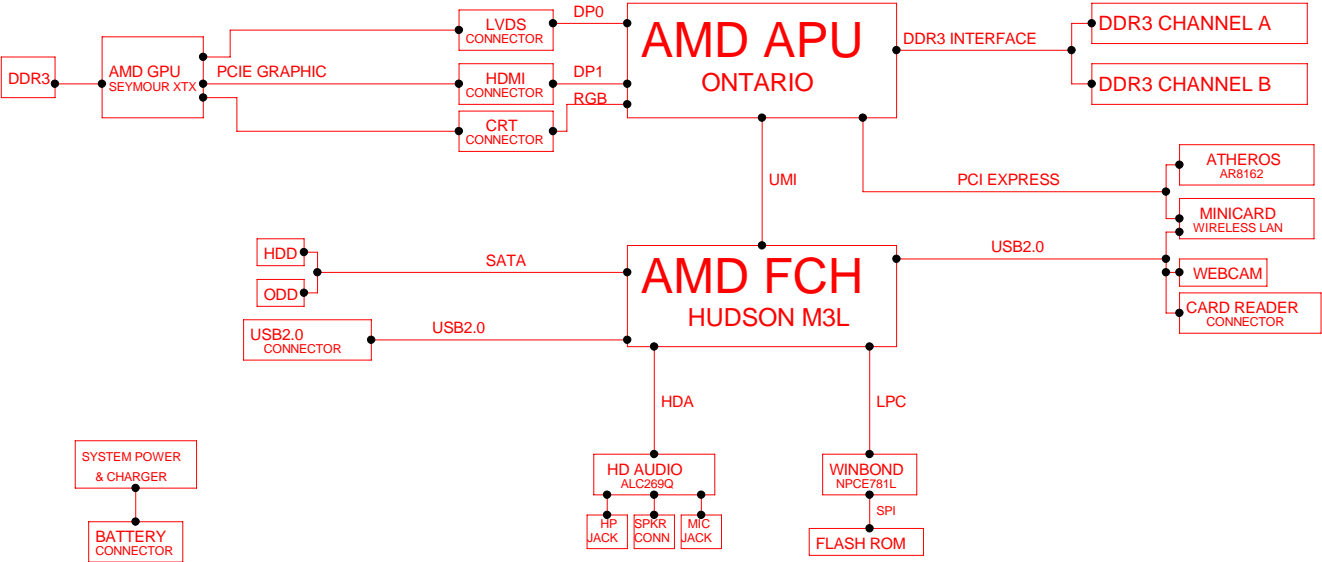


DAKAR10ABX

CS

2012.02.06

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

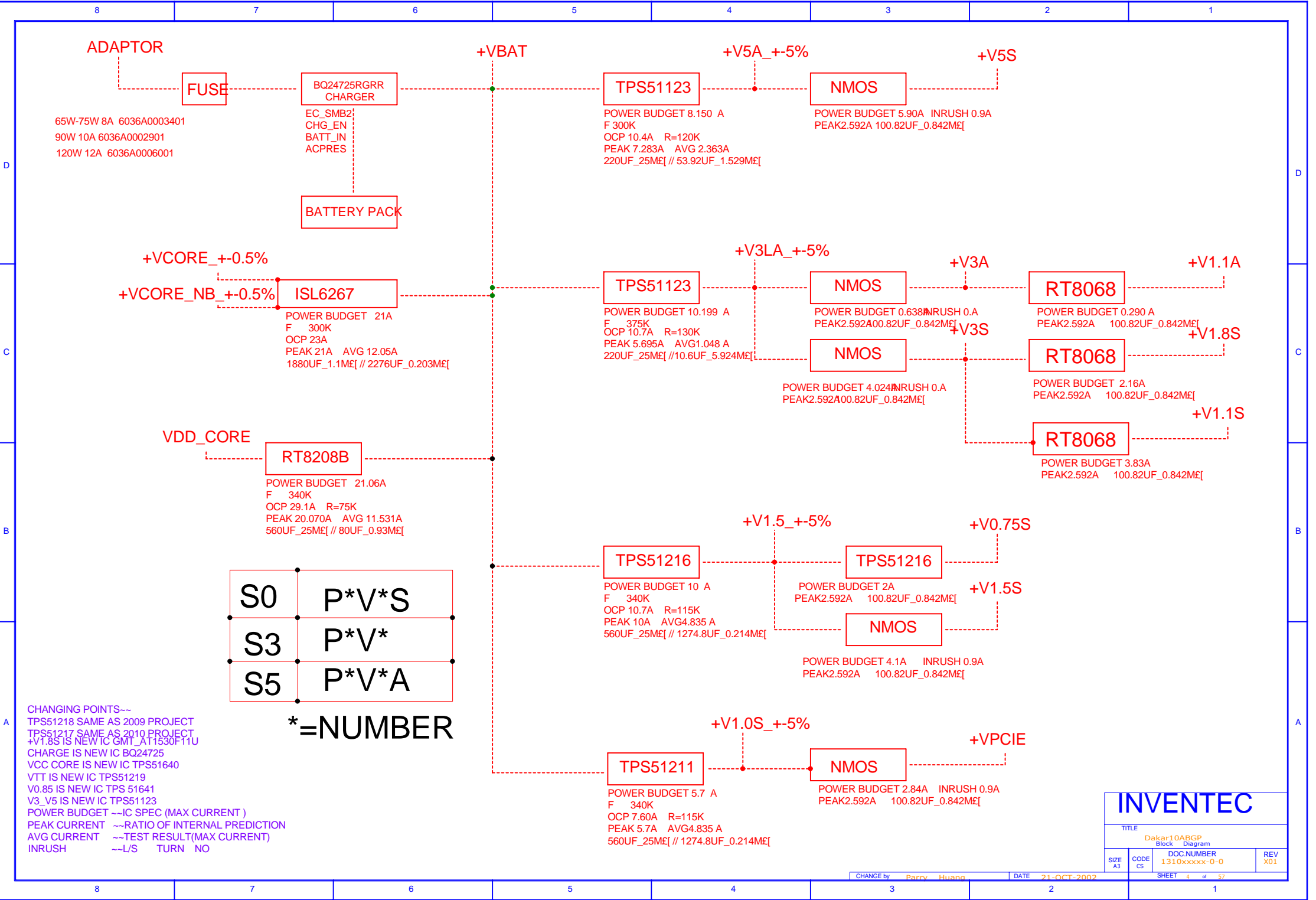


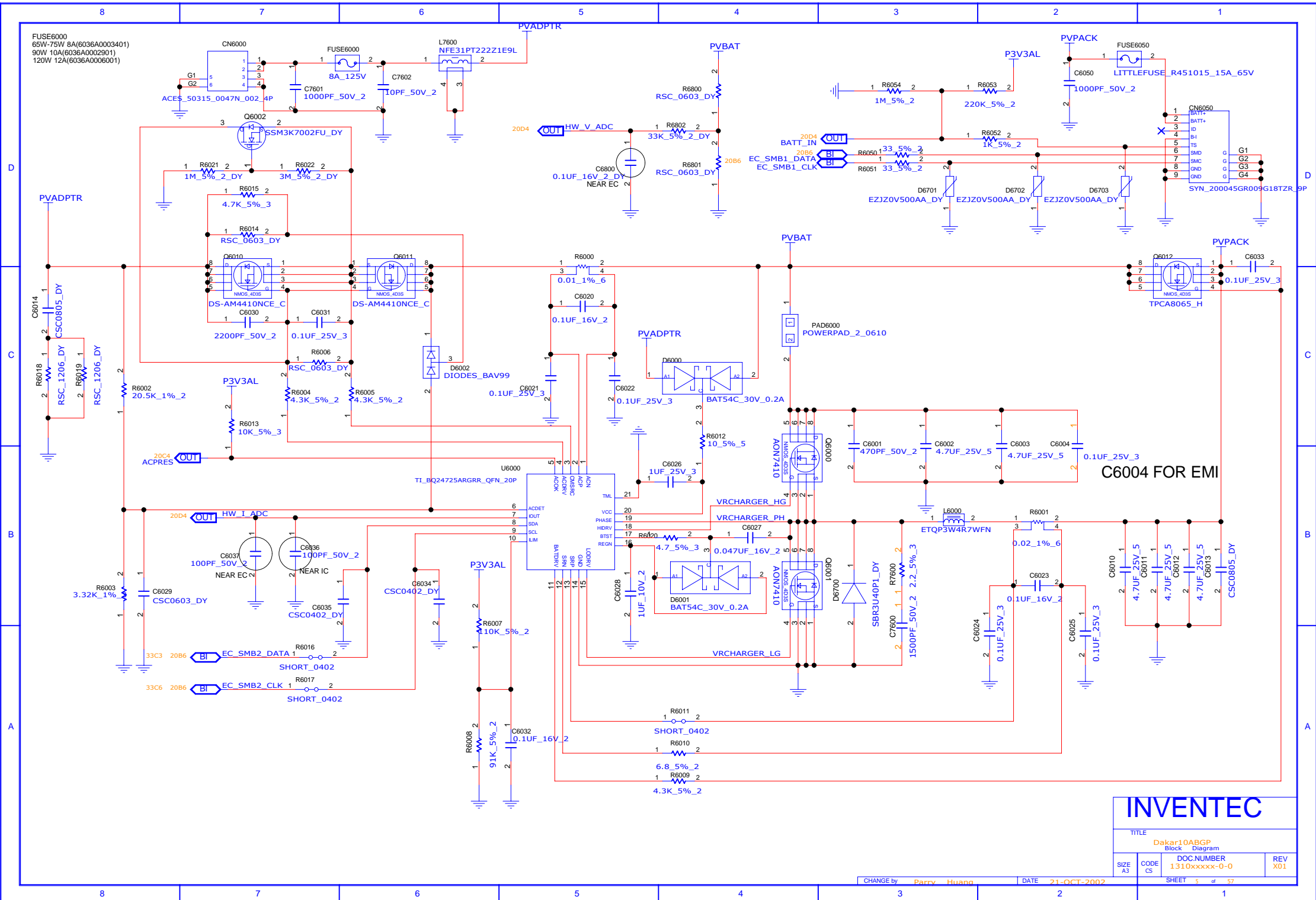
INVENTEC

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

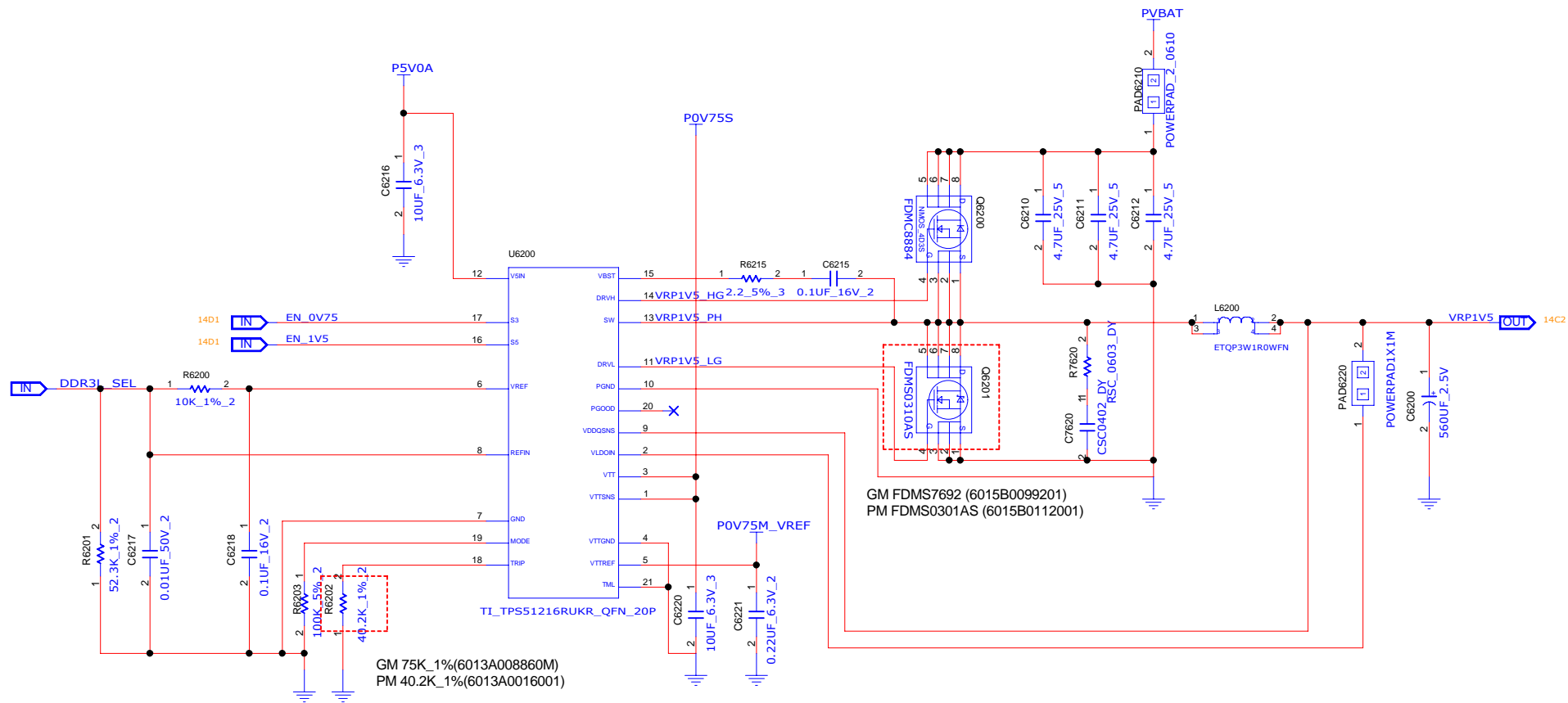
CHANGE by Parry Huang DATE 21-OCT-2002

SHEET 3 of 57



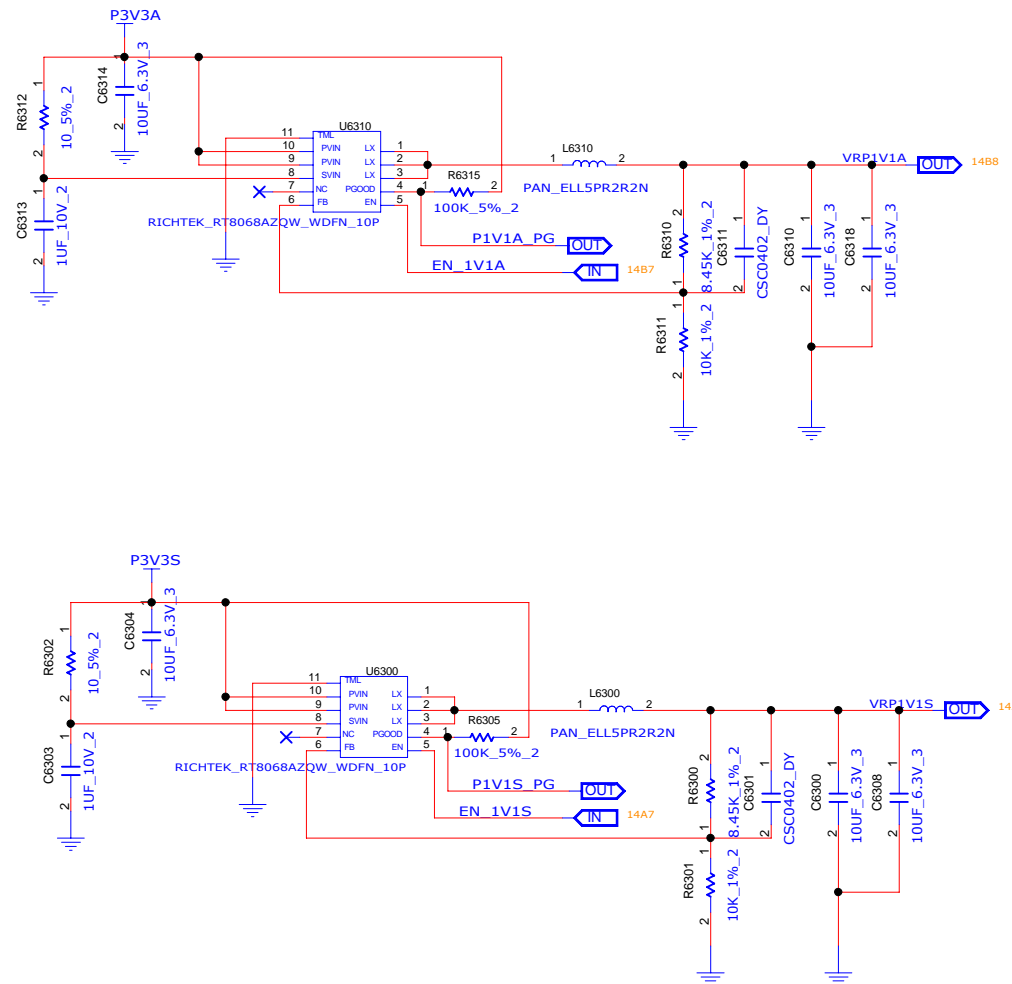


SHEET 6 of 5

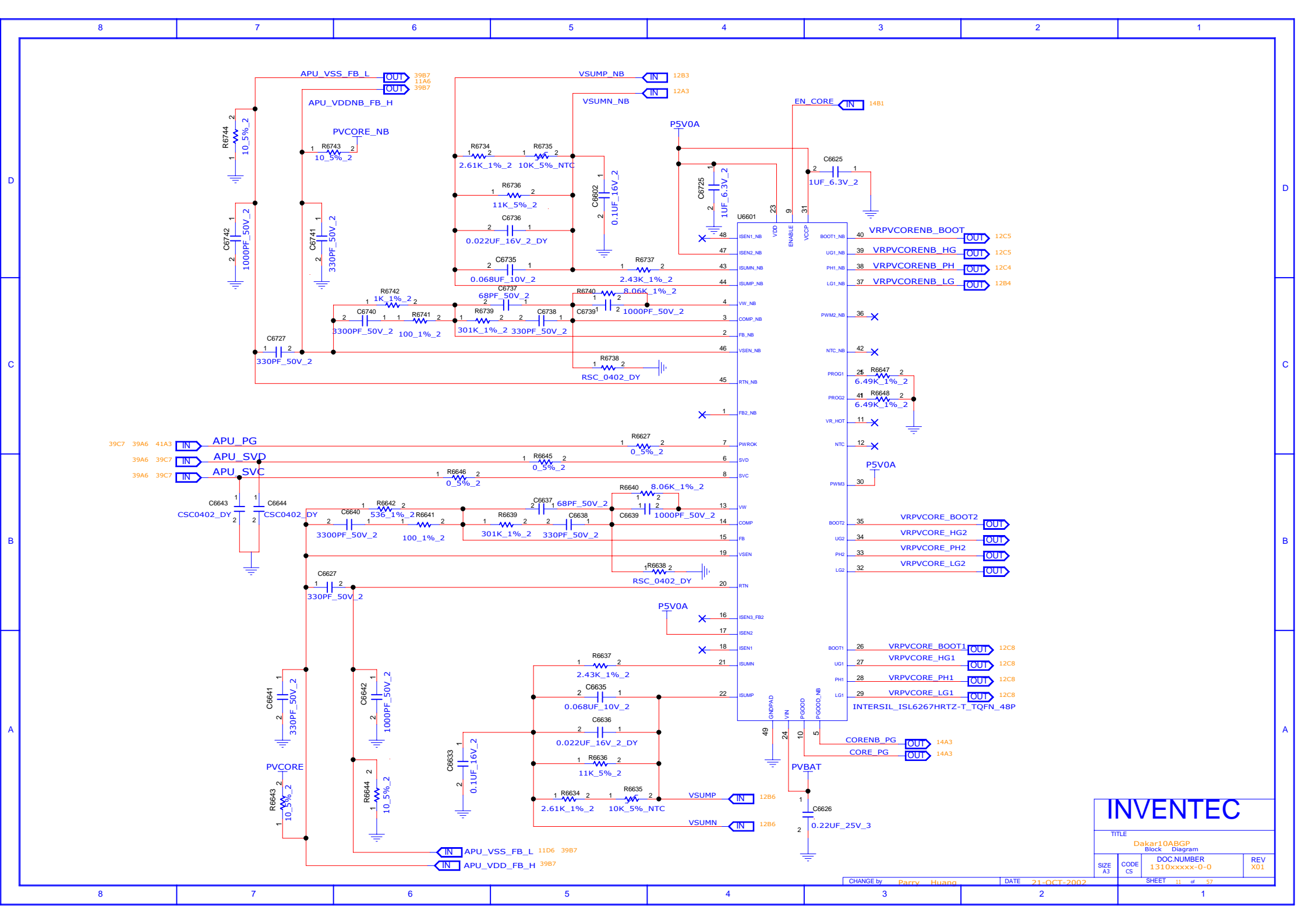


VOUT=REFIN*1.8*(R6201/(R6200+R6201))
