

DAKAR10ABX

CS

2012.02.06

INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01

CHANGE by **Parry Huang** DATE **21-OCT-2002** SHEET 1 of 57

PAGE NO/FUNCTION

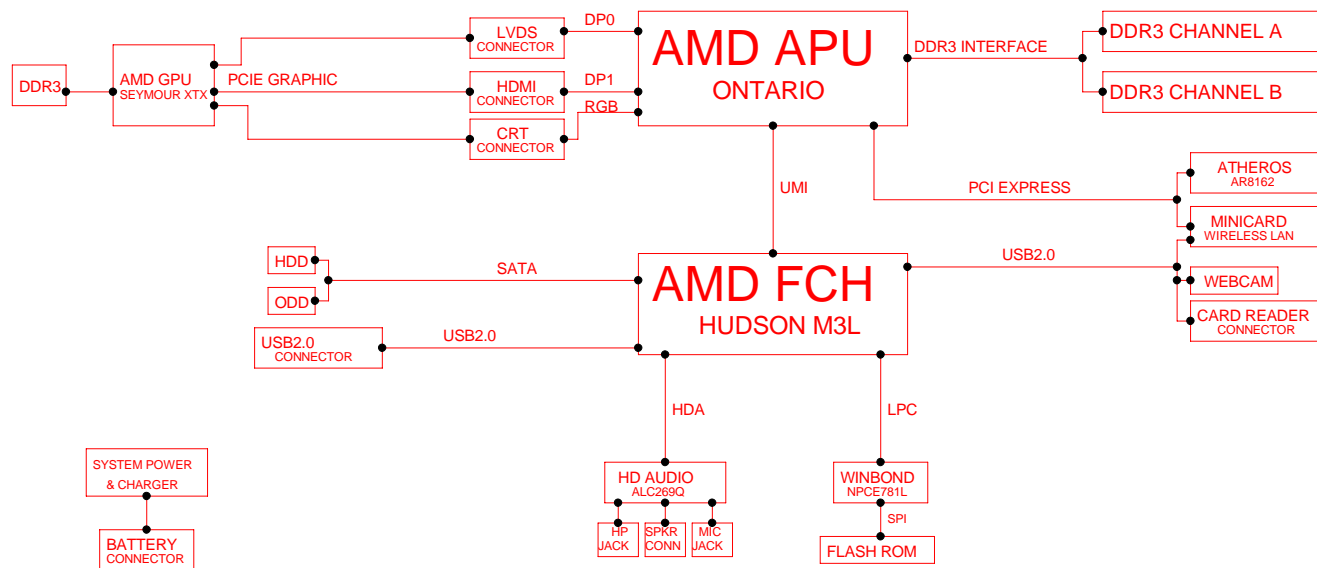
- 1. COVER PAGE
- 2. INDEX
- 3. BLOCK DIAGRAM
- 4. POWER MAP
- 5. CHARGER
- 6. P3V3 P5V0
- 7. DDR POWER
- 8. P1V1A P1VAS
- 9. P1V0S
- 10. P1V8
- 11. VCORE
- 12. VCORE-1
- 13. DGPU POWER
- 14. ENABLE PIN
- 15. LOAD SWITCH
- 16. SCREW & FIX MASK
- 17. HALL SENSOR
- 18. LED
- 19. K/B & T/P
- 20. SUPER I/O(KBC)
- 21. LAN
- 22. RJ45 & TRANSFORMER
- 23. AUDIO CODEC
- 24. MIC & EARPHONE
- 25. WLAN
- 26. CARDER READER
- 27. HDD & ODD

PAGE NO/FUNCTION

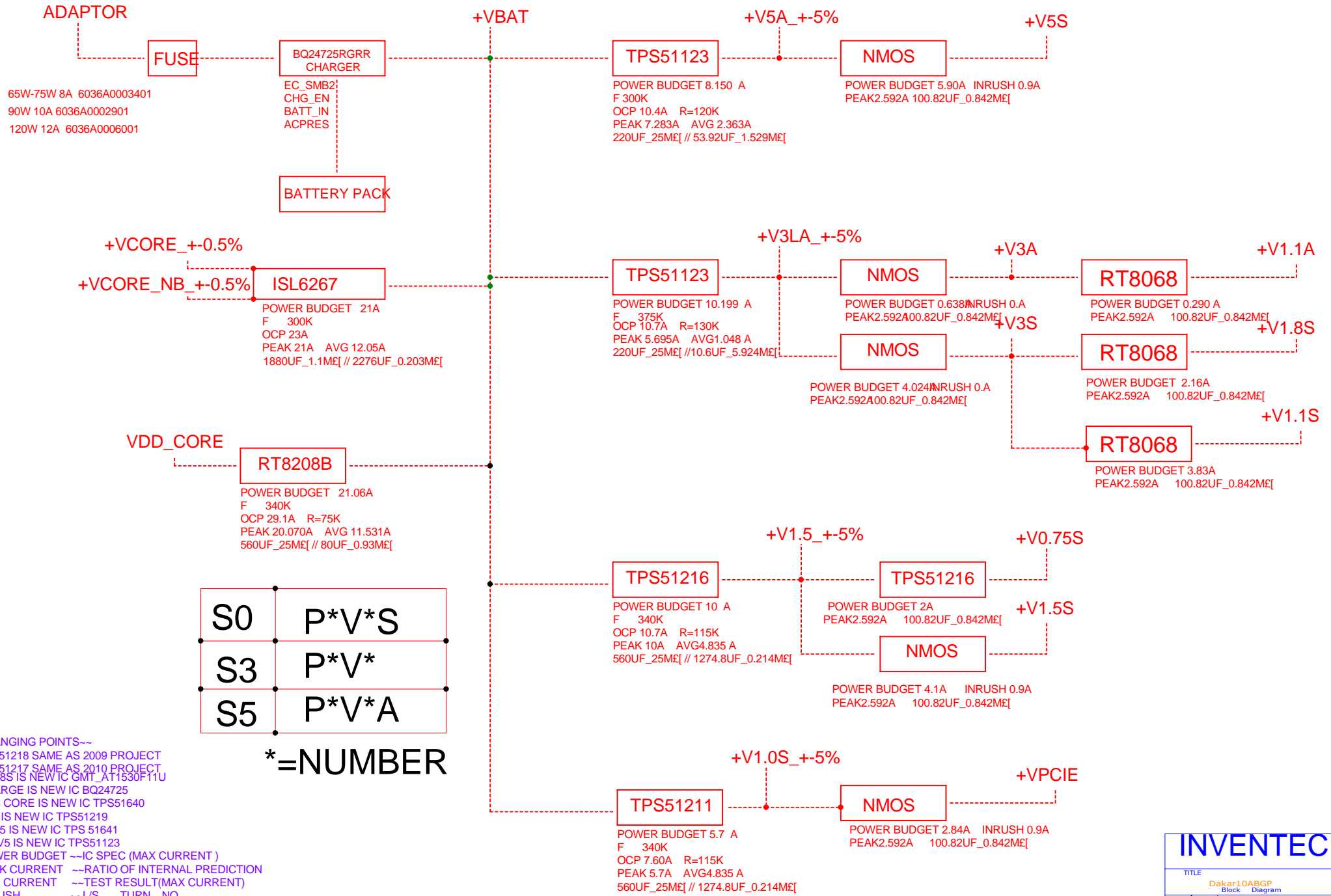
- 28. USB2.0
- 29. USB S/G
- 30. LVDS
- 31. VGA
- 32. HDMI
- 33. CEC
- 34. DIMM0
- 35. DIMM1
- 36. FAN & THERMAL
- 37. APU(1/4)
- 38. APU(2/4)
- 39. APU(3/4)
- 40. APU(4/4)
- 41. FCH M3(1/4)
- 42. FCH M3(2/4)
- 43. FCH M3(3/4)
- 44. FCH M3(4/4)
- 45. EMI
- 46. GPU(1/6)
- 47. GPU(2/6)
- 48. GPU(3/6)
- 49. GPU(4/6)
- 50. GPU(5/6)
- 51. GPU(6/6)
- 52. VRAM-1
- 53. VRAM-2

- 54. PW BOARD
- 55. TP 4 PIN BOARD
- 56. USB BOARD
- 57. TP 8 PIN BOARD

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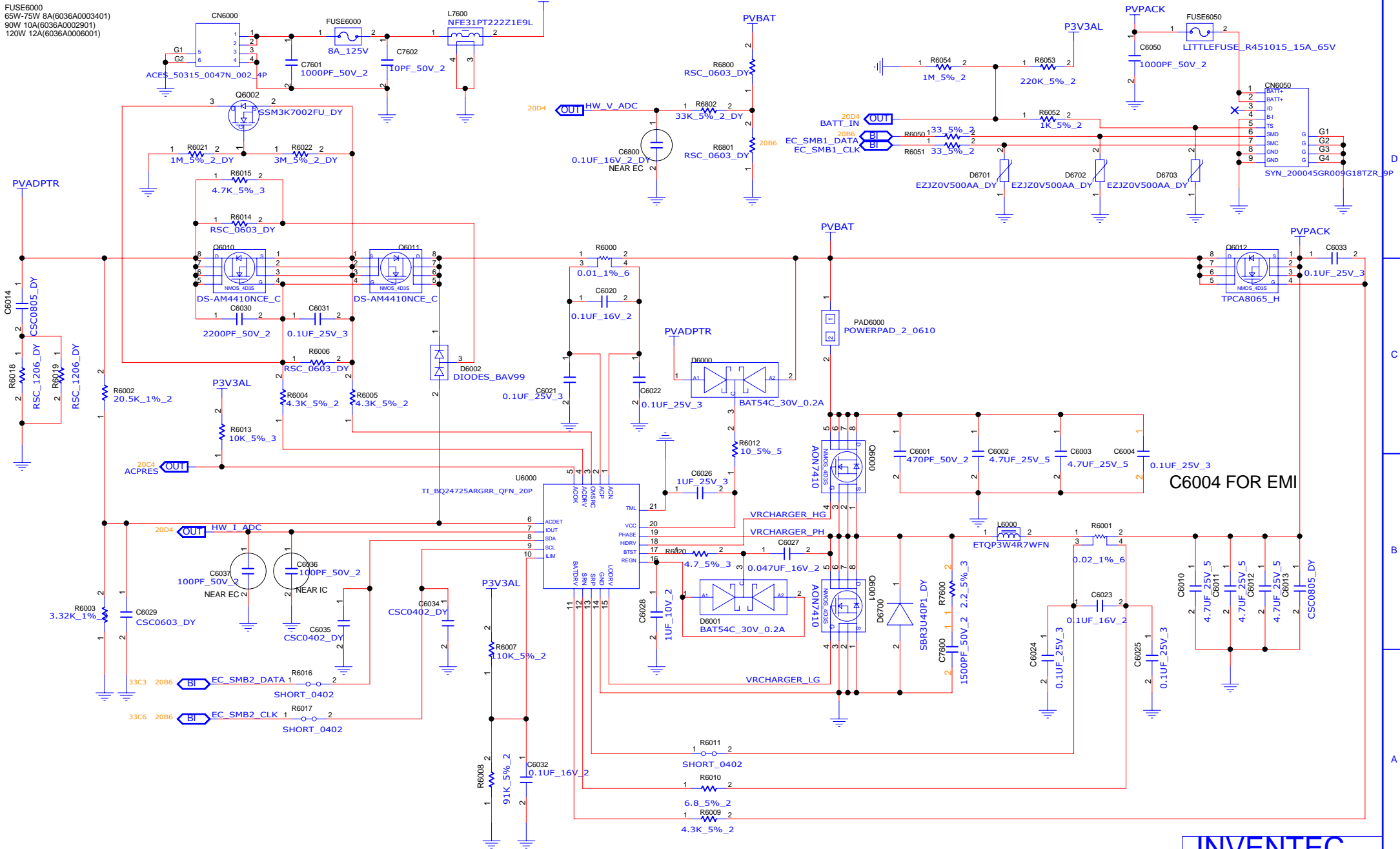


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CHANGING POINTS--
 TPS51218 SAME AS 2009 PROJECT
 TPS51217 SAME AS 2010 PROJECT
 +V1.8S IS NEW IC GMT_AT1530F11U
 CHARGE IS NEW IC BQ24725
 VCC CORE IS NEW IC TPS51640
 VTT IS NEW IC TPS51219
 V0.85 IS NEW IC TPS 51641
 V3_V5 IS NEW IC TPS51123
 POWER BUDGET --IC SPEC (MAX CURRENT)
 PEAK CURRENT --RATIO OF INTERNAL PREDICTION
 AVG CURRENT --TEST RESULT(MAX CURRENT)
 INRUSH --L/S TURN NO

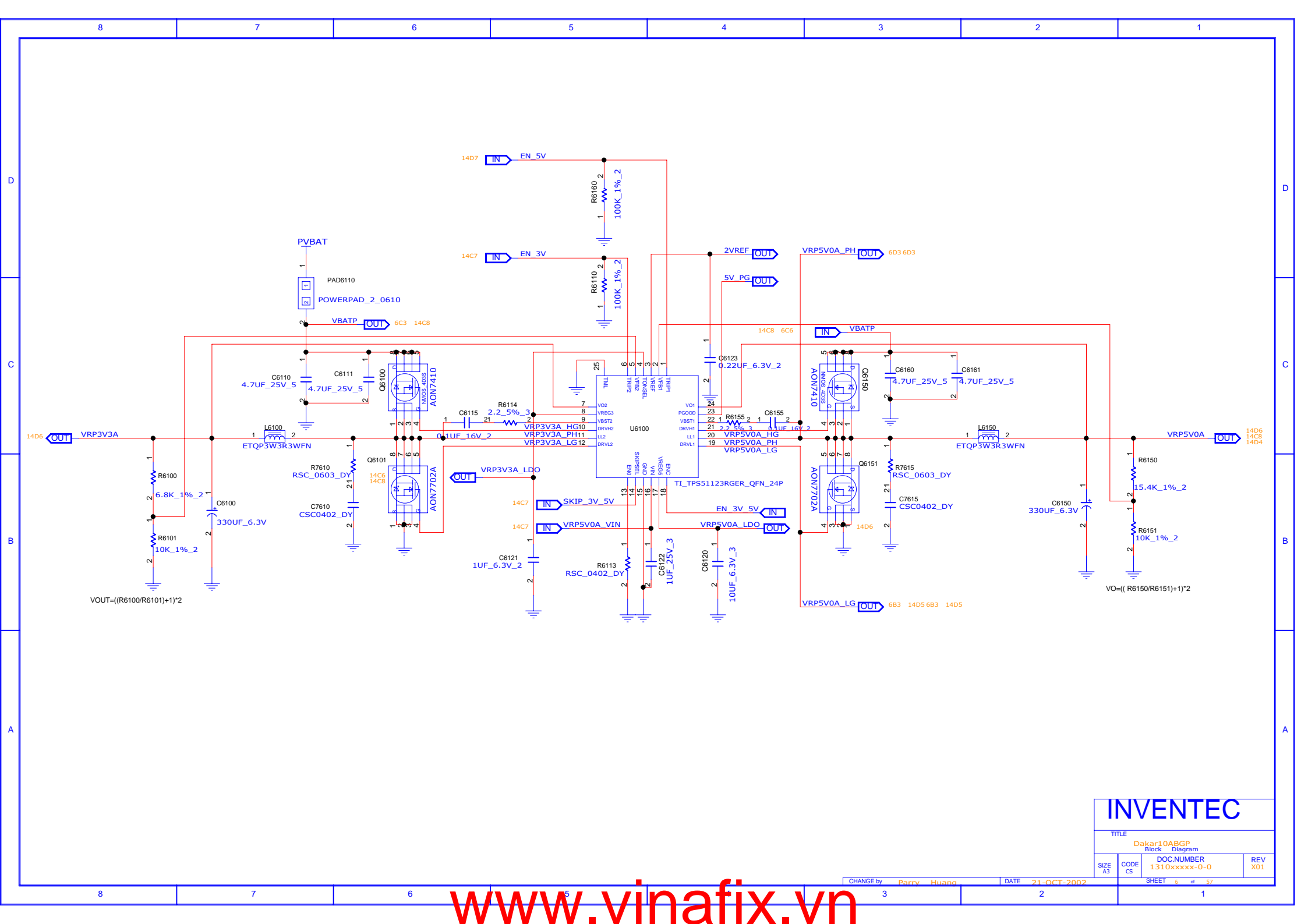
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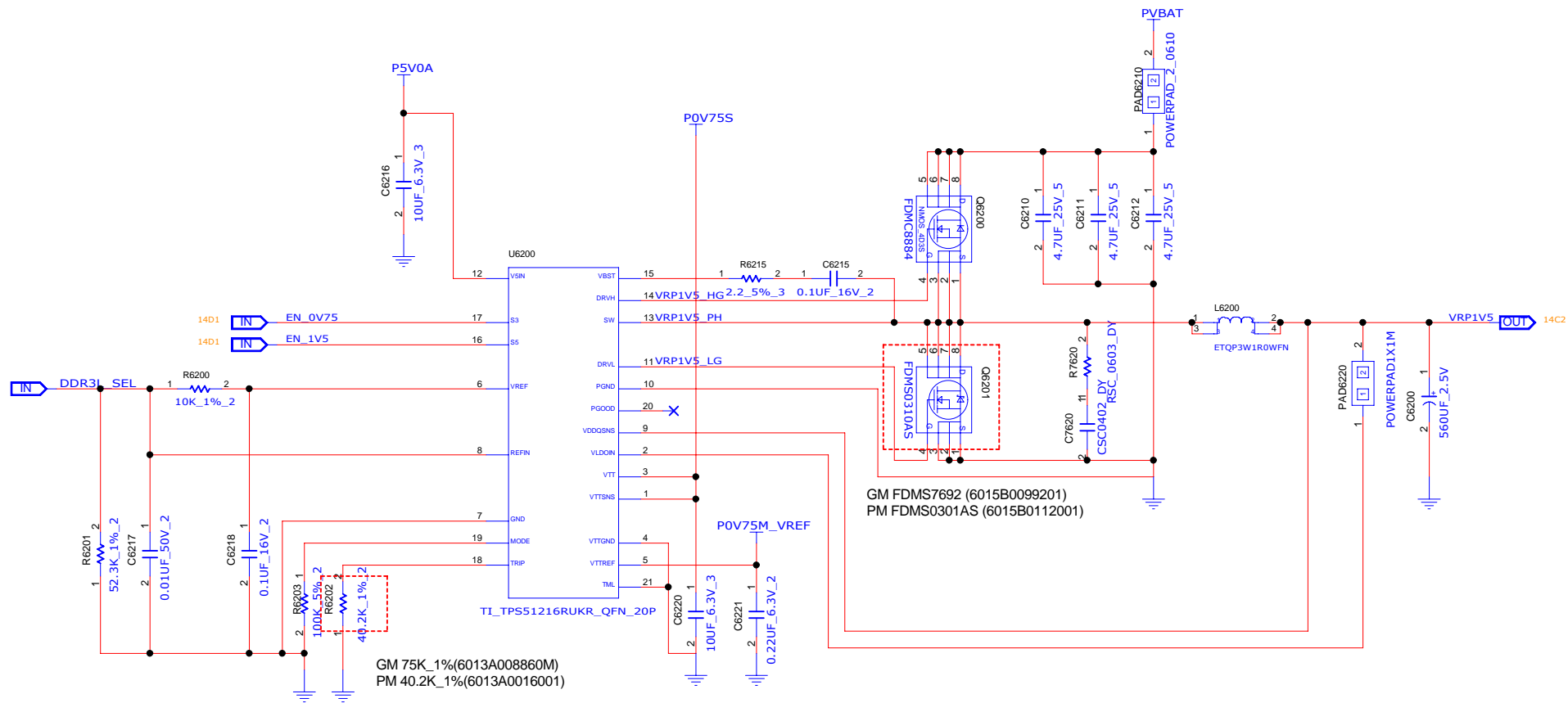
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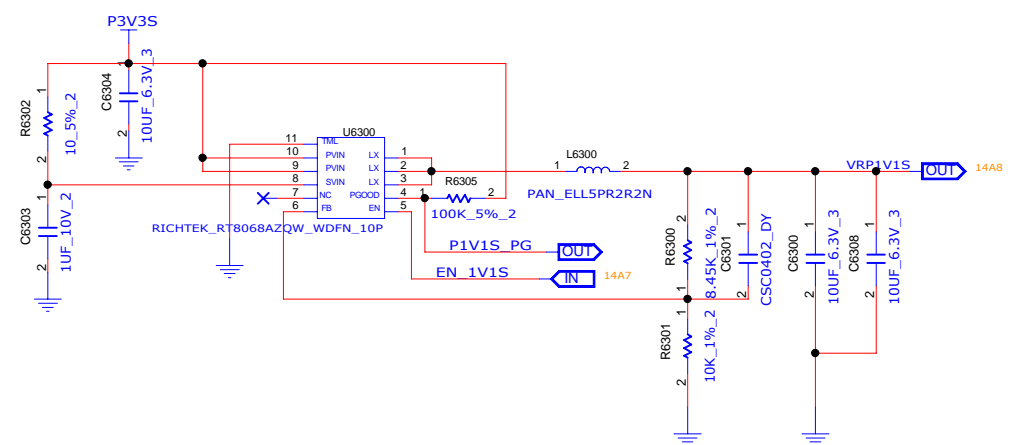
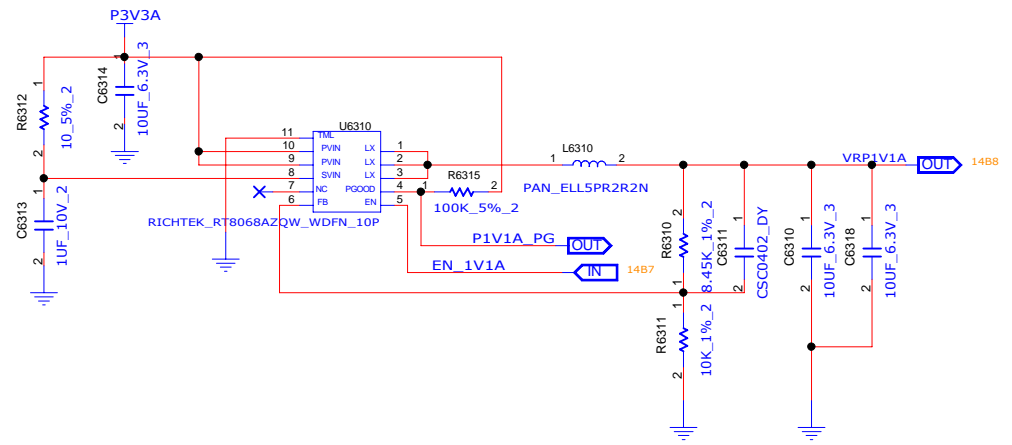


$V_{OUT} = REF_{IN} = 1.8 * (R_{6201} / (R_{6201} + R_{6202}))$
 MODE=100KOHM:TRACKING DISCHARGE

GM 75K_1%(6013A008860M)
 PM 40.2K_1%(6013A0016001)

