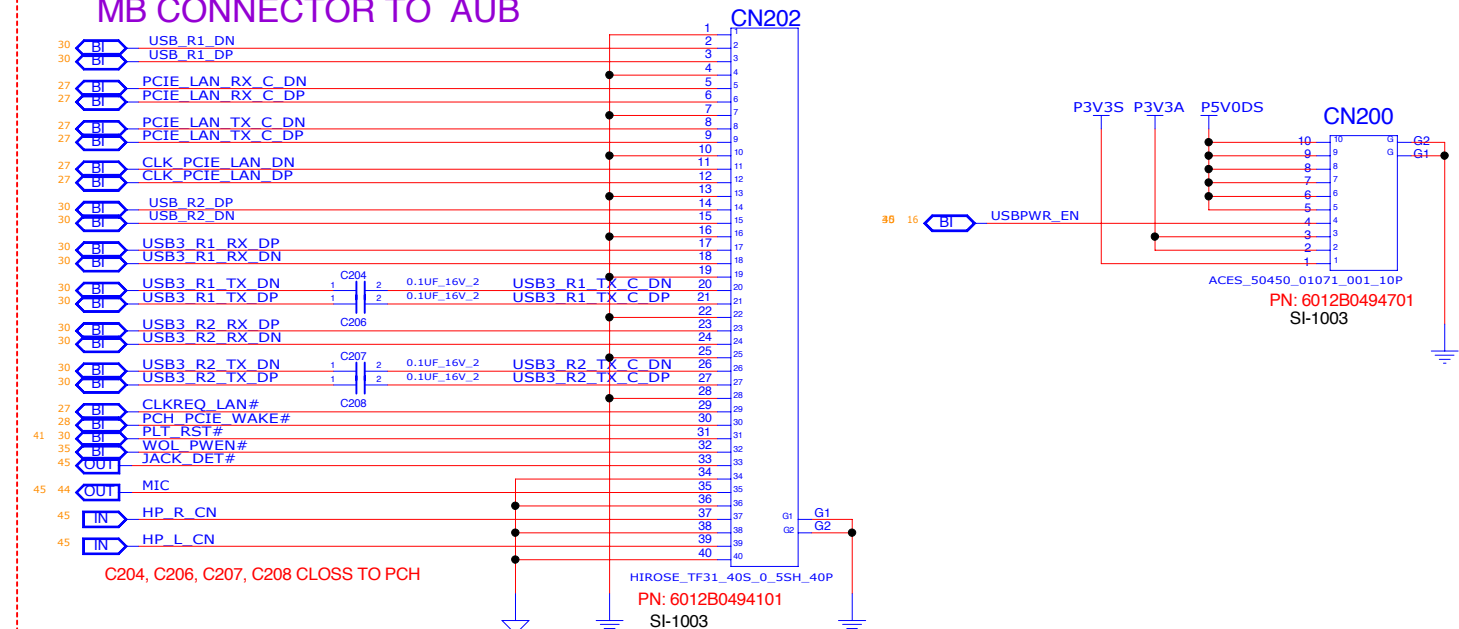
## For M/B



## FOR PCH



## MB CONNECTOR TO AUB



INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
POWER BUTTON			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-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
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SHEET 49 of 58