MODE=100KOHM:TRACKING DISCHARGE

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

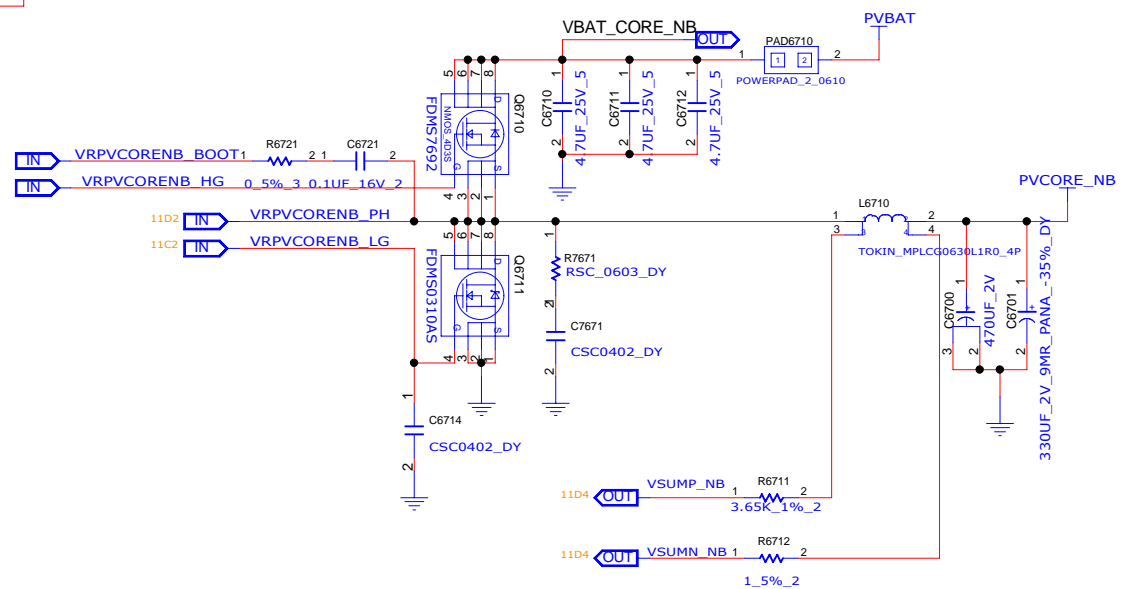
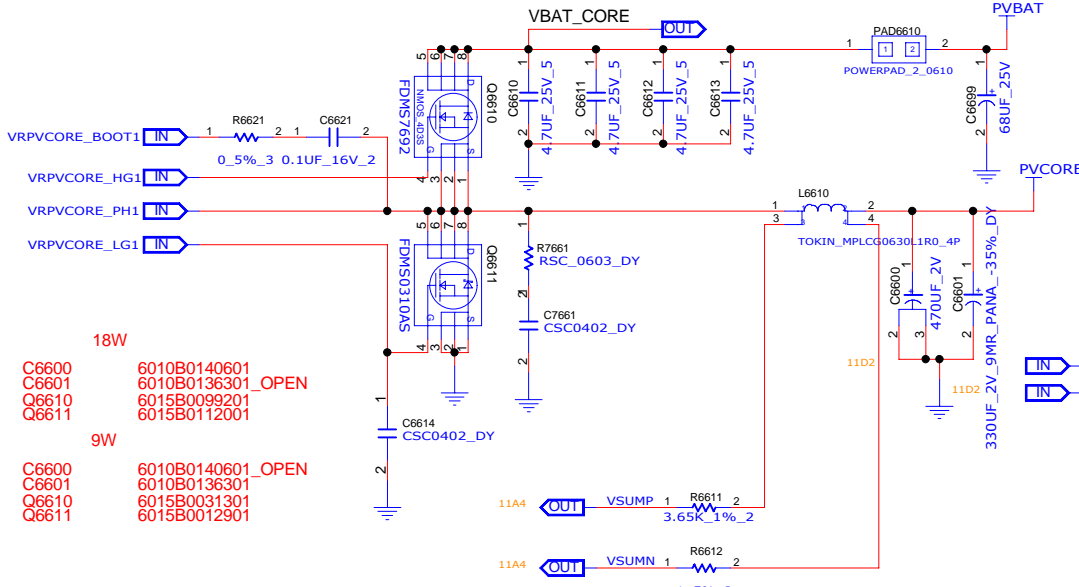
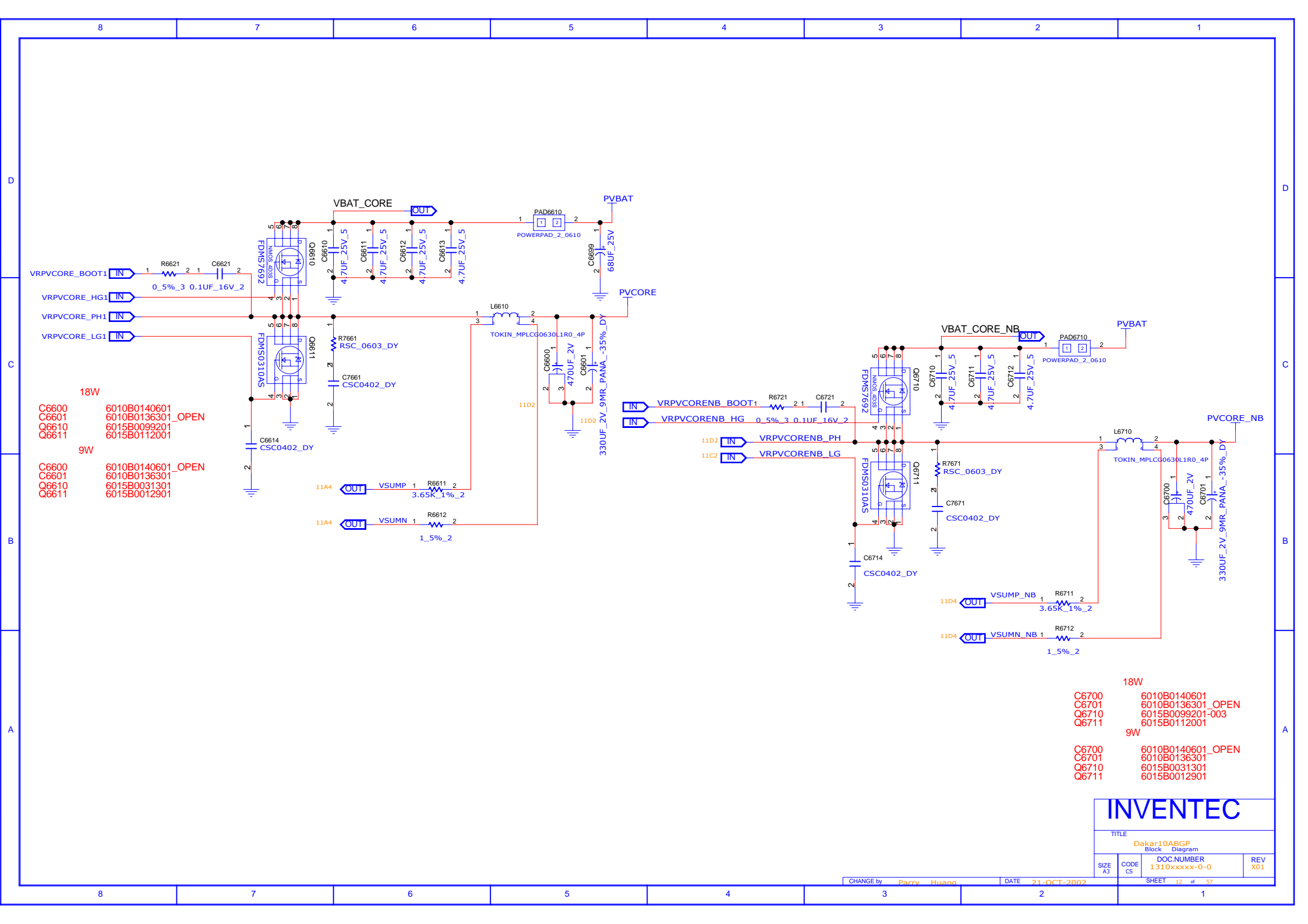


INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

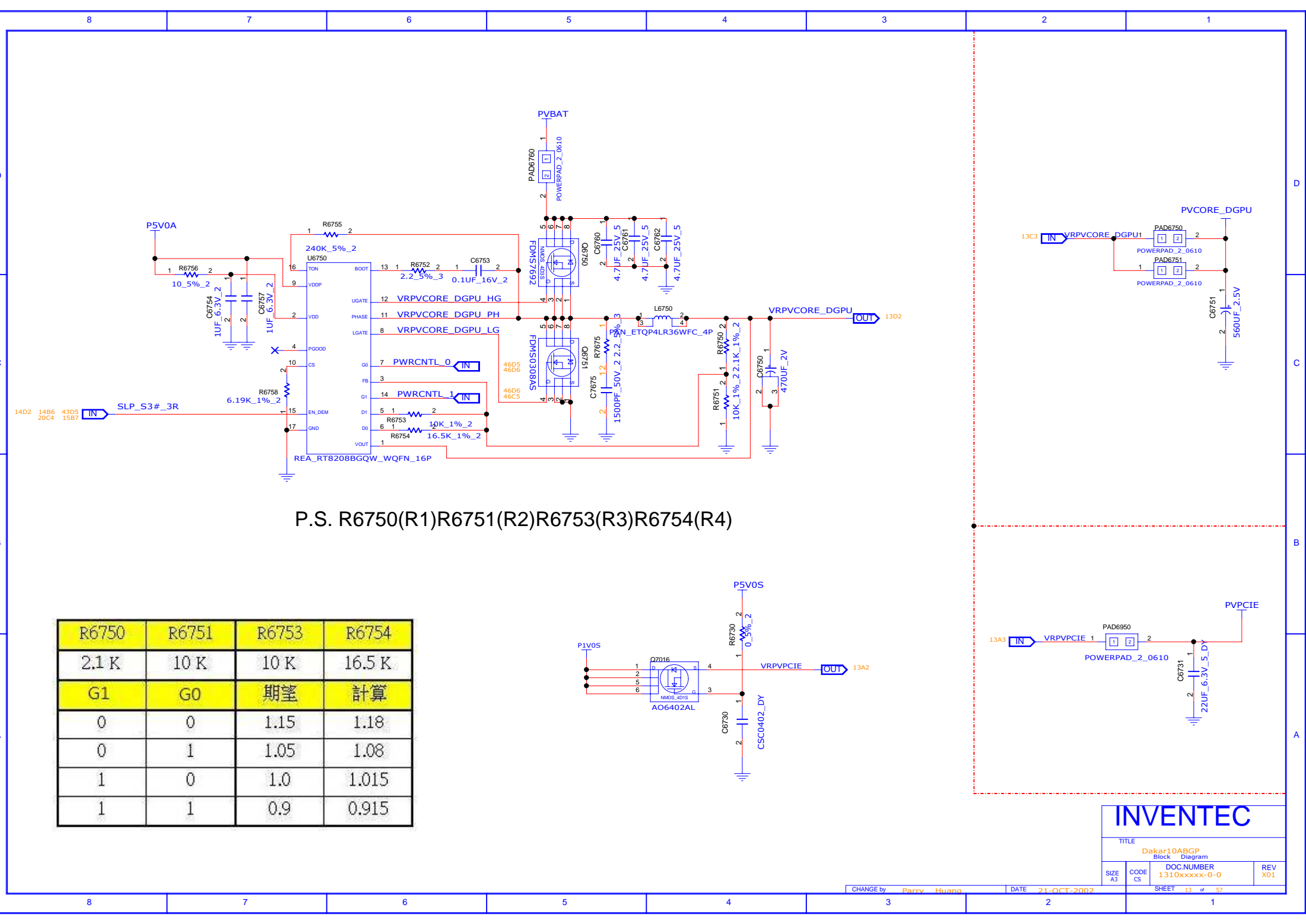


INVENTEC

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

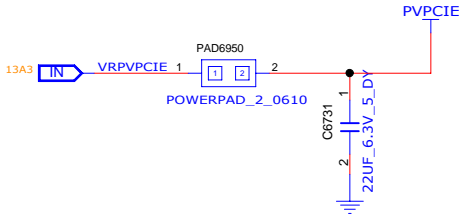
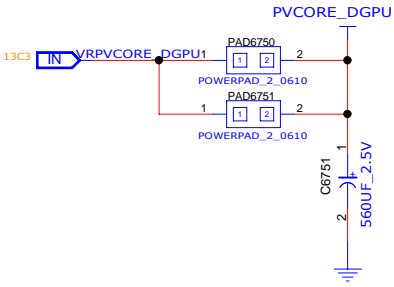
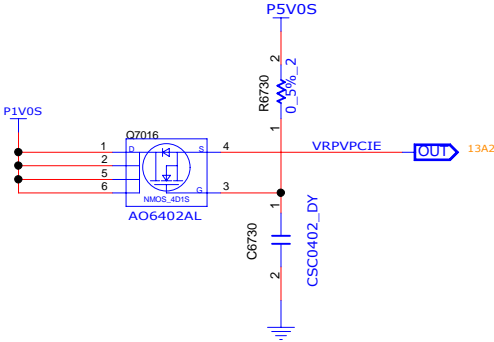