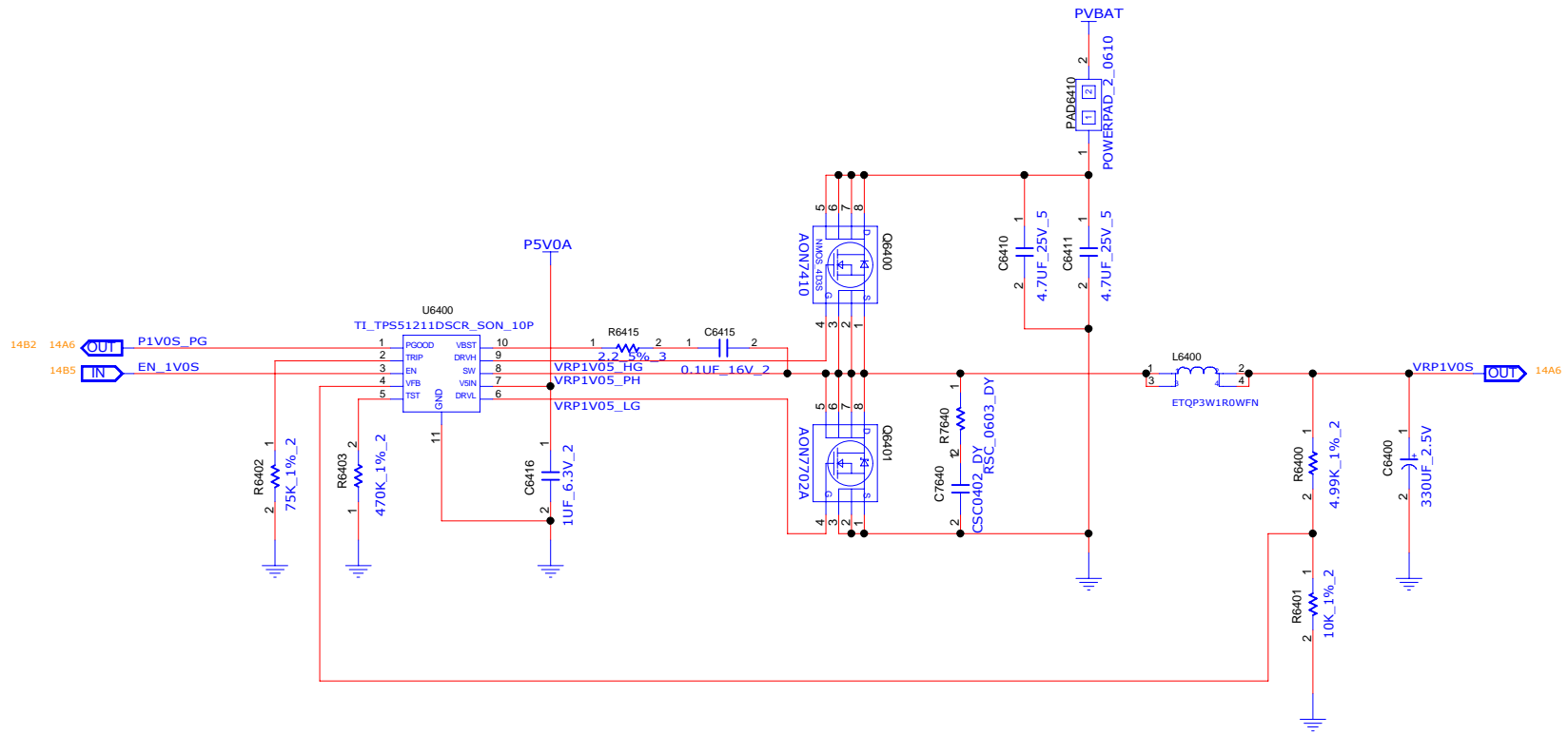
GM FDMS7692 (6015B0099201)
 PM FDMS0301AS (6015B0112001)

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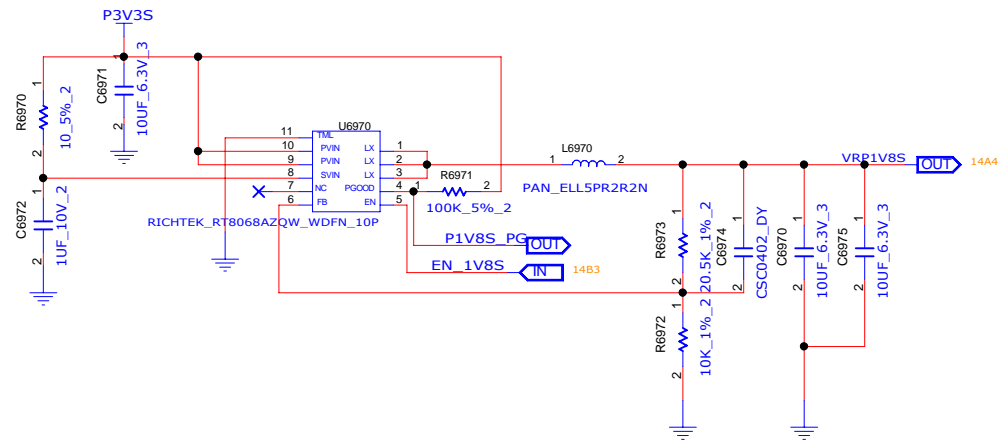
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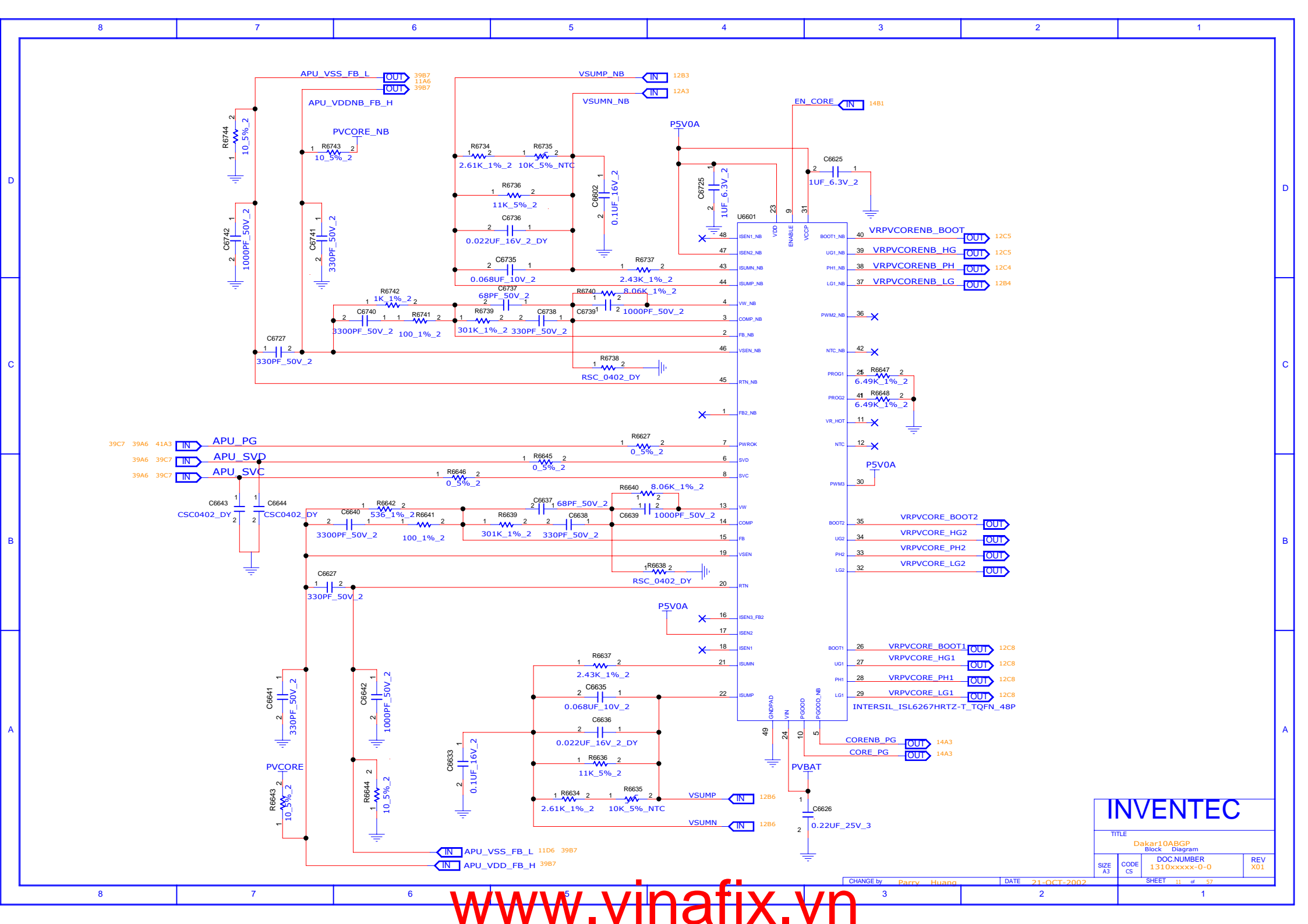


INVENTEC

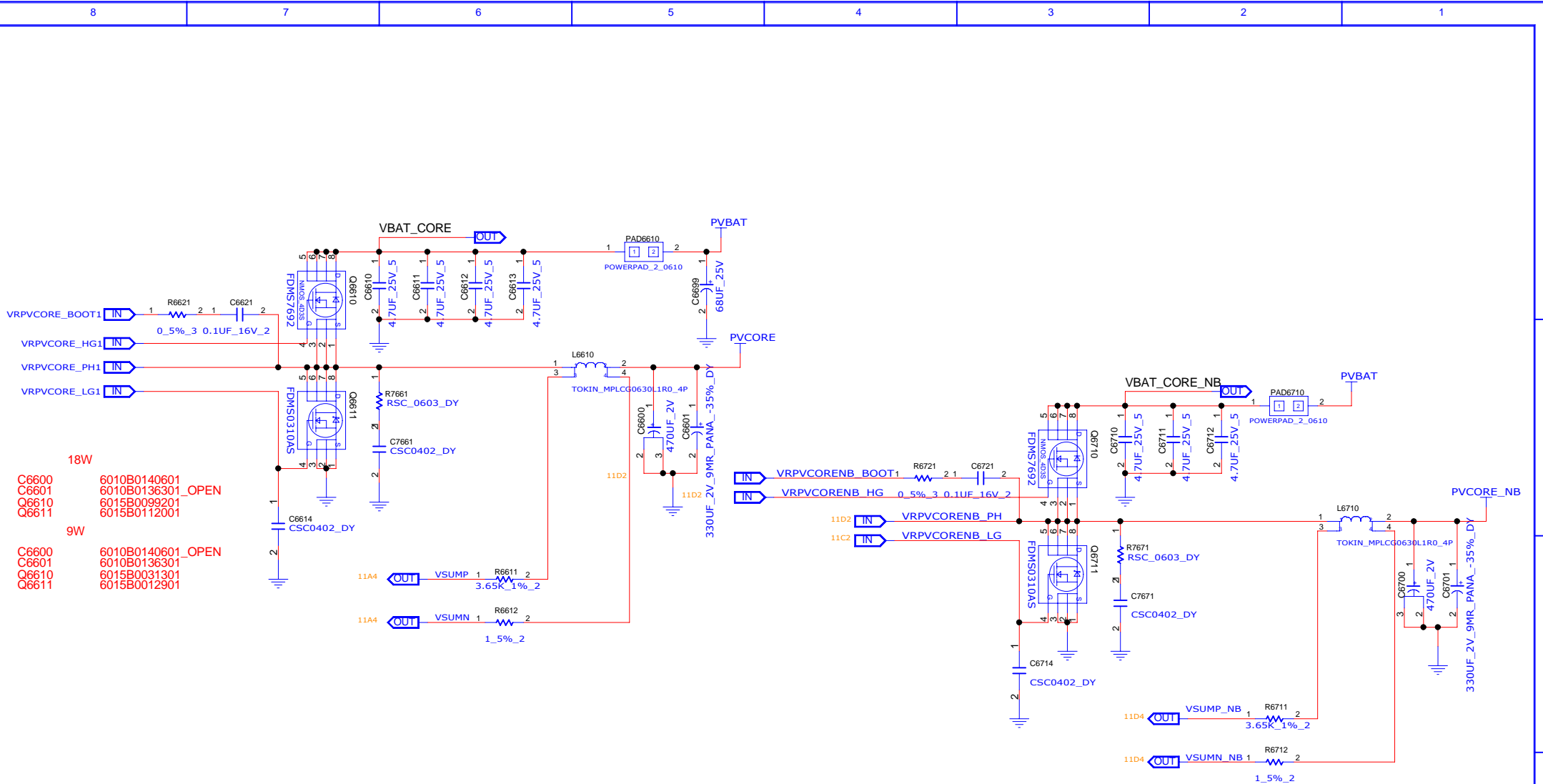
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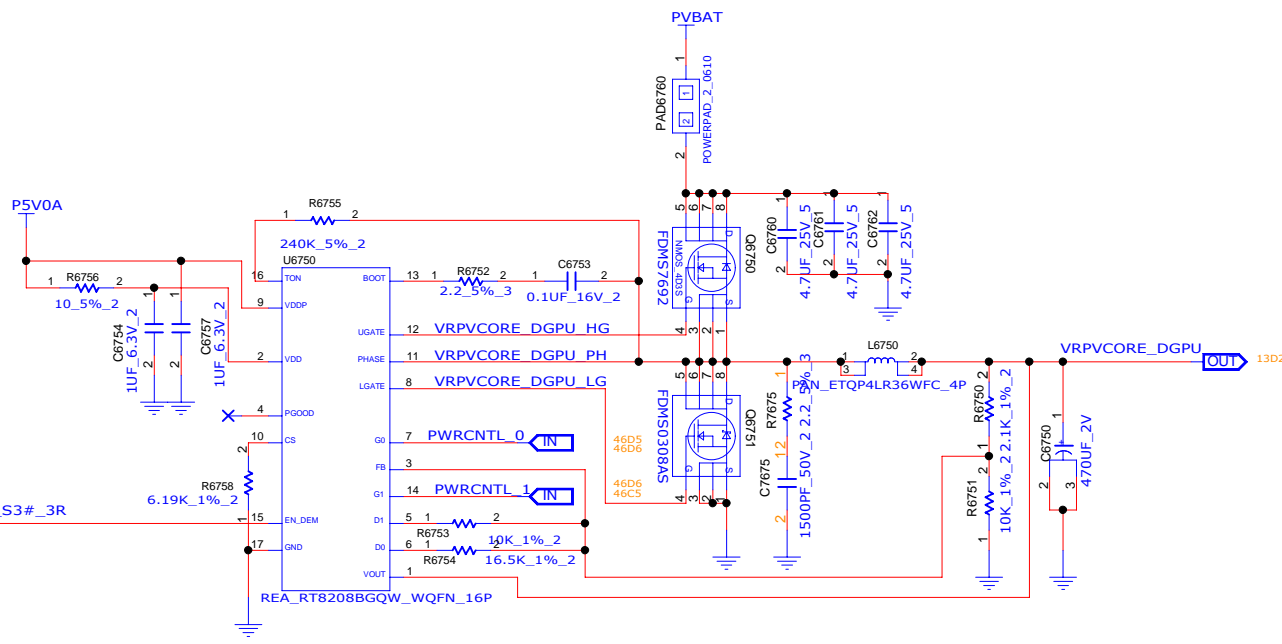
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- 18W**
- C6600 6010B0140601
 - C6601 6010B0136301_OPEN
 - Q6610 6015B0099201
 - Q6611 6015B0112001
- 9W**
- C6600 6010B0140601_OPEN
 - C6601 6010B0136301
 - Q6610 6015B0031301
 - Q6611 6015B0012901

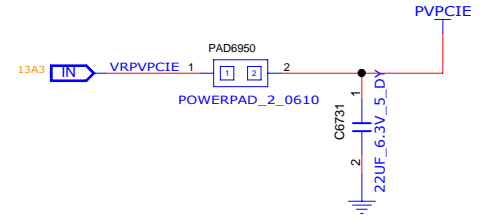
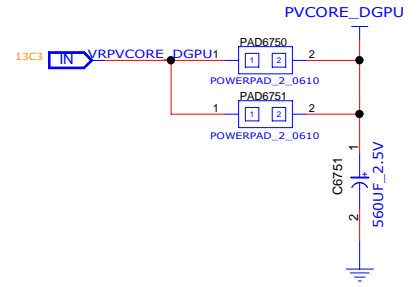
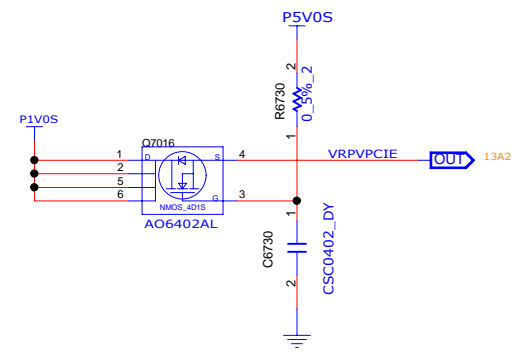
- 18W**
- C6700 6010B0140601
 - C6701 6010B0136301_OPEN
 - Q6710 6015B0099201-003
 - Q6711 6015B0112001
- 9W**
- C6700 6010B0140601_OPEN
 - C6701 6010B0136301
 - Q6710 6015B0031301
 - Q6711 6015B0012901

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P.S. R6750(R1)R6751(R2)R6753(R3)R6754(R4)

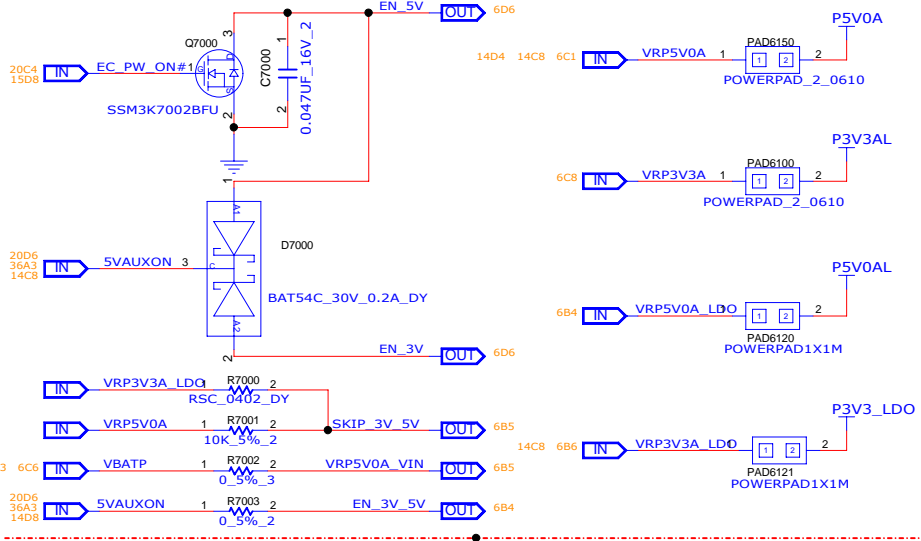
R6750	R6751	R6753	R6754
2.1 K	10 K	10 K	16.5 K
G1	G0	期望	計算
0	0	1.15	1.18
0	1	1.05	1.08
1	0	1.0	1.015
1	1	0.9	0.915



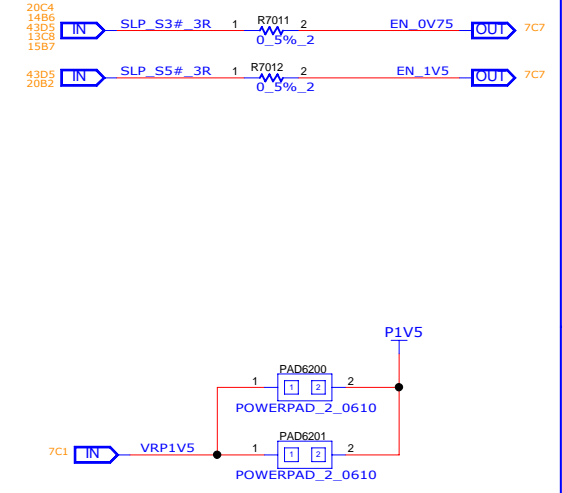
INVENTEC

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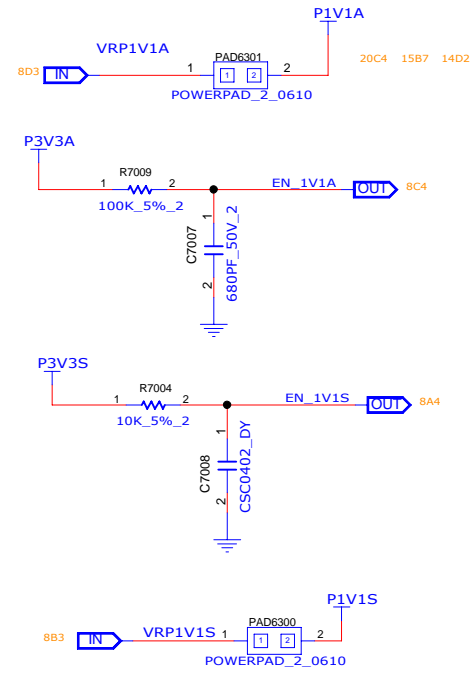
3V & 5V



