

8 7 6 5 4 3 2 1

D

C

DAKAR10AC

B

A

AX1 BUILD

2011.10.18

INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01

PAGE NO/FUNCTION

1. COVER PAGE
2. INDEX
3. BLOCK DIAGRAM
4. POWER MAP
5. CHARGER
6. P3V3 P5V0
7. DDR POWER
8. P1V1A
9. P1V2 P2V5S
- 10.VCORE
- 11.VCORE-1
12. ENABLE PIN
13. LOAD SWITCH
- 14.SCREW & FIX MASK
- 15.HALL SENSOR
- 16.LED
- 17.K/B & T/P CN
- 18.SUPER I/O(KBC)
- 19.LAN
- 20.RJ45 & TRANSFORMER
- 21.AUDIO CODEC
- 22.MIC & EARPHONE
- 23.WLAN
- 24.CARDER READER
- 25.HDD & ODD

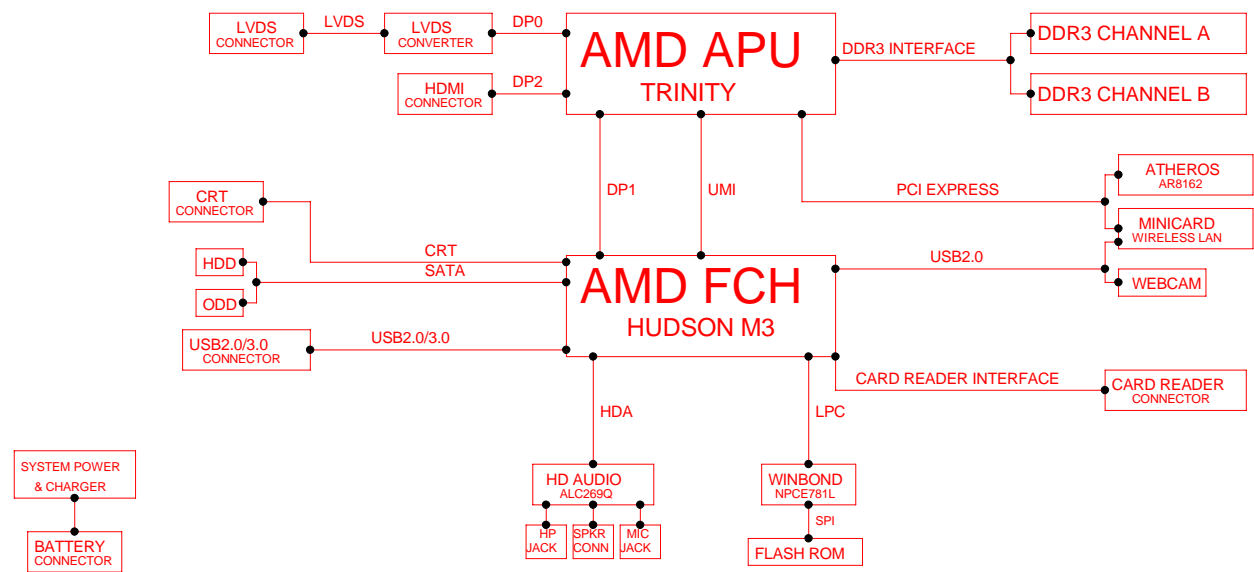
PAGE NO/FUNCTION

- 26.USB2.0
- 27.USB3.0
- 28.LVDS
- 29.CRT
- 30.HDMI
- 31.CEC
- 32.LVDS CONVERTER
- 33.DIMM0
- 34.DIMM1
- 35.FAN & THERMAL
- 36.APU(1/4)
- 37.APU(2/4)
- 38.APU(3/4)
- 39.APU(4/4)
- 40.FCH M3(1/4)
- 41.FCH M3(2/4)
- 42.FCH M3(3/4)
- 43.FCH M3(4/4)
- 44.PW BOARD
- 45.USB BOARD
- 46.PICK BUTTON BOARD
- 47.EMI

INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01

CHANGE by	Sky Chang	DATE	9-16-2011	SHEET	2	of	47
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INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

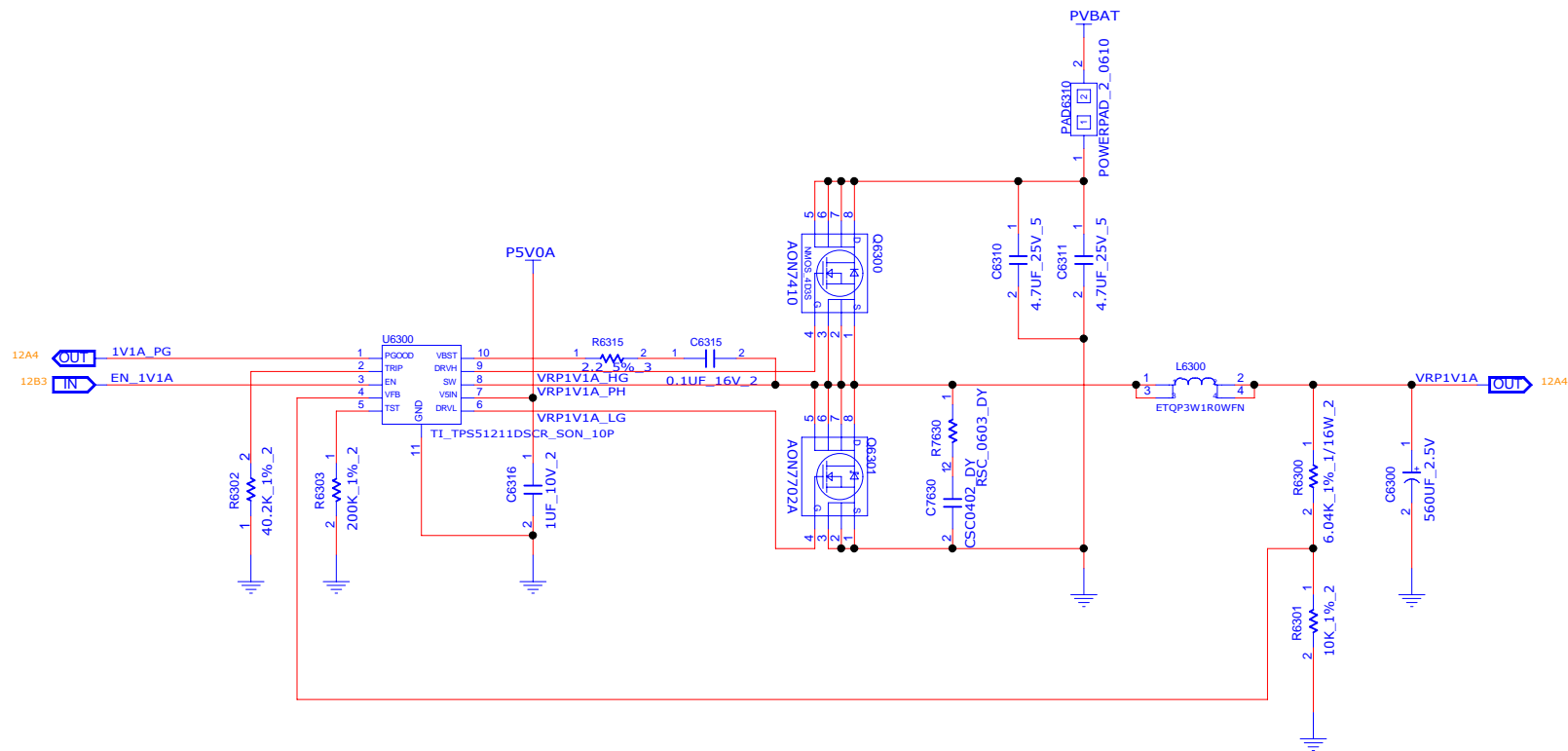
S0	P*V*S
S3	P*V*
S5	P*V*A

*=NUMBER

INVENTEC

TITLE		
DAKAR10AC Block Diagram		
SIZE A3	CODE CS	DOC NUMBER 1310A2492001
SHEET 4 of 47		REV X01