INVENTEC			
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01



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

TITLE

Dakar10ABGP Block Diagram

DOC NUMBER

1310xxxxx-0-0

REV

X01

SIZE

A3

CODE

CS

CHANGE by

Parry Huang

DATE

21-OCT-2002

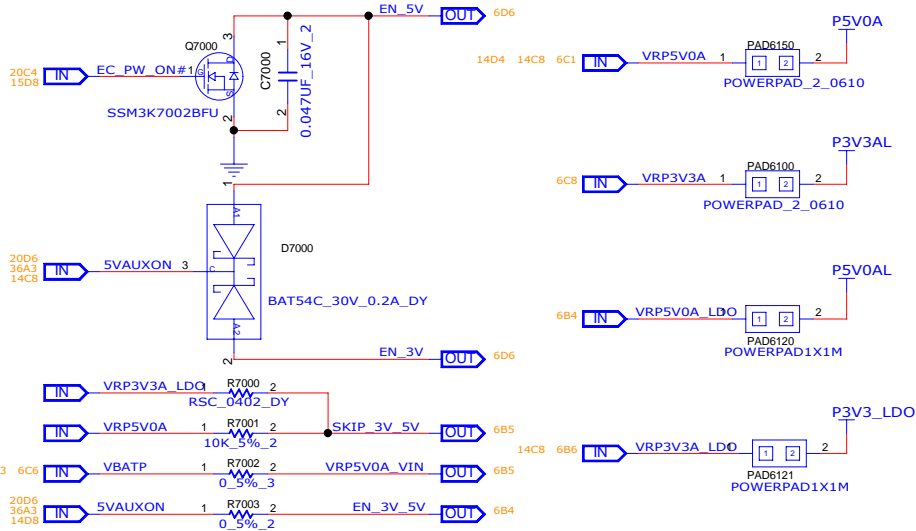
SHEET

13

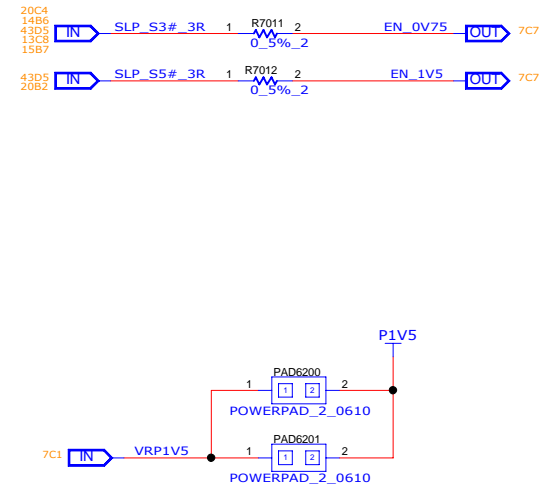
of

57

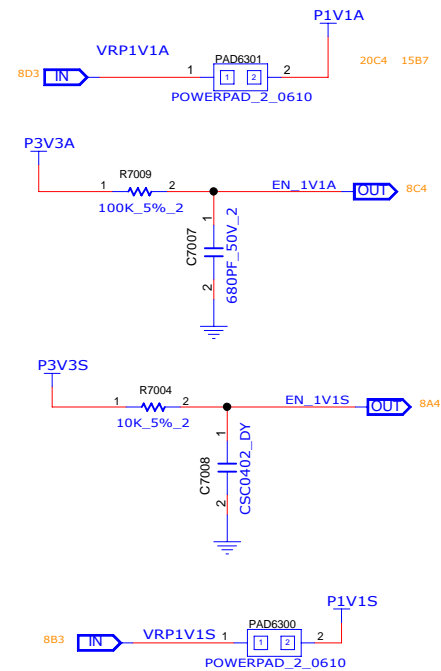
3V & 5V



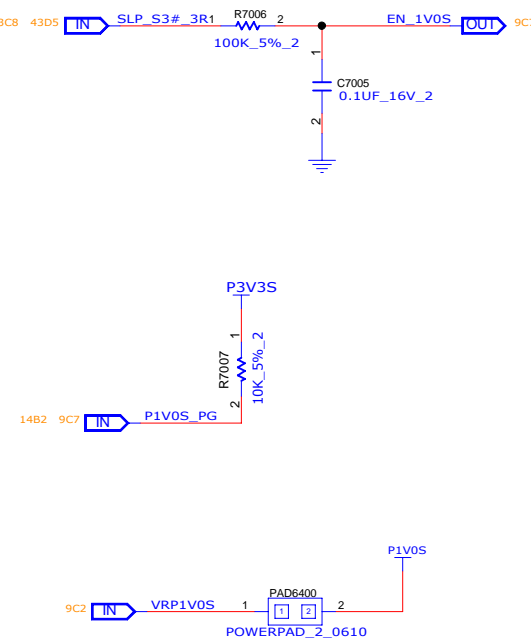
DDR_P1V5



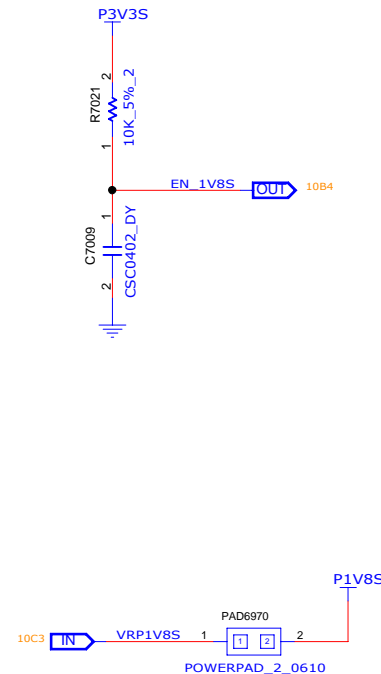
P1V1S_P1V1A



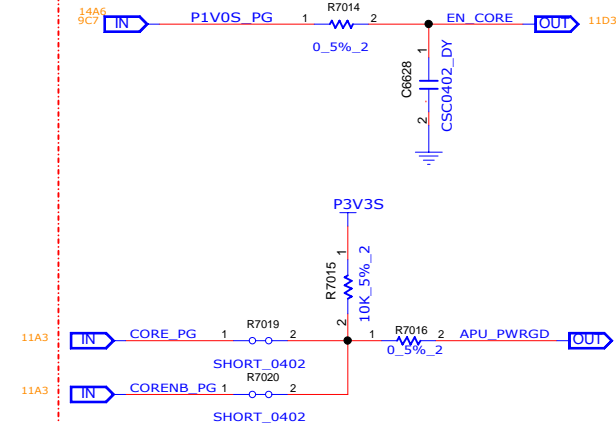
P1V0S



P1V8S



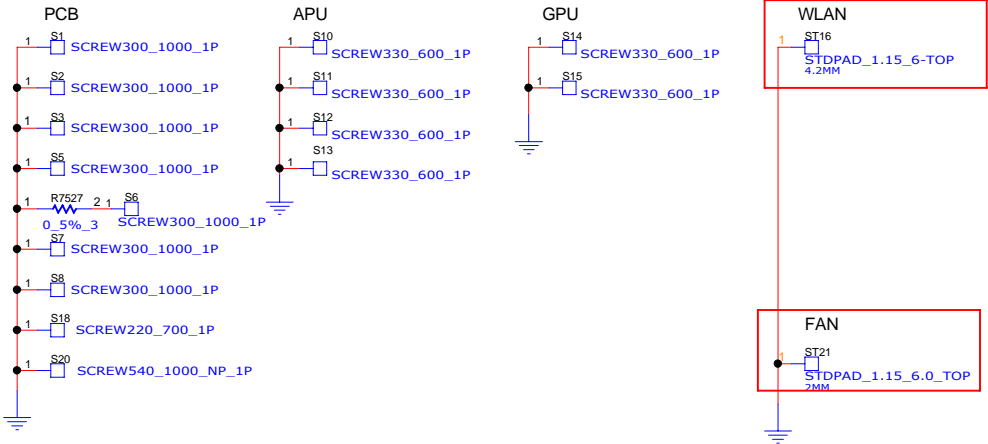
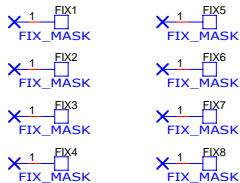
PVCORE



INVENTEC

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

REFERENCE 0~49(PCB SCREW)

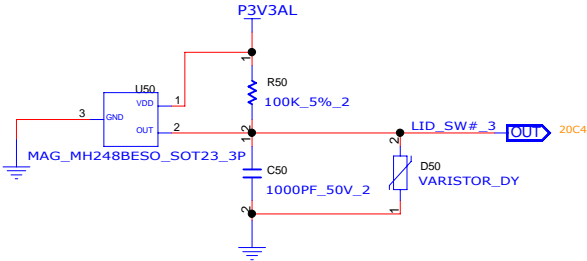


INVENTEC

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

REFERENCE 50-99(HALL SENSOR)

HALL SENSOR



INVENTEC

TITLE
Dakar10ABGP
Block Diagram

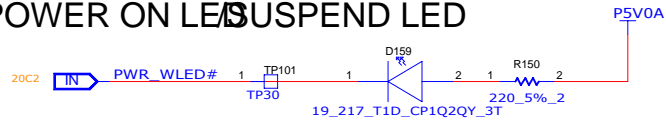
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
------------	------------	-----------------------------	------------

CHANGE by Parry Huang DATE 21-OCT-2002

SHEET 17 of 57

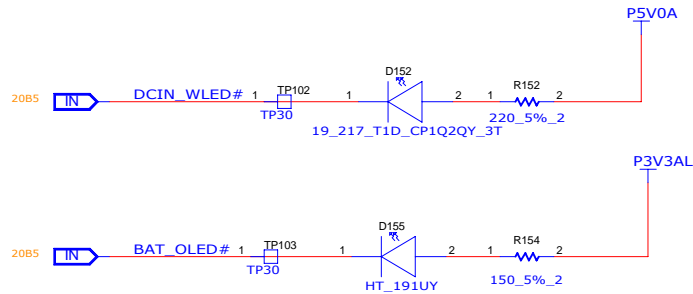
REFERENCE 100~199(LED)

POWER ON LED/SUSPEND LED

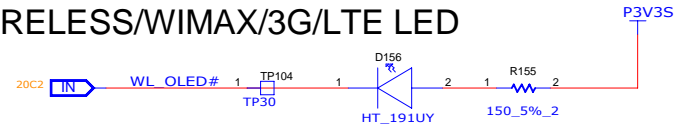


AC IN/BATTERY FULL LED

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



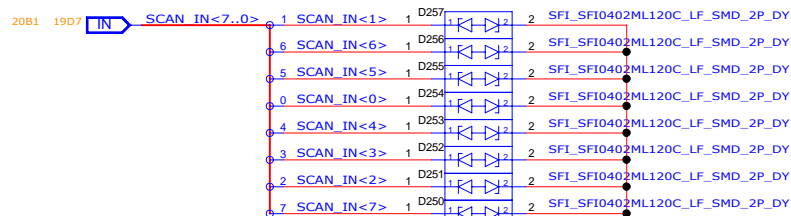
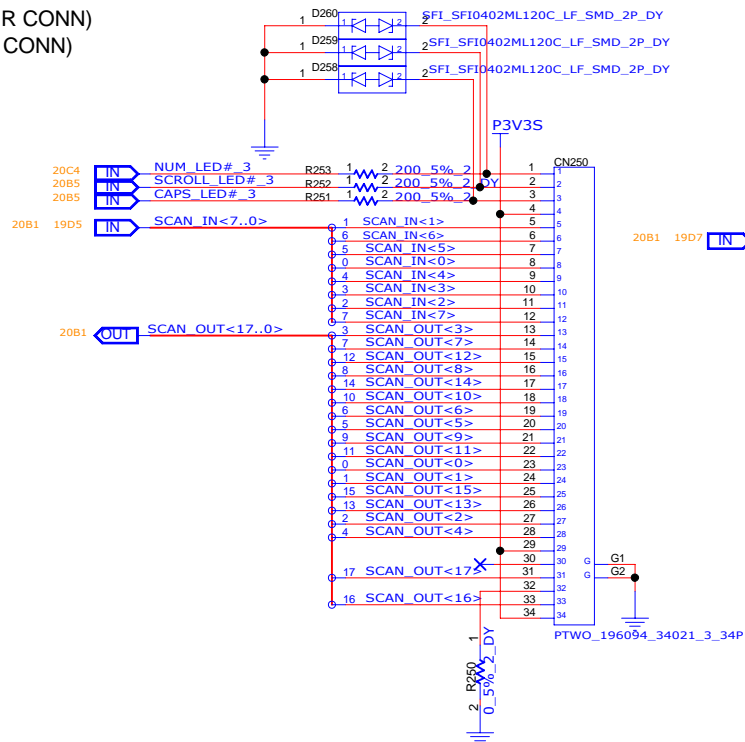
WIRELESS/WIMAX/3G/LTE LED



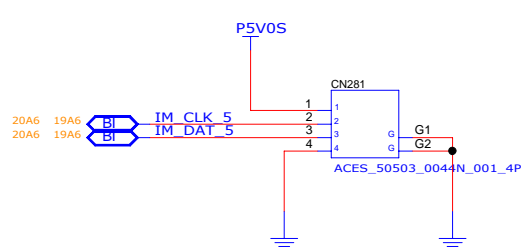
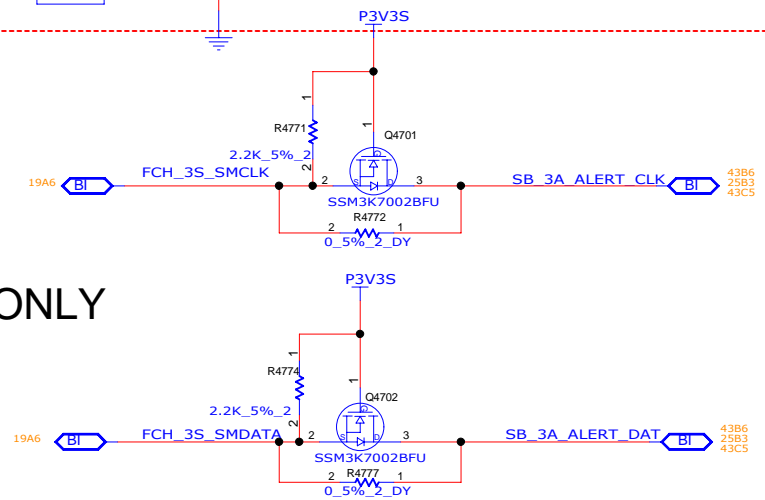
INVENTEC

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

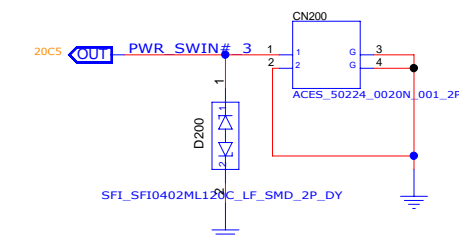
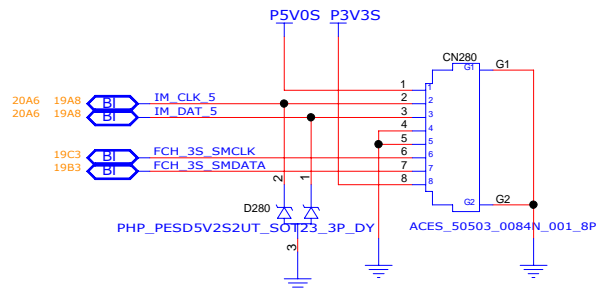
REFERENCE 200~249(POWER CONN)
REFERENCE 250~299(KB/TP CONN)