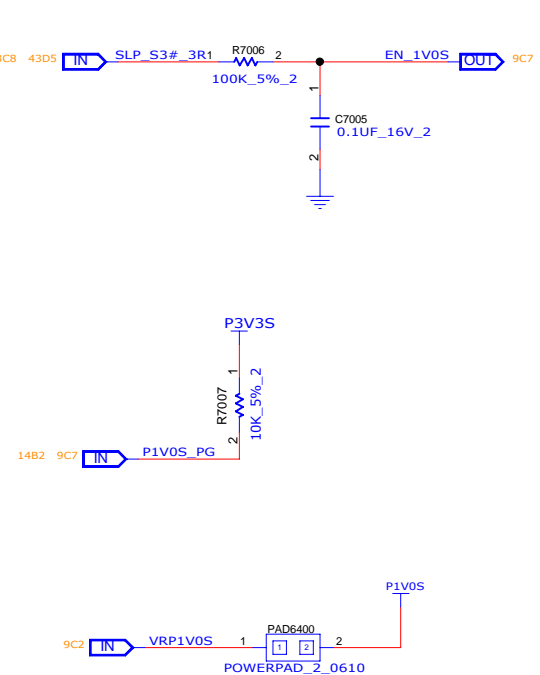
DDR_P1V5



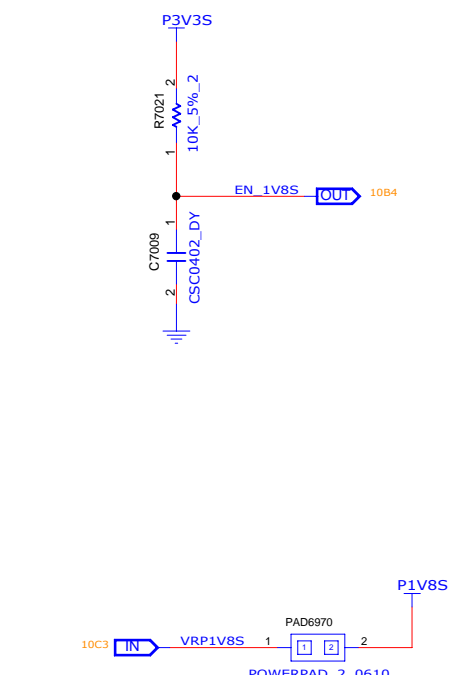
P1V1S_P1V1A



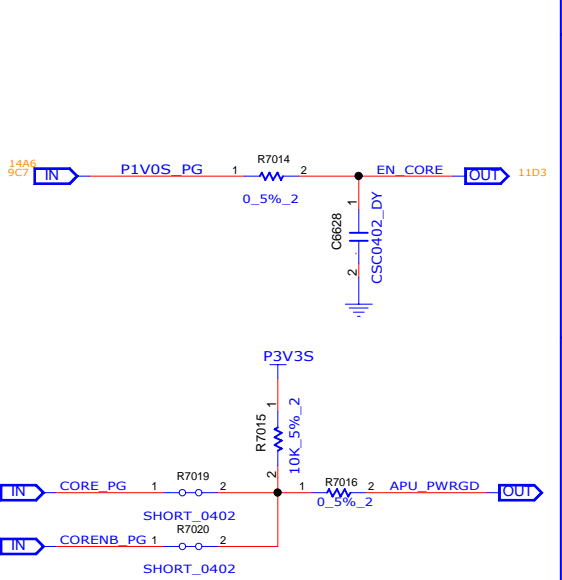
P1V0S



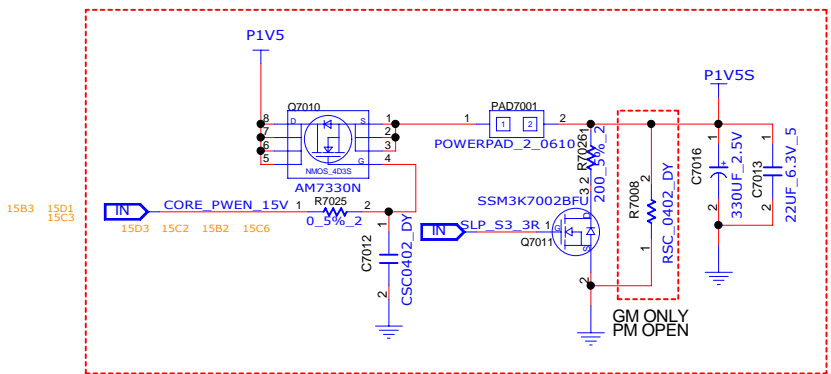
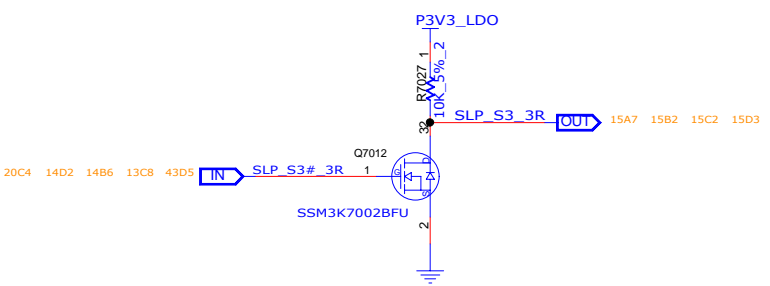
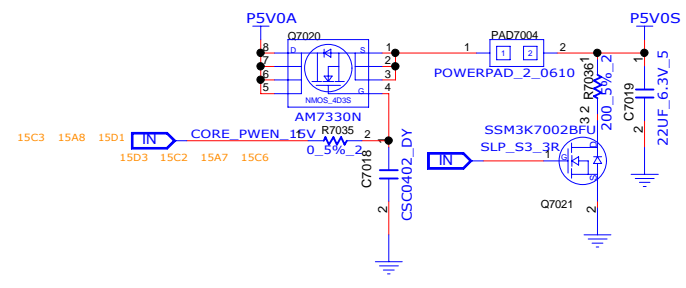
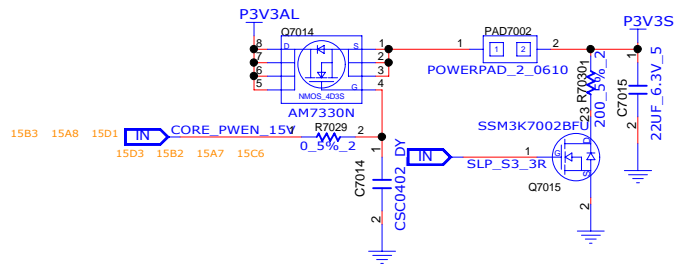
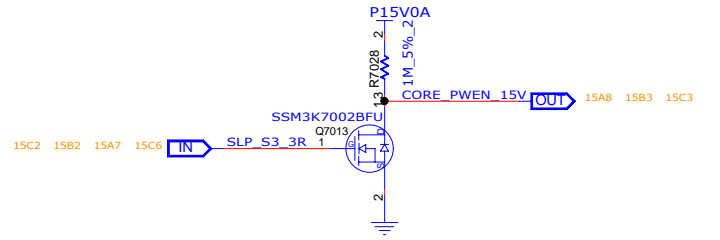
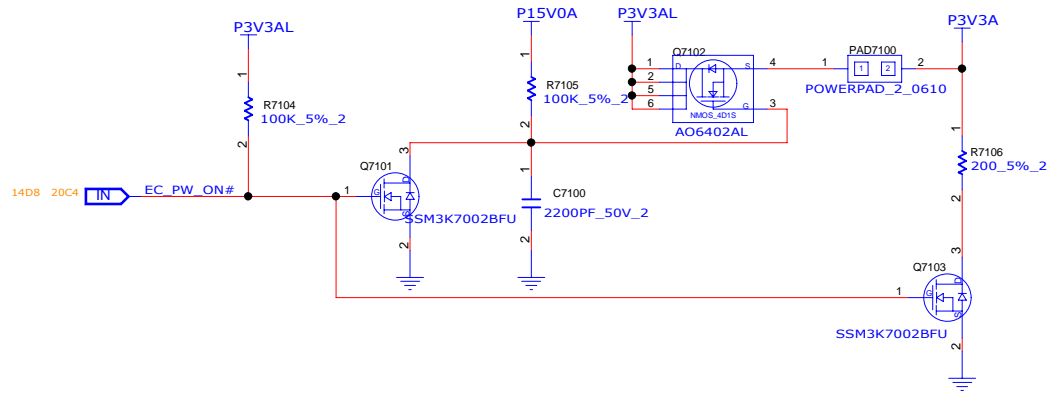
P1V8S



PVCORE



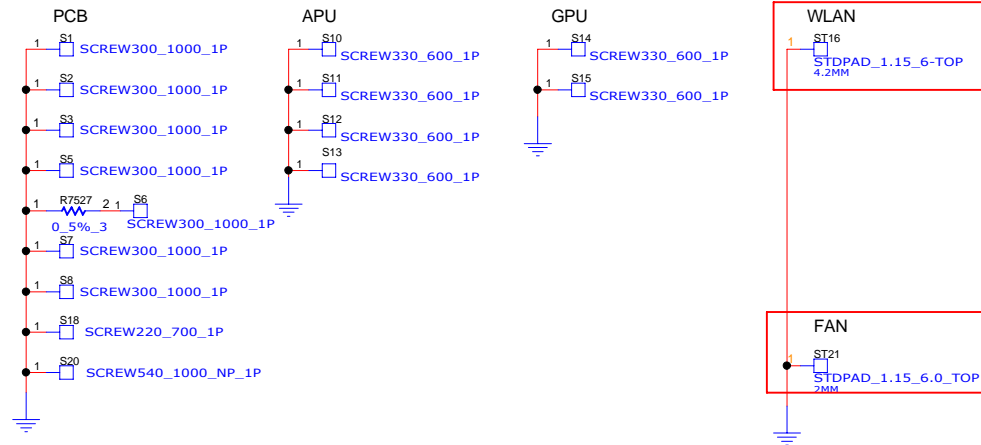
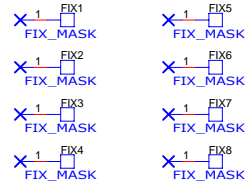
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PM STUFF

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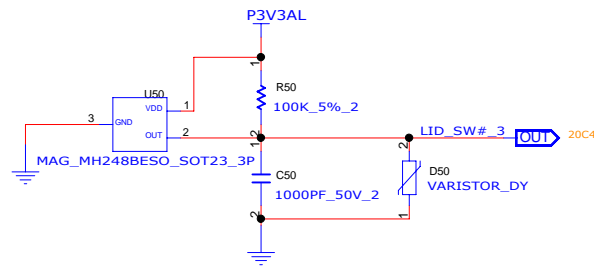
REFERENCE 0~49(PCB SCREW)



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REFERENCE 50-99(HALL SENSOR)

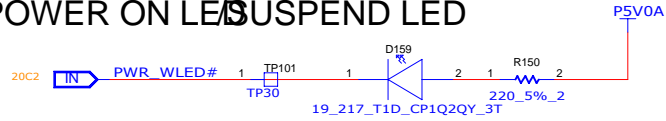
HALL SENSOR



INVENTEC

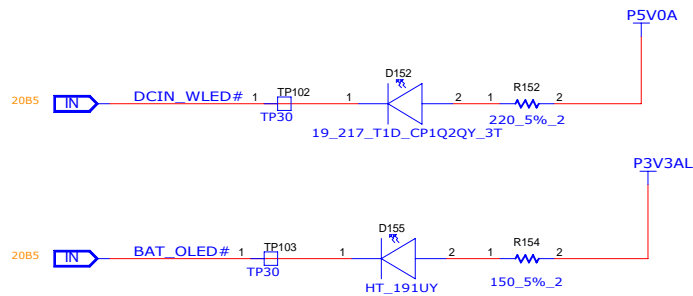
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POWER ON LED/SUSPEND LED

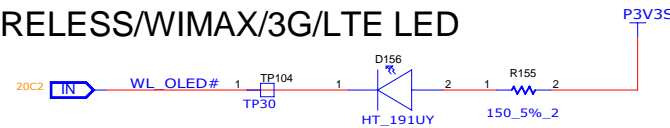


AC IN/BATTERY FULL LED

D152 BRIGHT: BOTH AC-ADAPTER IS PLUGGED IN AND BATTERY IS FULL CHARGED
 D155 BRIGHT: WHILE CHARGING BATTERY FROM AC-ADAPTER
 BLINK: LOW BATTERY



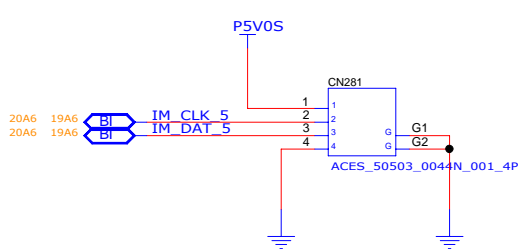
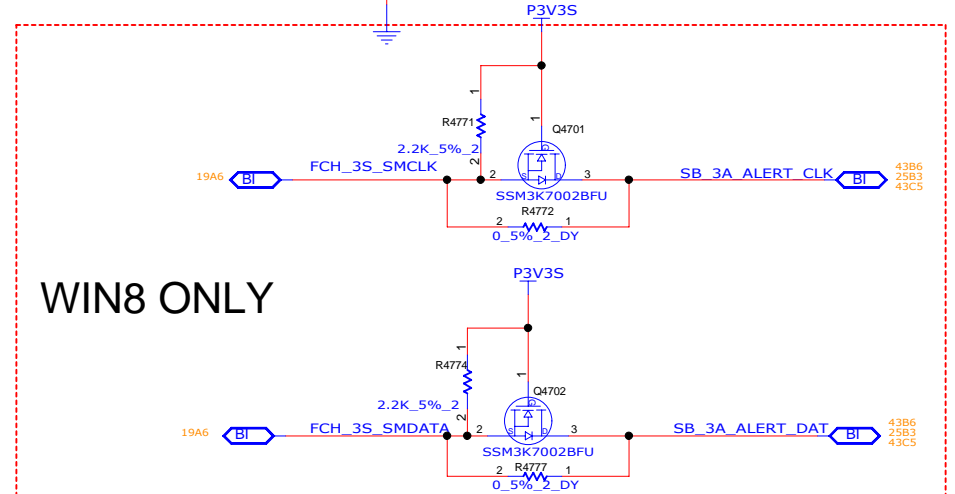
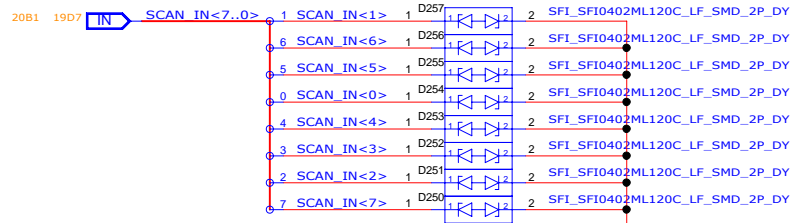
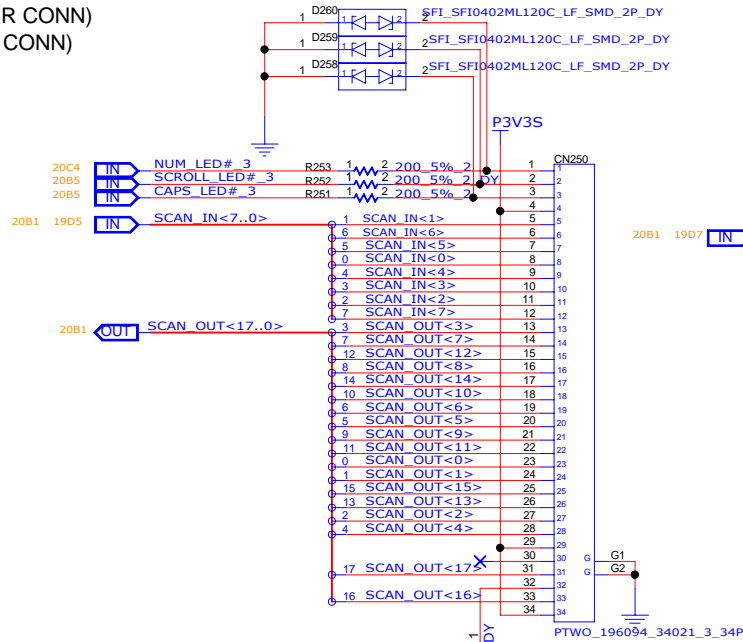
WIRELESS/WIMAX/3G/LTE LED



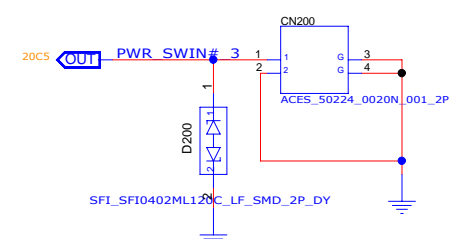
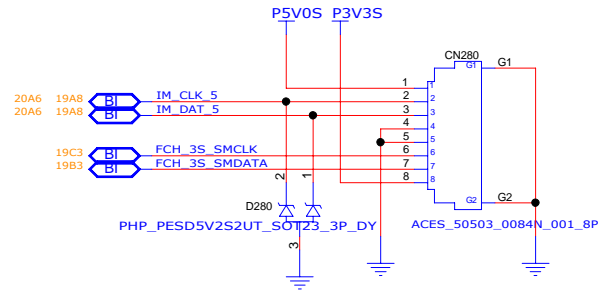
INVENTEC

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REFERENCE 200~249(POWER CONN)
 REFERENCE 250~299(KB/TP CONN)

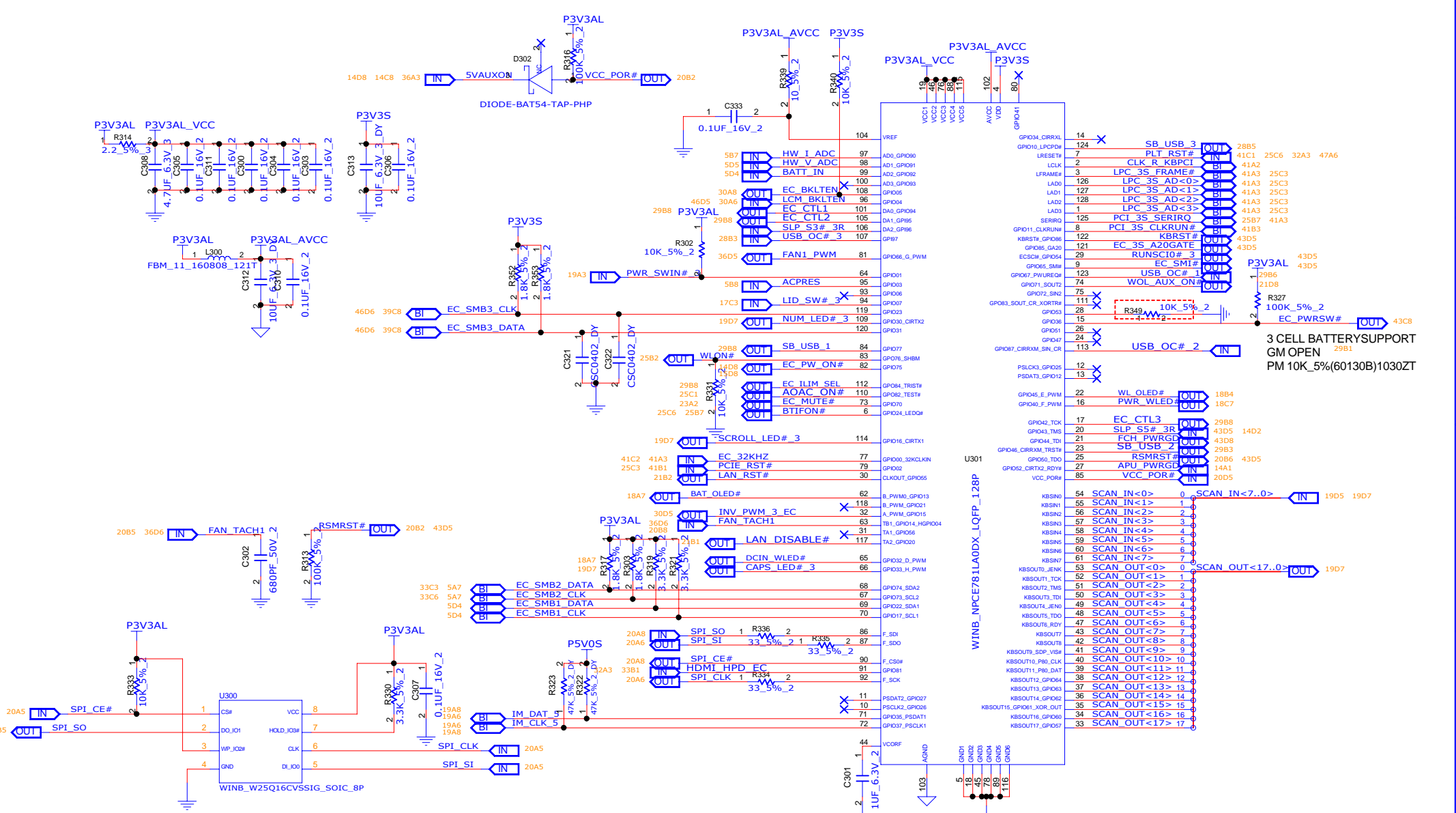


TOUCHPAD CONN

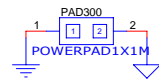


POWER CONN

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EC_SMB1	EC_SMB2	EC_SMB3
1.BATTERY	1.CHARGE	1.CPU THERMAL
	2.CEC	2.GPU THERMAL



U301

Pin	Signal	Pin	Signal
14	GPIO4_CIRRXL	122	SB_USB_3
124	GPIO10_LPCDP#	124	PLT_RST#
7	LRESET#	2	CLK_R_KBPCI
3	LCLK	3	LPC_3S_FRAME#
126	LAD0	126	LPC_3S_AD<0>
127	LAD1	127	LPC_3S_AD<1>
128	LAD2	128	LPC_3S_AD<2>
1	LAD3	1	LPC_3S_AD<3>
125	SERRQ	8	PCI_3S_SERIRQ
122	GPIO11_CLKRUR#	122	PCI_3S_CLKRUN#
8	KBIRST#_GPIO8#	125	KBIRST#
121	ECSC#_GPIO4	121	EC_3S_A2OGATE
9	GPIO6_SMI#	123	RUNSCIO#_3
123	GPIO7_PWLUREQ#	9	EC_SMI#
74	GPIO72_SMI2	123	USB_OC#_1
75	GPIO71_SOUT2	75	WOL_AUX_ON#
111	GPIO83_SOUT_CR_XORTR#	111	KBIRST#
28	GPIO3	15	EC_PWRSW#
15	GPIO6	15	EC_PWRSW#
26	GPIO51	26	EC_PWRSW#
24	GPIO47	24	EC_PWRSW#
113	GPIO87_CIRRXM_SIN_CR	113	EC_PWRSW#
12	PSCLK3_GPIO5	12	USB_OC#_2
13	PSDAT3_GPIO12	13	USB_OC#_2
22	GPIO45_E_PWM	22	WL_OLED#
16	GPIO40_F_PWM	16	PWR_WLED#
17	GPIO42_TCK	17	EC_CTL3
20	GPIO43_TMS	20	SLP_S5#_3R
21	GPIO44_TDI	21	FCH_PWRGD#
23	GPIO46_CIRRXM_TRST#	23	SB_USB_2
25	GPIO50_TDO	25	RSMRST#
27	GPIO52_CIRTX2_RDY#	27	APU_PWRGD#
65	VCC_POR#	65	VCC_POR#
54	KBSIN0	0	SCAN IN<0>
55	KBSIN1	1	SCAN IN<1>
56	KBSIN2	2	SCAN IN<2>
57	KBSIN3	3	SCAN IN<3>
58	KBSIN4	4	SCAN IN<4>
59	KBSIN5	5	SCAN IN<5>
60	KBSIN6	6	SCAN IN<6>
61	KBSIN7	7	SCAN IN<7>
53	KBSOUT0_JENK	0	SCAN OUT<0>
52	KBSOUT1_TCK	1	SCAN OUT<1>
51	KBSOUT2_TMS	2	SCAN OUT<2>
50	KBSOUT3_TDI	3	SCAN OUT<3>
49	KBSOUT4_JEN0	4	SCAN OUT<4>
48	KBSOUT5_TDO	5	SCAN OUT<5>
47	KBSOUT6_RDY	6	SCAN OUT<6>
43	KBSOUT7	7	SCAN OUT<7>
42	KBSOUT8	8	SCAN OUT<8>
41	KBSOUT9_SDP_VSP#	9	SCAN OUT<9>
40	KBSOUT10_P80_CLK	10	SCAN OUT<10>
39	KBSOUT11_P80_DATA	11	SCAN OUT<11>
38	KBSOUT12_GPIO4	12	SCAN OUT<12>
37	KBSOUT13_GPIO3	13	SCAN OUT<13>
36	KBSOUT14_GPIO2	14	SCAN OUT<14>
35	KBSOUT15_GPIO1_XOR_OUT	15	SCAN OUT<15>
34	KBSOUT16_GPIO0	16	SCAN OUT<16>
33	KBSOUT17_GPIO07	17	SCAN OUT<17>

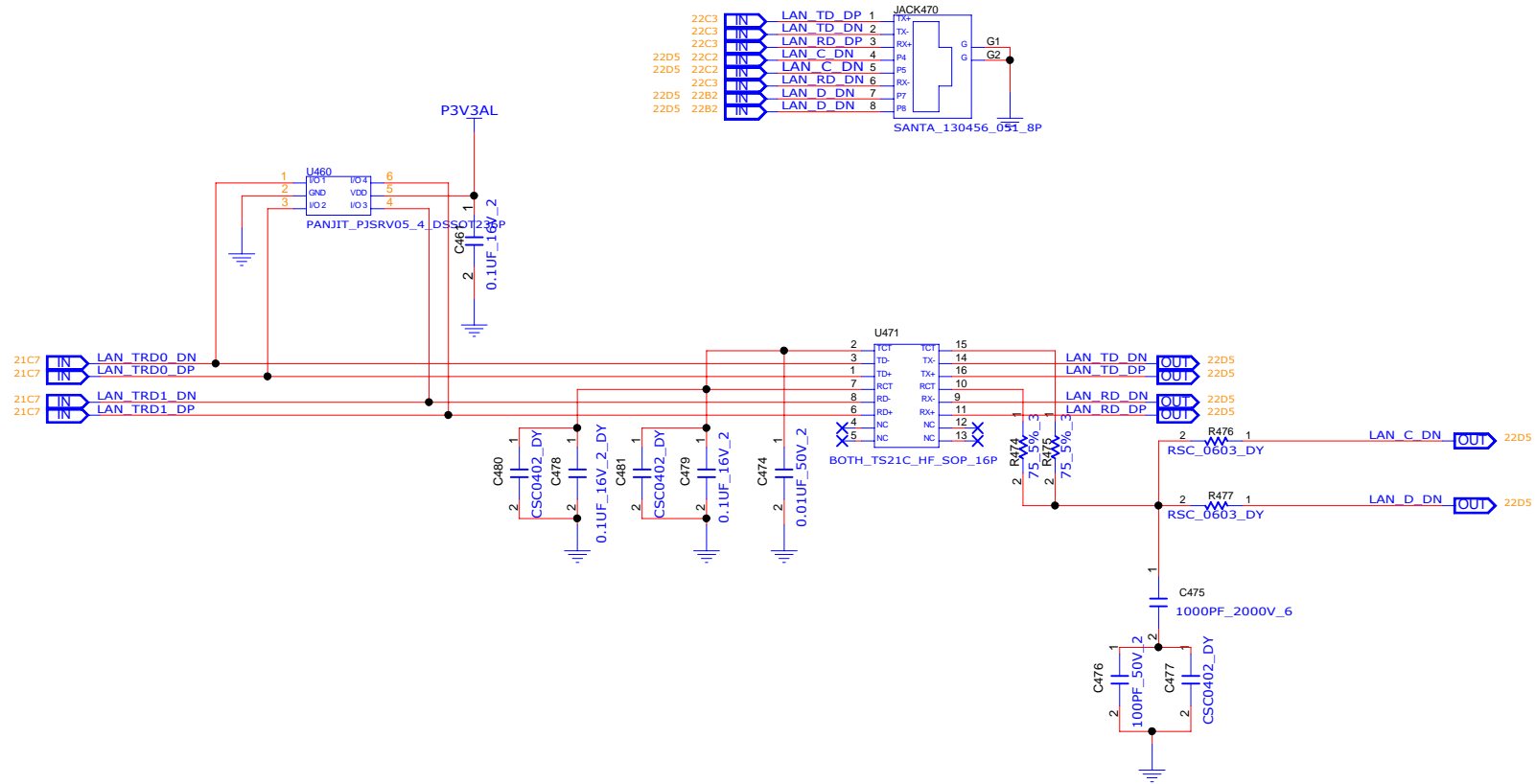
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REFERENCE 470-499(LAN)