CHANGE by XXX DATE 21-OCT-2002

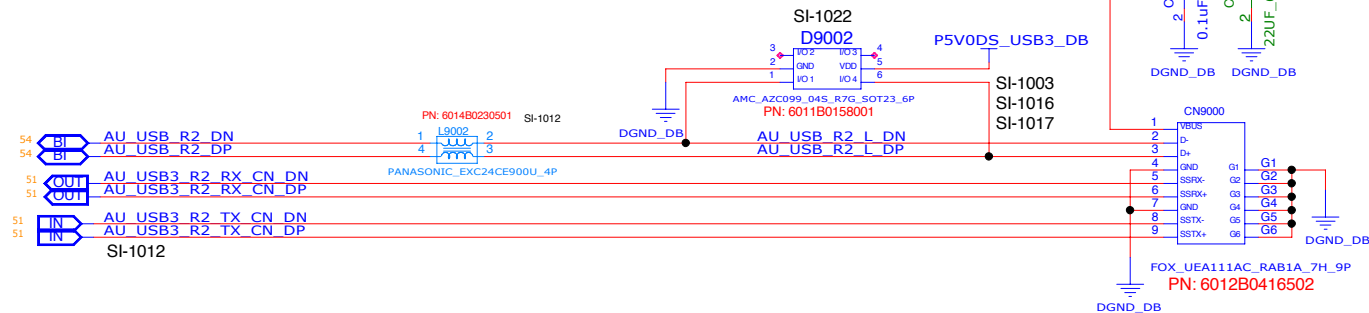
www.VinaFix.vn



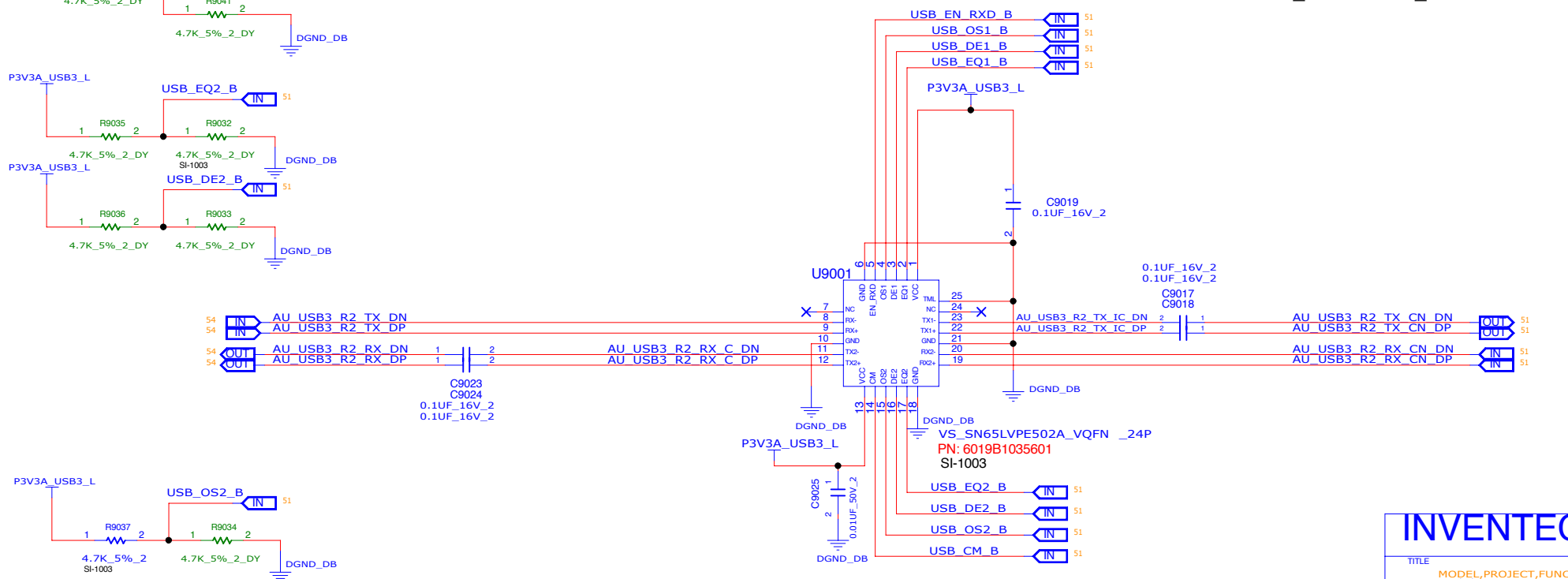
# INVENTEC

CHANGE by	XXX	DATE	21-OCT-2002
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# 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