WIN8 ONLY



TOUCHPAD CONN

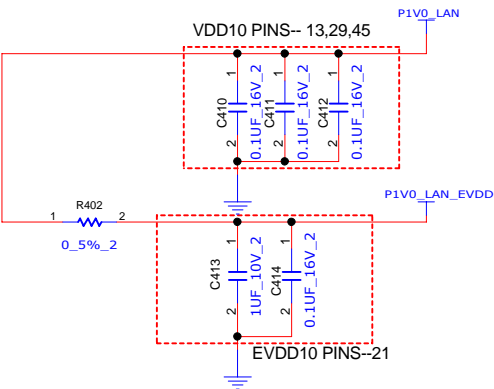


POWER CONN

INVENTEC

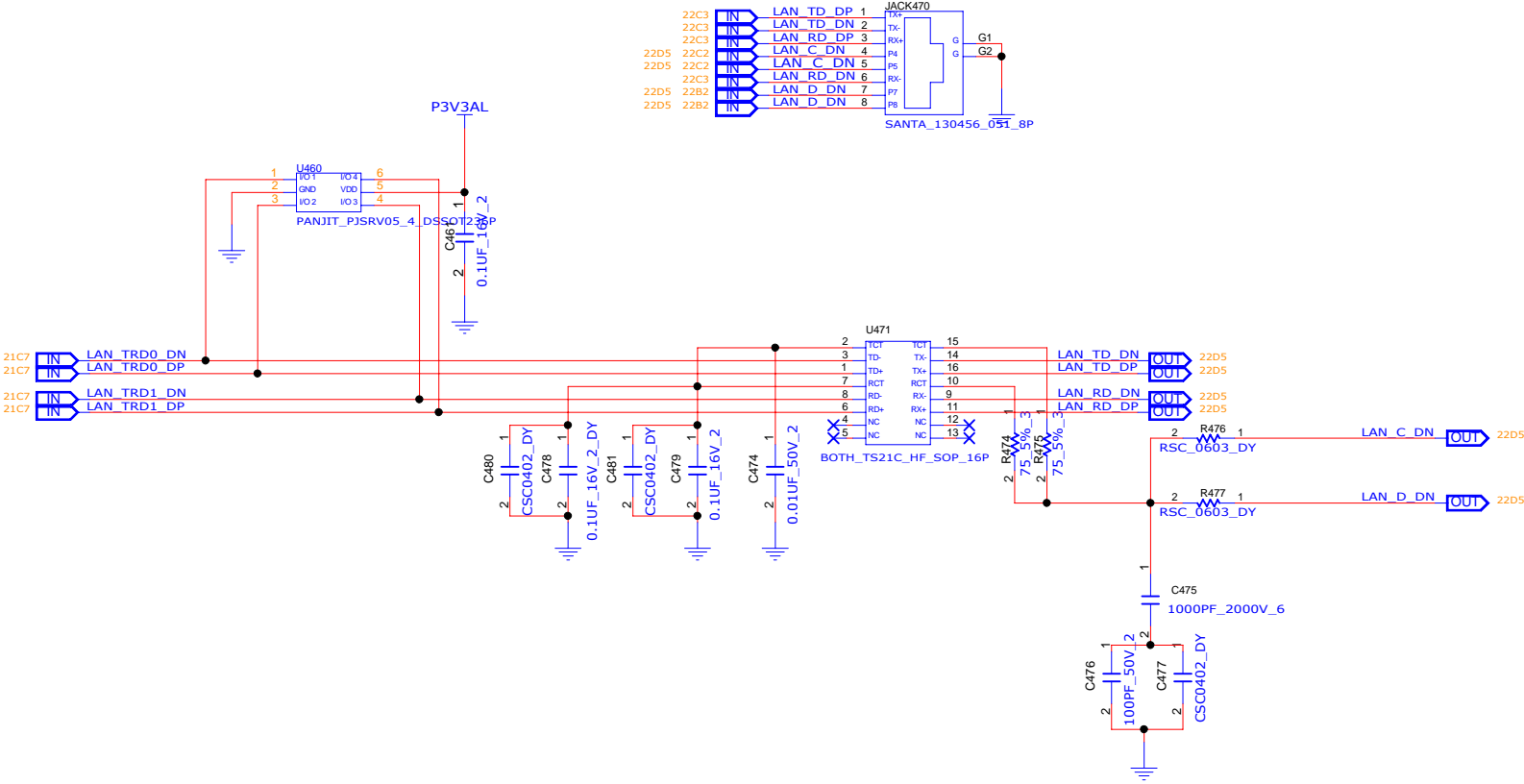
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01





CHANGE by	Parry Huang	DATE	21-OCT-2002
-----------	-------------	------	-------------

REFERENCE 470-499(LAN)



INVENTEC

TITLE

Dakar10ABGP
Block Diagram

SIZE
A3

CODE
CS

DOC NUMBER
1310xxxxx-0-0

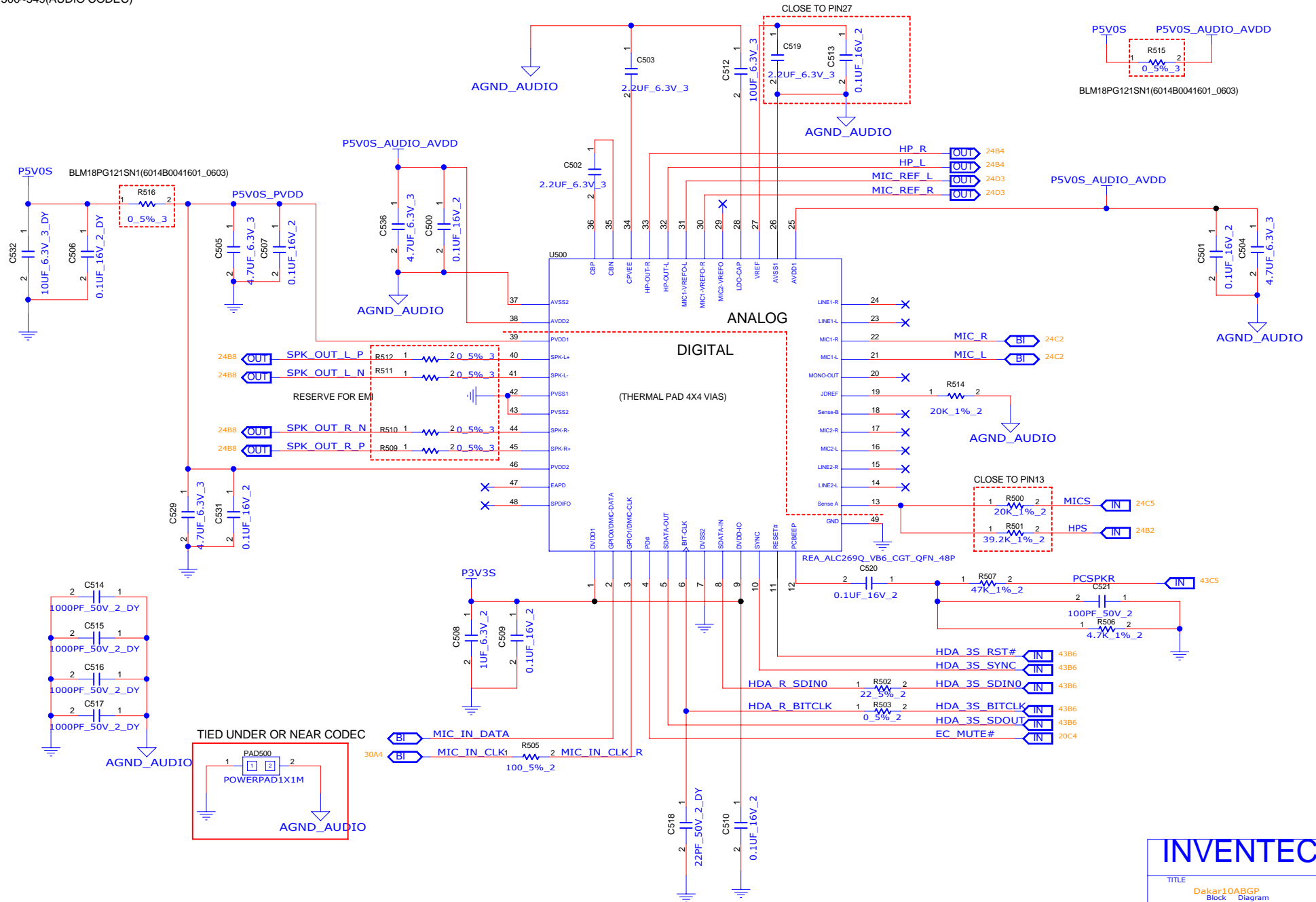
REV
X01

CHANGE by
Parry Huang

DATE
21-OCT-2002

SHEET
22 of 57

REFERENCE 500~549(AUDIO CODEC)



INVENTEC

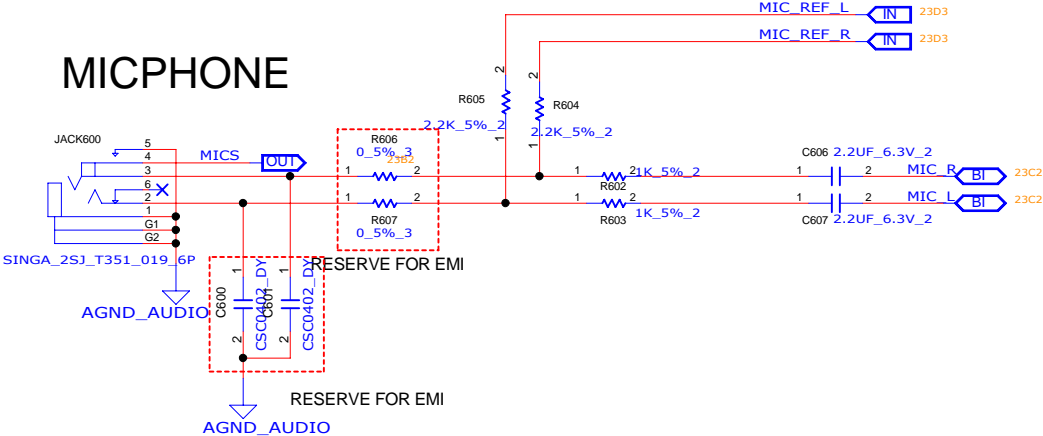
TITLE			
Dakar10ABGP Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01

CHANGE by	Parry Huang	DATE	21-OCT-2002
-----------	-------------	------	-------------

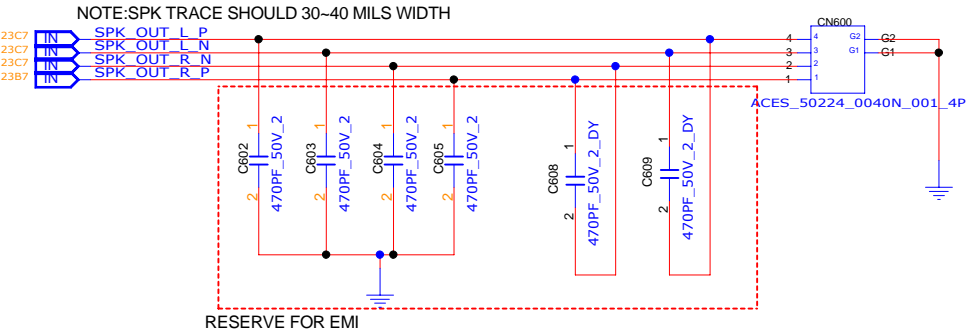
SHEET 23 of 57

AUDIO JACKS

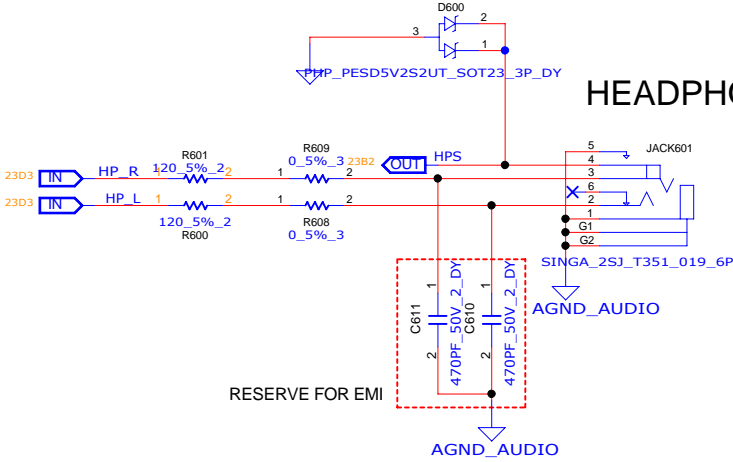
MICPHONE



INTERNAL SPEAKERS



HEADPHONE



INVENTEC

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

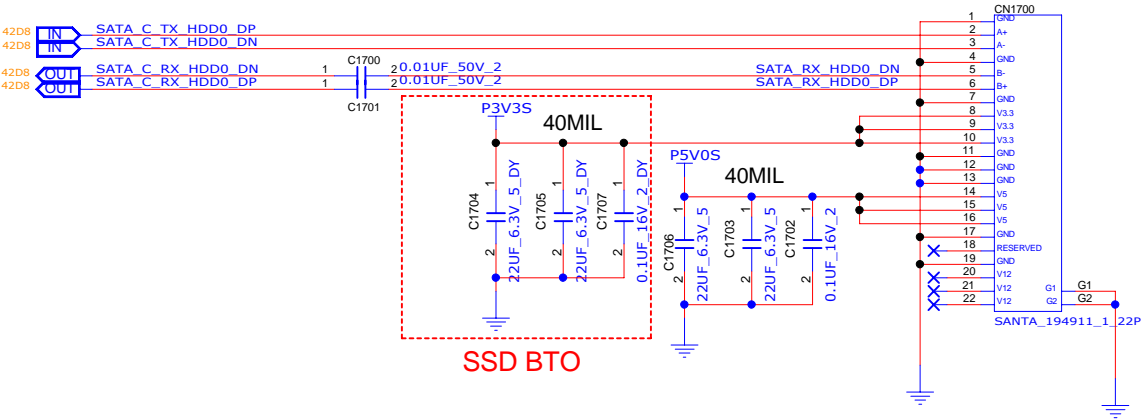
A



SHEET 26 of 57

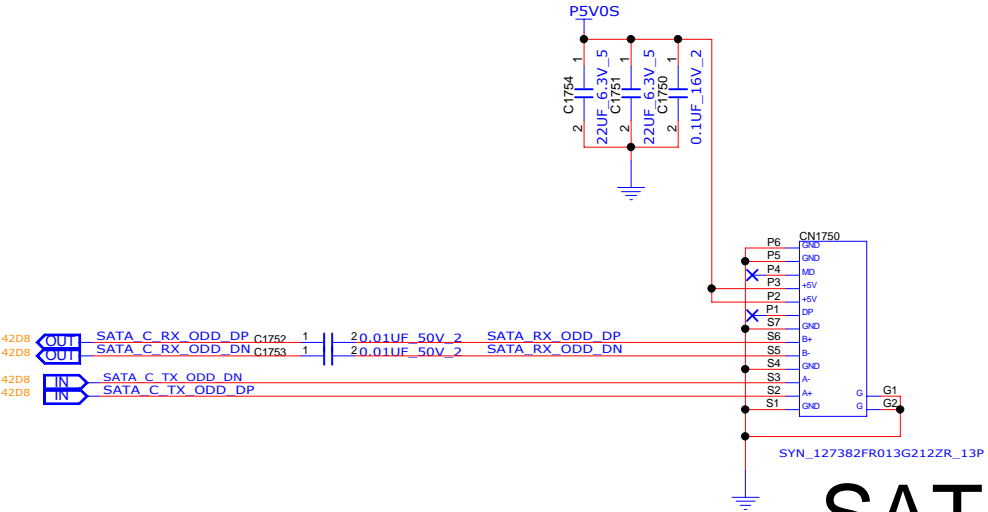
REFERENCE 1700~1749(HDD)
REFERENCE 1750~1799(ODD)