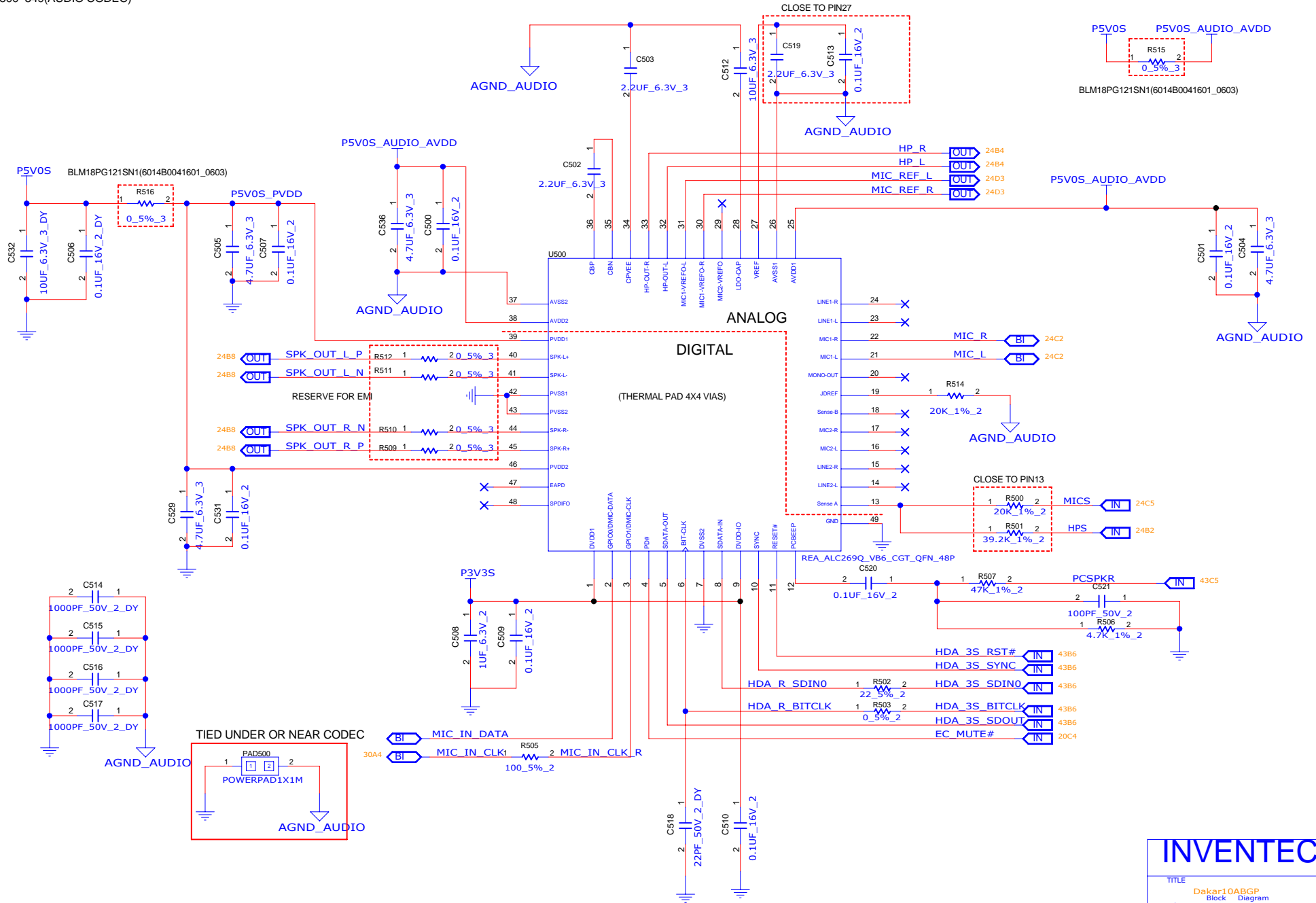


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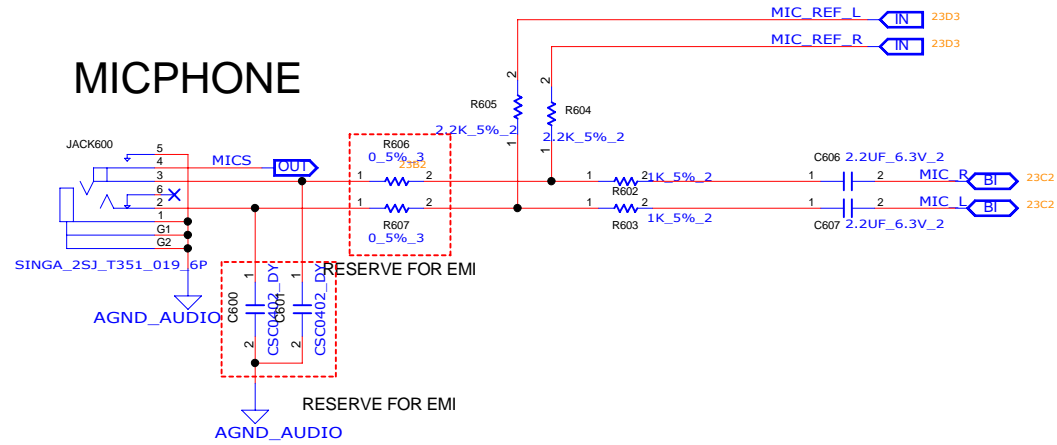
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REFERENCE 500-549(AUDIO CODEC)

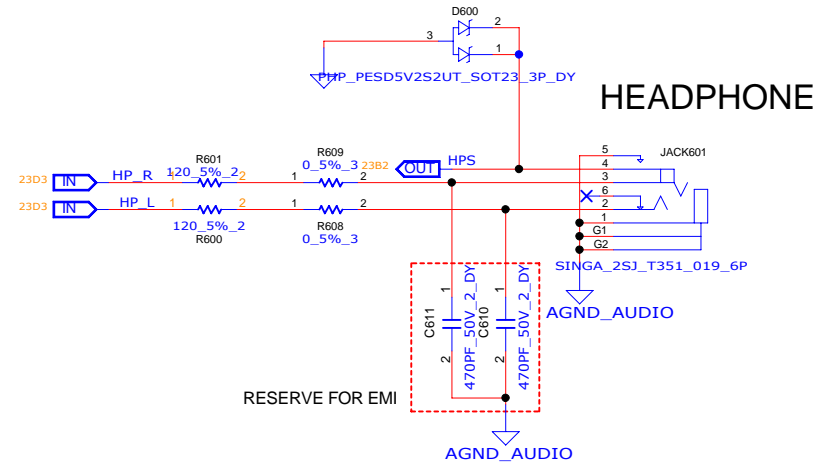
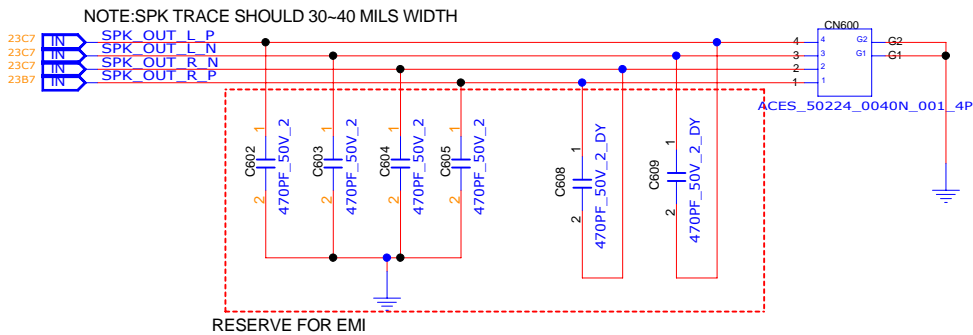


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AUDIO JACKS

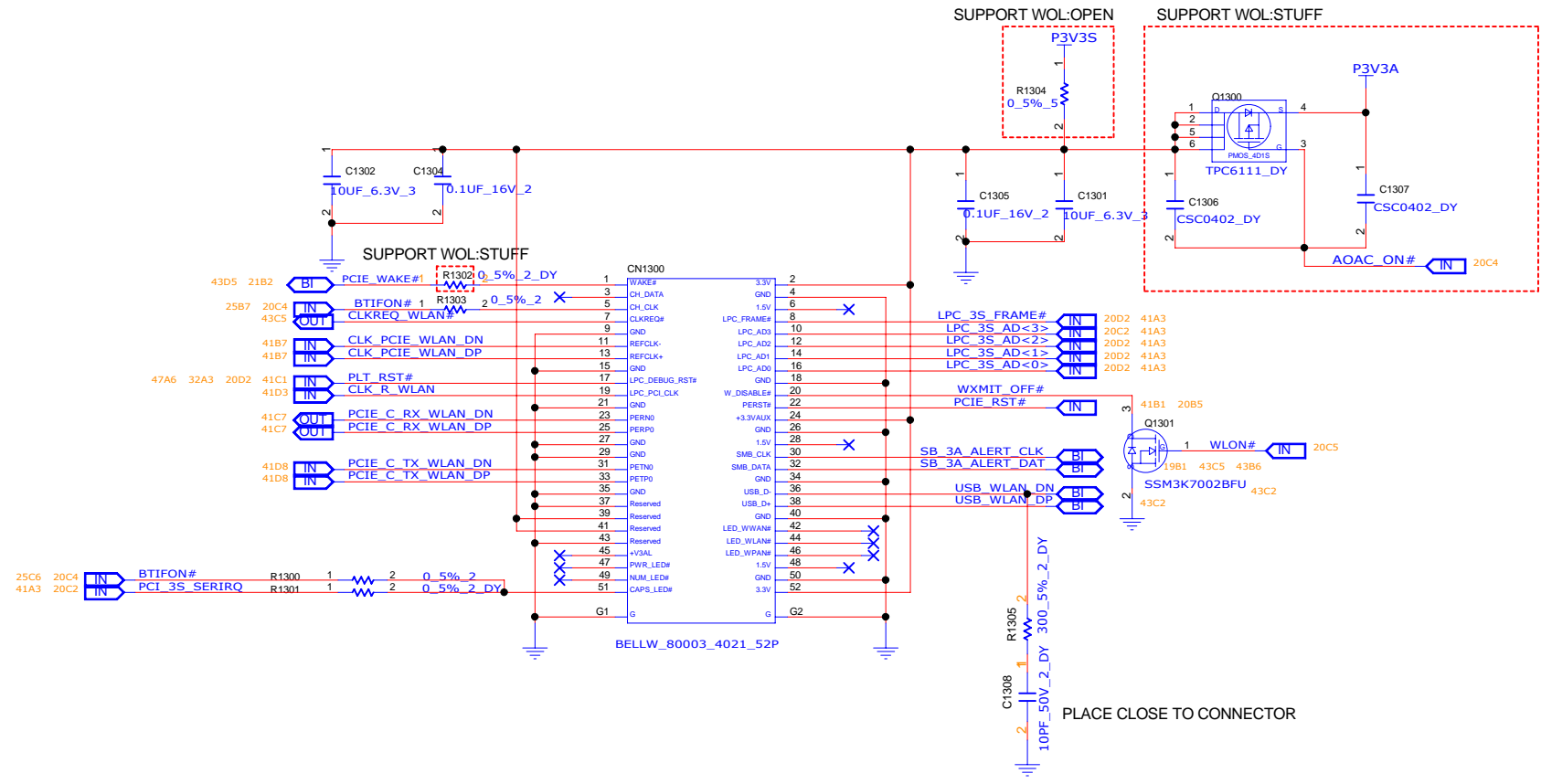


INTERNAL SPEAKERS



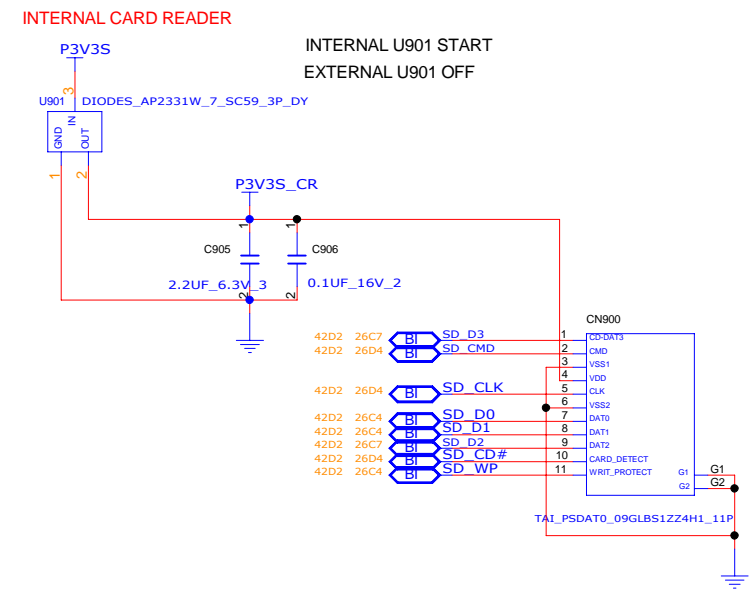
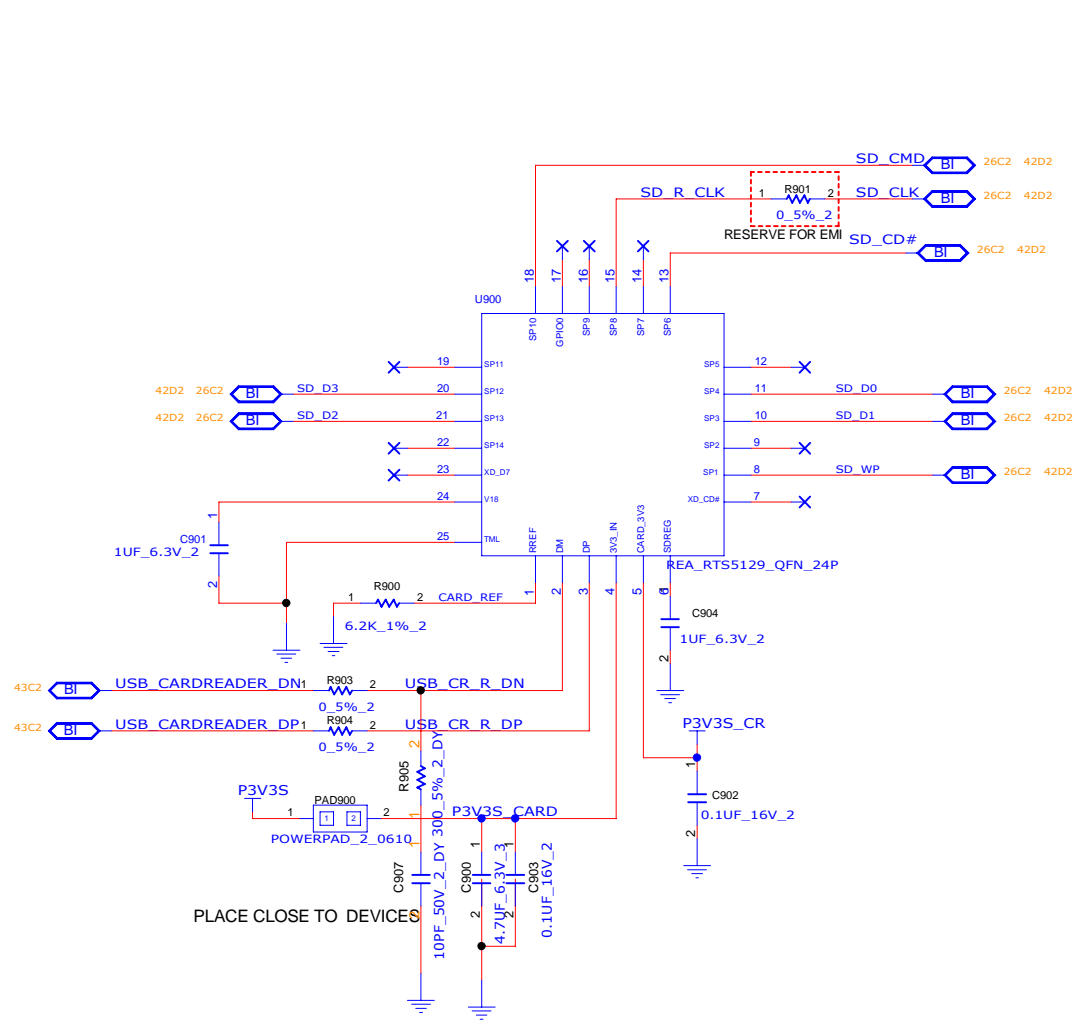
INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3		CODE CS	REV X01
DOC NUMBER 1310xxxxx-0-0		SHEET 24 of 57	



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 25 of 57

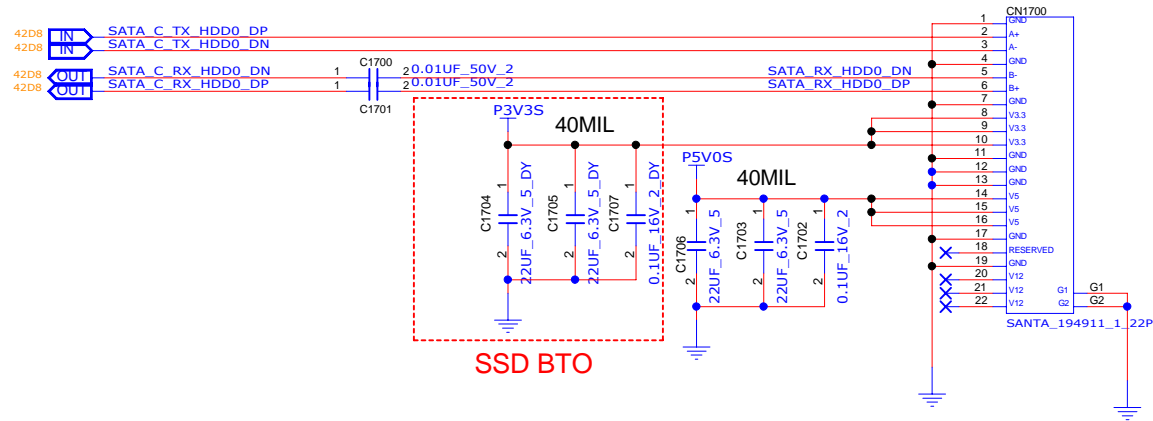
REFERNCE 900-999(CARDREADER)



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 26 of 57

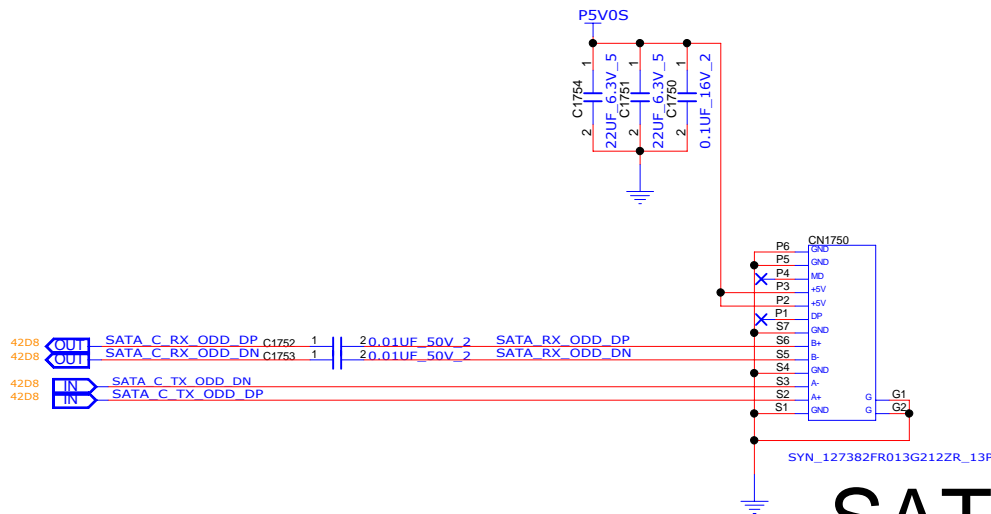
REFERENCE 1700-1749(HDD)
 REFERENCE 1750-1799(ODD)