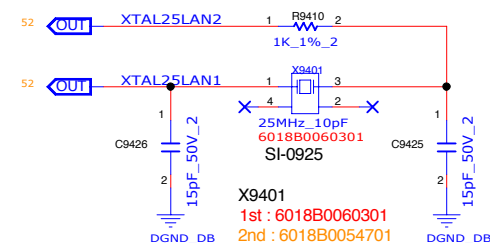
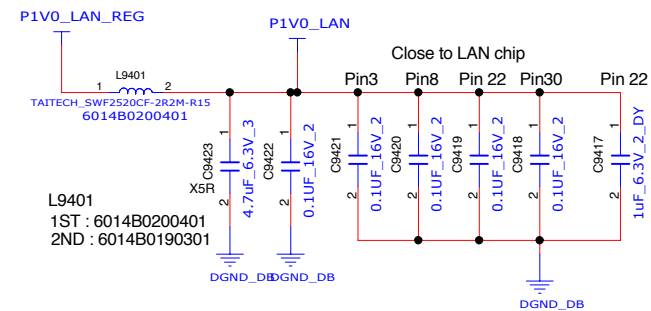
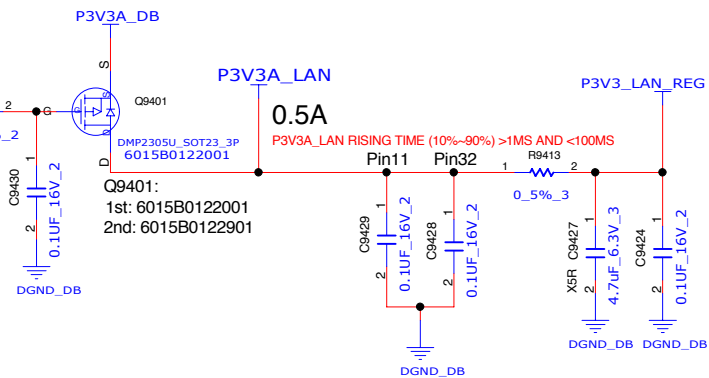
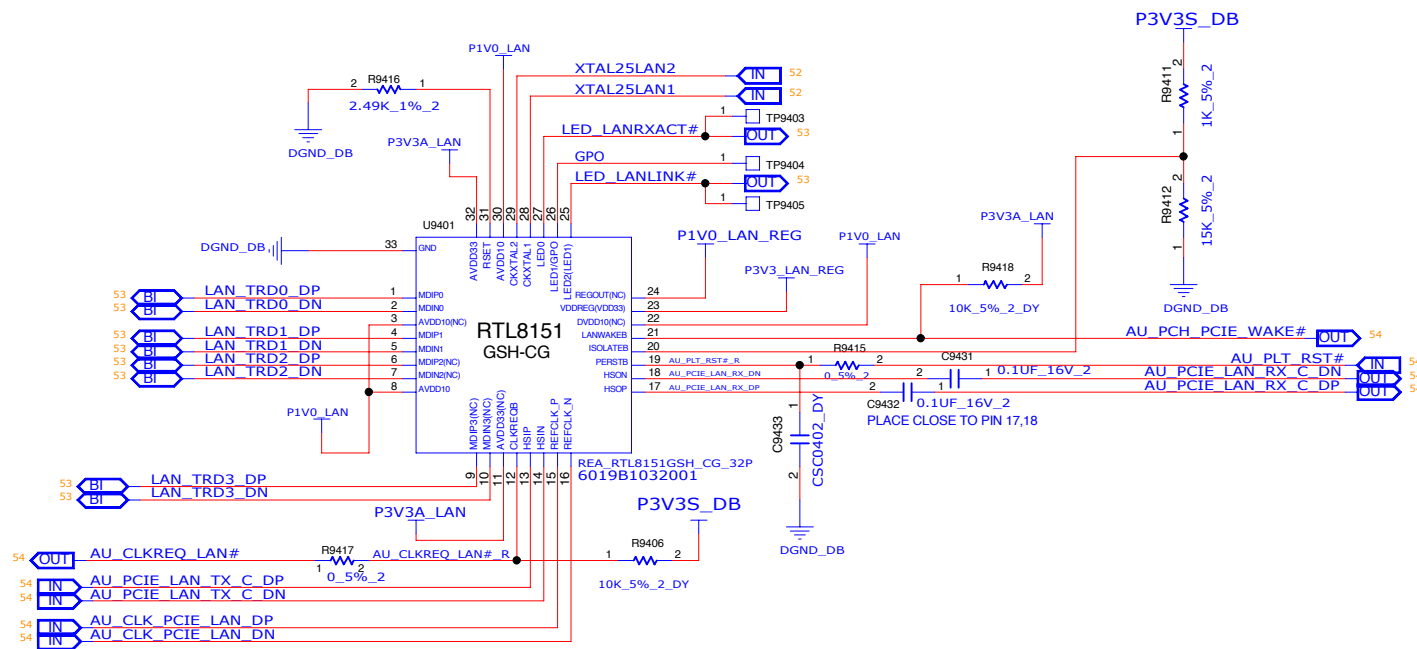
SHEET 51 of 58