SATA HDD



SSD BTO

SATA ODD



INVENTEC

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

USB 3.0 CONNECTOR

SLEEP&CHARGE

SUPPORT SLEEP&CHARGE: R2448 STUFF
NO SUPPORT SLEEP&CHARGE: R2449 STUFF

SUPPORT SLEEP&CHARGE: R2441 R2442 OFF

PLACE CLOSE TO CONNECTOR

USB3.0 R2450,R2451,R2452,R2453 ON
C2004, C2005 ON

CURRENT LIMIT 2.5A

USB3.0 R2454,R2455,R2456,R2457 ON
C2445, C2456 ON

PLACE CLOSE TO CONNECTOR

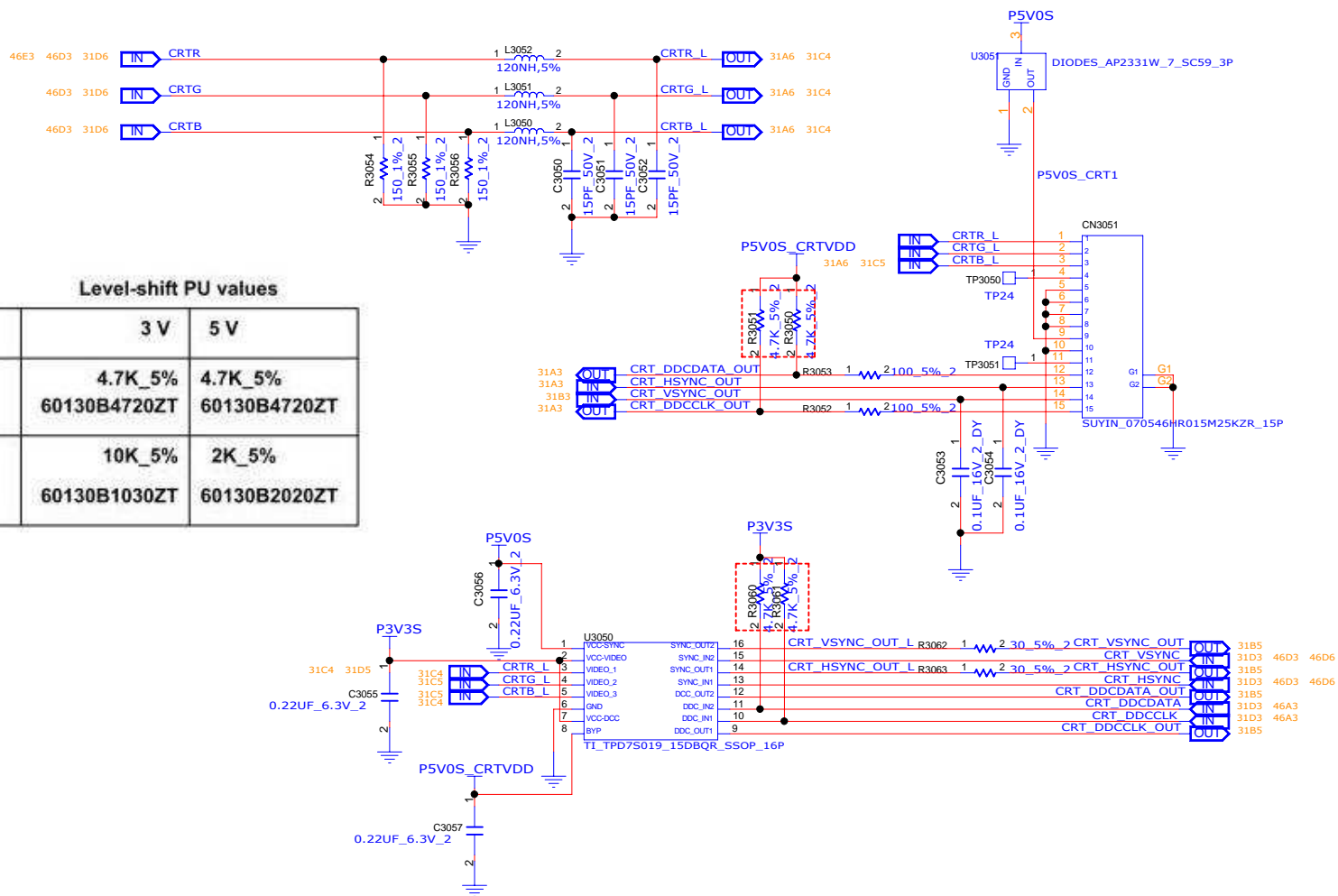
CTL1	CTL2	CTL3	Mode
0	0	0	OUT discharge, Power switch OFF
0	X	1	Dedicated Charging Port, Auto-detect
X	1	0	Standard Downstream Port, USB 2.0 Mode
1	0	0	Dedicated Charging Port, BC Specification 1.1 Only
1	0	1	Dedicated Charging Port, Apple Only
1	1	1	Charging Downstream Port, BC Specification 1.1

Table 2 – TPS2540 Control Truth Table

INVENTEC

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

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

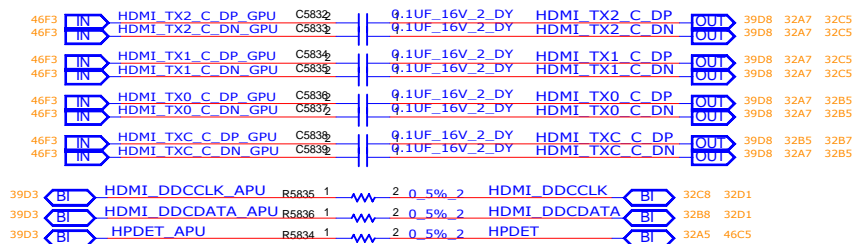
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0
------------	------------	-----------------------------

CHANGE by	Parry Huang	DATE	21-OCT-2002
-----------	-------------	------	-------------

SHEET 31 of 57

REFERENCE 3150-3199(HDMI)

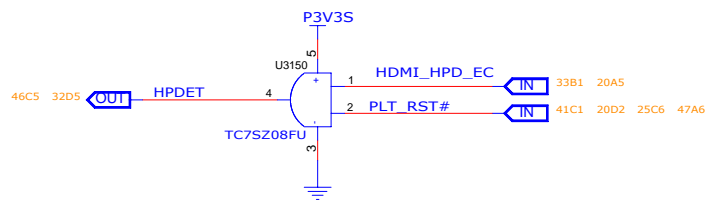
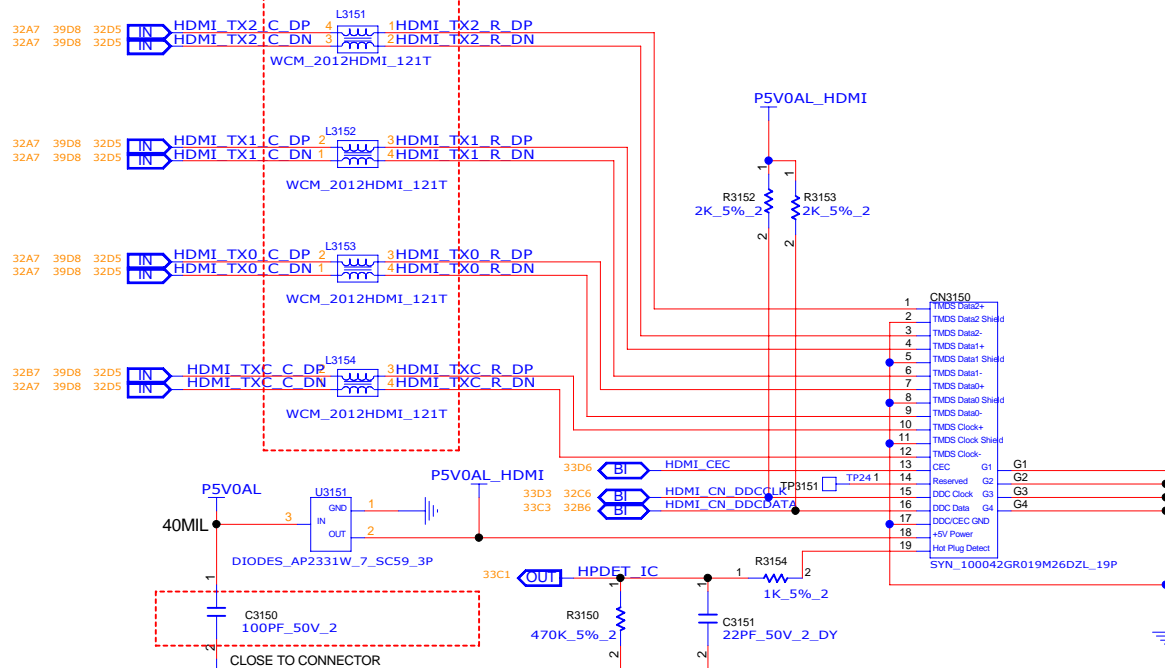
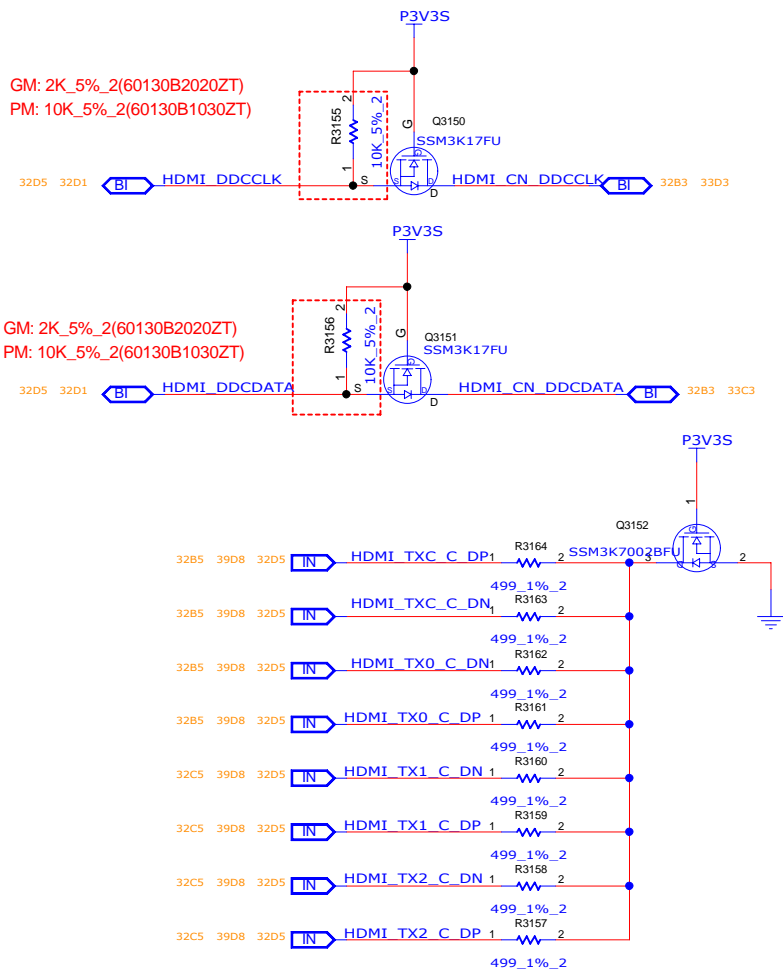
GM/PM CO-LAYOUT