SATA HDD



SSD BTO

SATA ODD

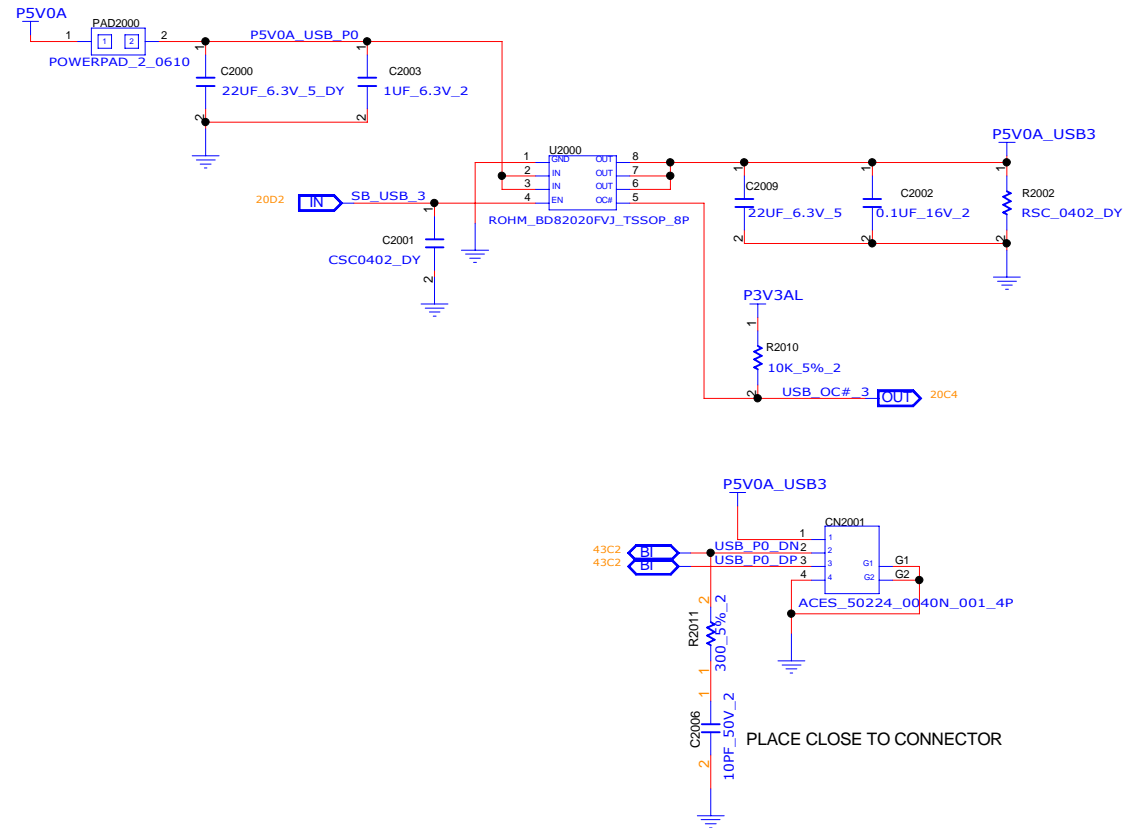


INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 27 of 57

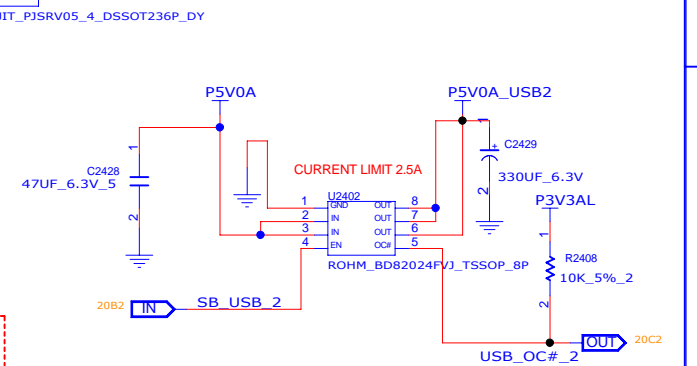
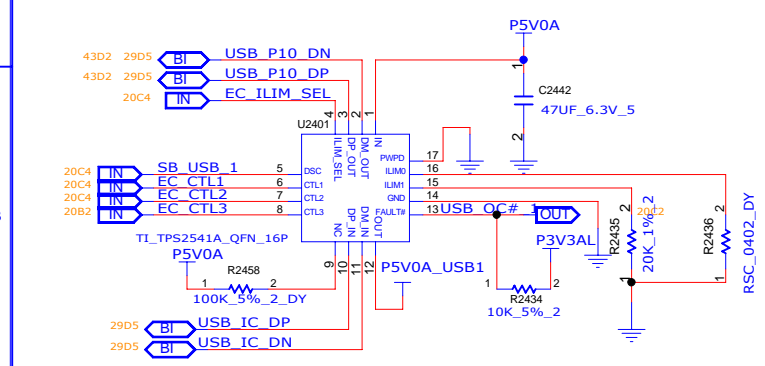
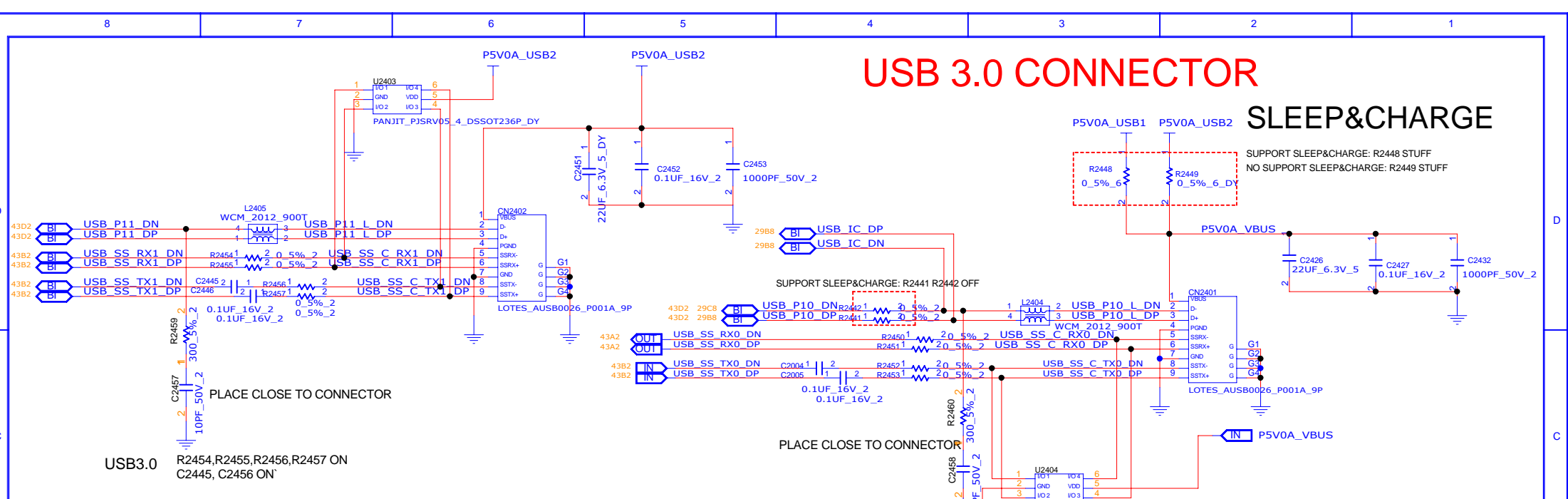
PLACEMENT LEFT SIDE



INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 28 of 57

USB 3.0 CONNECTOR

SLEEP&CHARGE



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

Table 2 – TPS2540 Control Truth Table

INVENTEC

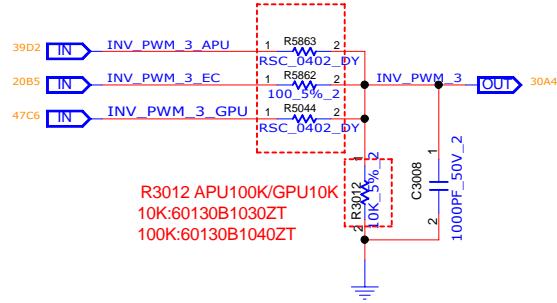
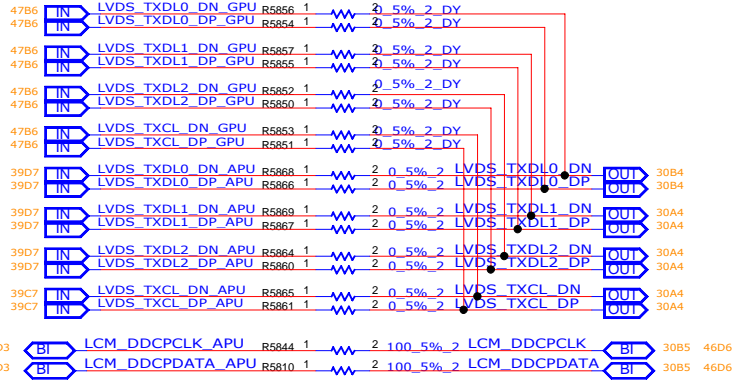
TITLE
Dakar10ABGP Block Diagram

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

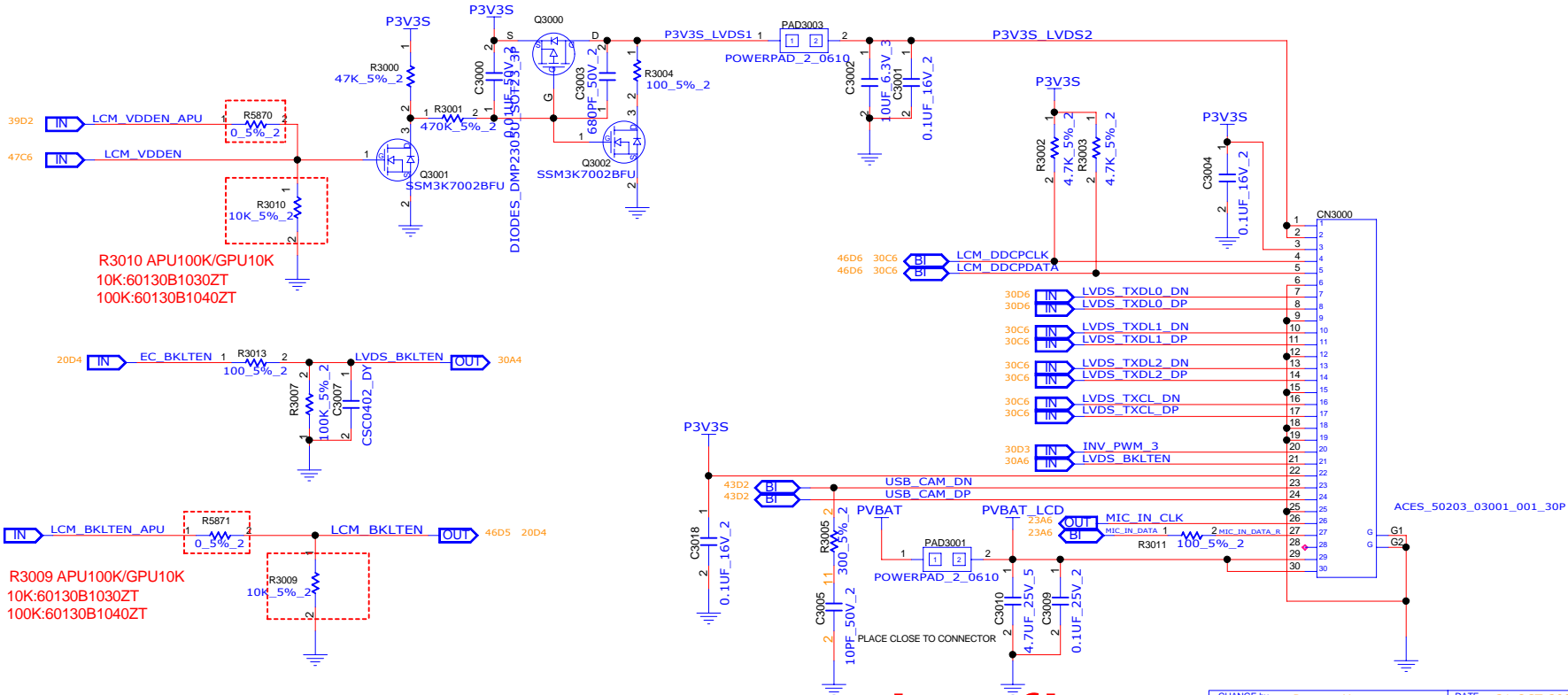
CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 29 of 57

REFERENCE 3000-3049(LCM)

GM/PM CO-LAYOUT



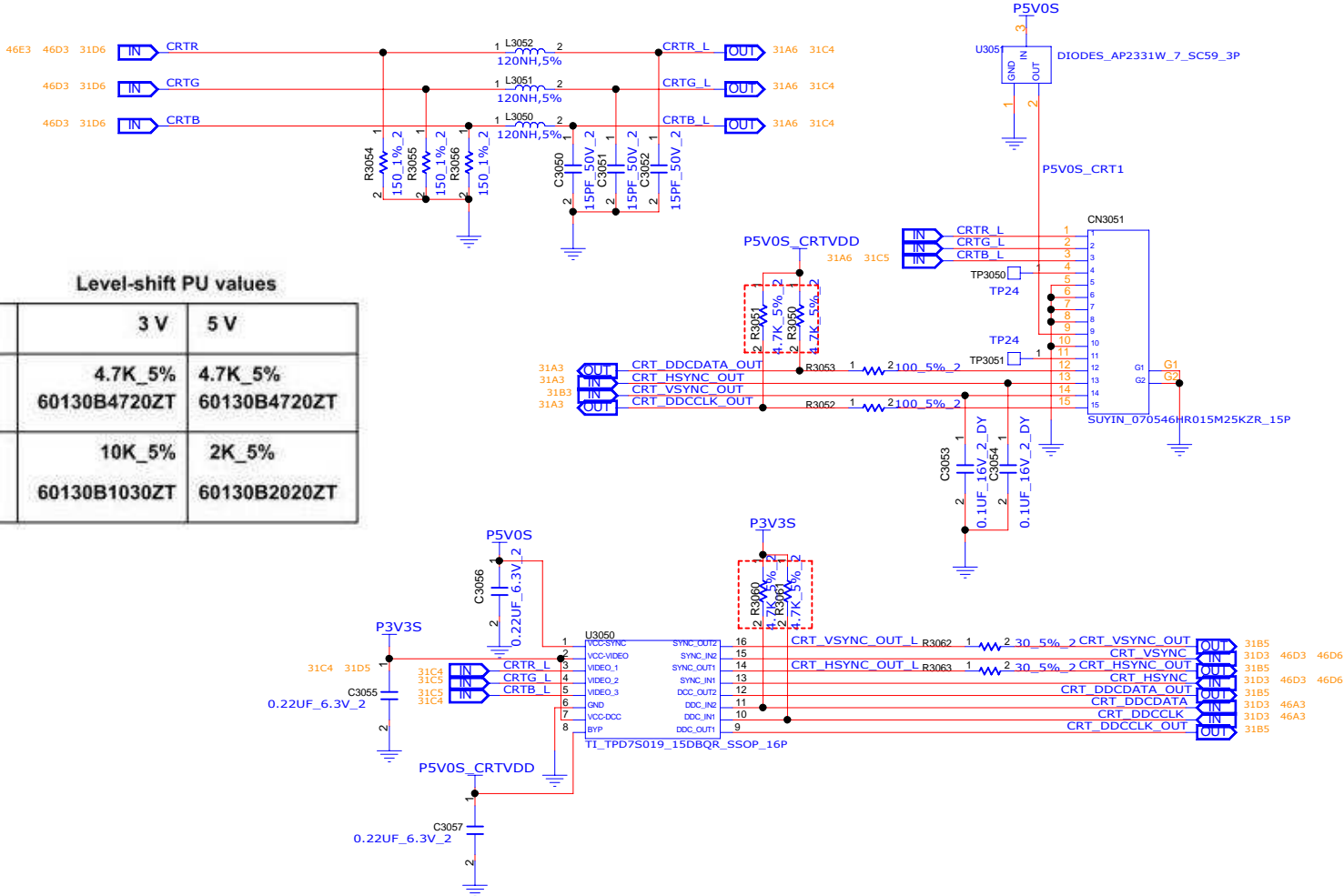
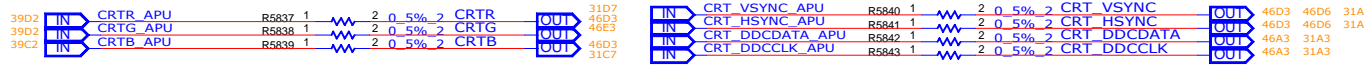
10K:60130B1030ZT
100K:60130B1040ZT



INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 30 of 57

GM/PM CO-LAYOUT



Level-shift PU values

	3 V	5 V
APU	4.7K_5% 60130B4720ZT	4.7K_5% 60130B4720ZT
GPU	10K_5% 60130B1030ZT	2K_5% 60130B2020ZT

INVENTEC

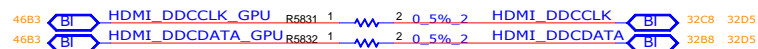
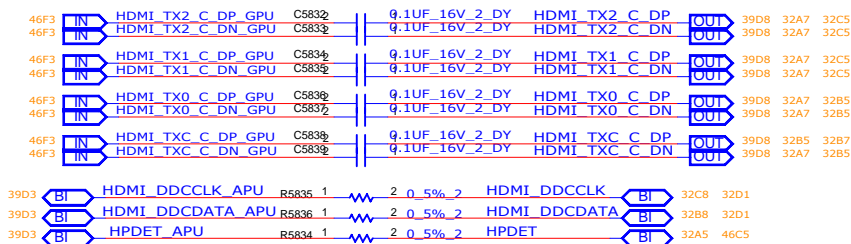
TITLE
Dakar10ABGP
Block Diagram

DOC NUMBER
1310xxxxx-0-0

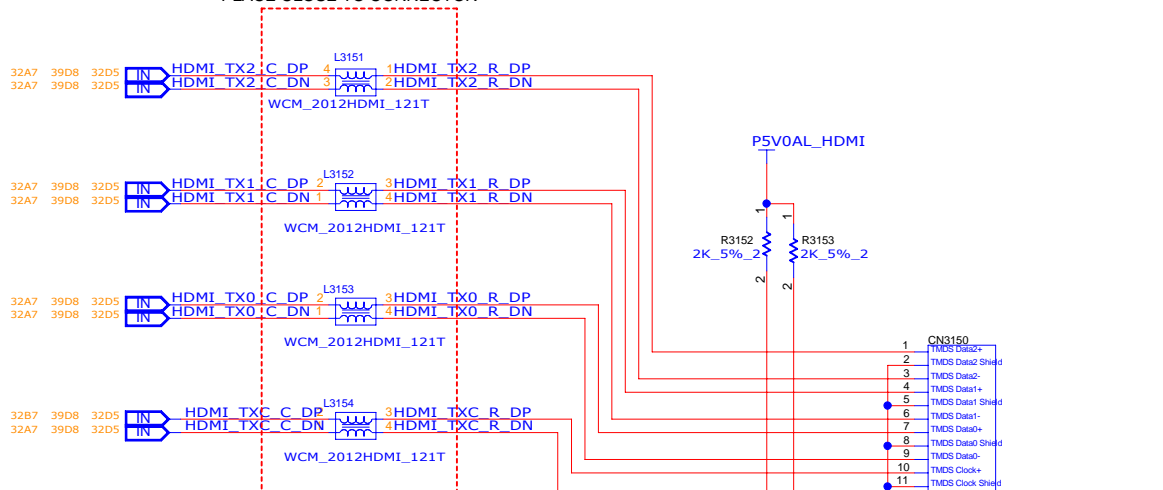
REV
X01

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 31 of 57

GM/PM CO-LAYOUT



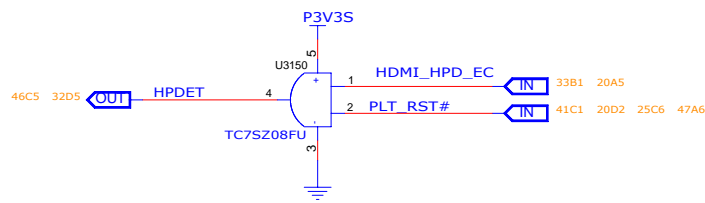
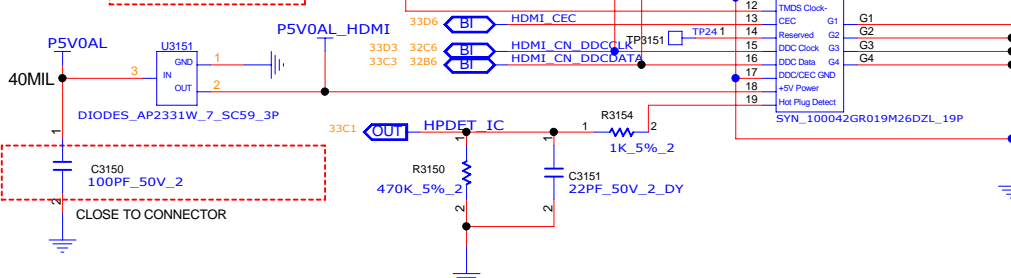
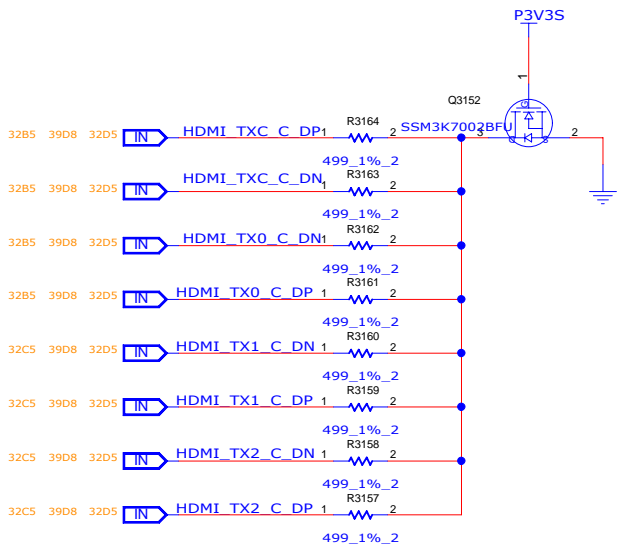
PLACE CLOSE TO CONNECTOR



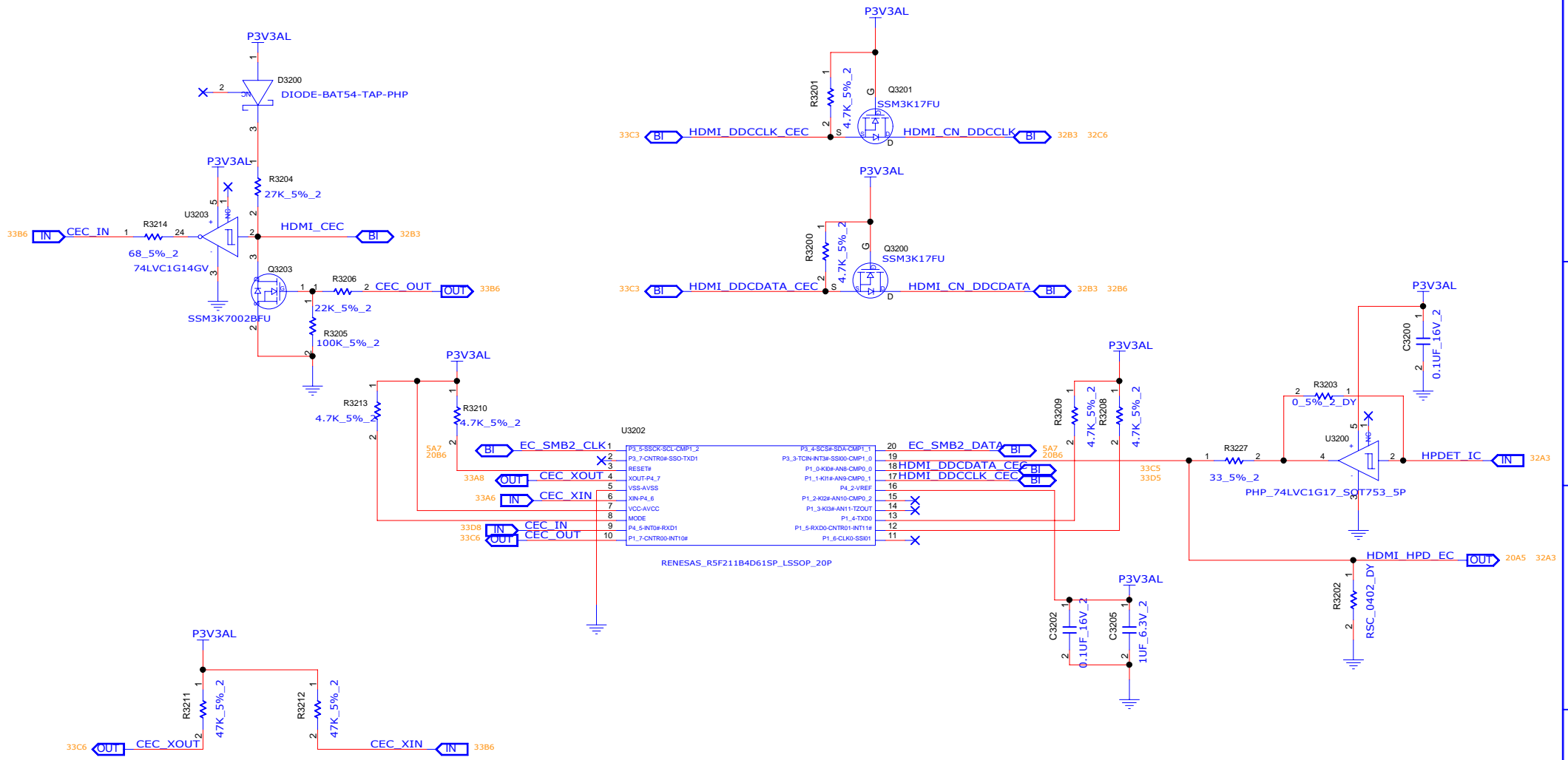
GM: 2K_5%_2(60130B2020ZT)
PM: 10K_5%_2(60130B1030ZT)