CHANGE by Sky Chang DATE 9-16-2011

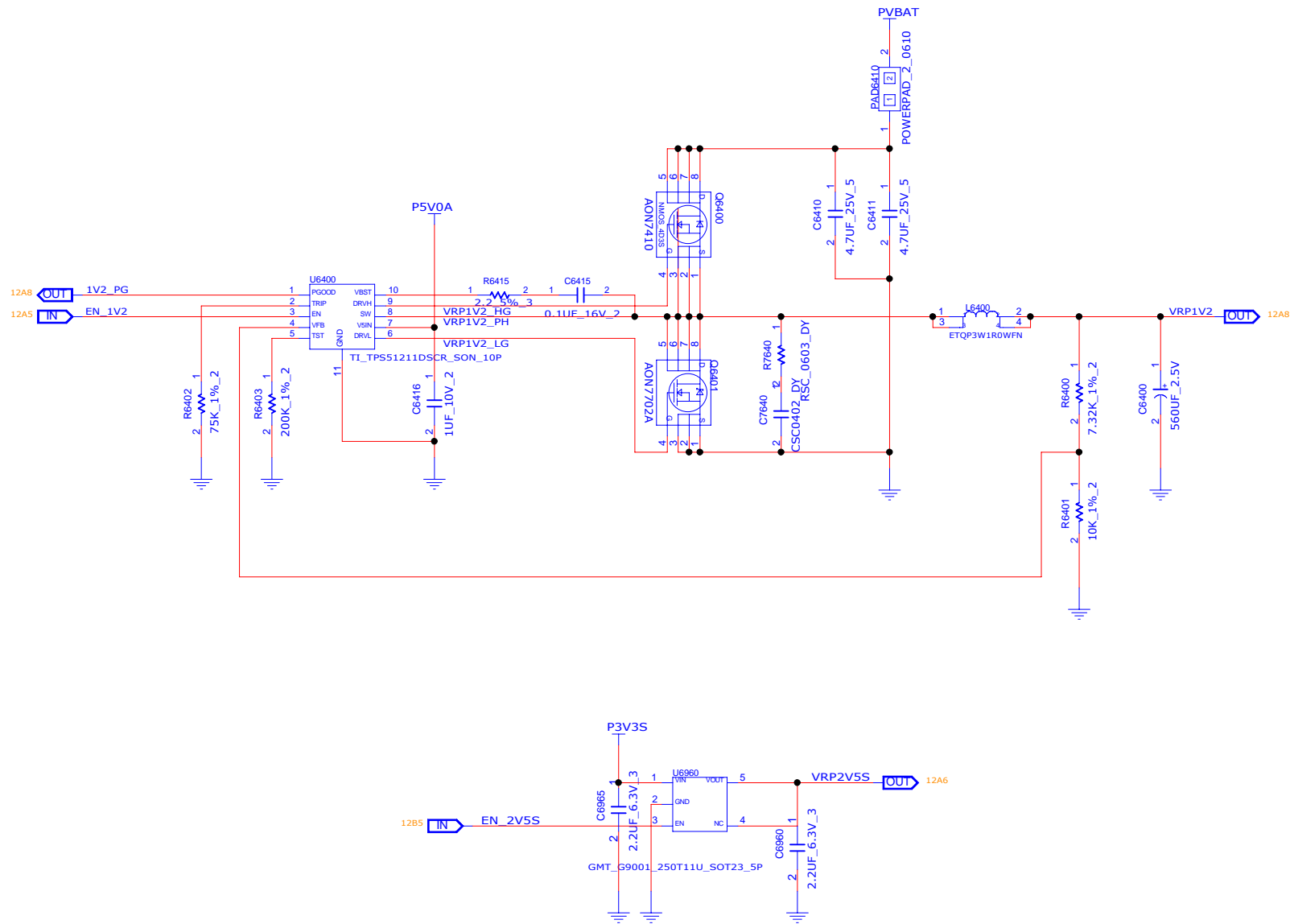


INVENTEC

TITLE			
DAKAR10AC			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

CHANGE by Sky Chang DATE 9-16-2011

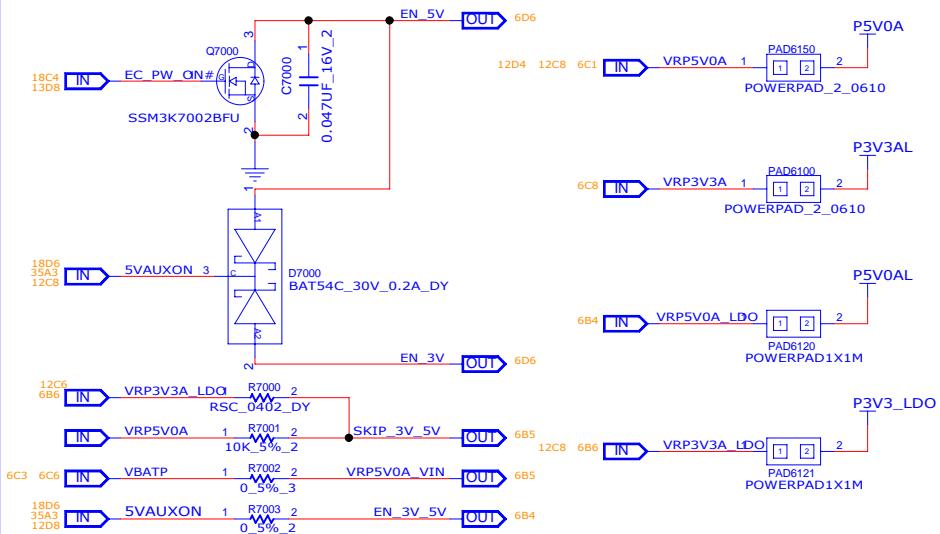
SHEET 8 of 47



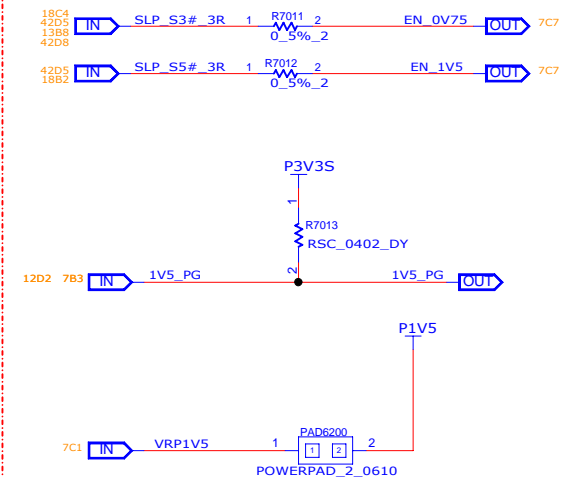
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TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

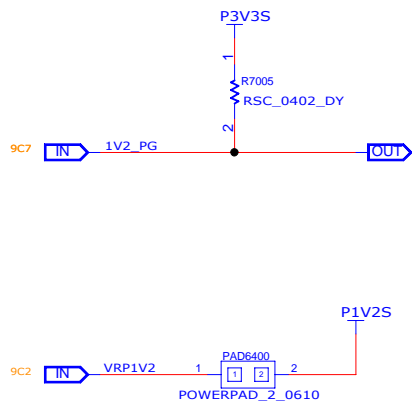
3V & 5V



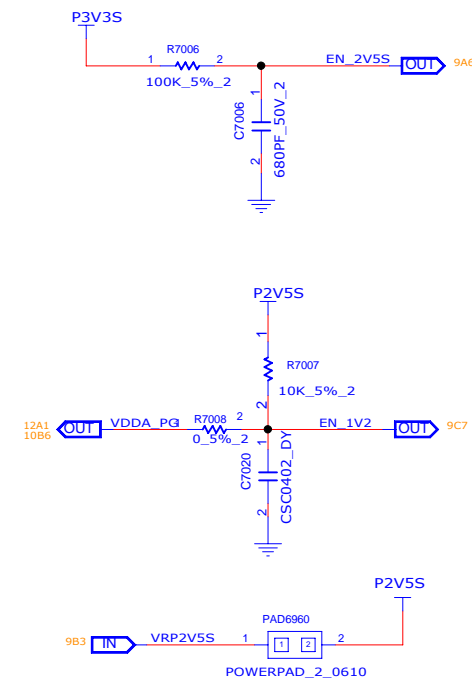
DDR_P1V5



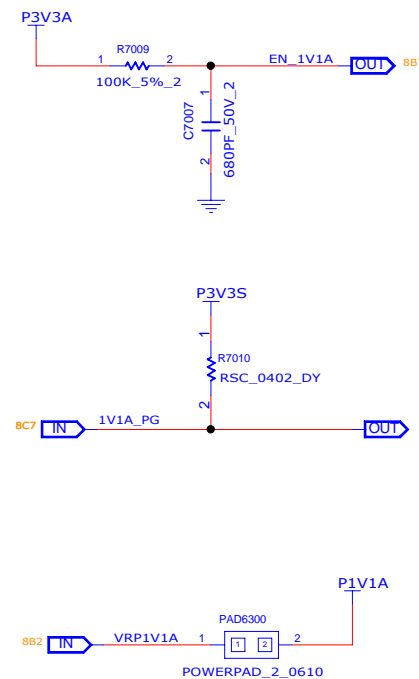
P1V2S



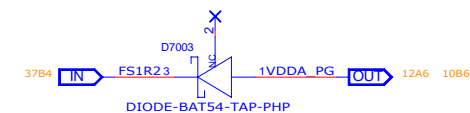
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P1V1A

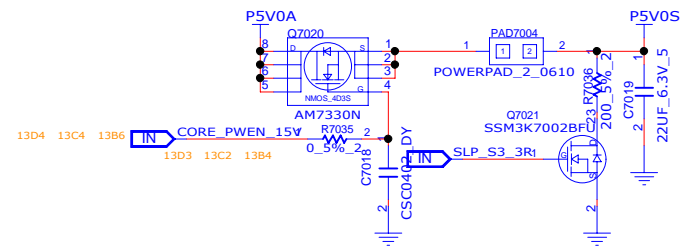
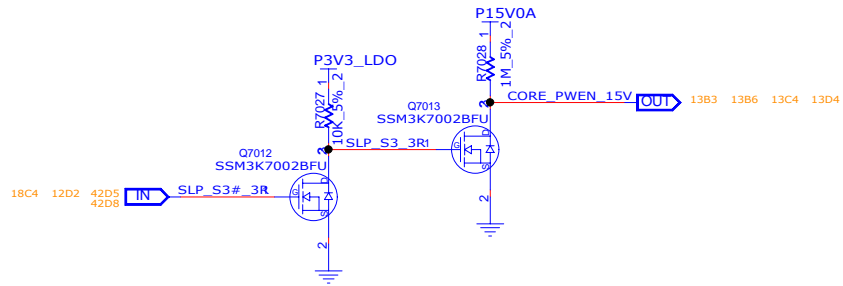
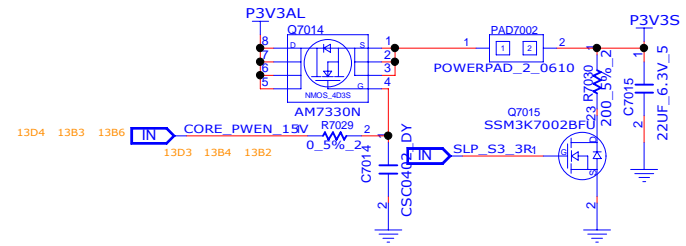
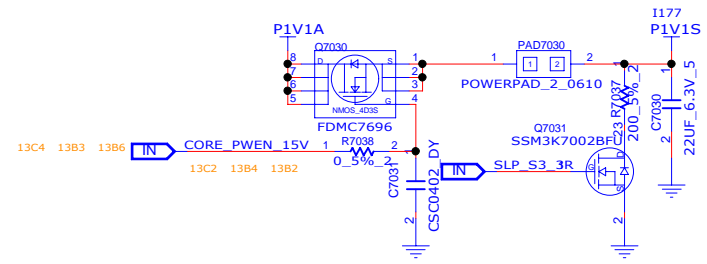
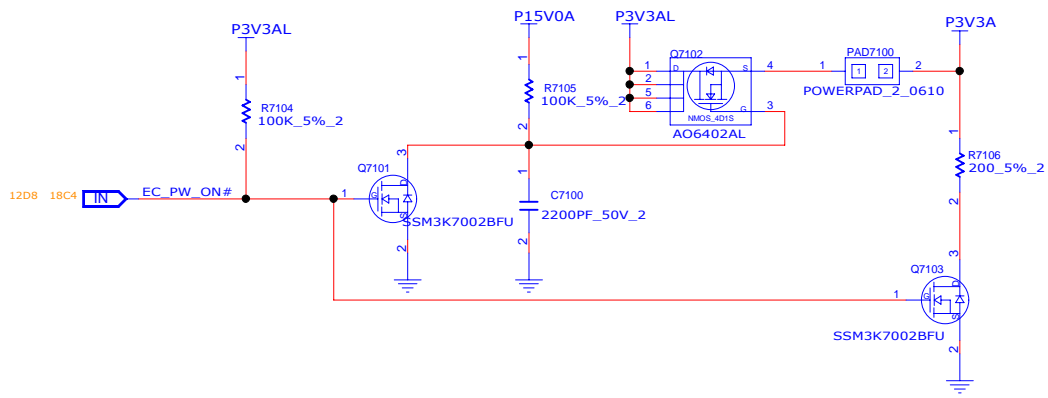


PVCORE



INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01



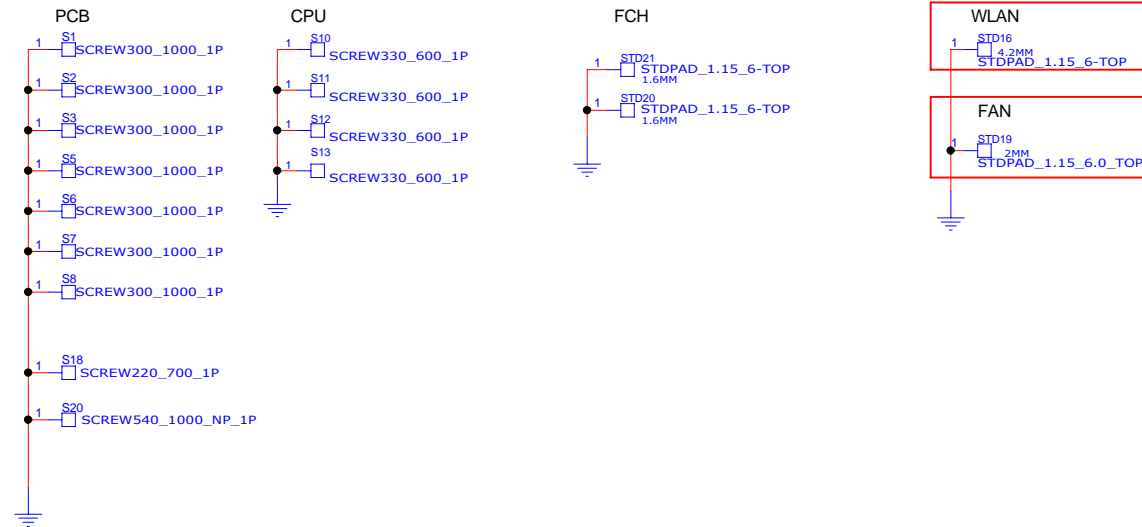
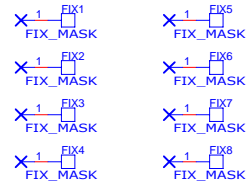
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TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	
A3	CS	1310A2492001	
REV		X01	