# 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

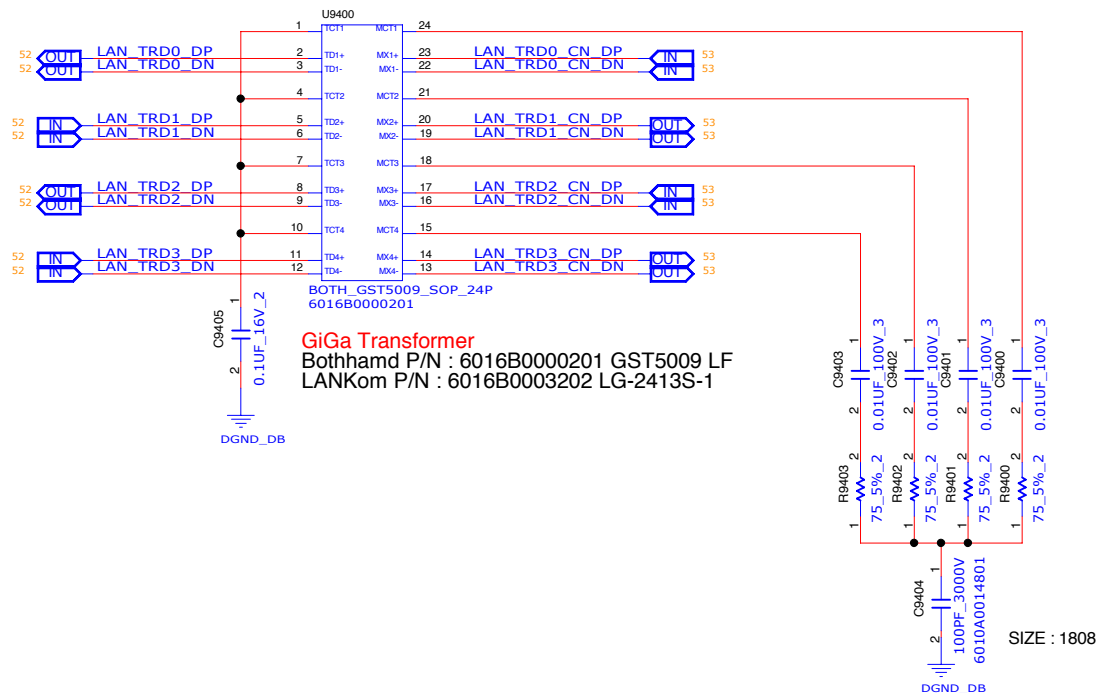
CHANGE by XXX DATE 21-OCT-2002

SHEET 52 of 58

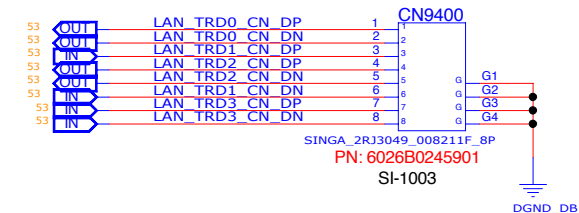
# LAN ( Transformer & RJ45 )