GM: 2K_5%_2(60130B2020ZT)
PM: 10K_5%_2(60130B1030ZT)



INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
CHANGE by Parry Huang			DATE 21-OCT-2002
SHEET 32 of 57			

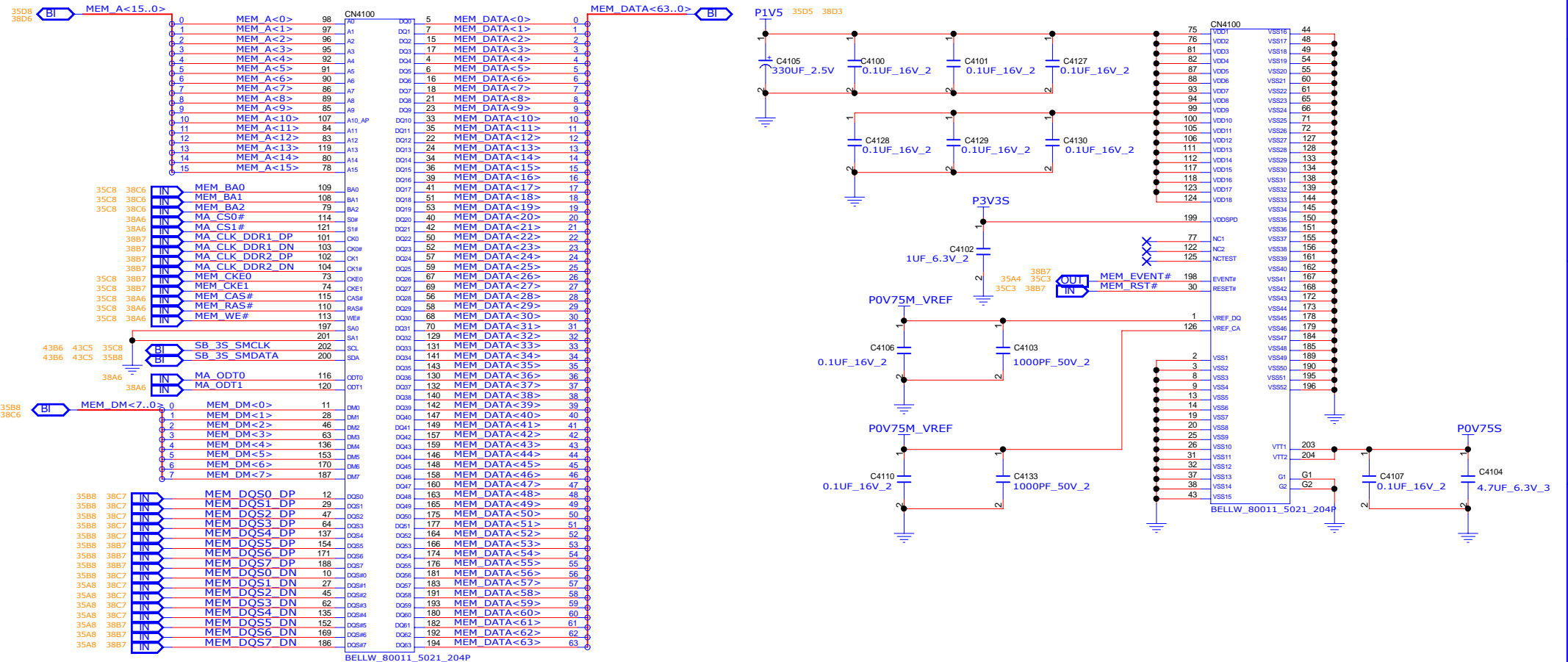


INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3		CODE CS	REV X01
DOC NUMBER 1310xxxxx-0-0		SHEET 33 of 57	

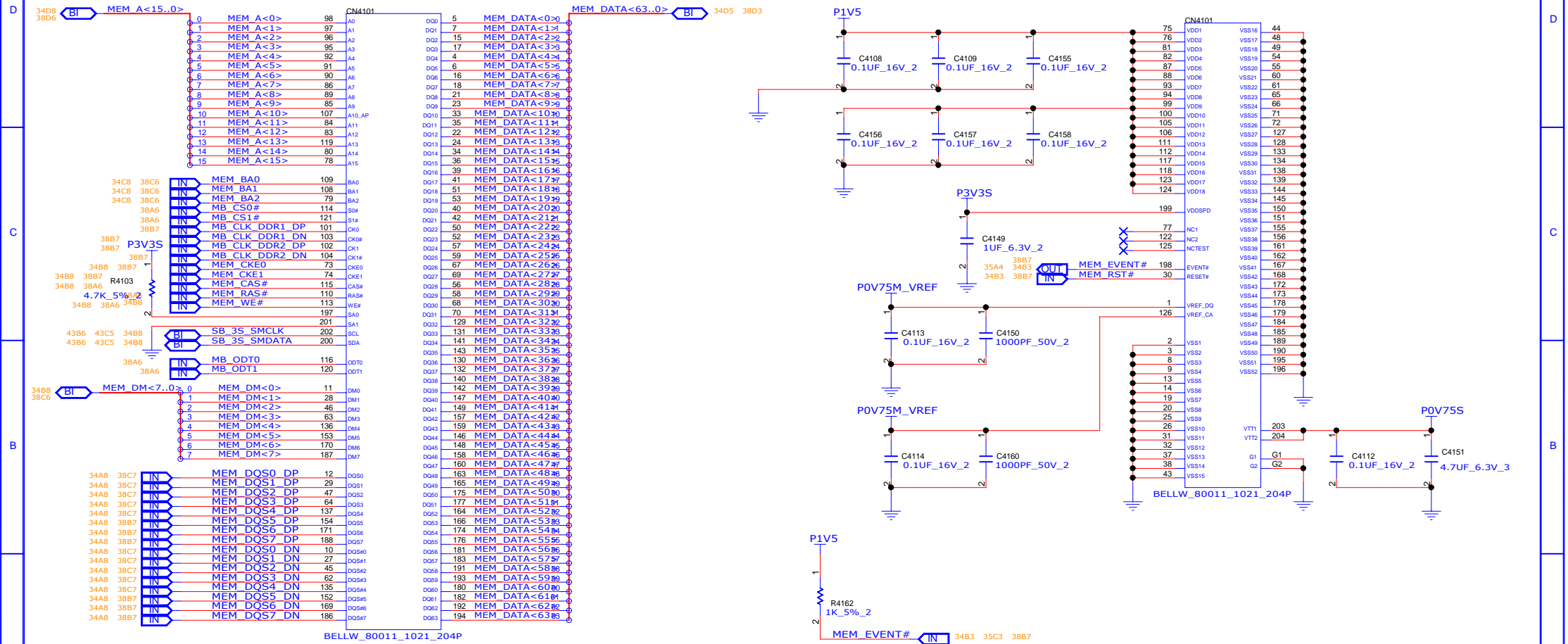
CHANGE by Parry Huang DATE 21-OCT-2002

SO-DIMM 0 SLOT A



INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 34 of 57

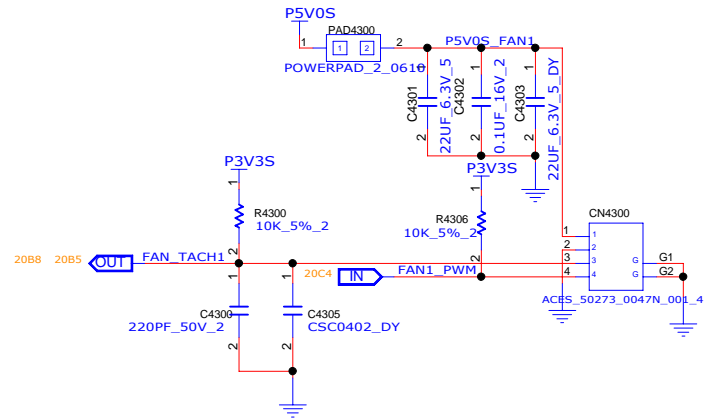
SO-DIMM 1 SLOT B



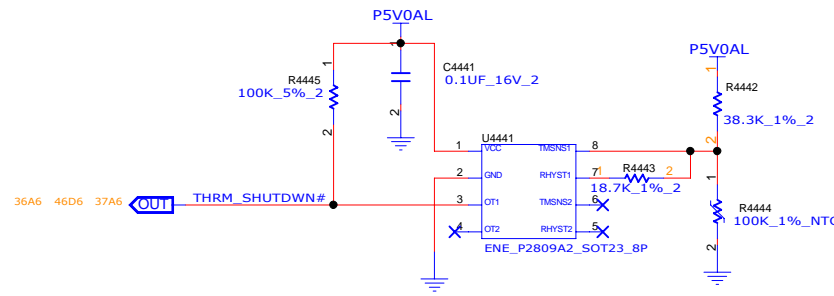
INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01

REFERENCE 4300-4349(FAN)
 REFERENCE 4411-4449(G708)

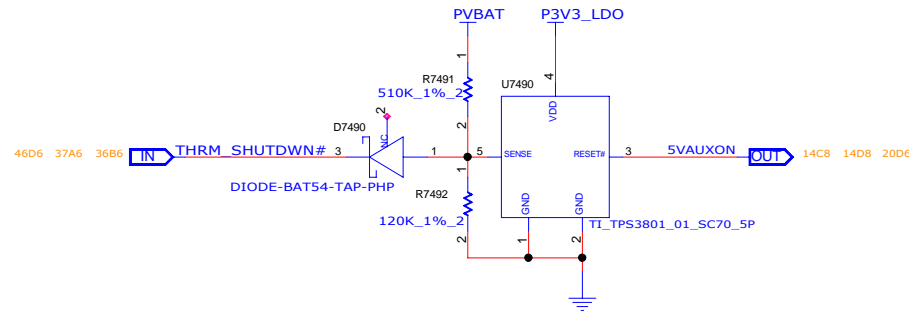


FAN CN



THERMAL SENSOR

GM
 R4442 38.3K_1% 6013A008850M
 R4443 18.7K_1% 6013A0017101
 PM
 R4442 31.6K_1% 6013A008850D
 R4443 15.4K_1% 6013A008840B

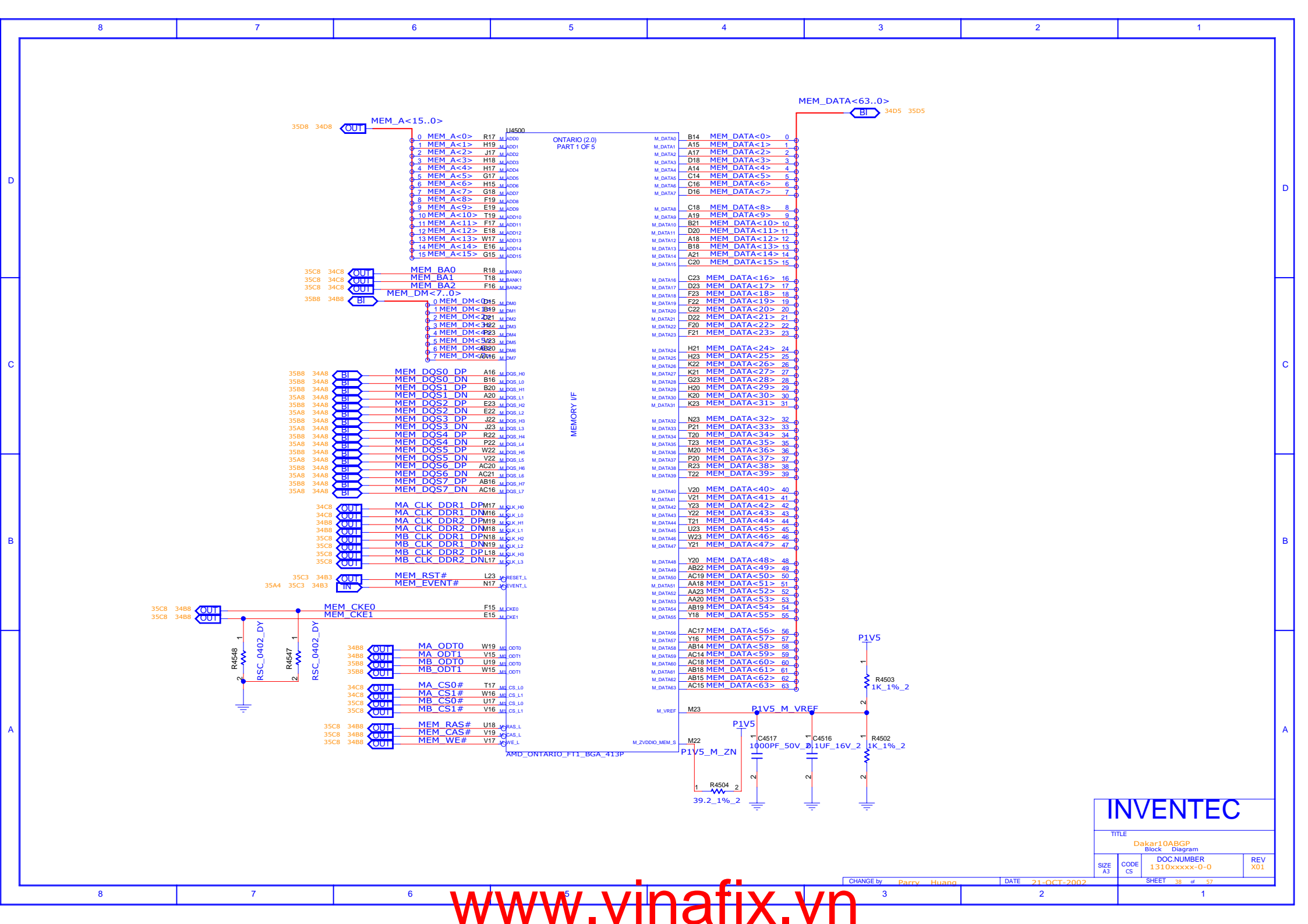


RESET IC

INVENTEC

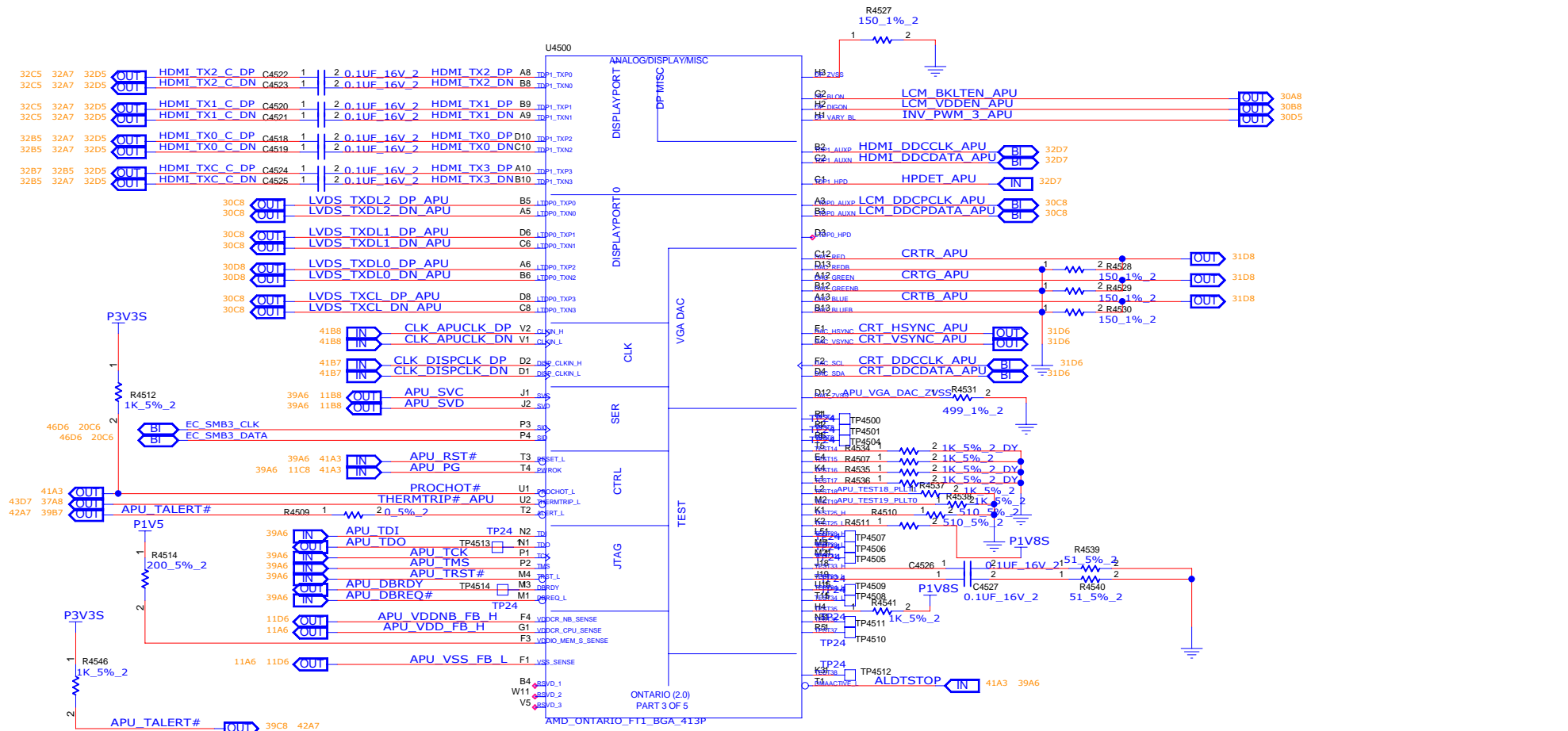
TITLE			
Dakar10ABGP Block Diagram			
SIZE		DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 36 of 57

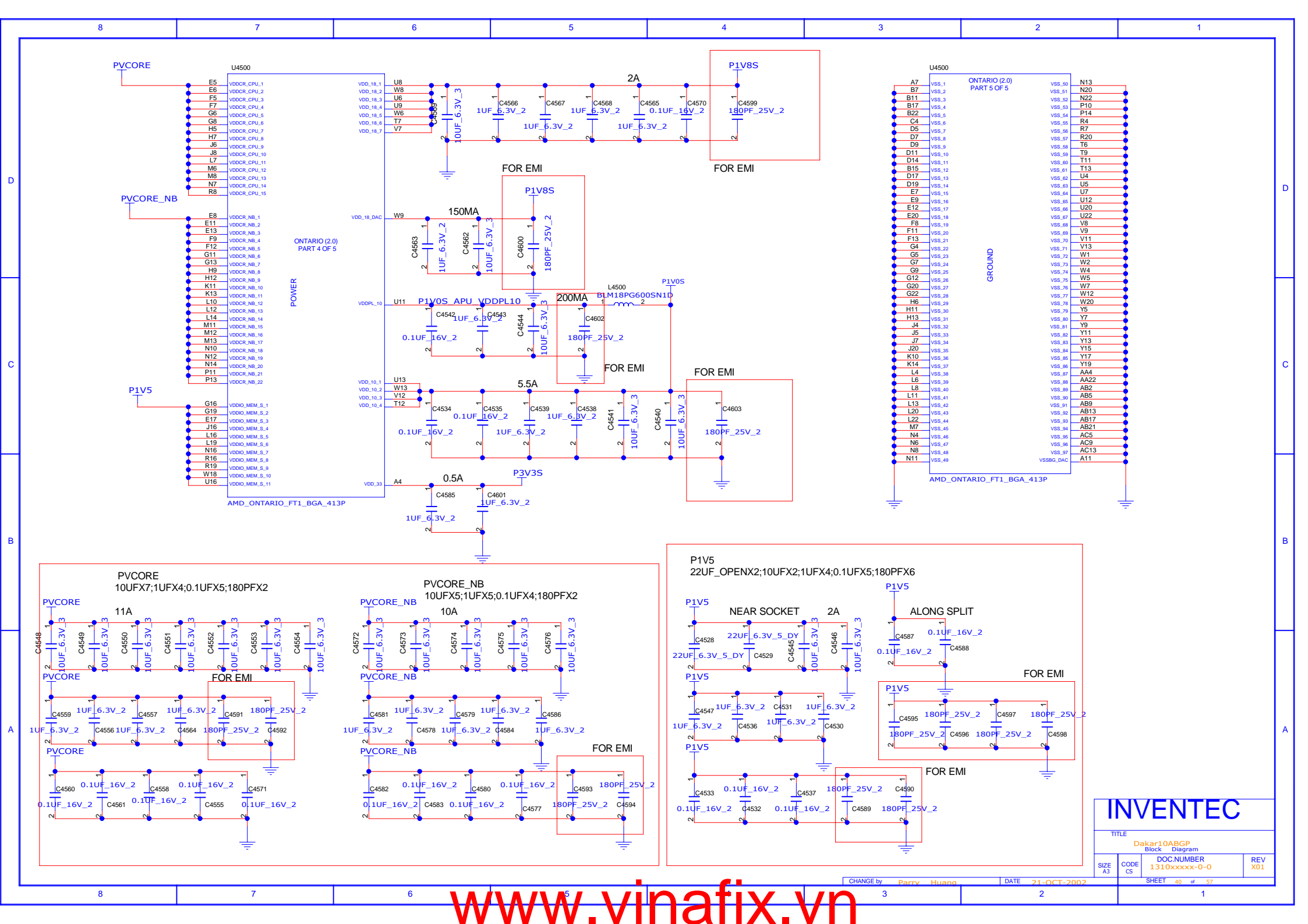


INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3		CODE CS	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	DOC NUMBER 1310xxxxx-0-0
SHEET 39 of 57			



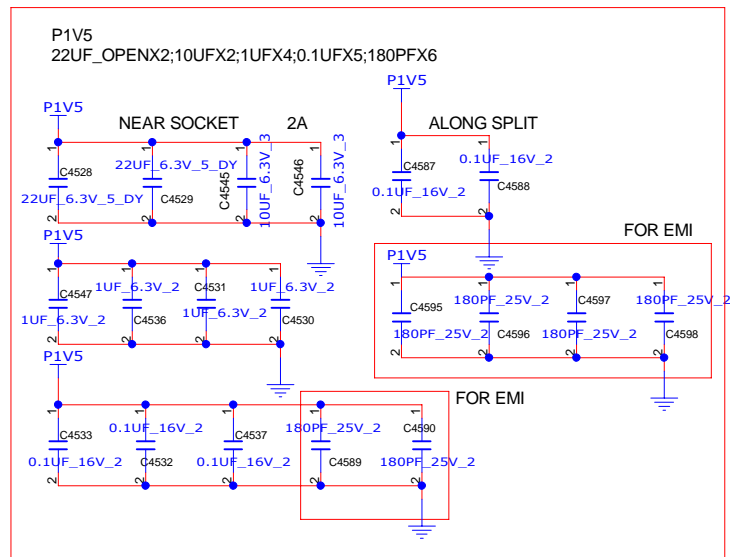
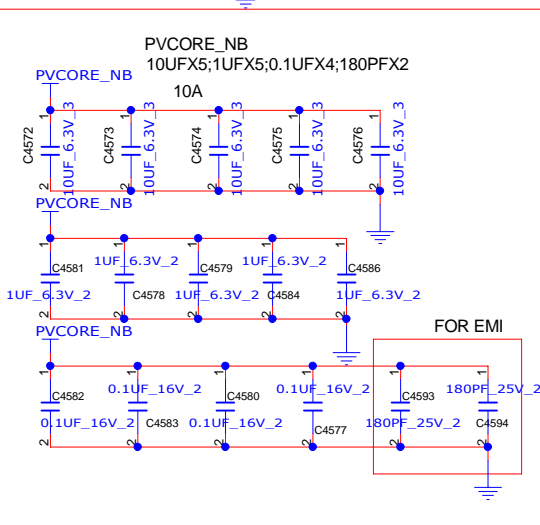
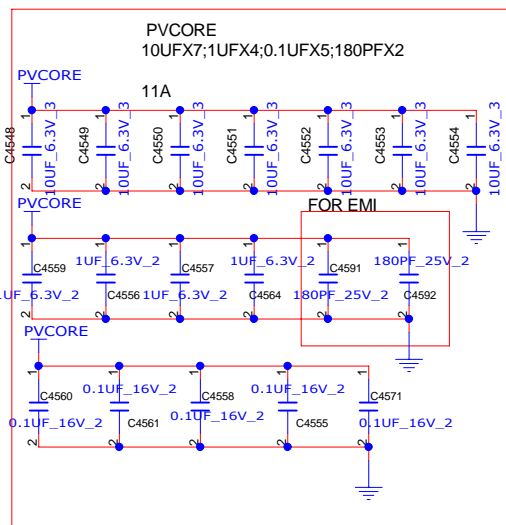
ONTARIO (2.0)
PART 4 OF 5