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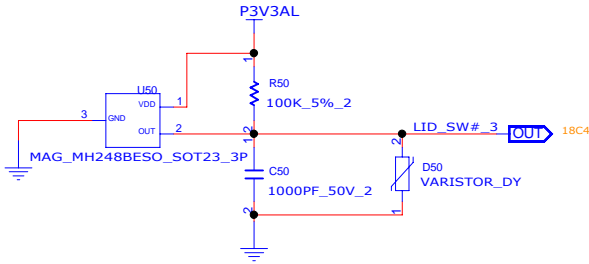
REFERENCE 0~49(PCB SCREW)



INVENTEC			
TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

REFERENCE 50-99(HALL SENSOR)

HALL SENSOR



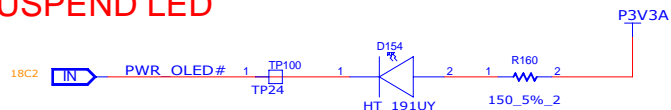
INVENTEC

TITLE
DAKAR10AC
Block Diagram

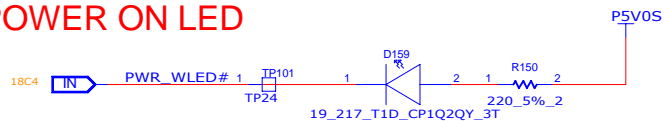
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01
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SUSPEND LED

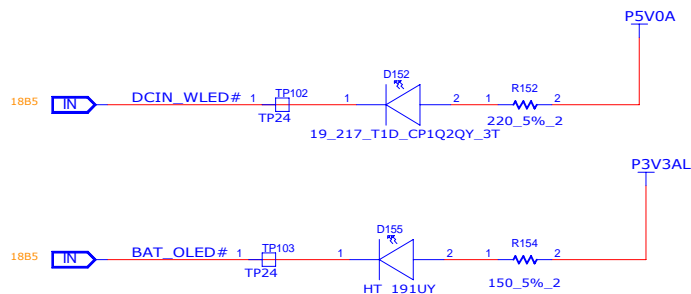


POWER ON LED

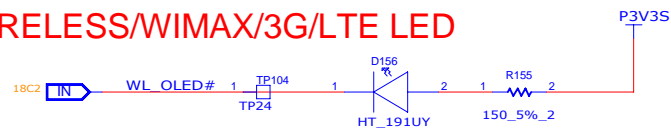


AC IN/BATTERY FULL LED

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

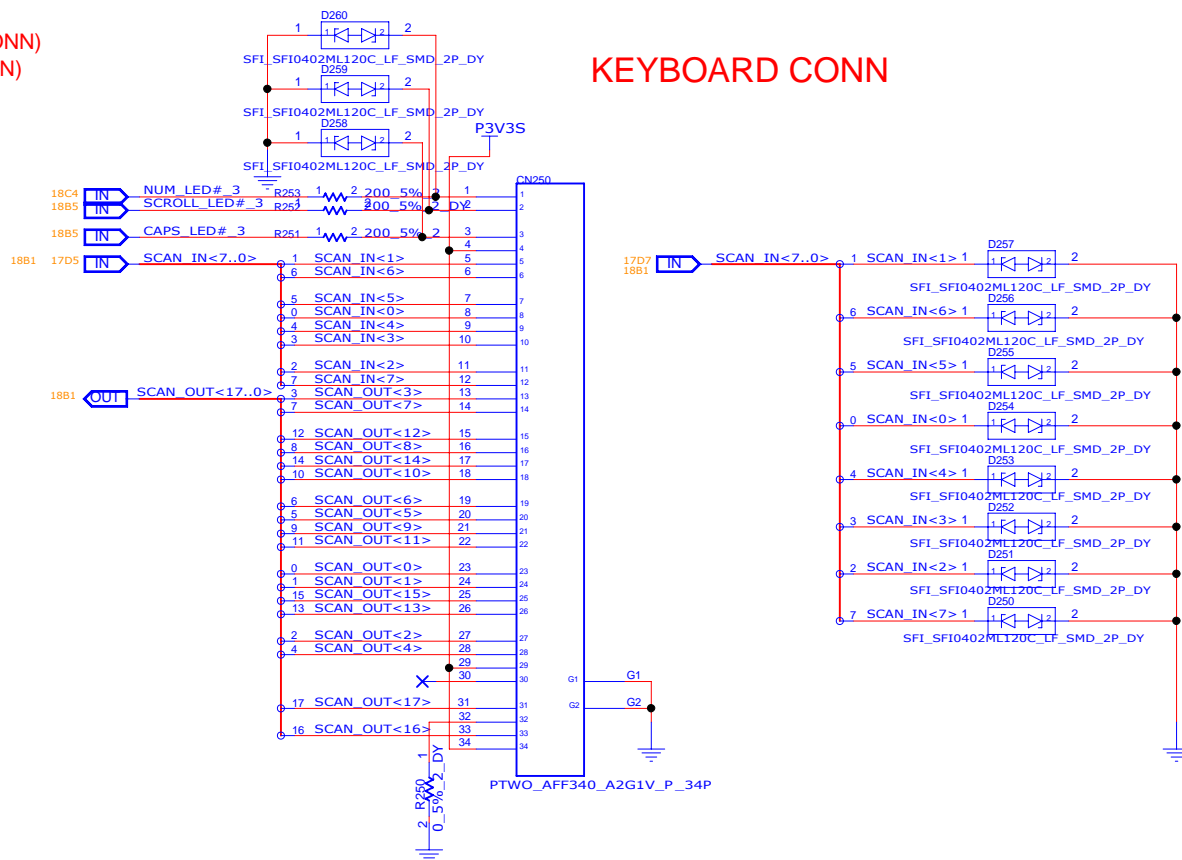


INVENTEC

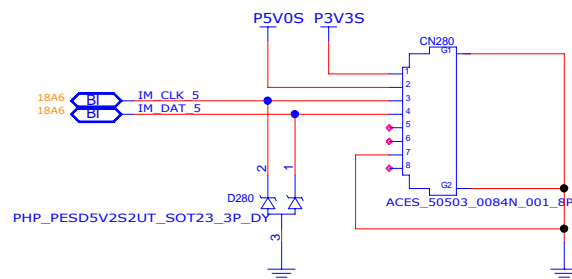
TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

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

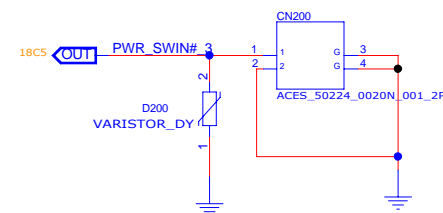
KEYBOARD CONN



TOUCHPAD CONN



POWER CONN

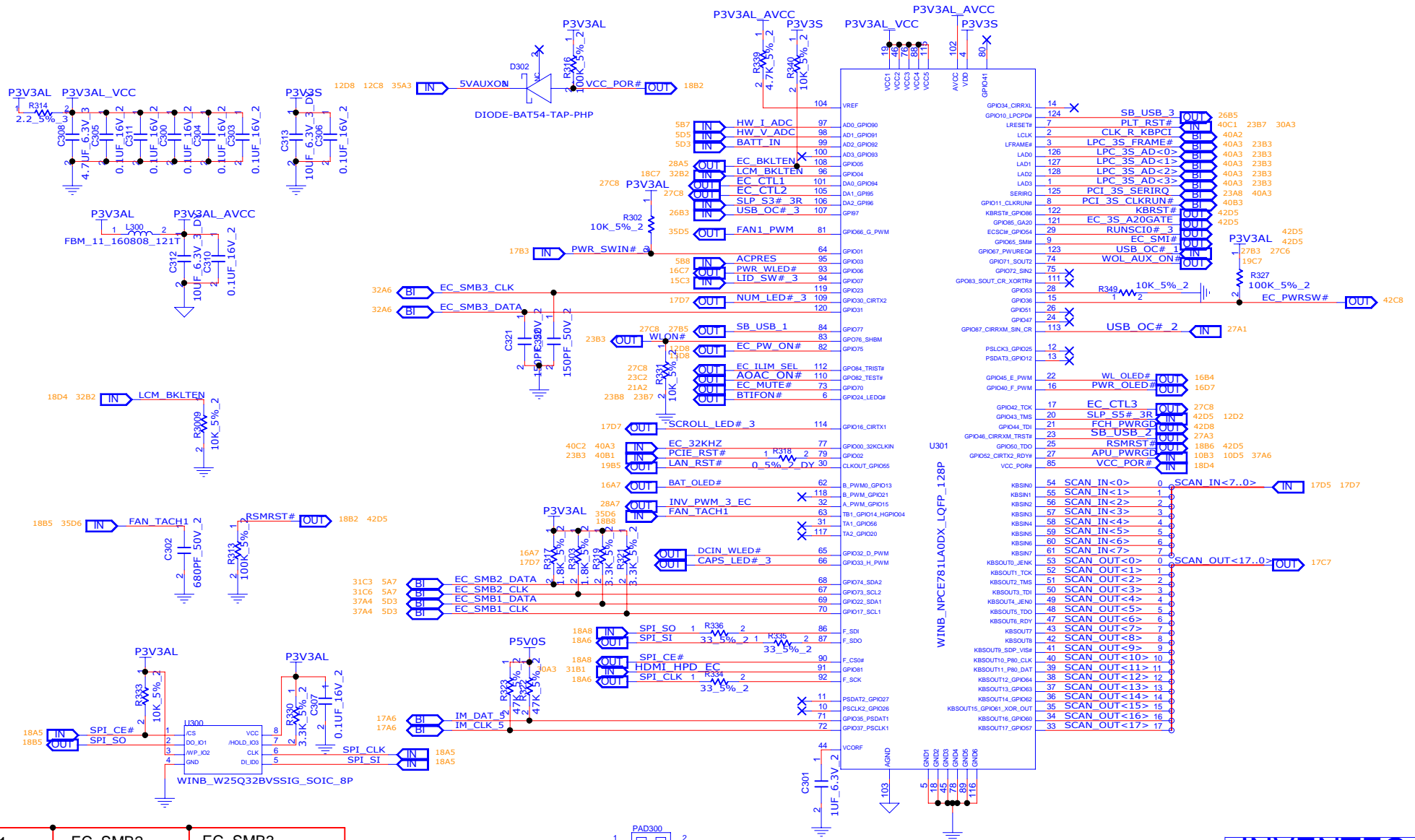


INVENTEC

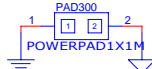
TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