Location 9400 ~ 9499

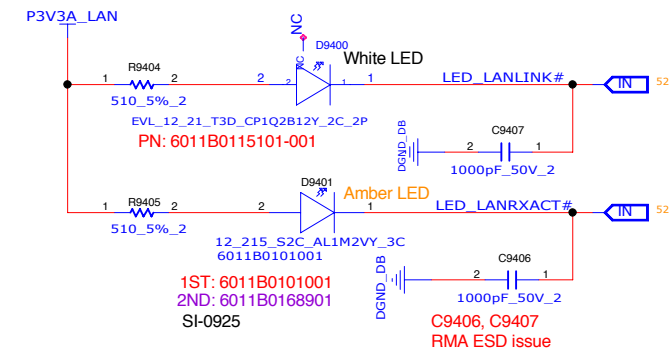
Ver.06\_20120813



## 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 2nd : 60110GA0367T	DIODES	D-BAT54-7	KL1
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	

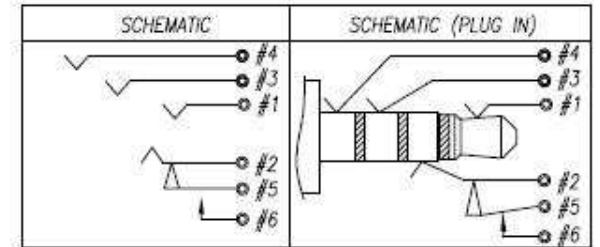
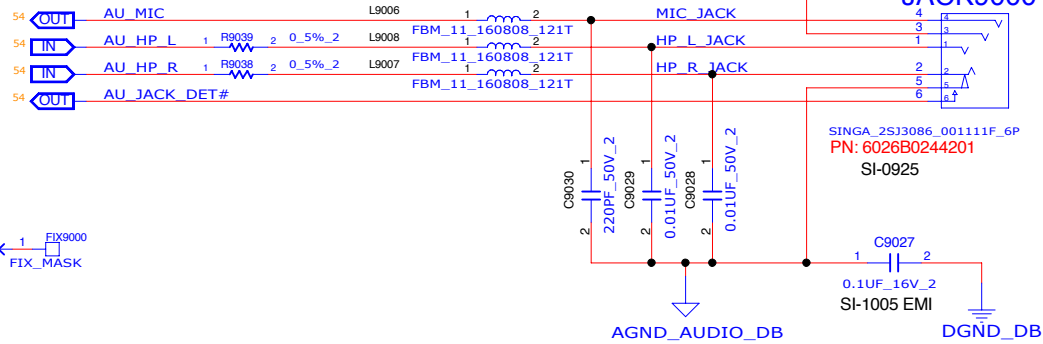
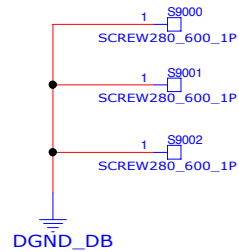
### INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
SHEET	33	of	58
CODE	CS	DOC NUMBER	1310xxxxx-0-0
REV	X01		