PLACE CLOSE TO CONNECTOR

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

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



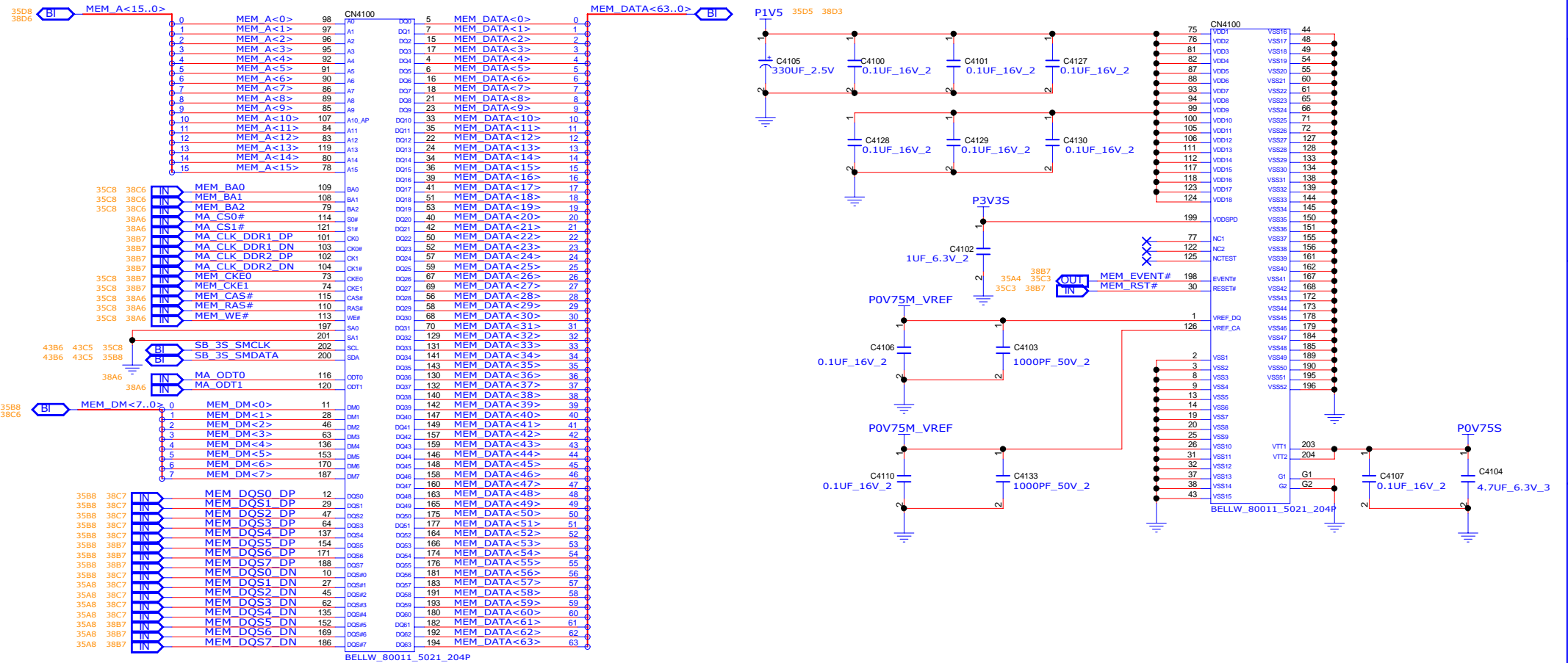
INVENTEC

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

CHANGE by Parry Huang DATE 21-OCT-2002

SHEET 32 of 57

SO-DIMM 0 SLOT A

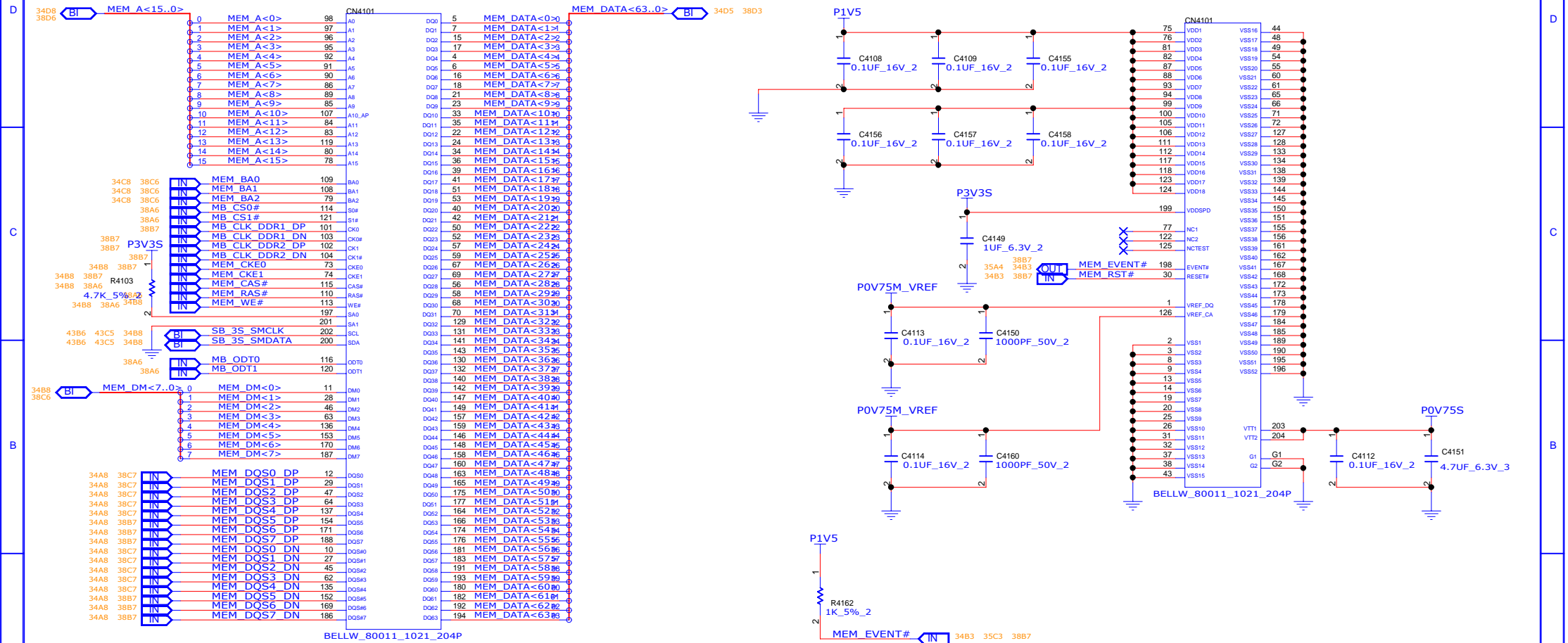


INVENTEC

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

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 34 of 57

SO-DIMM 1 SLOT B



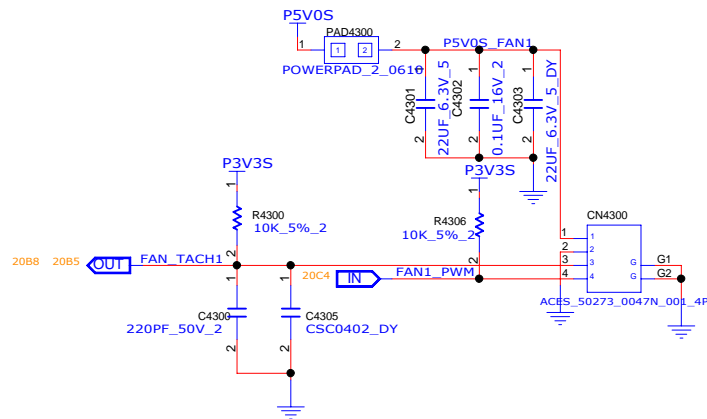
INVENTEC

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

CHANGE by **Parry Huang** DATE **21-OCT-2002**

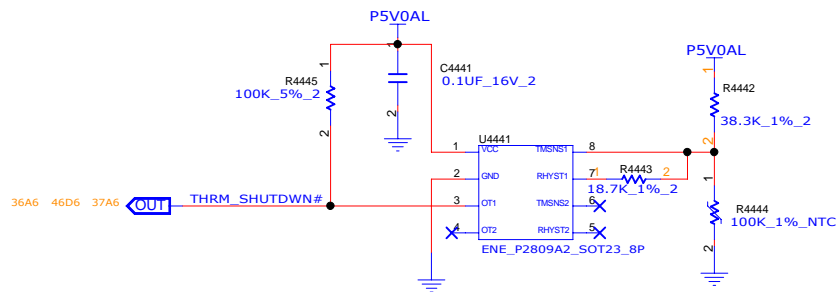
SHEET 35 of 57

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



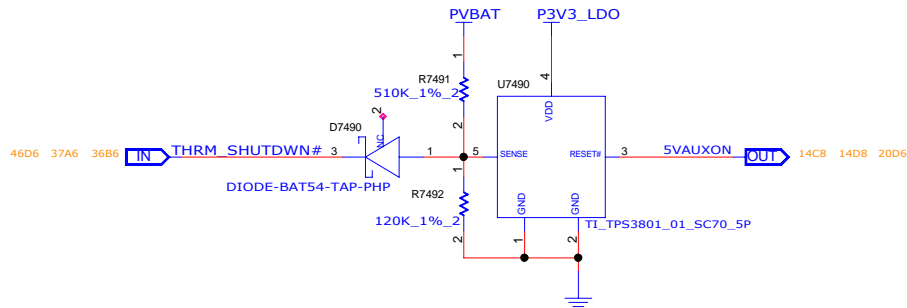
FAN CN

THERMAL SENSOR



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

RESET IC

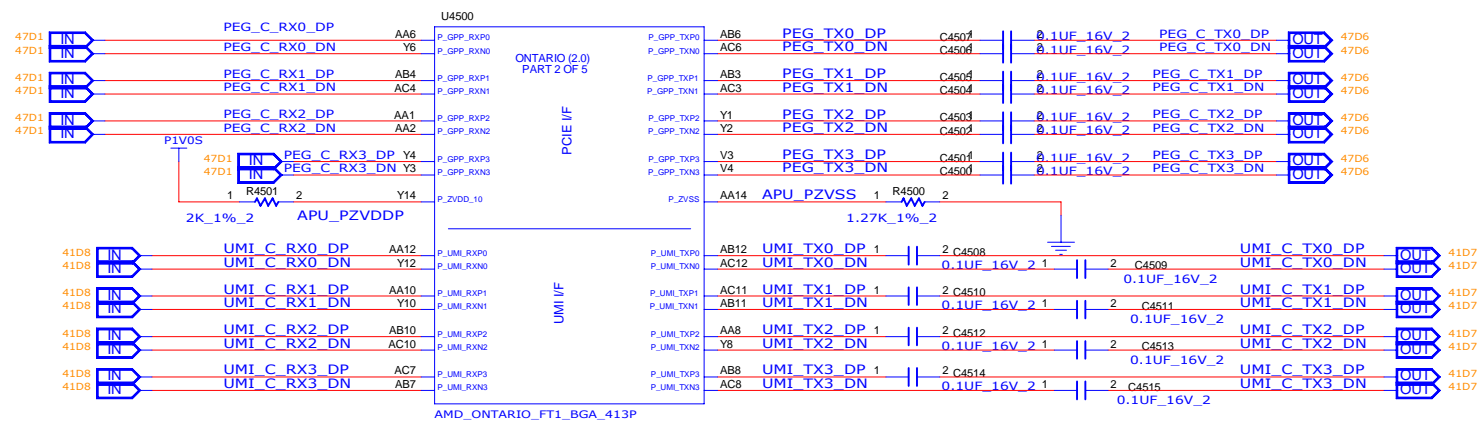


INVENTEC

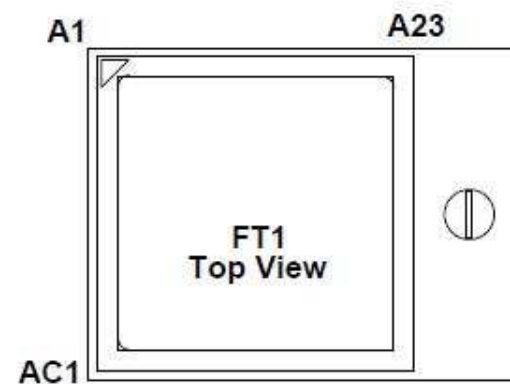
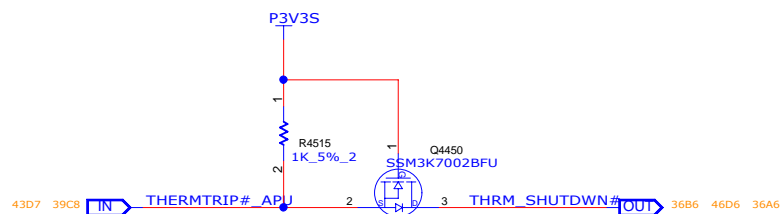
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by Parry Huang DATE 21-OCT-2002

SHEET 36 of 57

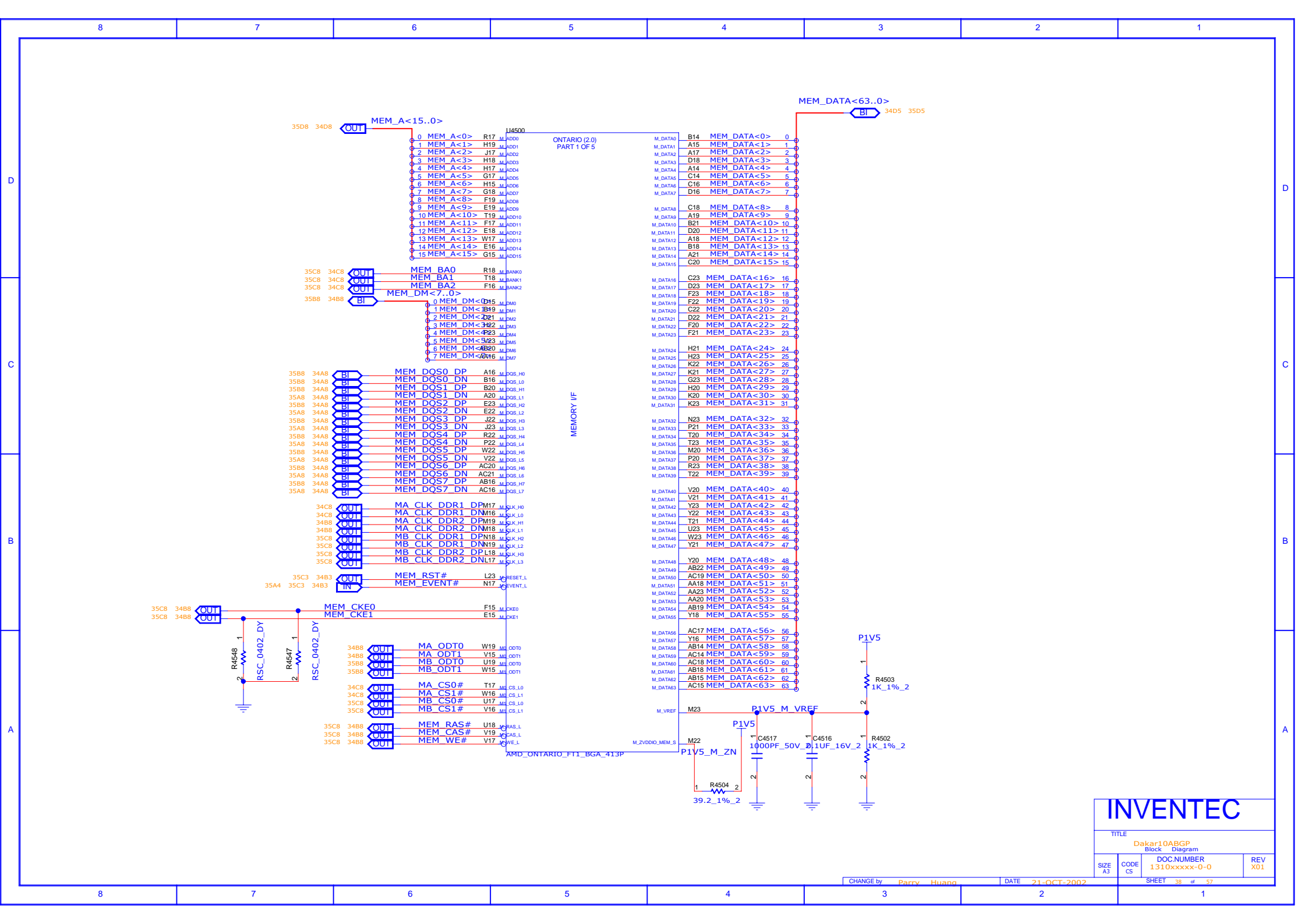


Layout: Add stitching caps if crossing plane split.