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EC_SMB1	EC_SMB2	EC_SMB3
1.BATTERY	1.CHARGE	1.LVDS CONVERTER
2.CPU THERMAL	2.CEC	



INVENTEC

TITLE			
DAKEAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01
SHEET 18 of 47			



TITLE

DAKAR10AC

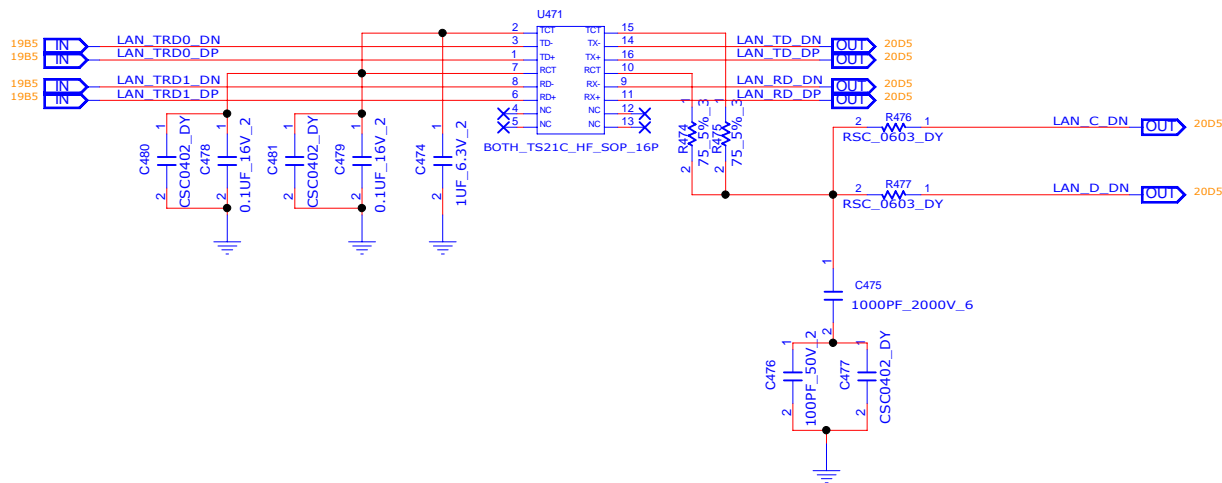
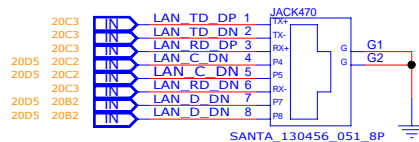
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310A2492001
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REV
X01

REFERENCE 470~499(LAN)

RJ45



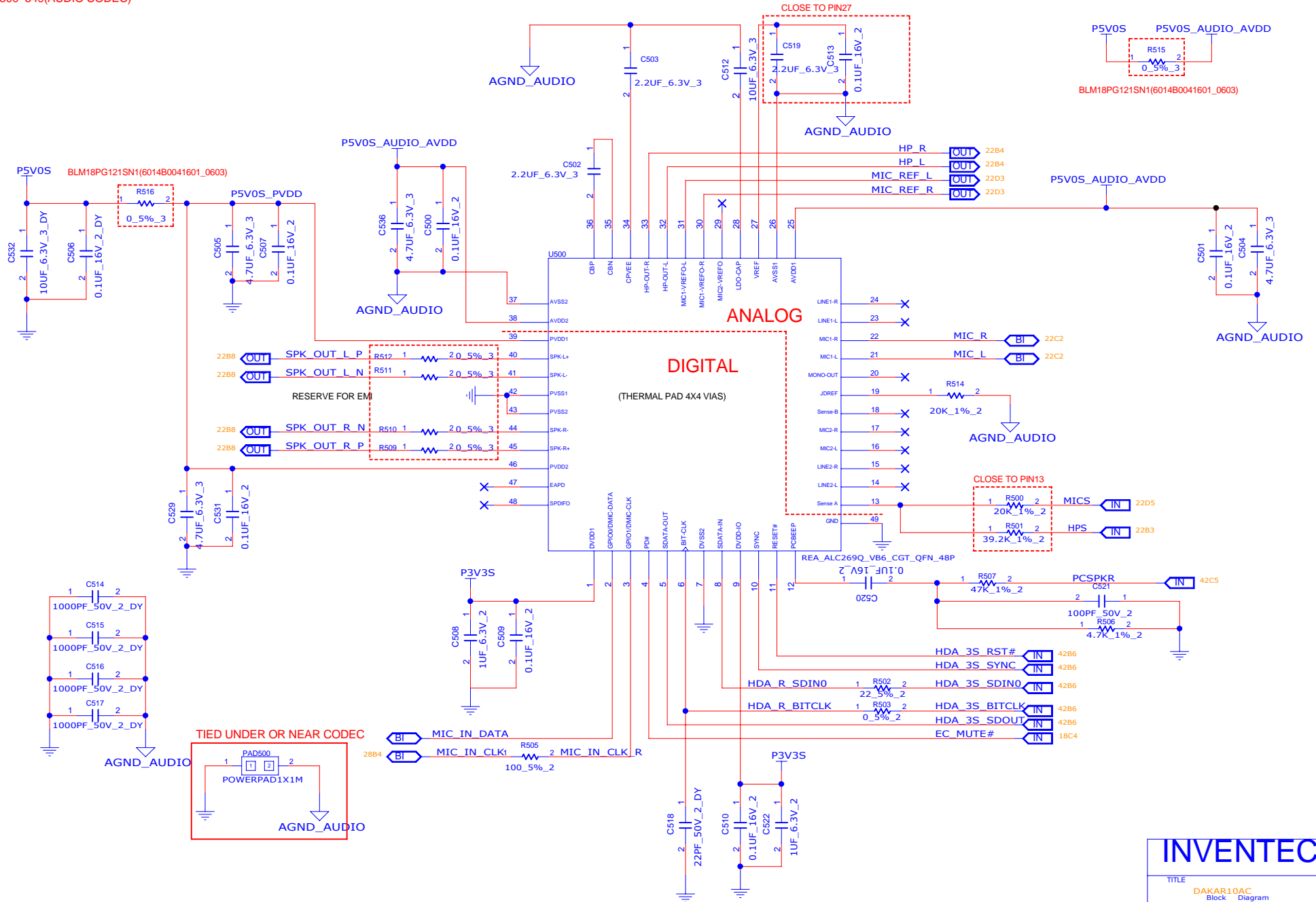
INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

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REFERENCE 500-549(AUDIO CODEC)



INVENTEC

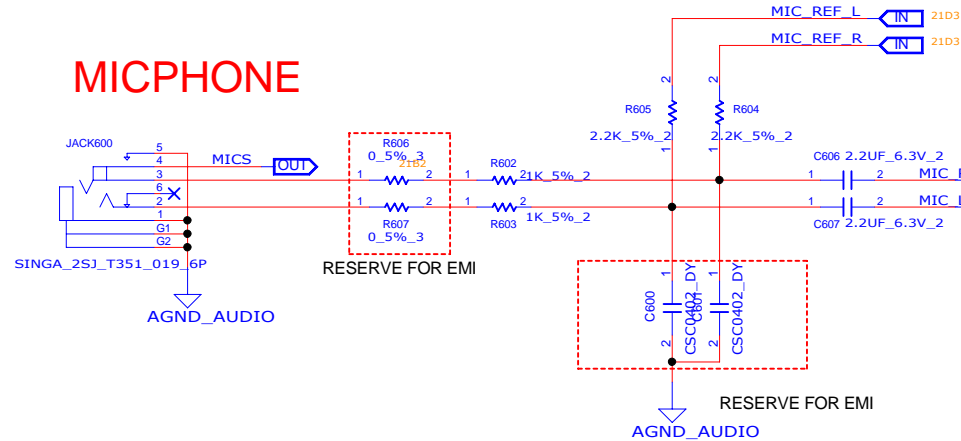
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DA-KAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

CHANGE by Sky Chang DATE 9-16-2011

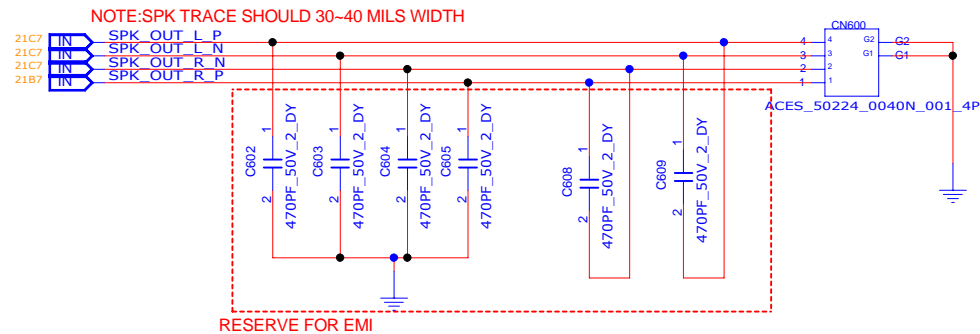
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AUDIO JACKS