GROUND

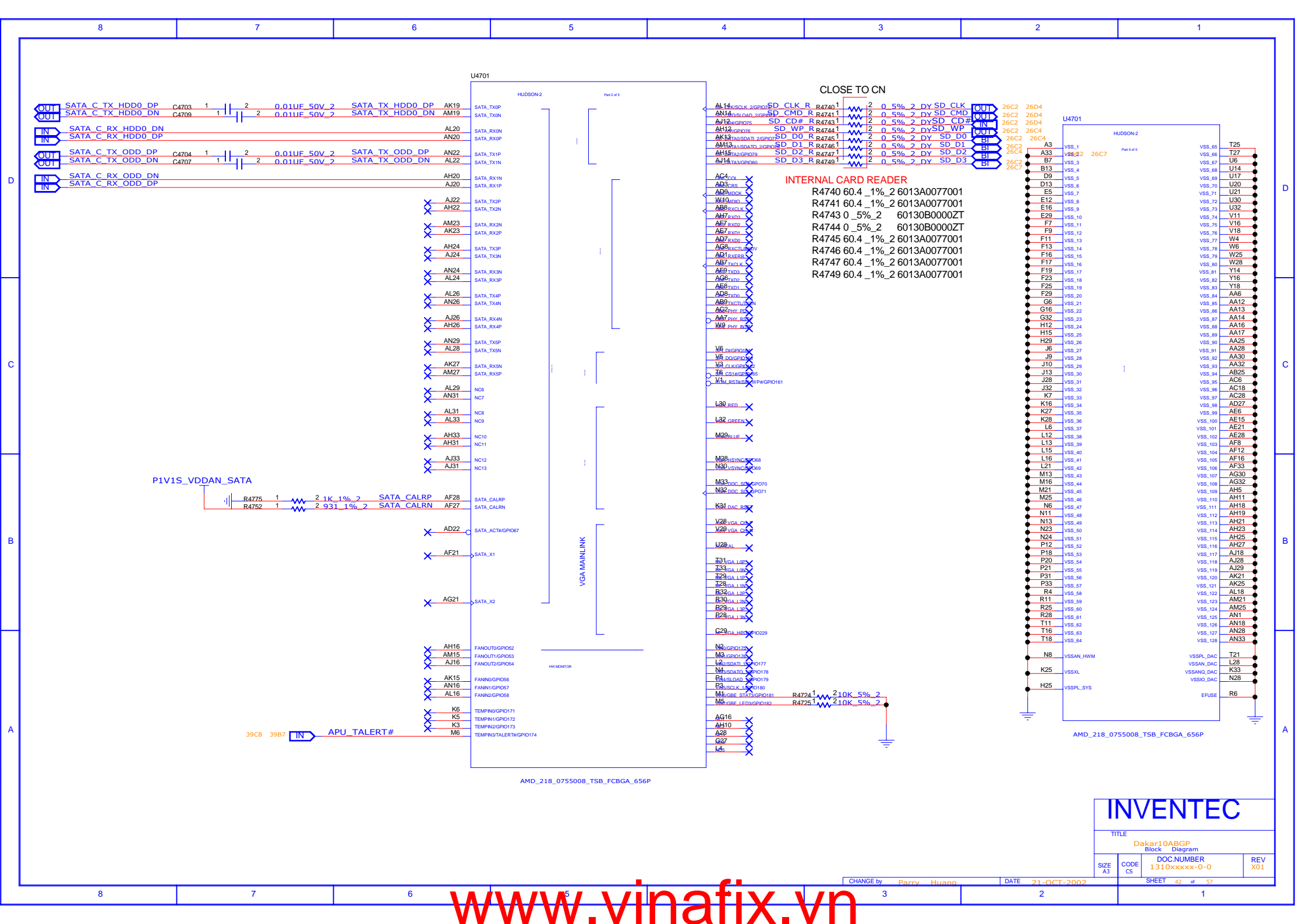
AMD_ONTARIO_FT1_BGA_413P

AMD_ONTARIO_FT1_BGA_413P

VSS8G_DAC



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 40 of 57

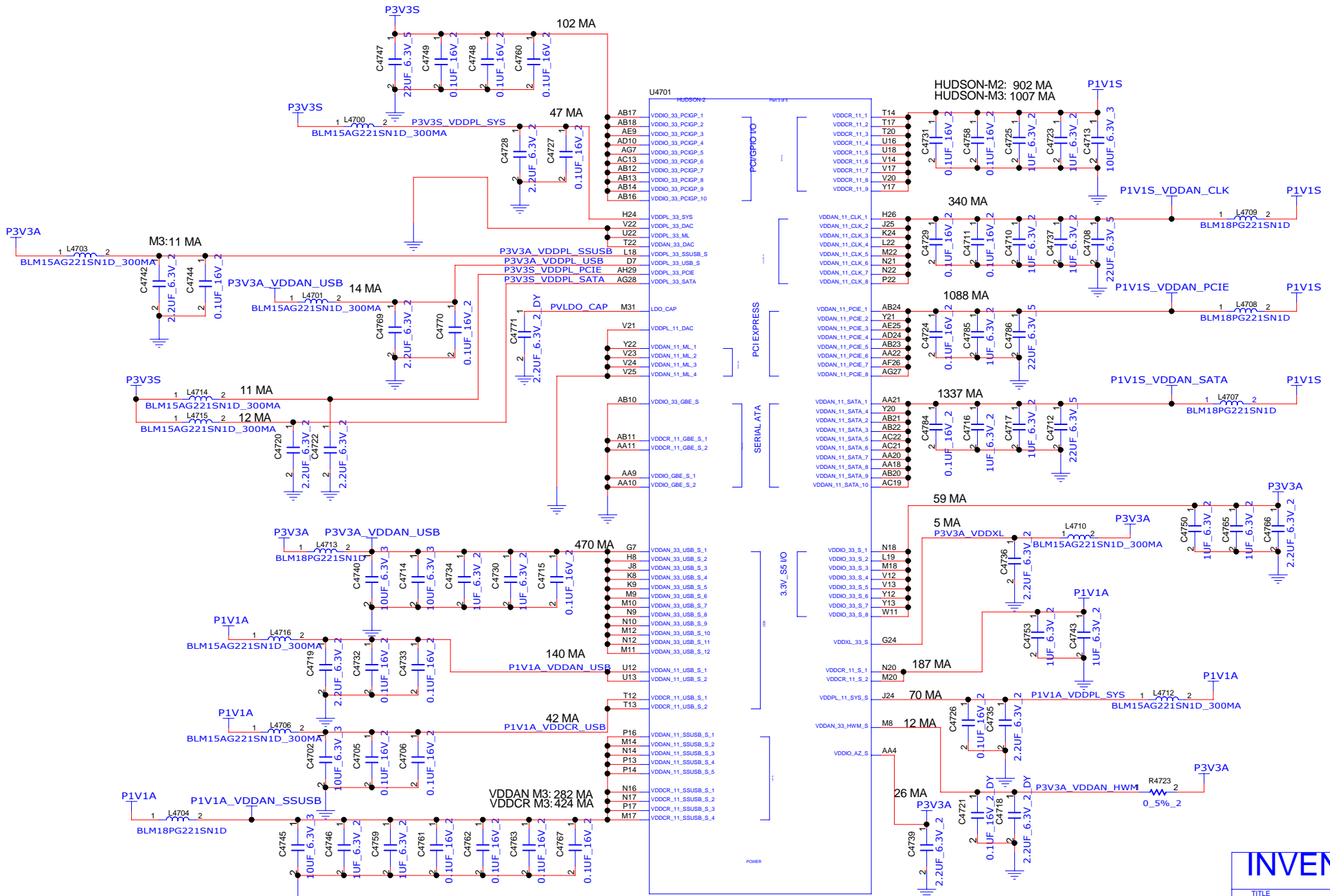


INVENTEC

TITLE: Dakar10ABGP Block Diagram

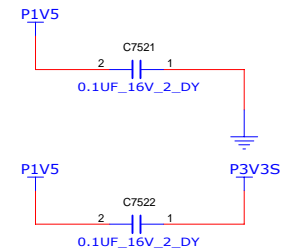
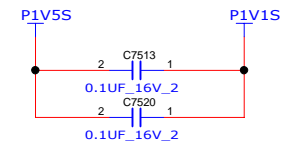
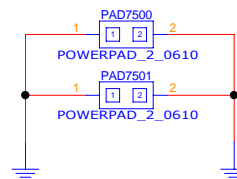
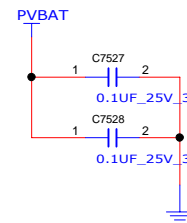
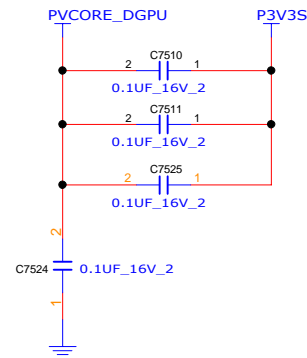
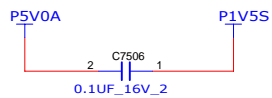
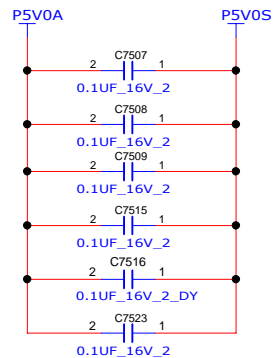
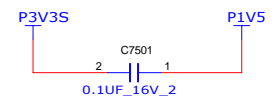
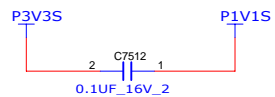
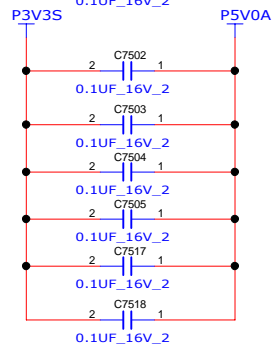
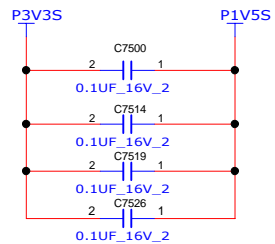
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 42 of 57

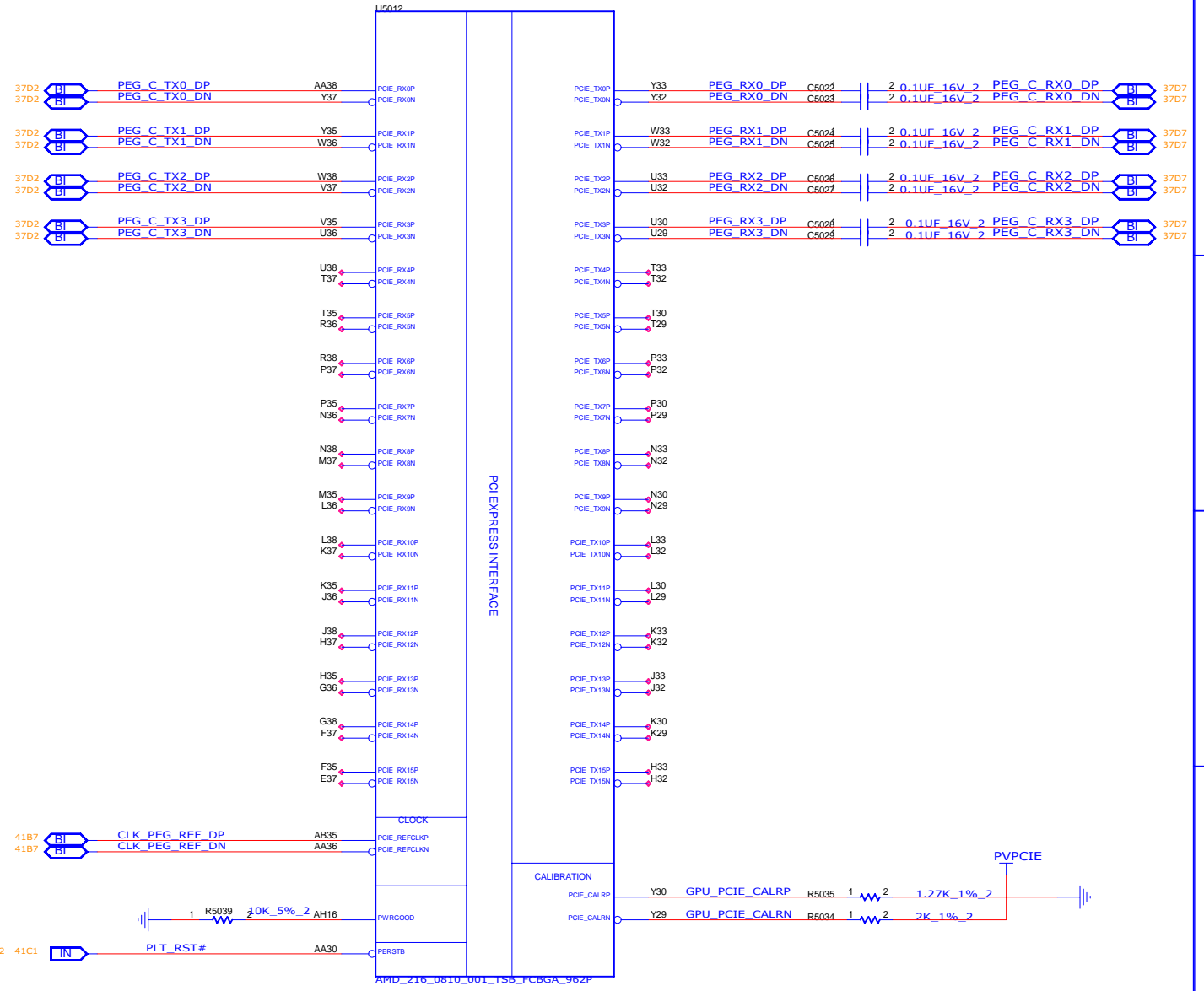
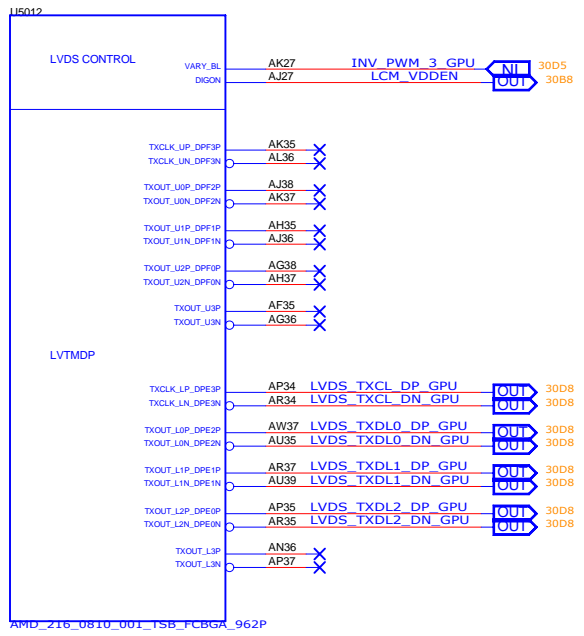
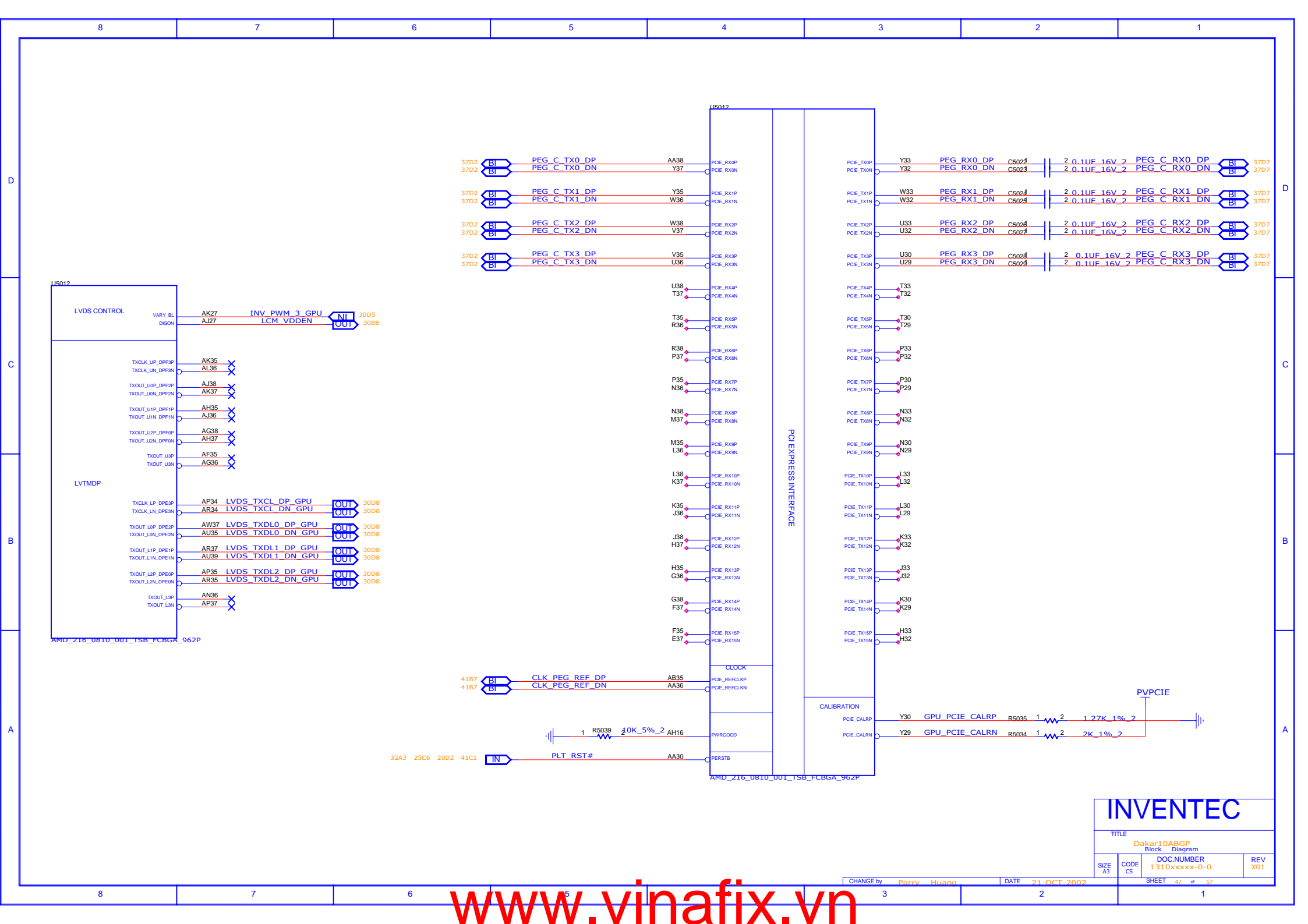


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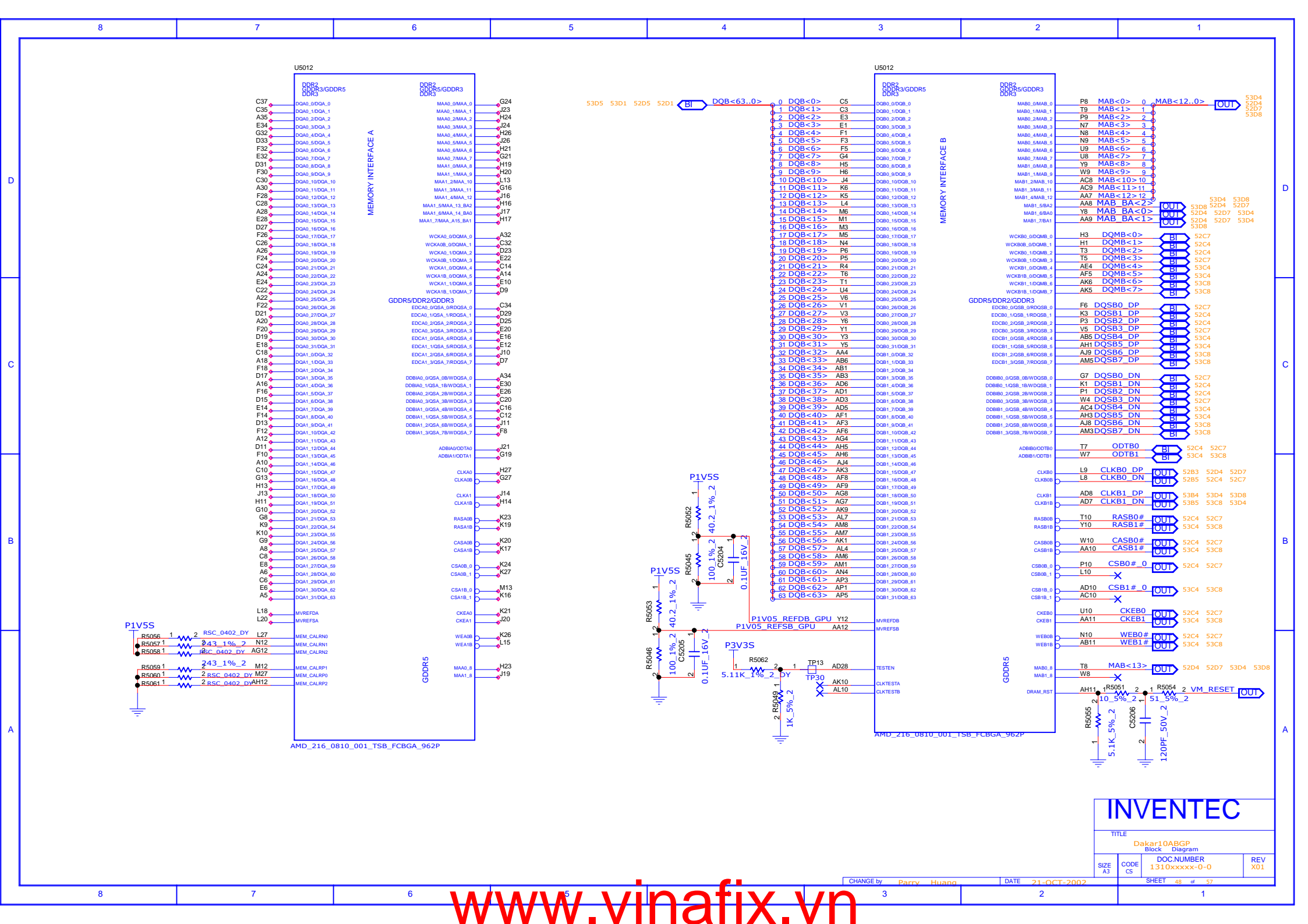
INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 44 of 57