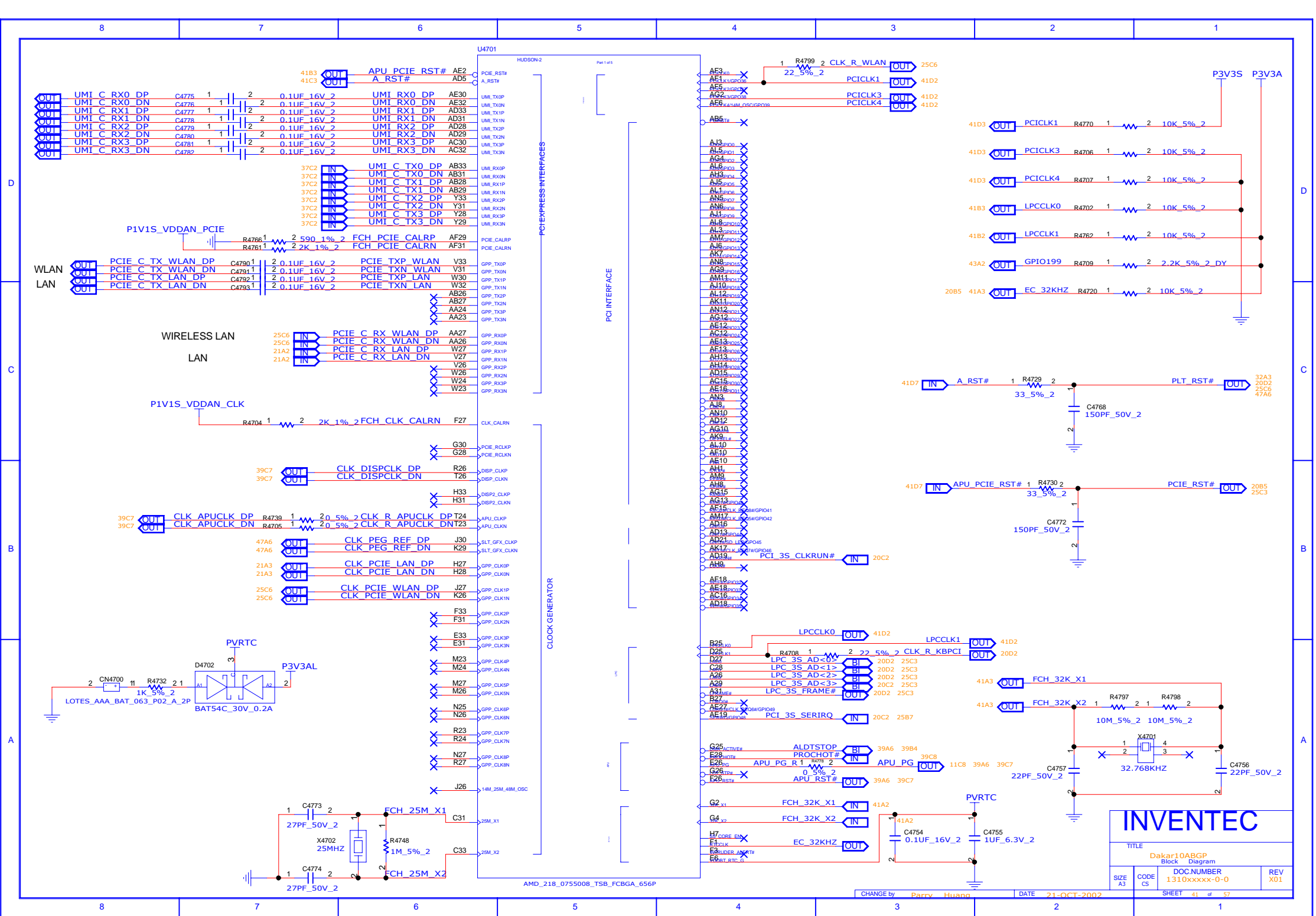


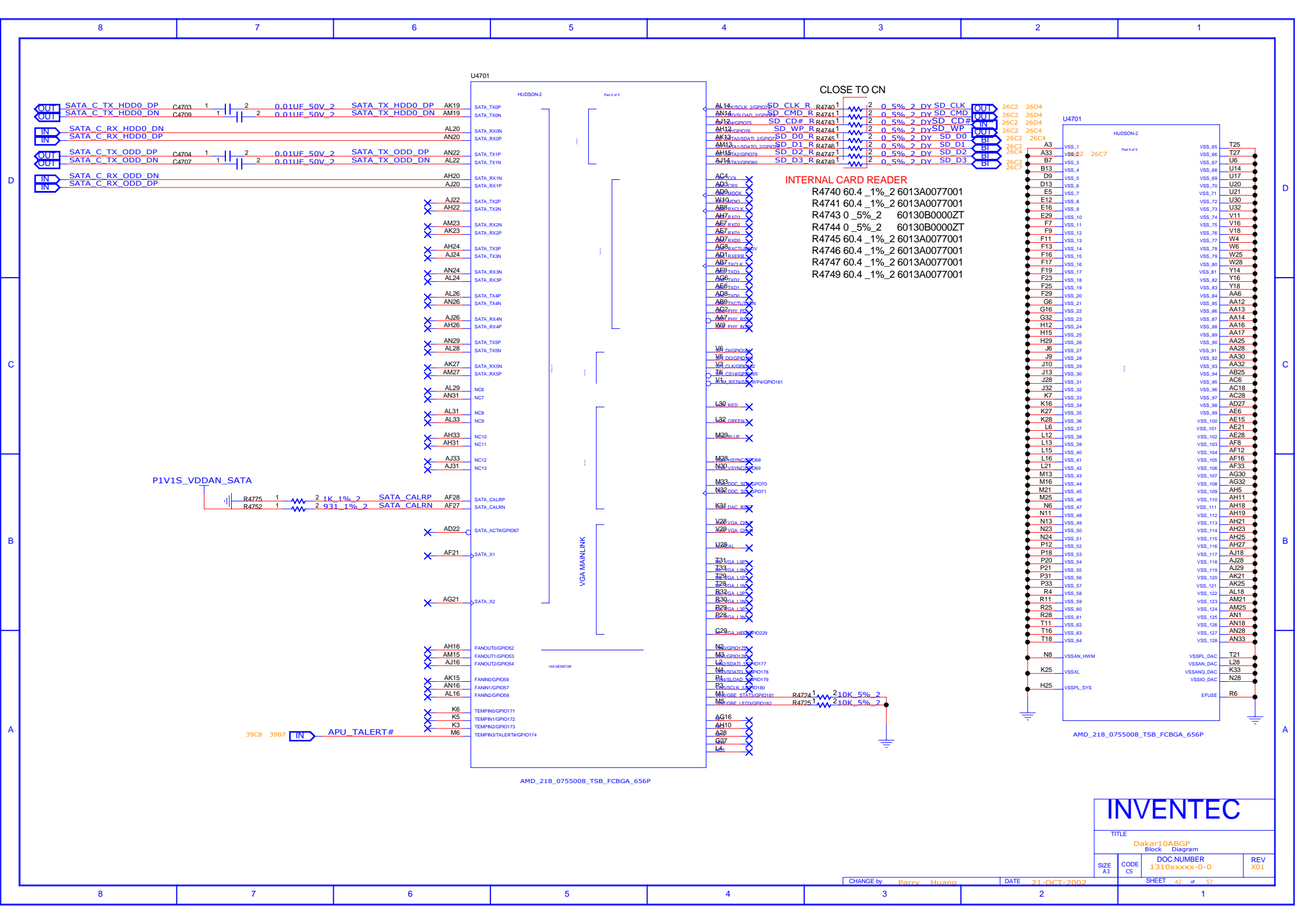
INVENTEC

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









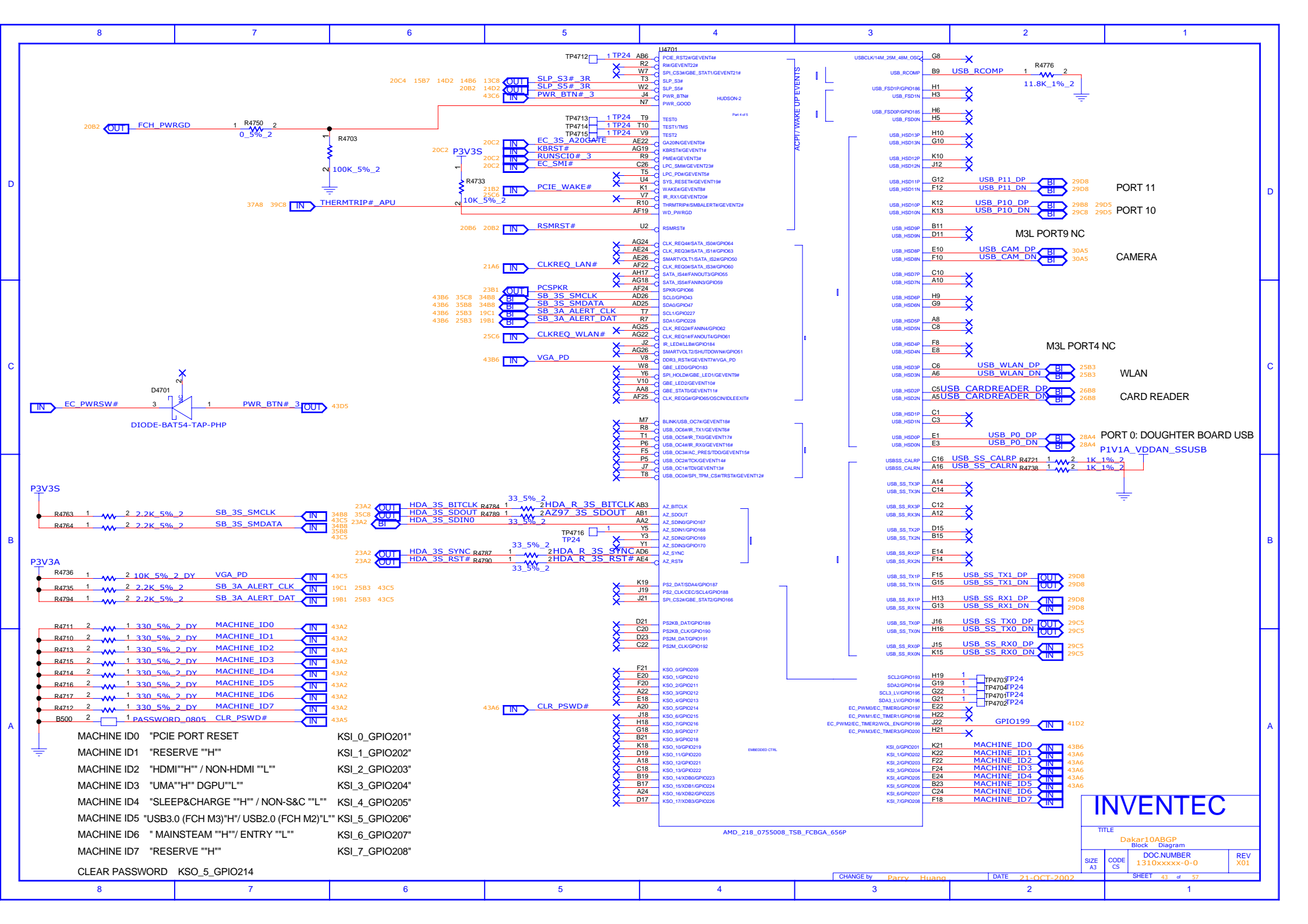
INVENTEC

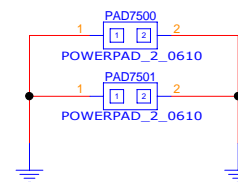
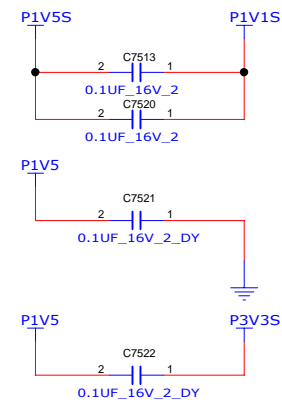
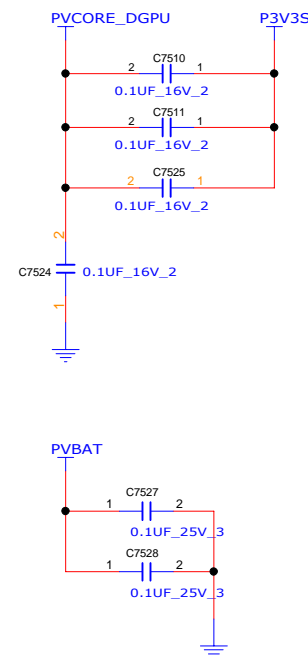
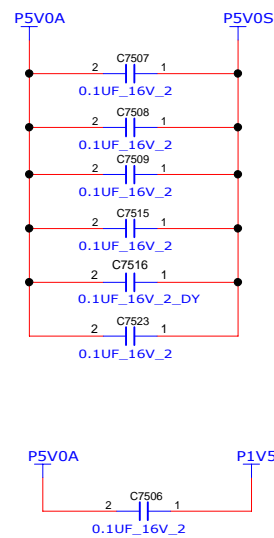
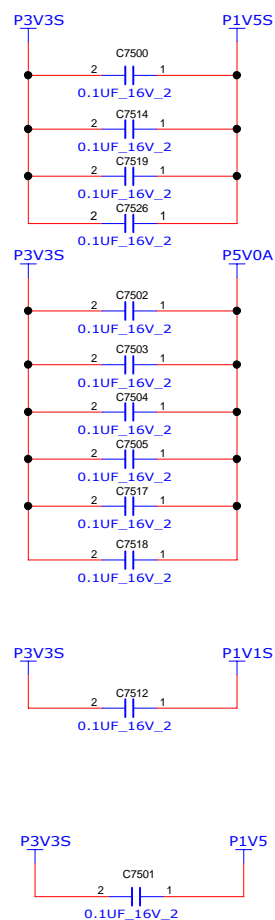
TITLE
Dakar10ABGP
Block Diagram

DOC NUMBER
1310xxxxx-0-0

REV
X01

CHANGE by Parry Huang DATE 21-OCT-2002 SHEET 42 of 57

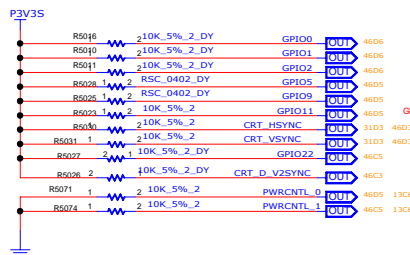




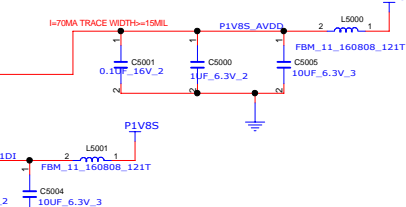
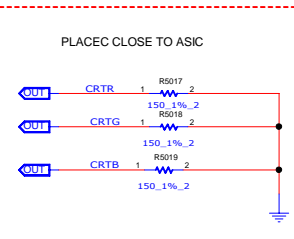
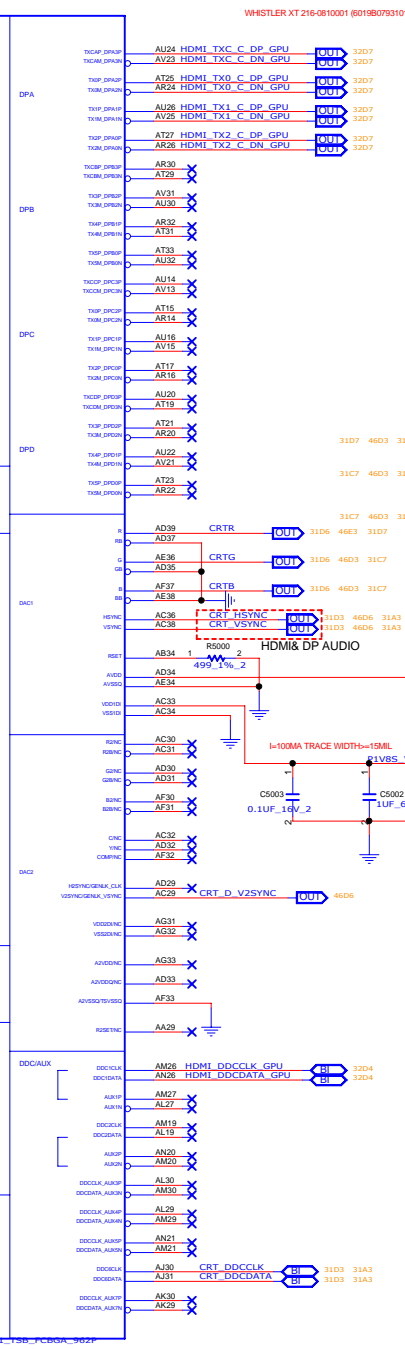
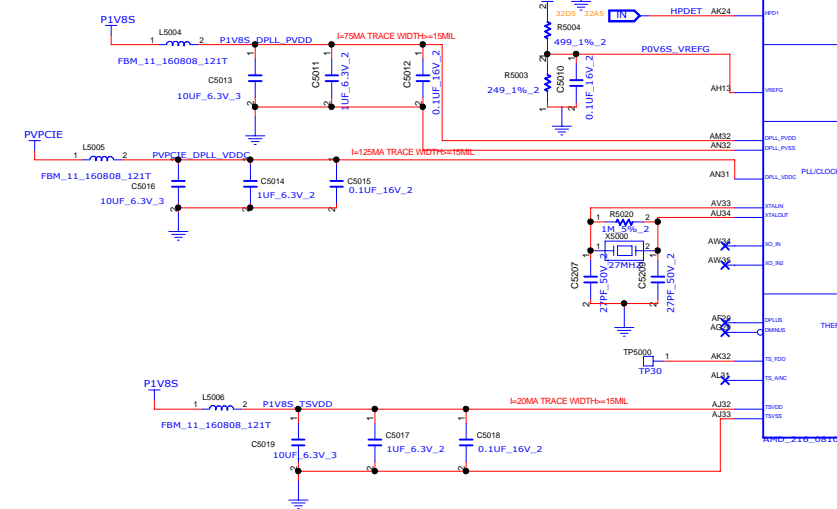
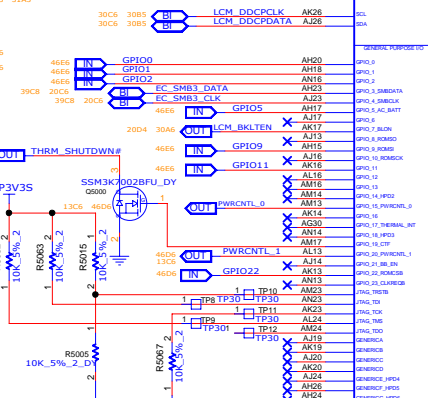
INVENTEC

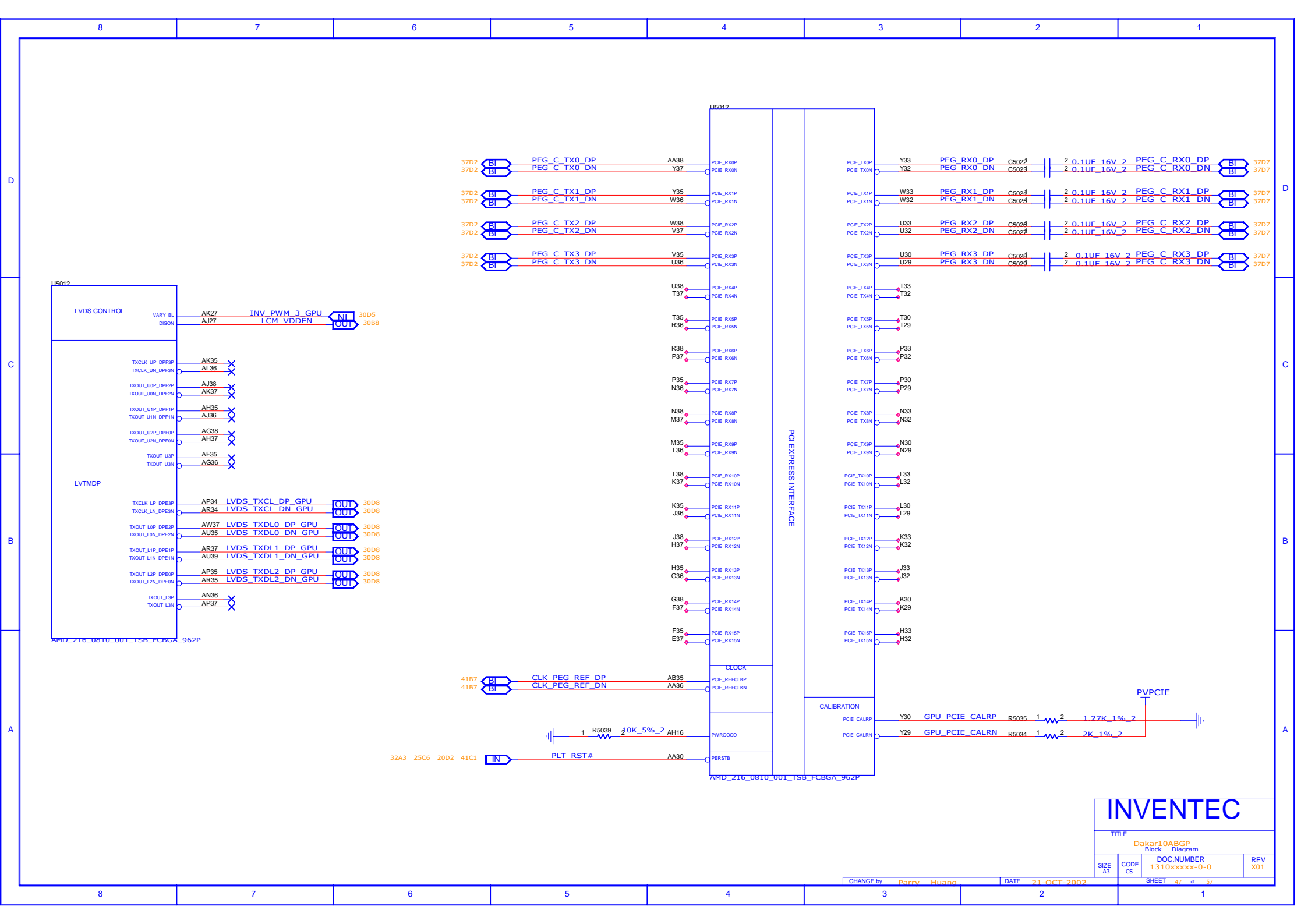
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

ID	Memory Type	Configurations	Channel Size	Seymour XT	Thames LE	Thames XT
0	memory	44Mx16 - 4 pins	512MB	V	V	V
1	memory	HTS2200QFR-110	128Mx16 - 8 pins	V	V	V
2	memory	HTS2200QFR-110	128Mx16 - 4 pins	V	V	V
3	memory					
4	memory	HTS2200QFR-110	64Mx16 - 8 pins	V	V	V
5	memory	HTS2200QFR-110	128Mx16 - 8 pins	V	V	V
6	memory	HTS2200QFR-110	128Mx16 - 4 pins	V	V	V
7	memory					
8	AMD	23R2387MC11	64Mx16 - 4 pins	V	V	V
9	AMD	23R14107MA11	128Mx16 - 4 pins	V	V	V
10	AMD	23R14107MA11	128Mx16 - 4 pins	V	V	V
11	AMD					
12	AMD	23R2387MC11	64Mx16 - 8 pins	V	V	V
13	AMD	23R14107MA11	128Mx16 - 8 pins	V	V	V
14	AMD	23R14107MA11	128Mx16 - 8 pins	V	V	V
15	memory					