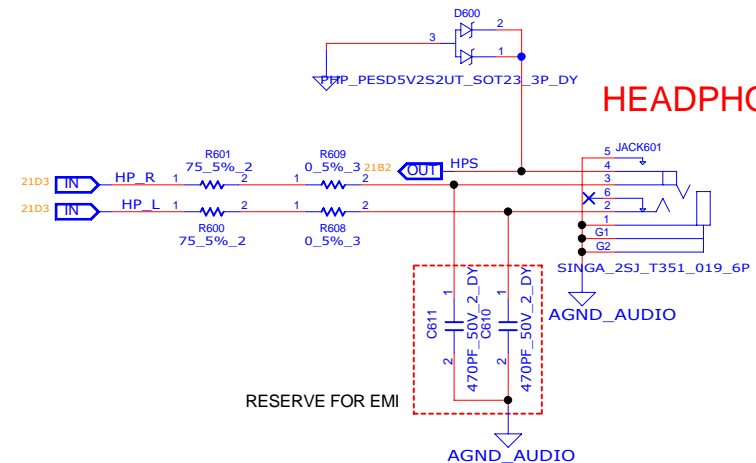
MICPHONE



INTERNAL SPEAKERS



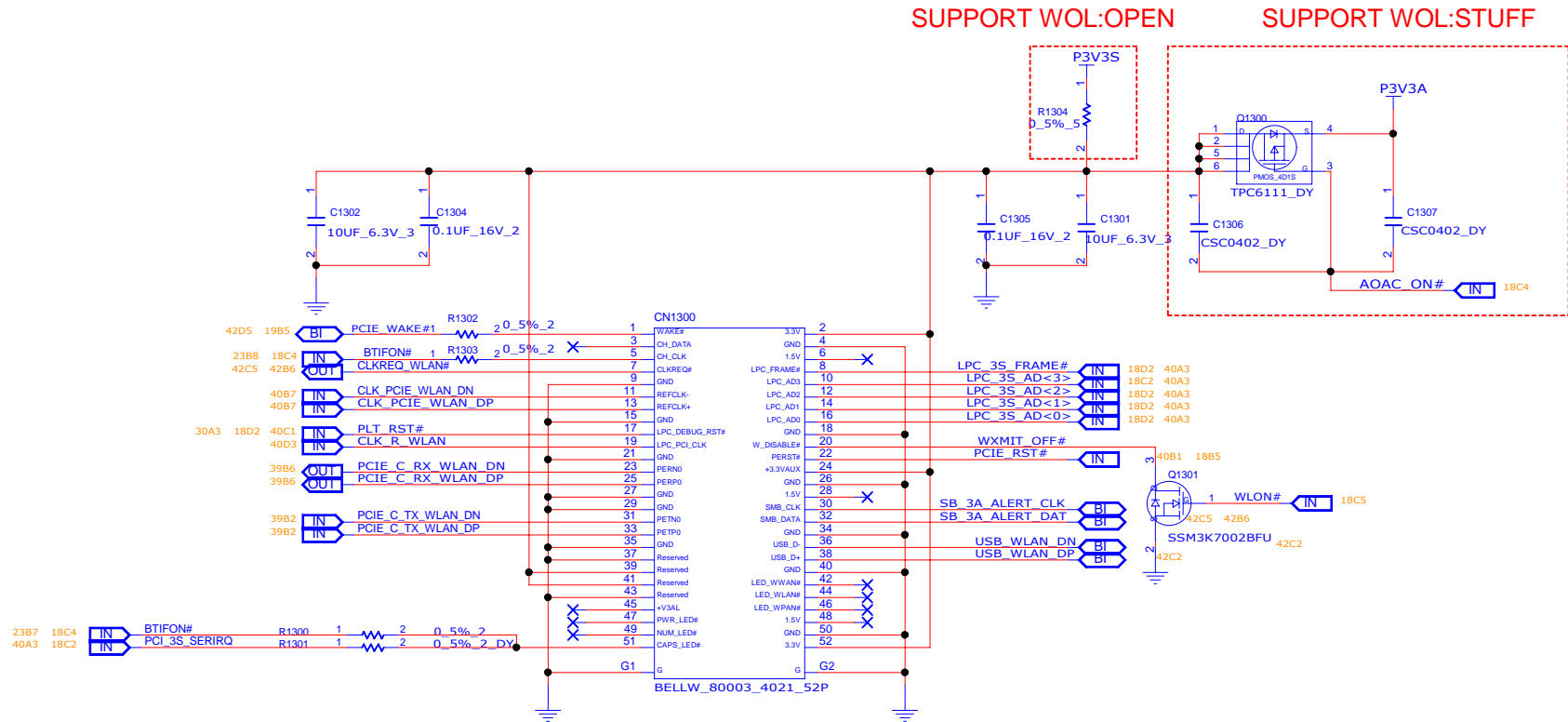
HEADPHONE



INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01

REFERENCE 1300~1349(WLAN)



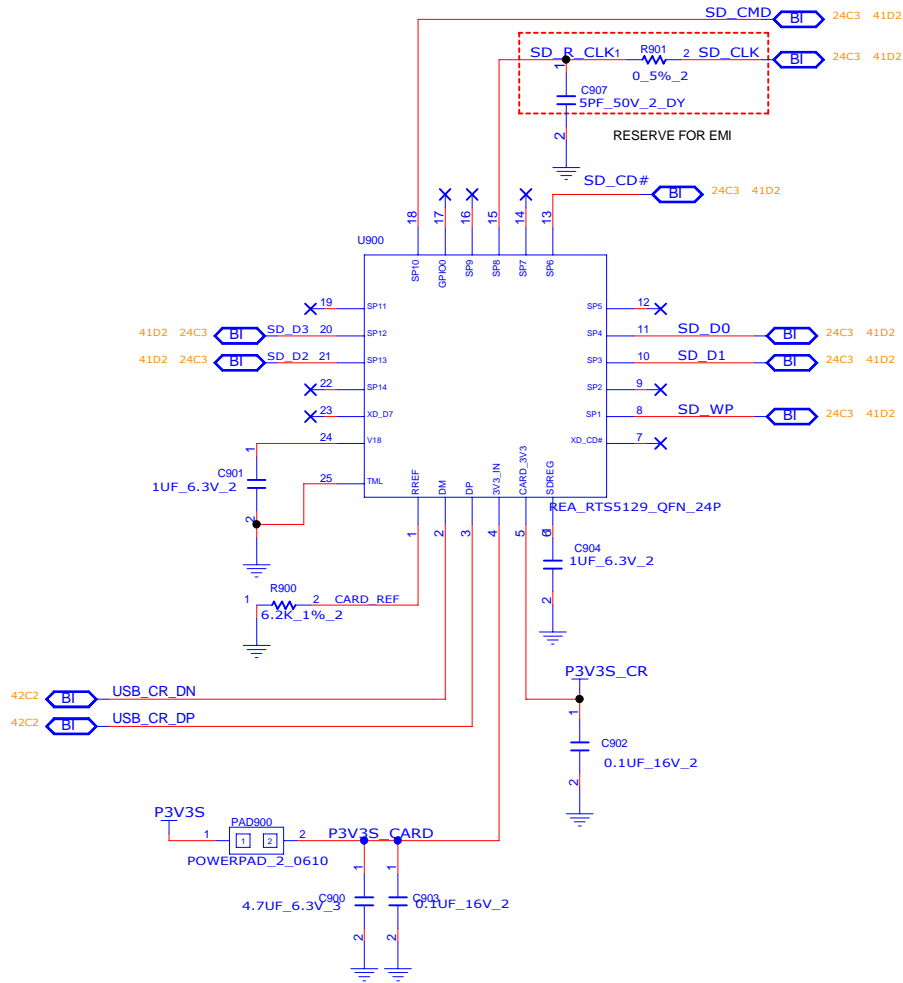
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TITLE			
DA-KAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

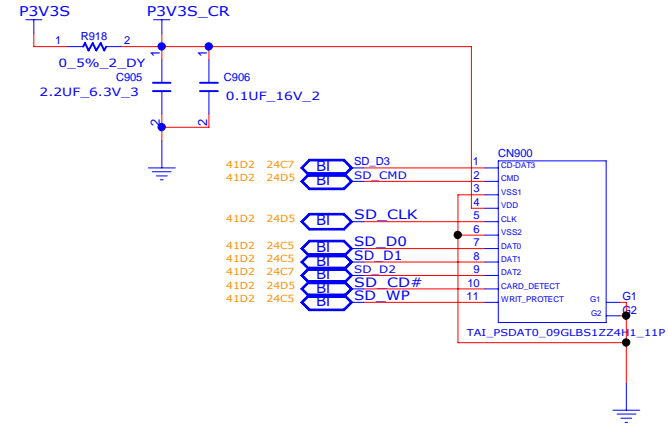
CHANGE by Sky Chang DATE 9-16-2011

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REFERENCE 900-999(CARDREADER)



INTERNAL CARDER



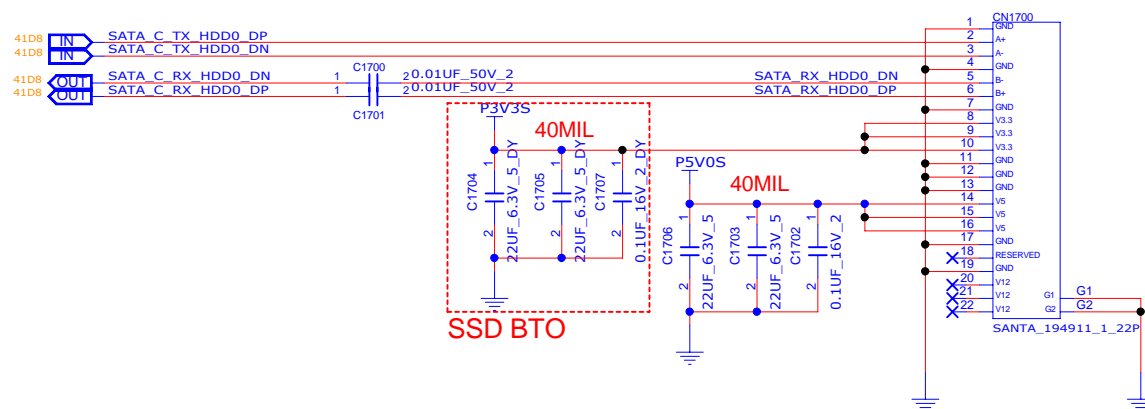
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TITLE			
DAKAR10AC			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

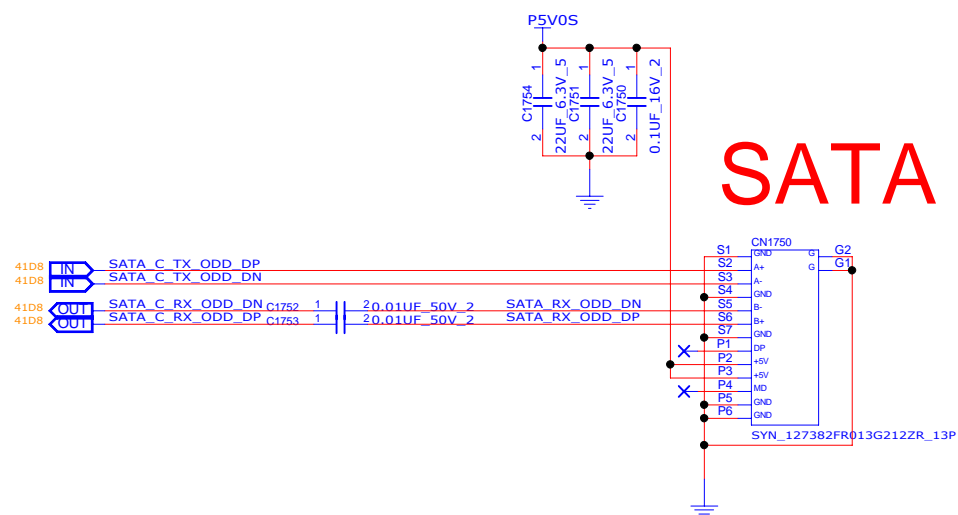
CHANGE by Sky Chang DATE 9-16-2011

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SATA HDD



SATA ODD

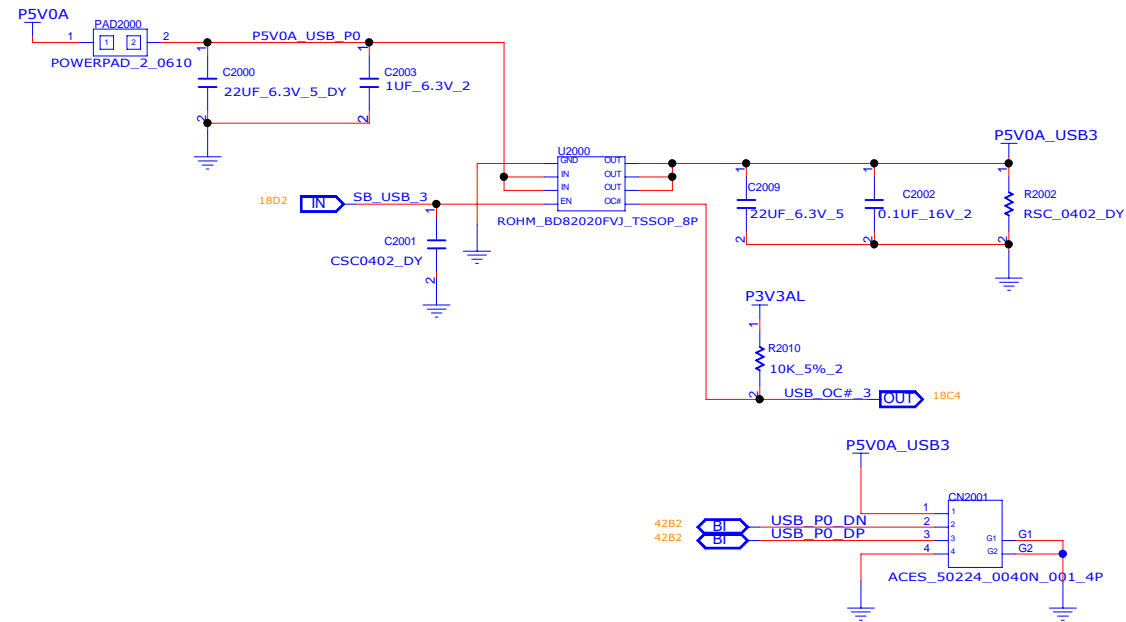


INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310A2492001	REV X01

REFERENCE 2000~2099(USB)