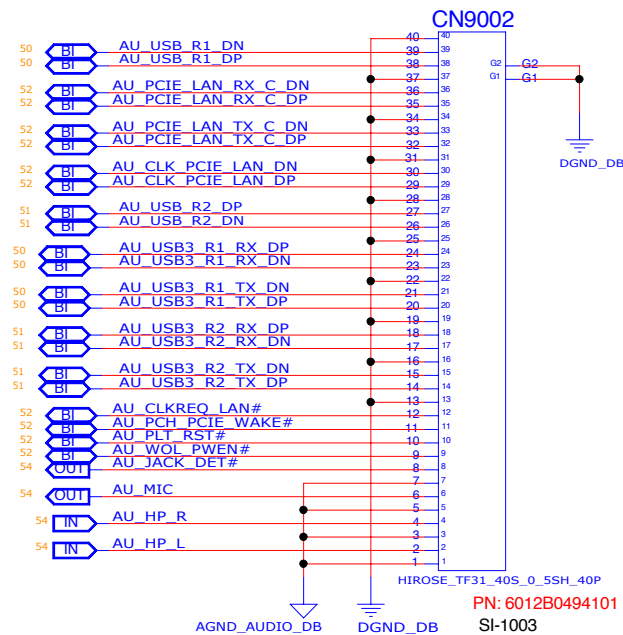
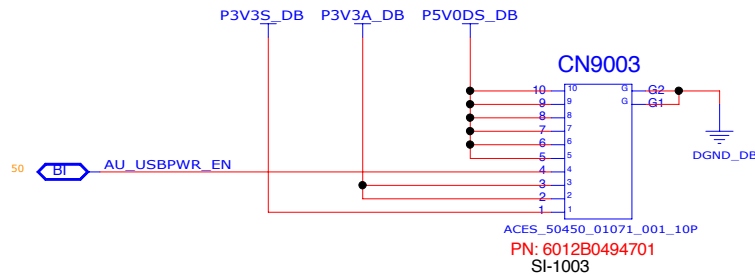
CHANGE by XXX DATE 21-OCT-2002