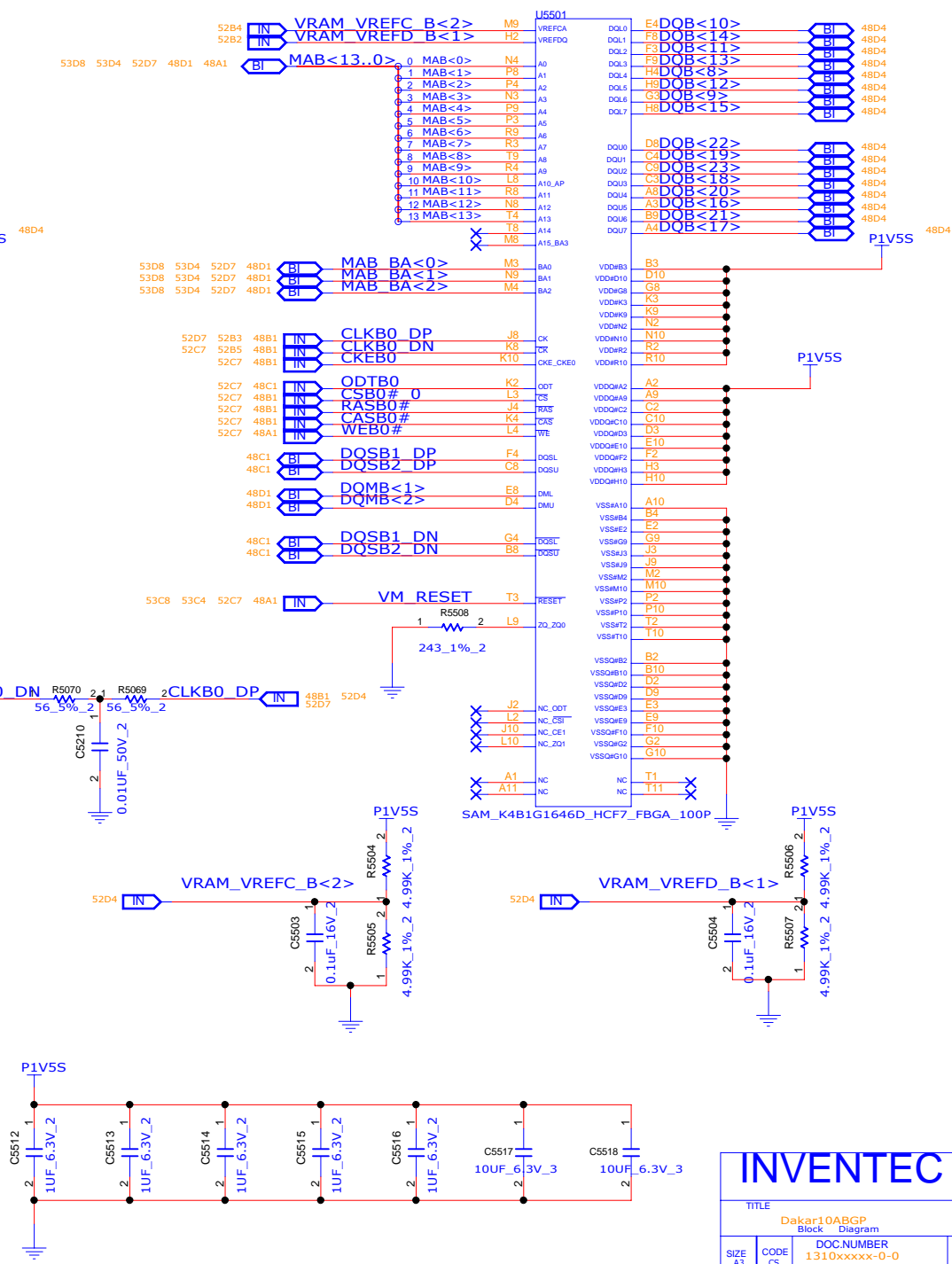
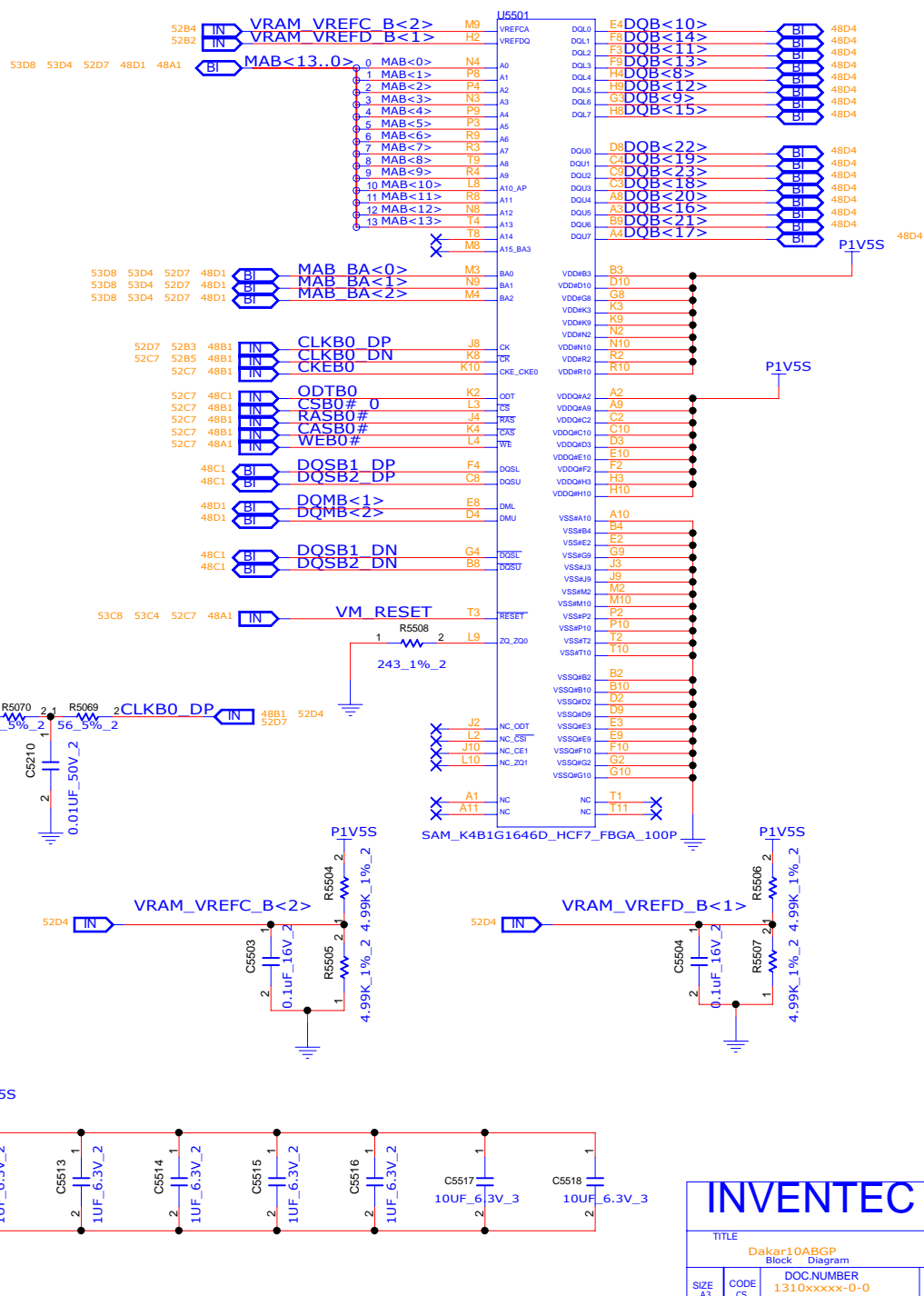


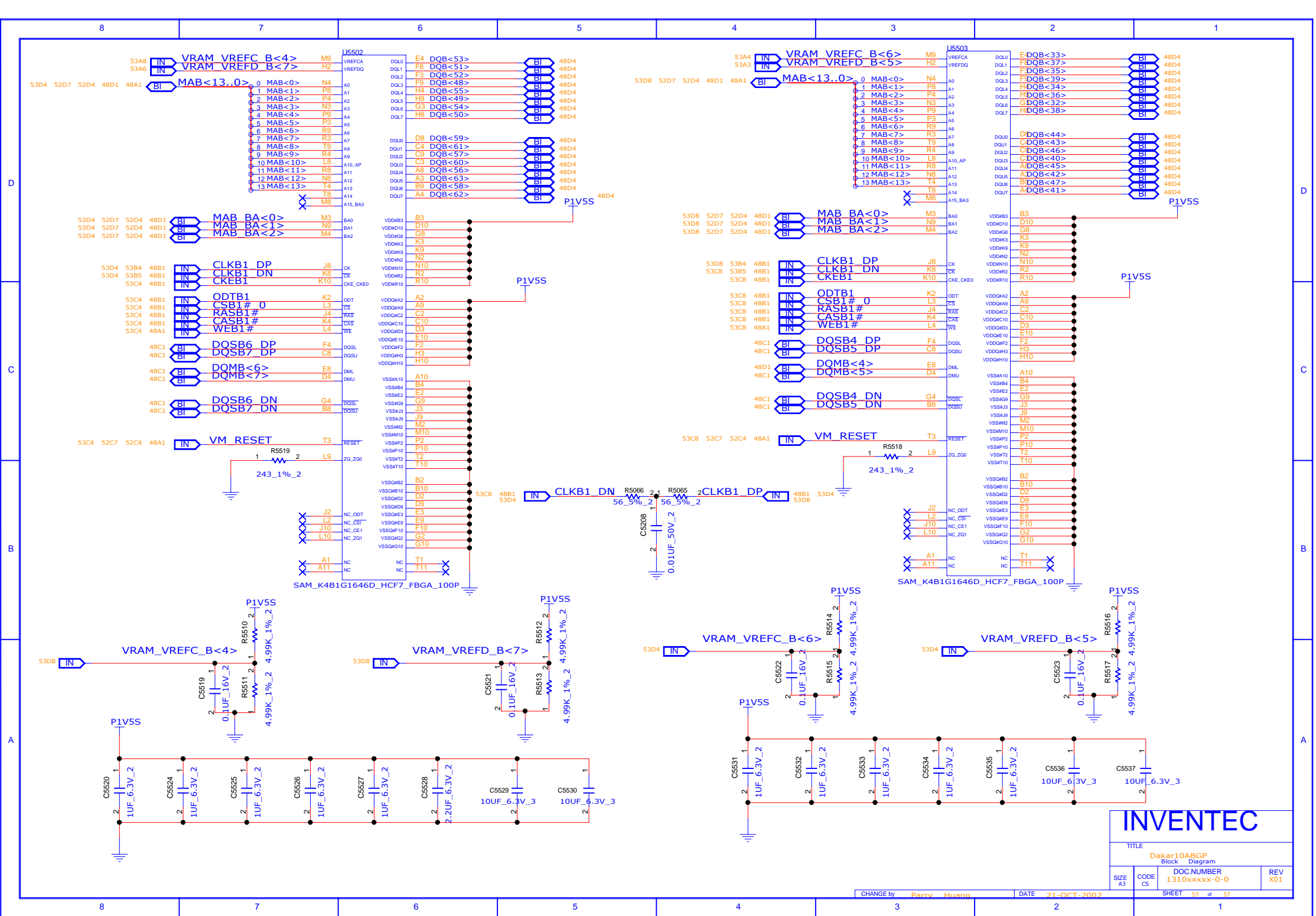
GPIO1/MEMORY APERTURE SIZE 256M



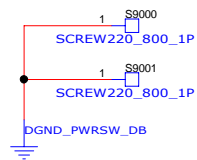
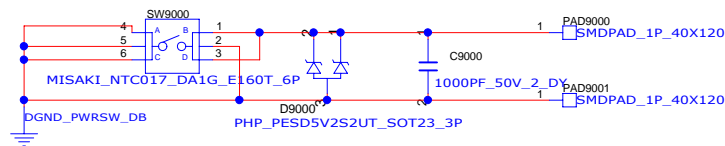








POWER BUTTON

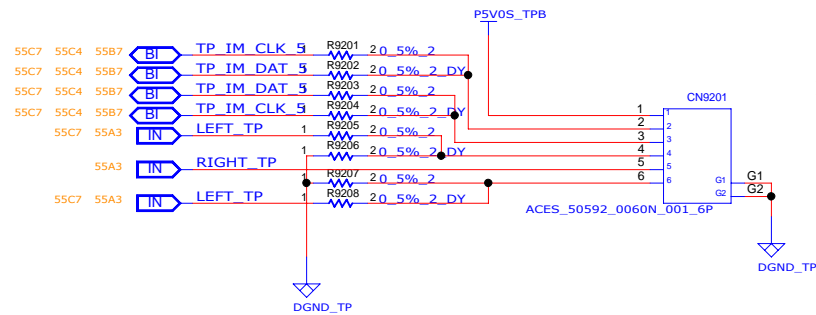


INVENTEC

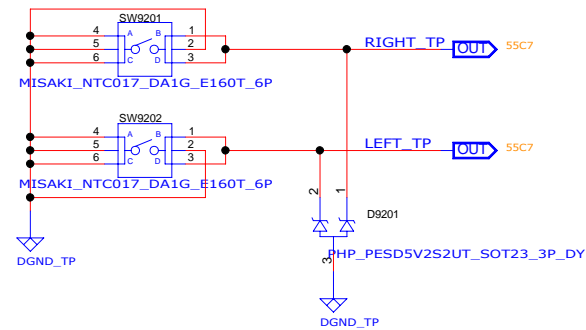
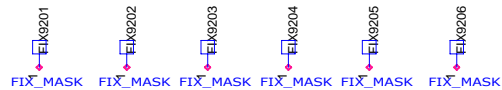
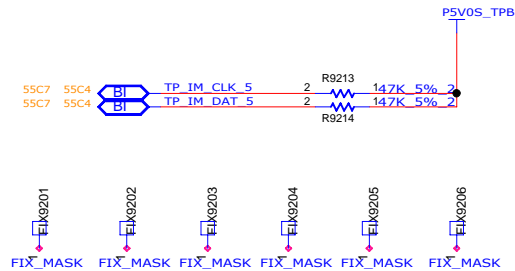
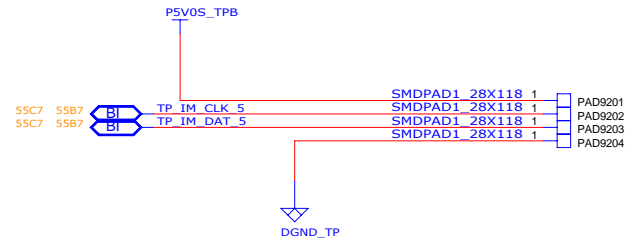
TITLE			
Dakar10ABGP Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

TPUCH PAD 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 Parry Huang DATE 21-OCT-2002

SHEET 55 of 57

D



D

C

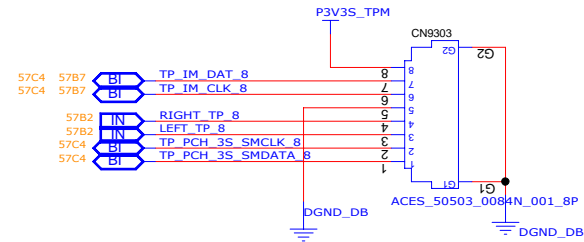
B

A

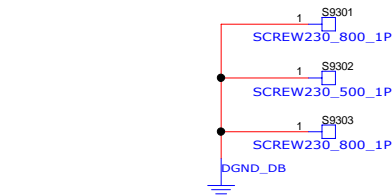
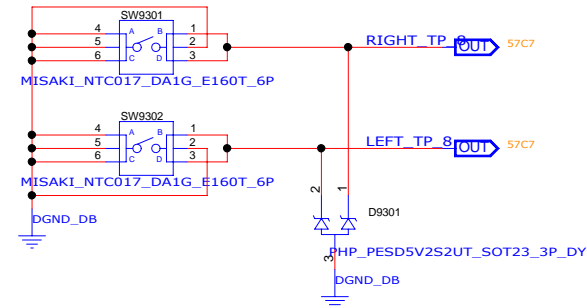
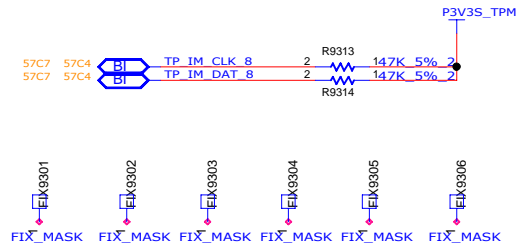
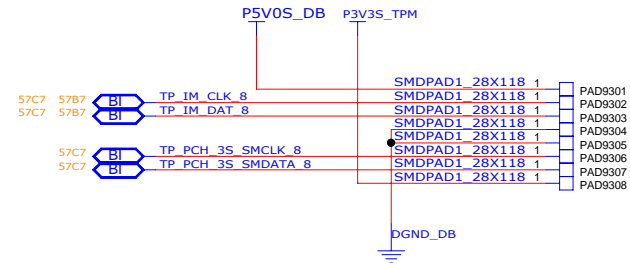
CHANGE by	Parry Huang	DATE	21-OCT-2002
-----------	-------------	------	-------------

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 Parry Huang DATE 21-OCT-2002

SHEET 57 of 57