PLACEMENT LEFT SIDE



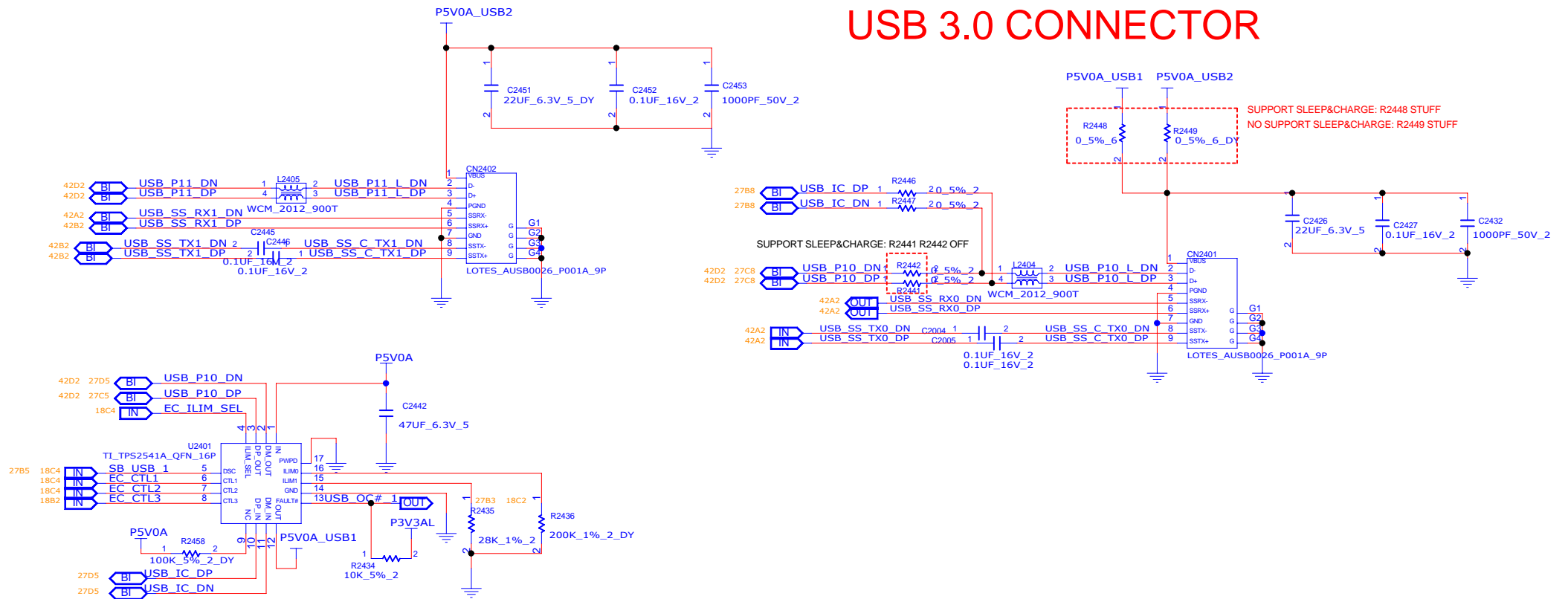
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TITLE
DAKAR10AC
Block Diagram
SIZE A3 CODE CS DOC NUMBER 1310A2492001 REV X01

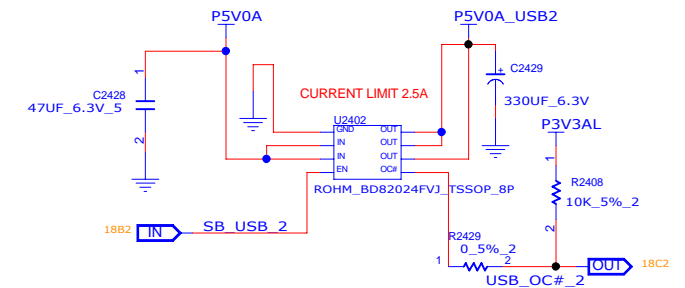
CHANGE by Sky Chang DATE 9-16-2011

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USB 3.0 CONNECTOR



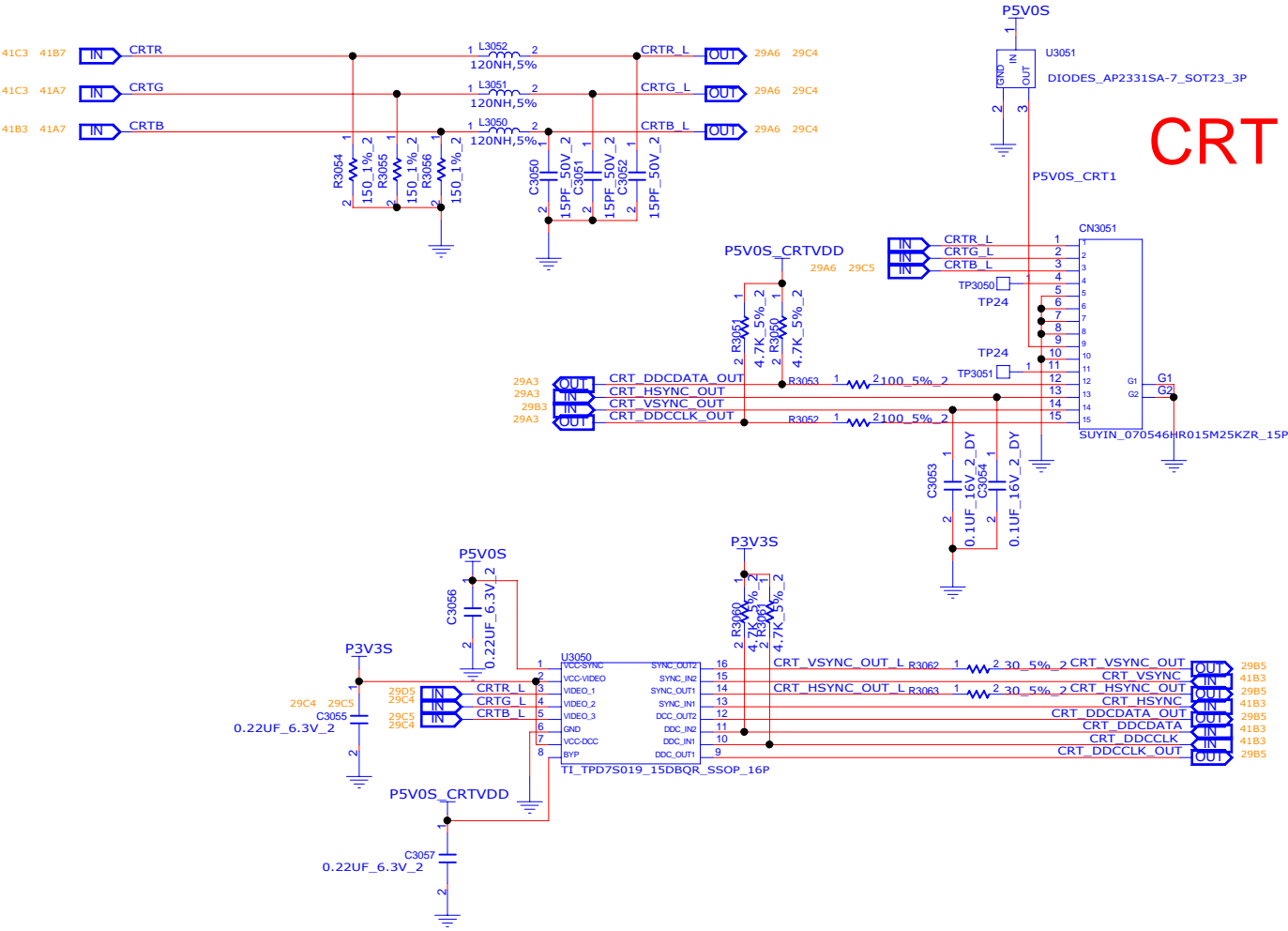
Input Logic Level				Logic Output	
CTL1	CTL2	CTL3	ILIM_SEL	Charging Mode	WAKE Output (active low)
0	0	0	x	OUT discharge, power switch off	off
0	x	1	0	Dedicated charging port, auto-detect	off
0	x	1	1	Dedicated charging port, auto-detect, w/ Mouse/Keyboard detect + pass through enabled (back to auto detect when detached)	active low if DCP load present
x	1	0	x	Standard downstream port, USB 2.0 Mode	off
1	0	0	x	Dedicated charging port, BC1.2 only	off
1	0	1	x	Dedicated charging port, divider	off
1	1	1	0	Standard downstream port, USB 2.0 Mode	off
1	1	1	1	Charging downstream port, BC1.2	active low if CDP load present



INVENTEC

TITLE			
<div> <div>DAKAR10AC</div> <div>Block Diagram</div> </div>			
SIZE A3	CODE CS	DOC.NUMBER 1310A2492001	REV X01