# CONNECTOR

## COMBO JACK



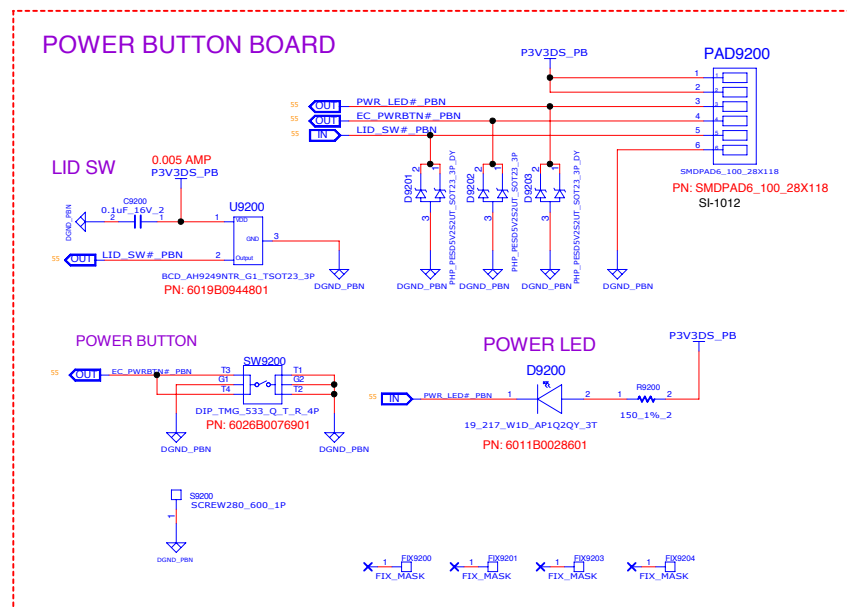
## MB TO AUB CONNECTOR



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 54 of 58			

# POWER BUTTON BOARD



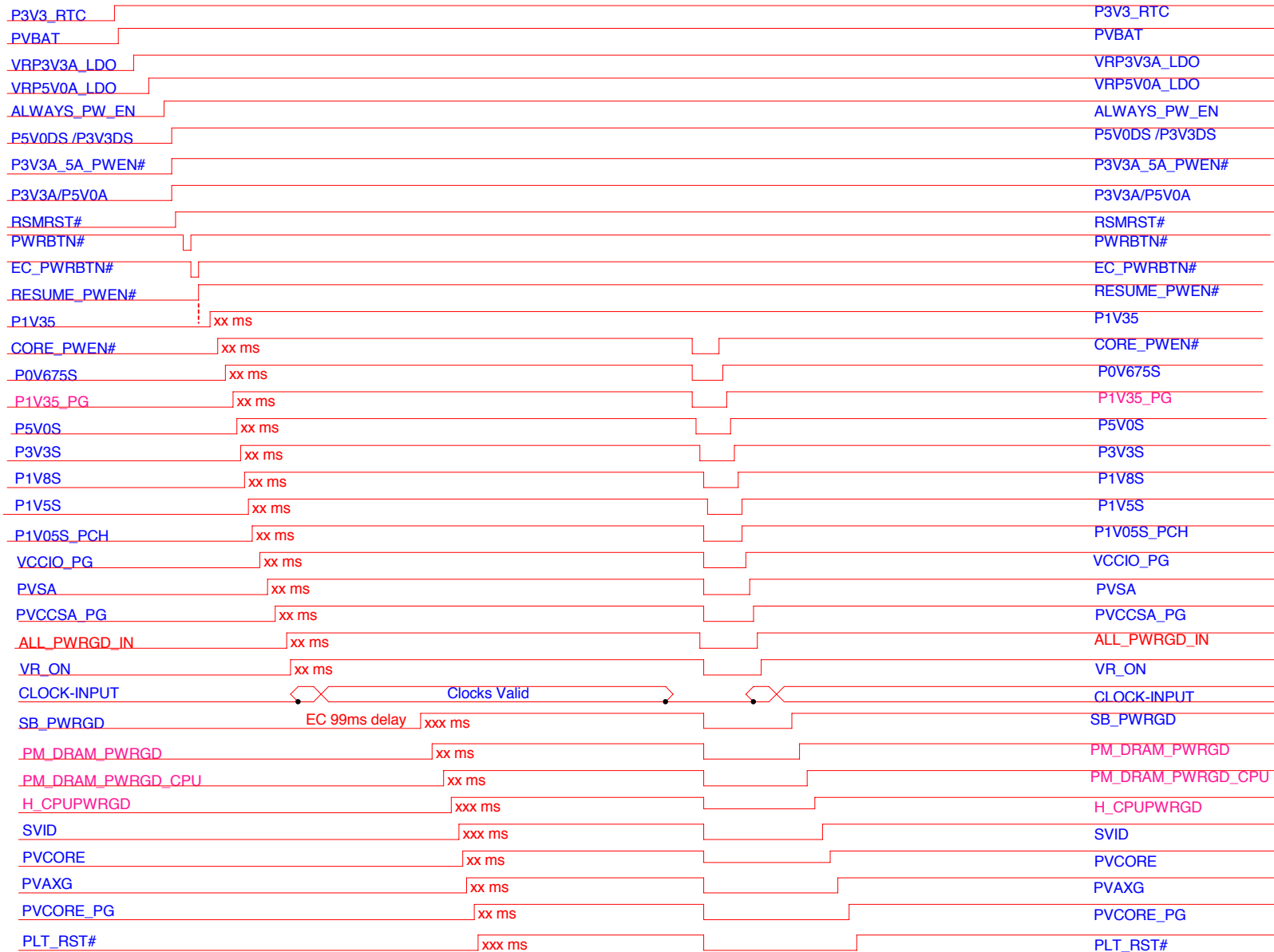
8	7	6	5	4	3	2	1
<div><div><div>1310A2552101 (6L) 1310A2552201 (8L)</div><div>ESD BOARD 1</div><div><div><div>TP7508 TP30</div><div>TP7507 TP30</div></div><div><div>D7507</div><div>PHP_PESDSV0S1BB_SOD523_2P</div></div><div><div>DGND_EM11</div><div>DGND_EM12</div></div></div><div>PN: 6011B0098001-002</div></div></div>							
<div><div><div>USB BOARD (6L) USB BOARD (8L)</div><div>POWER BOARD (6L) POWER BOARD (8L)</div><div>EMI BOARD (6L)  EMI BOARD (8L)</div></div><div><div>1310A2548501 1310A2548601</div><div>1310A2548701 1310A2548801</div><div>1310A2552101 1310A2552102</div><div>1310A2552201 1310A2552202</div></div><div><div>6050A2548501 6050A2548601</div><div>6050A2548701 6050A2548801</div><div>6050A2552101 6050A2552201</div></div></div>							
<div><div><div>1310A2552102 (6L) 1310A2552202 (8L)</div><div>ESD BOARD 2</div><div><div><div>TP7503 TP30</div><div>TP7504 TP30</div></div><div><div>D7503</div><div>PHP_PESDSV0S1BB_SOD523_2P</div></div><div><div>DGND_EM13</div><div>DGND_EM14</div></div></div><div>PN: 6011B0098001-002</div></div></div>							
<div><div><div>CHIEF RIVER CHIEF RIVER CHIEF RIVER</div><div>DIS DIS UMA</div><div>NVIDIA N14P-GV2 (GEFORCE 630M) NVIDIA N14P-GV2 (GEFORCE 630M) N/A</div><div>4G 2G N/A</div><div>SAMSUNG K4W4G1646B-HC11 MICRON MT41K256M16HA-107G:E N/A</div><div>1310A2548303 1310A2548302 1310A2548201</div></div></div>							
<div><div>INVENTEC</div><div><div>TITLE</div><div>MODEL,PROJECT,FUNCTION Block Diagram</div></div><div><div>SIZE A3</div><div>CODE CS</div><div>DOC NUMBER 1310xxxxx-0-0</div><div>REV X01</div></div><div><div>CHANGE by XXX</div><div>DATE 21-OCT-2002</div><div>SHEET 56 of 58</div></div></div>							
8	7	6	5	4	3	2	1