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 45 of 57



INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 47 of 57

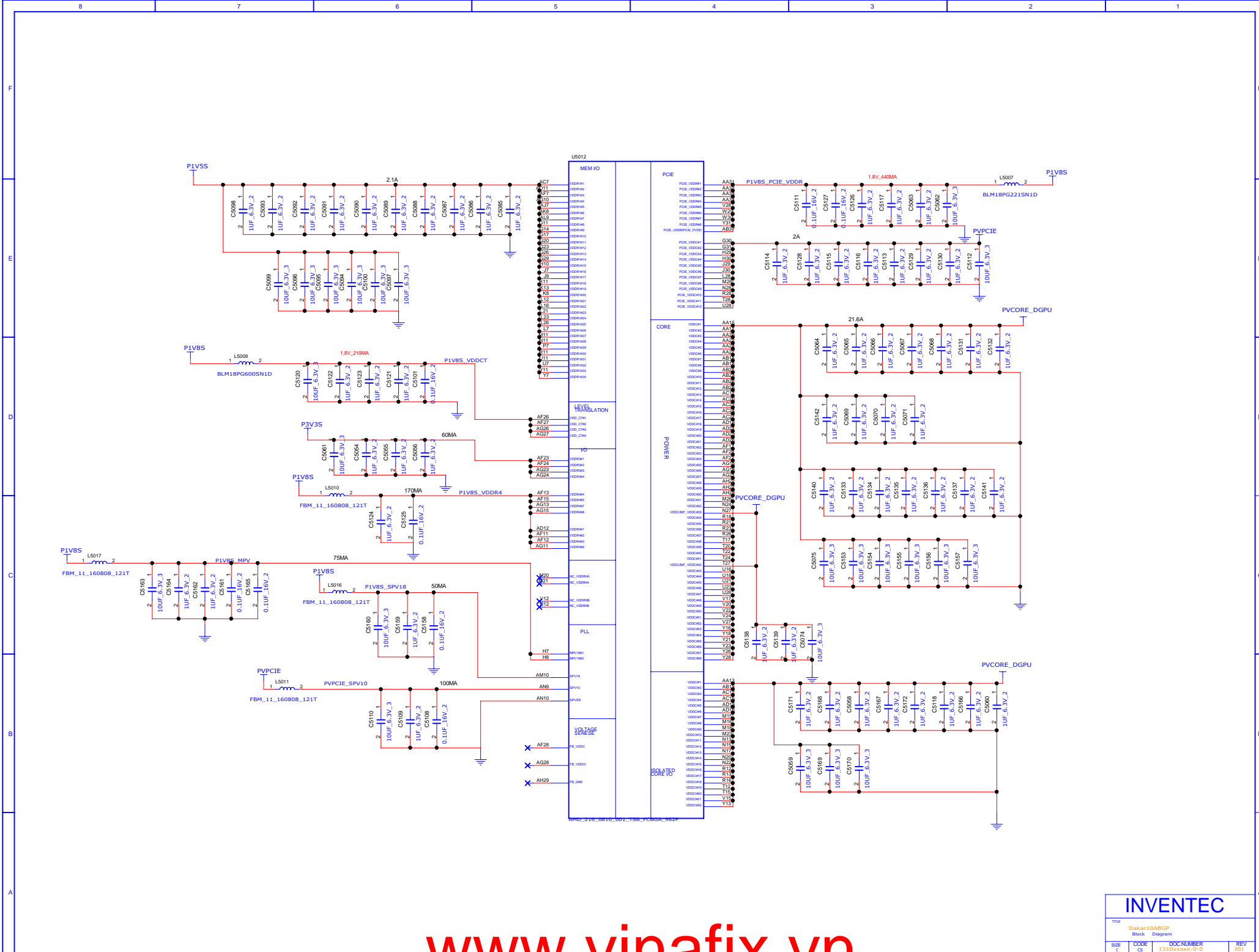


INVENTEC

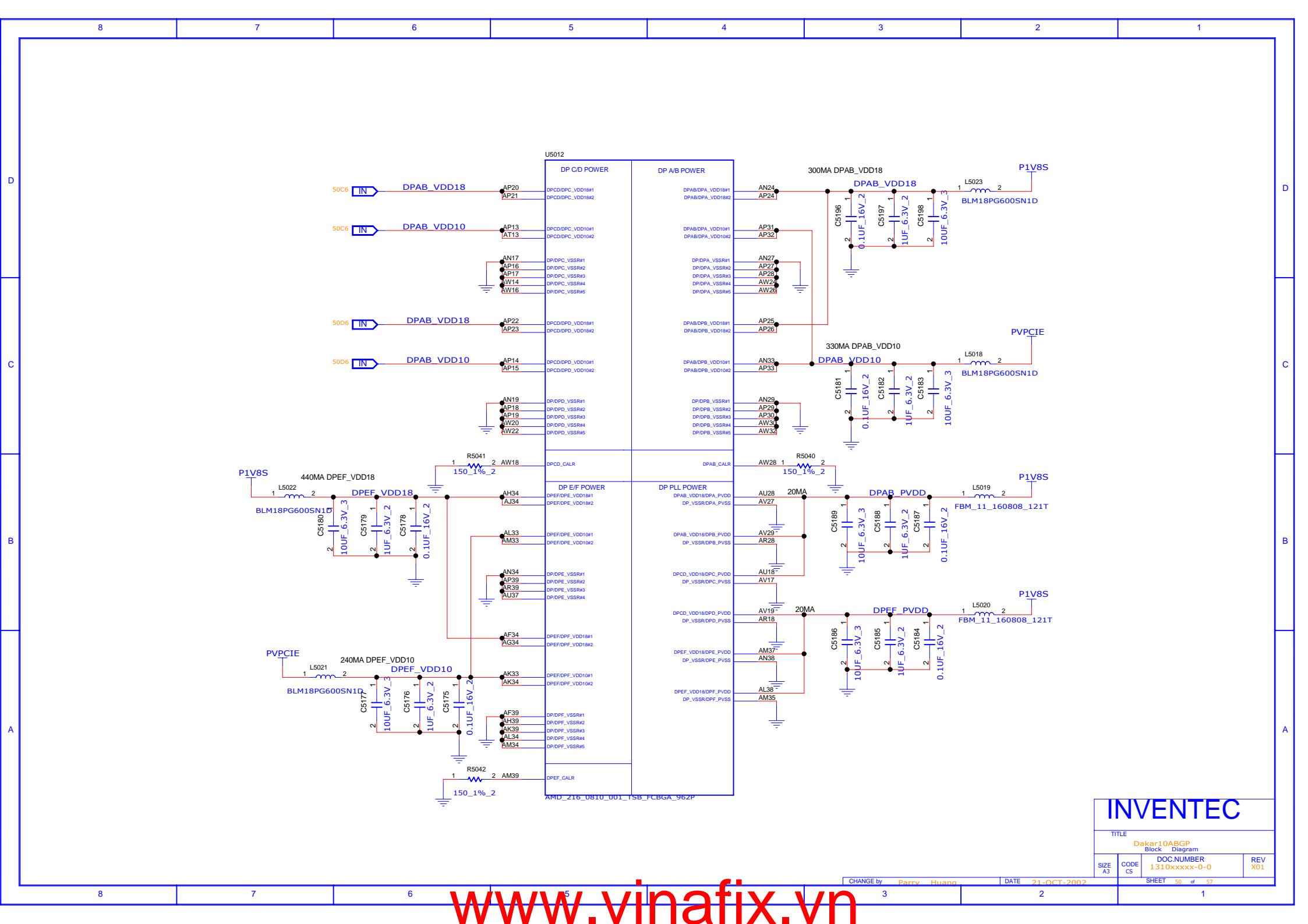
TITLE
Dakar10ABGP
Block Diagram

SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
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CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 48 of 57



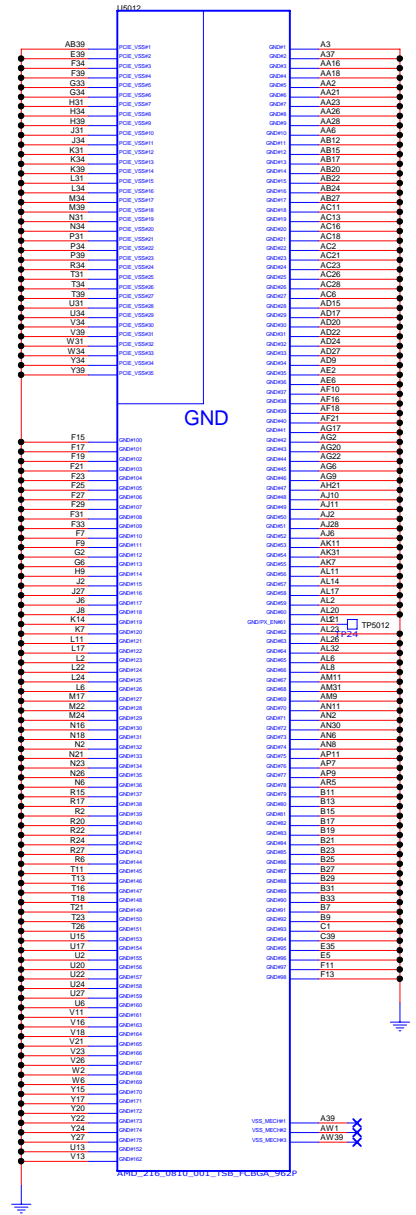
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Title: Dekar10ABGP			
Block Diagram			
SIZE: C	CODE: CS	DOC NUMBER: 13110XXXX-0-D	REV: X01
SHEET: 38		OF: 57	



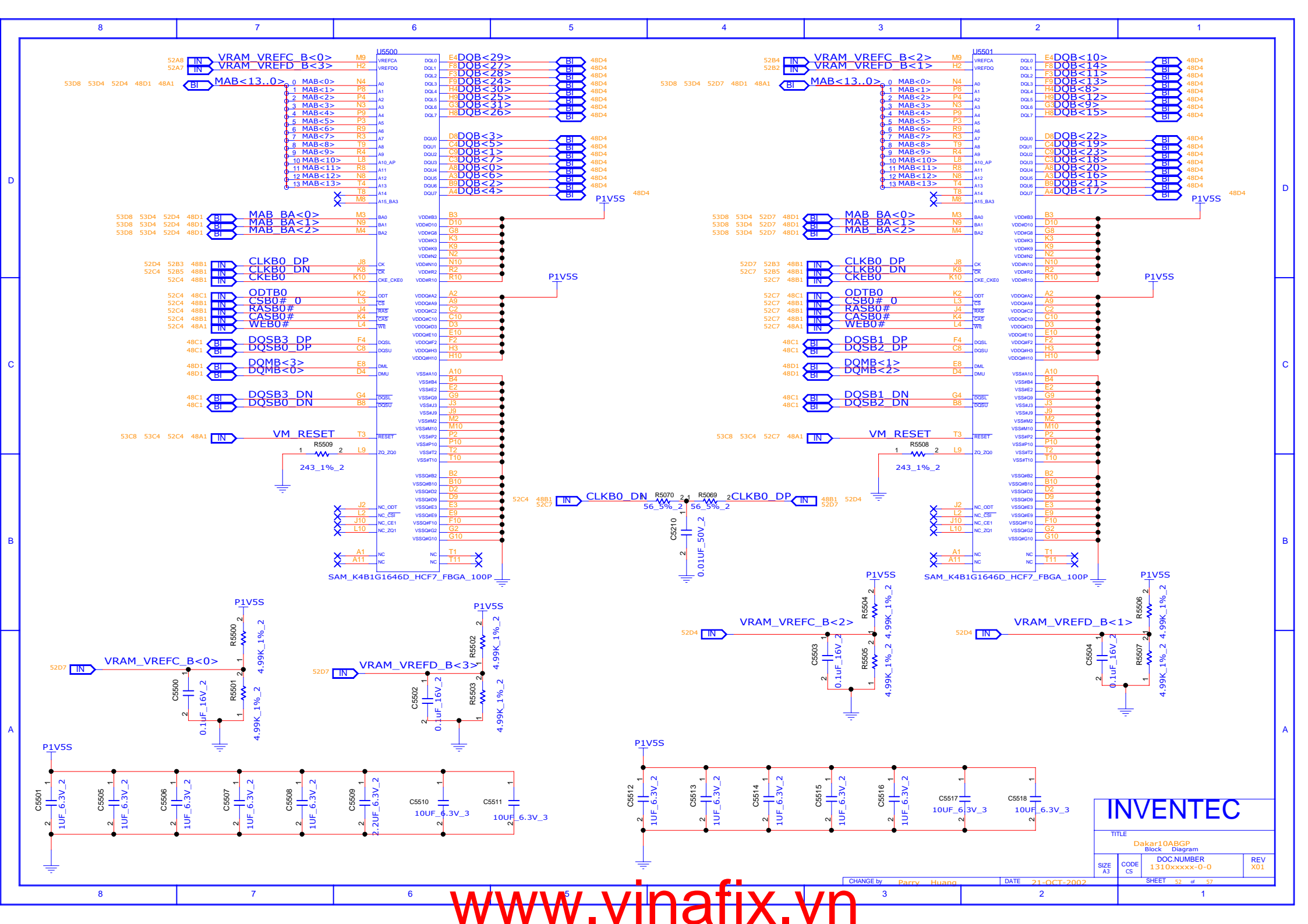
INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE A3		CODE CS	DOC NUMBER 1310xxxxx-0-0
		REV X01	

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 50 of 57

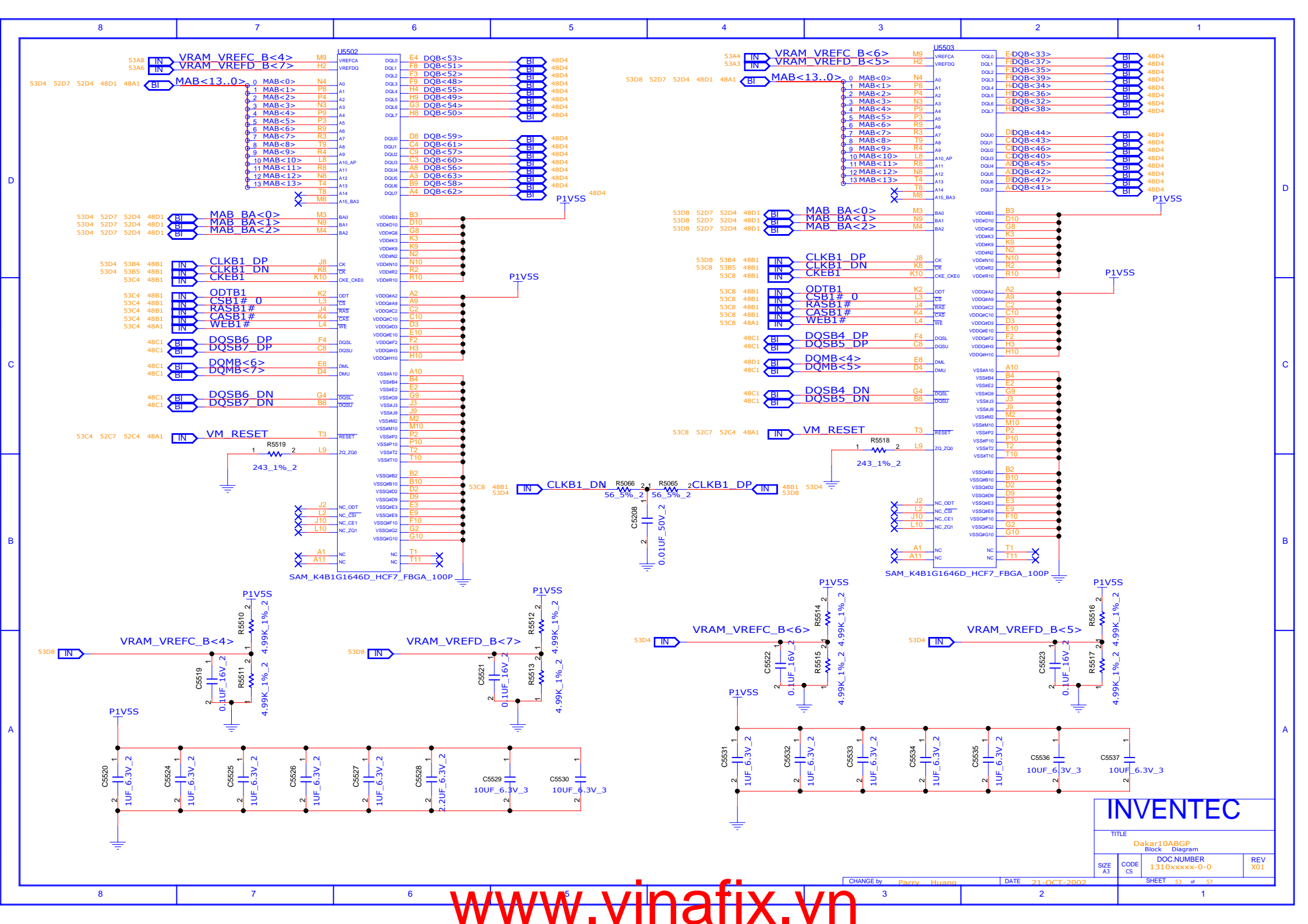


INVENTEC			
Title Dekar1.0ABGP			
Block Diagram			
SIZE	CODE	DOCNUMBER	REV
C	CS	13110XXXXX-0-0	201
SHEET		31	of 37



INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 52 of 57

www.vinafix.vn

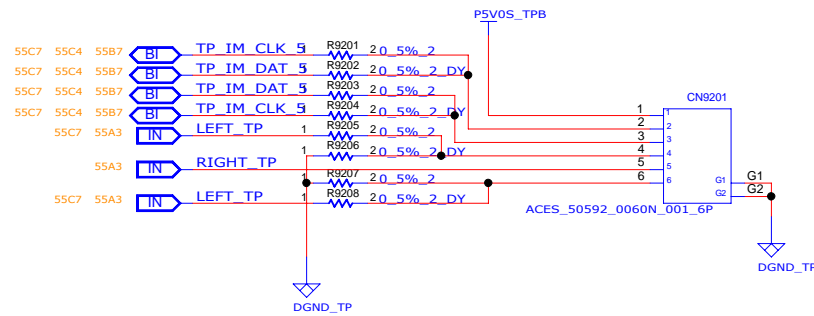


INVENTEC			
TITLE Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
CHANGE by Parry Huang		DATE 21-OCT-2002	SHEET 53 of 57

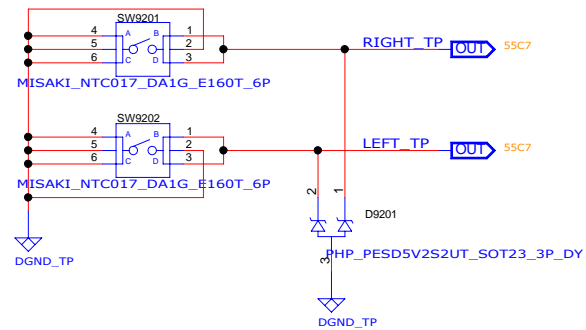
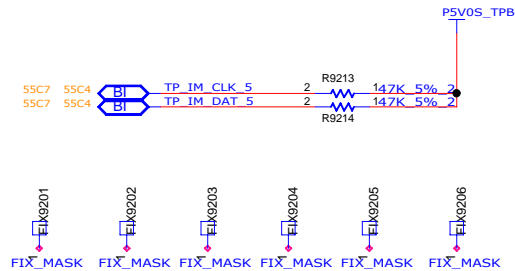
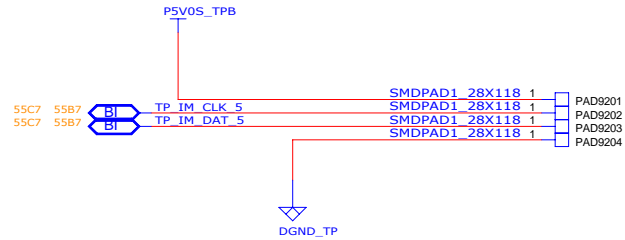
www.vinafix.vn

TPUCH PAD BOARD

TOUCHPAD TO MODULE CONN



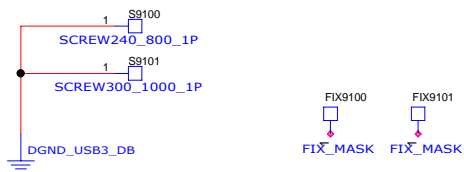
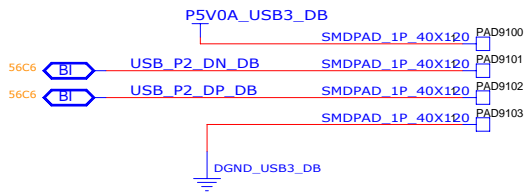
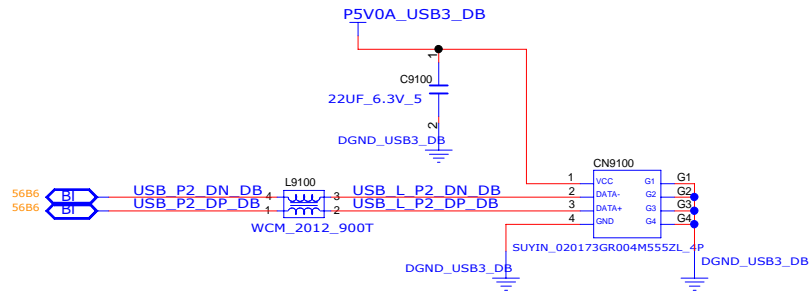
TOUCHPAD TO MB CONN



INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE		CODE	REV
A3	CS	1310xxxxx-0-0	X01

USB BOARD

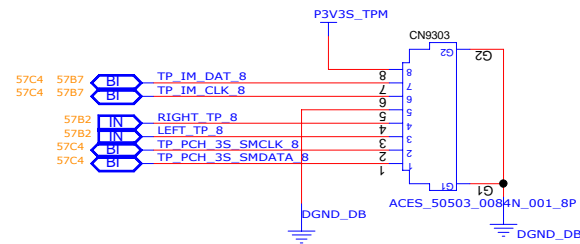


INVENTEC

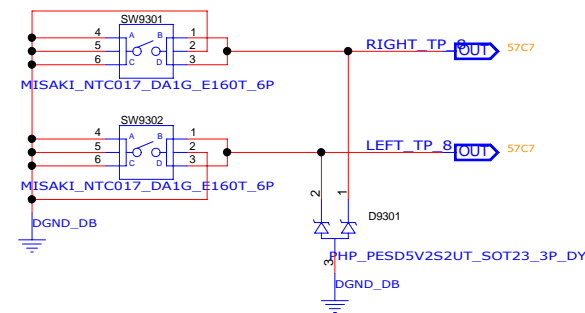
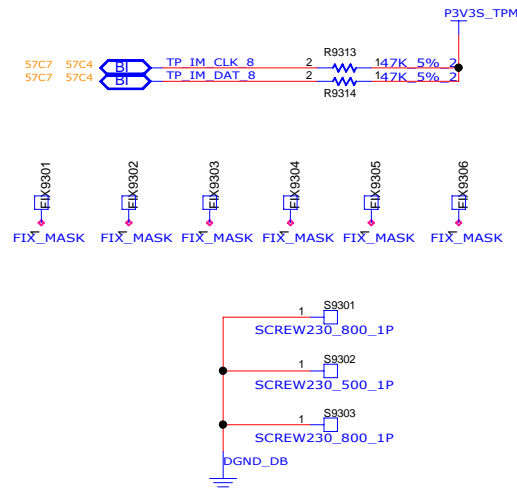
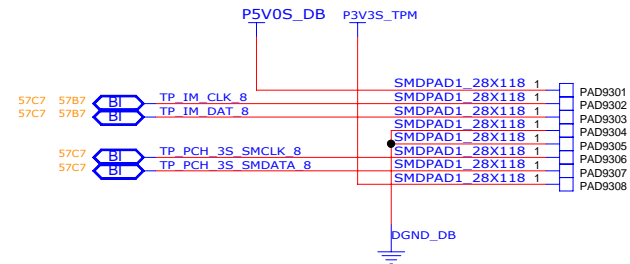
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

TPUCH PAD 8 PIN BOARD

TOUCHPAD TO MODULE CONN



TOUCHPAD TO MB CONN



INVENTEC

TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by	DATE	SHEET
Parry Huang	21-OCT-2002	57 of 57