# POWE UP

S5----->S0

S3

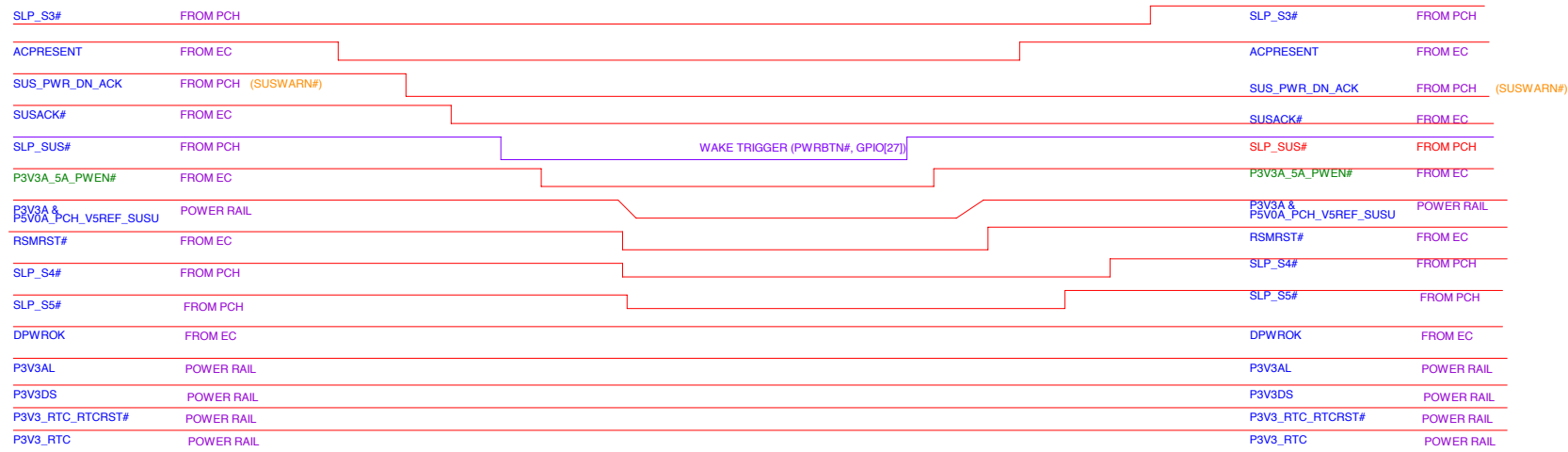


INVENTEC

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