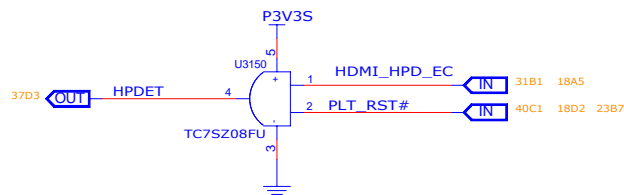
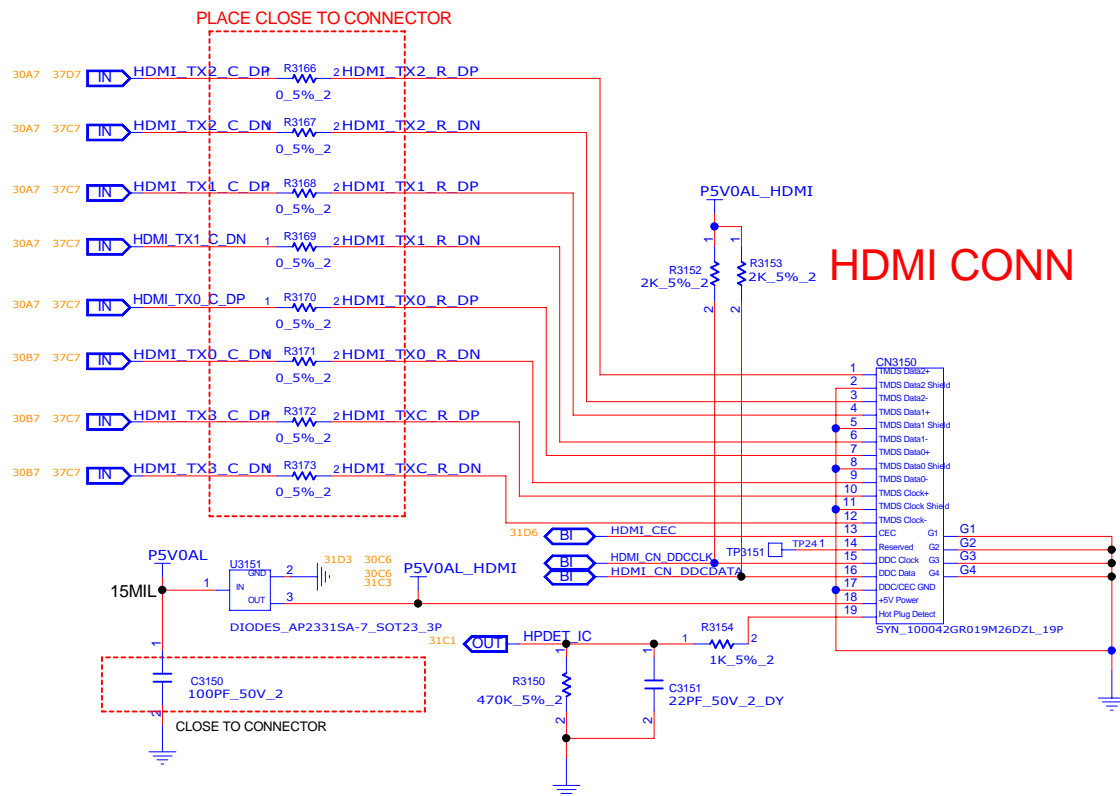
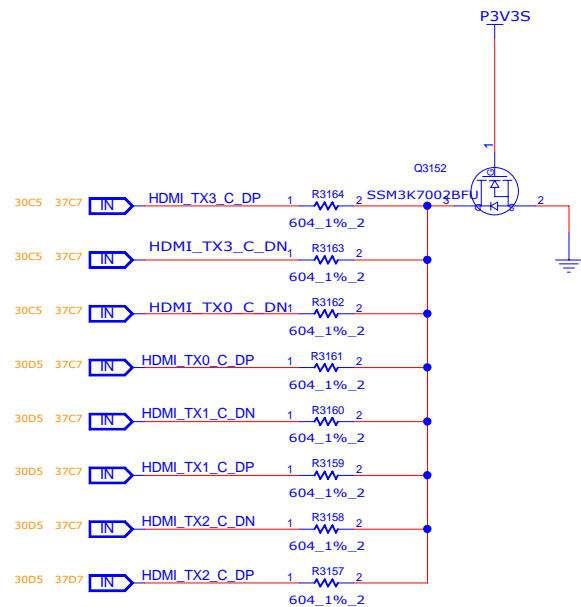
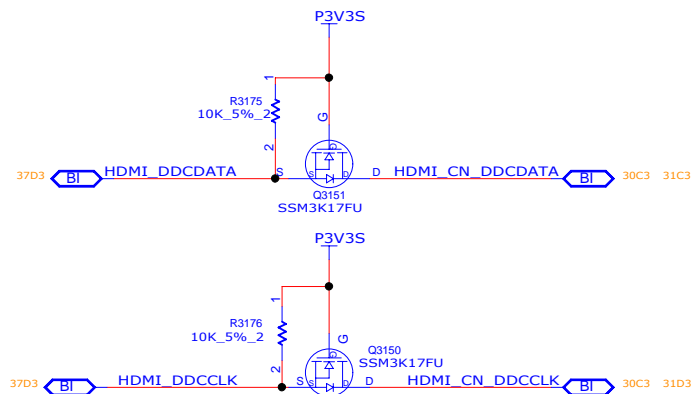
REFERENCE 3050~3099(CRT)



INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

REFERENCE 3150-3199(HDMI)

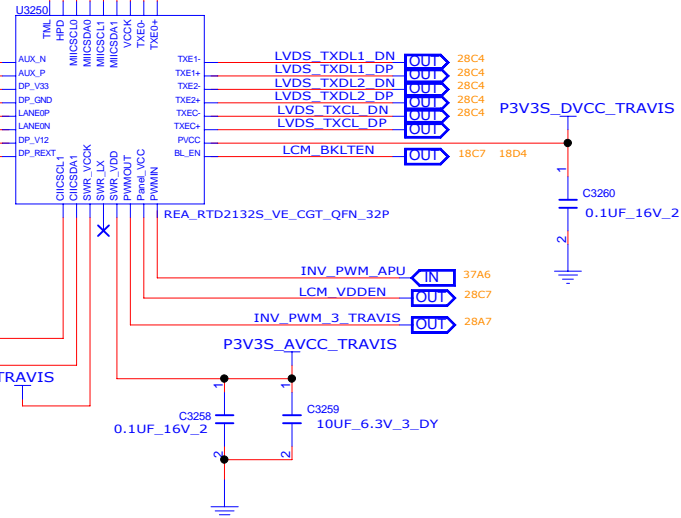
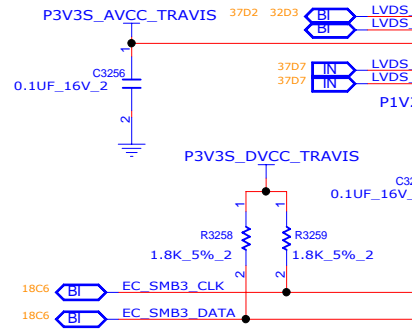
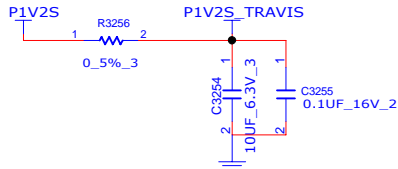
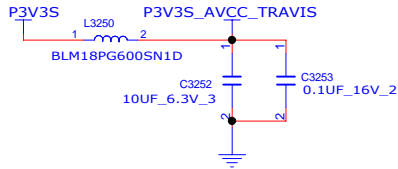
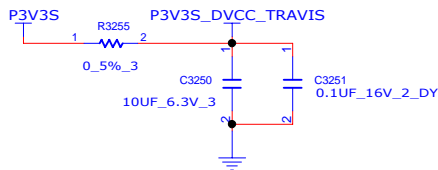
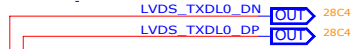
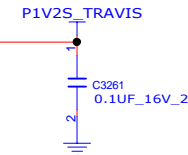
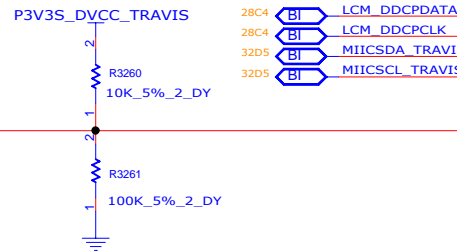
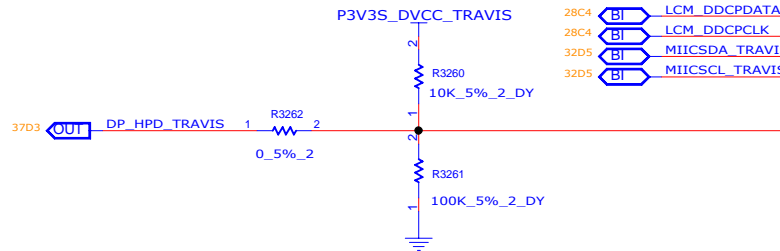
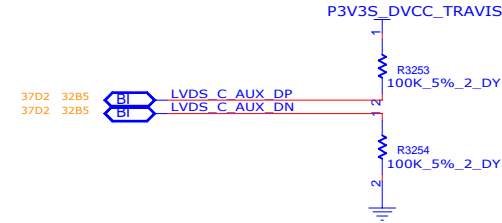
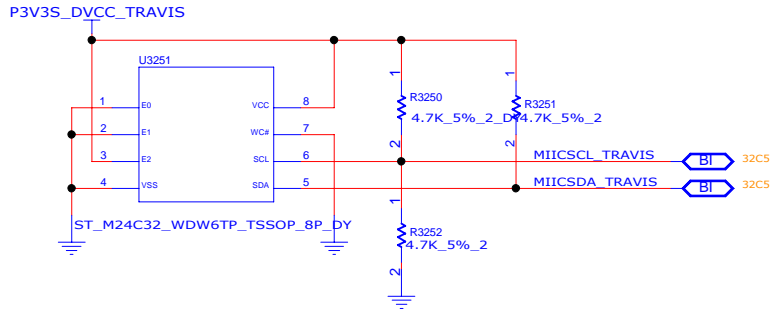


INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

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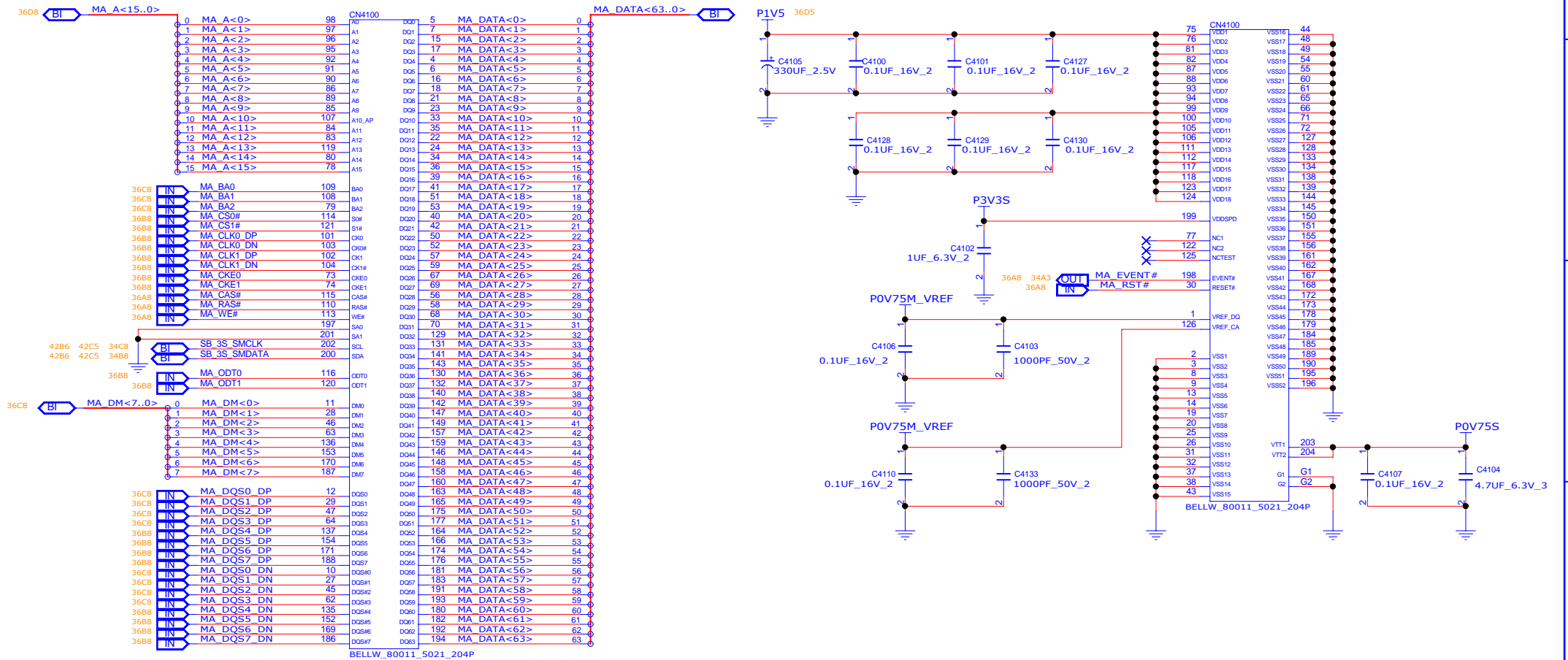
INVENTEC

TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

CHANGE by Sky Chang DATE 9-16-2011

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SO-DIMM 0 SLOT A



INVENTEC

TITLE
DAKAR10AC
Block Diagram

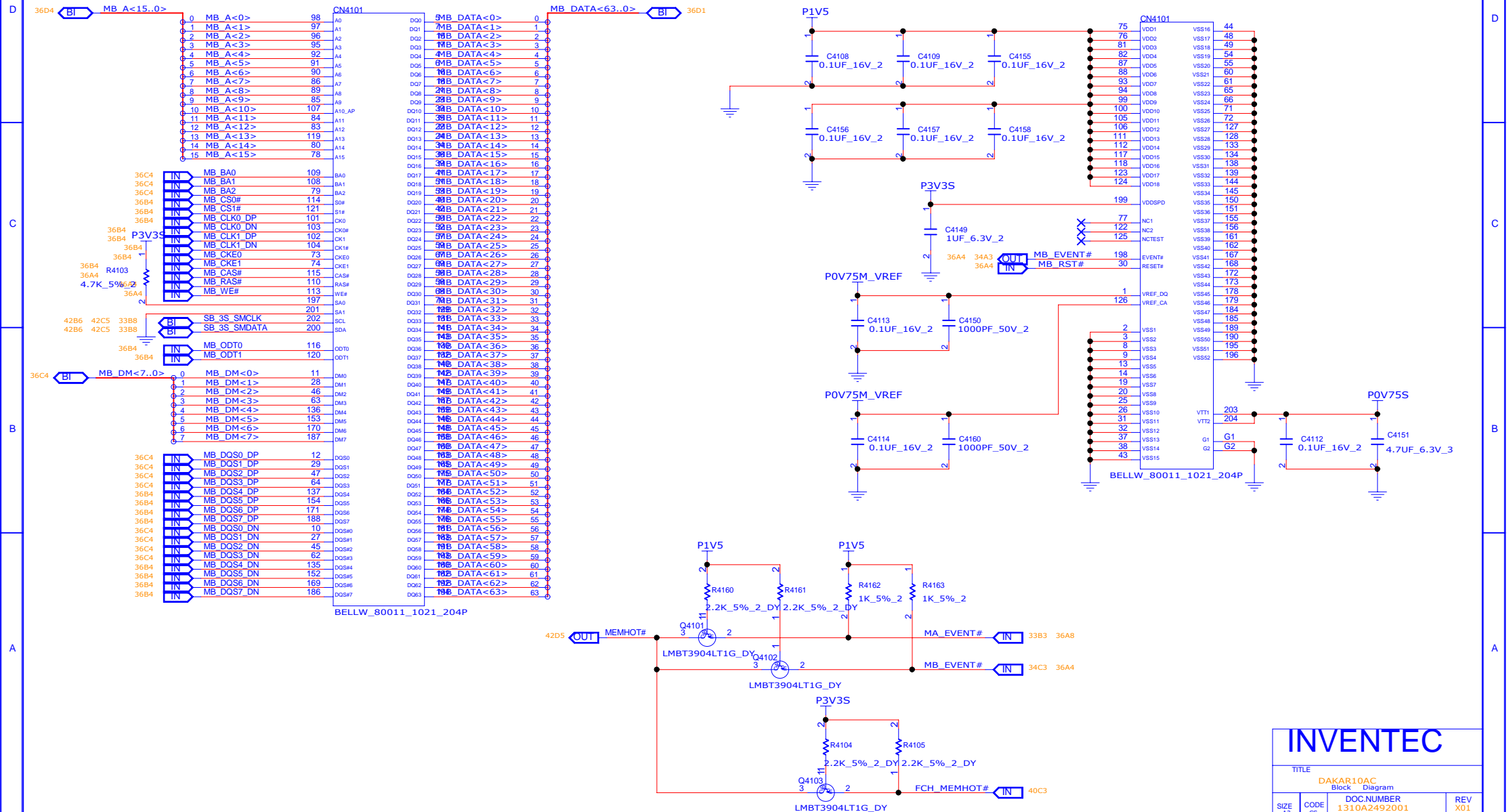
SIZE A3 CODE CS DOC NUMBER 1310A2492001 REV X01

CHANGE by Sky Chang DATE 9-16-2011

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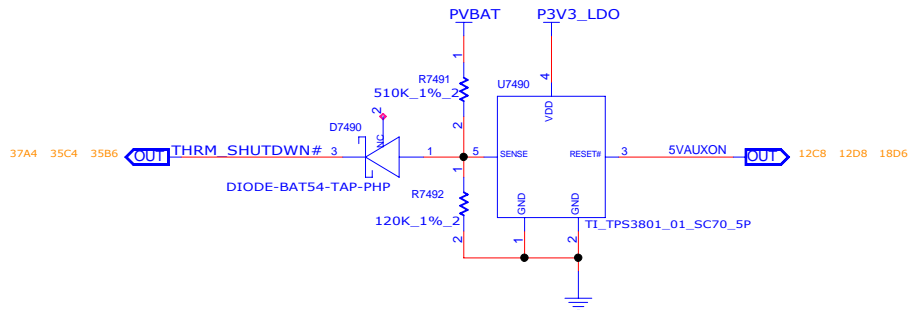
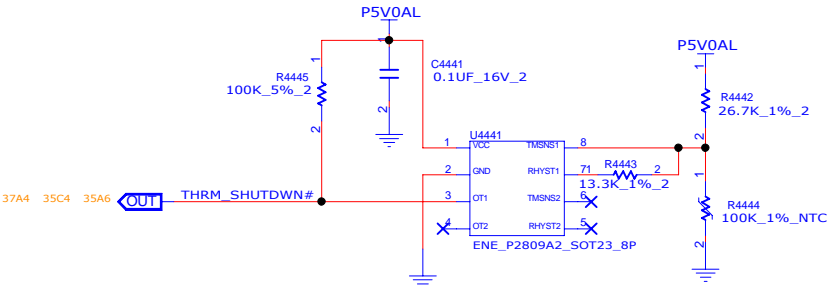
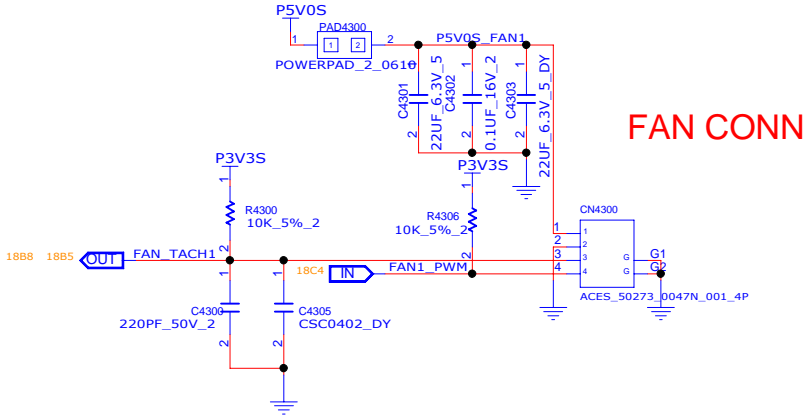
SO-DIMM 1

SLOT B

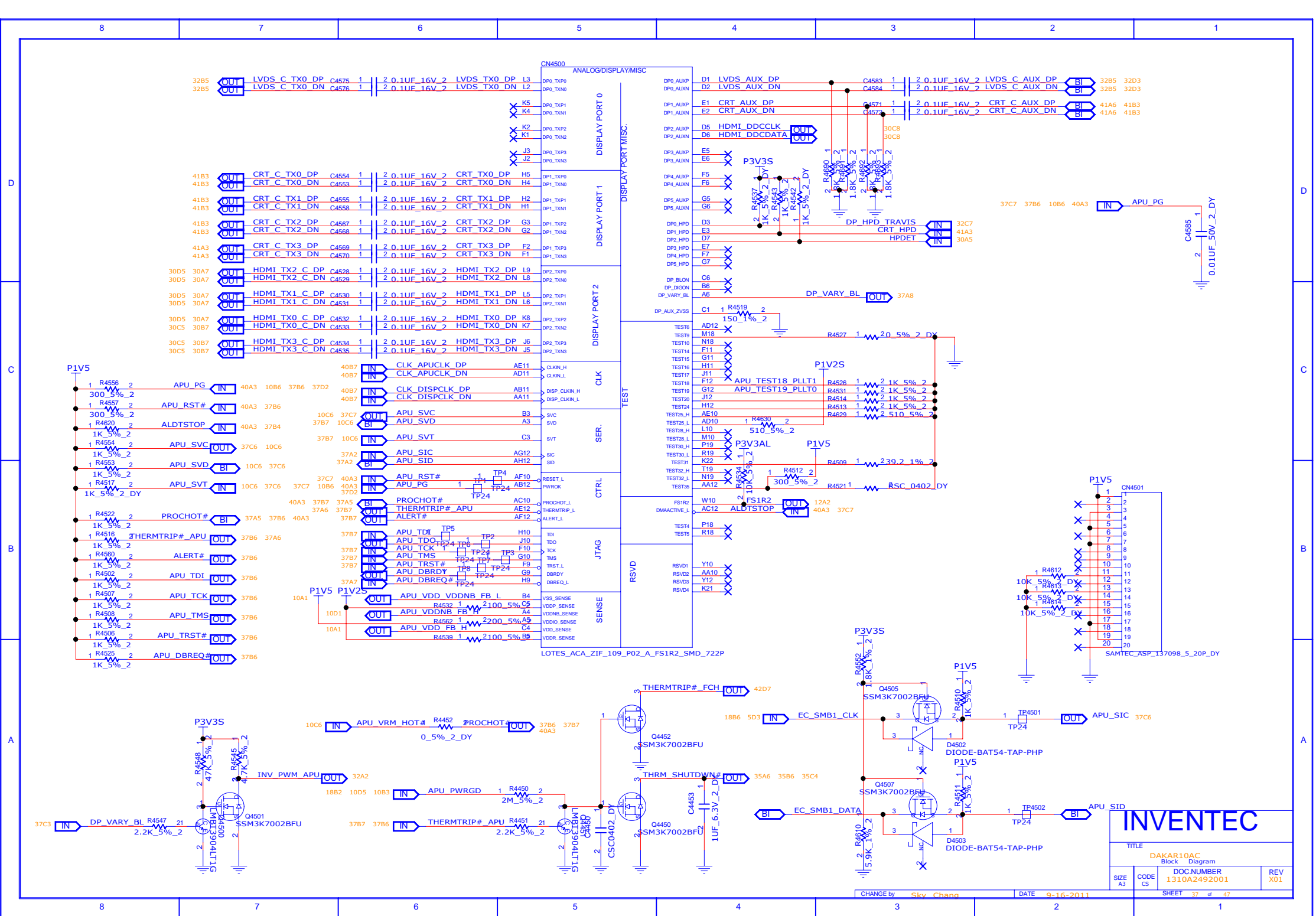


INVENTEC			
TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01
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REFERENCE 4300~4349(FAN)
REFERENCE 4411~4449(G708)



INVENTEC			
TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01



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D

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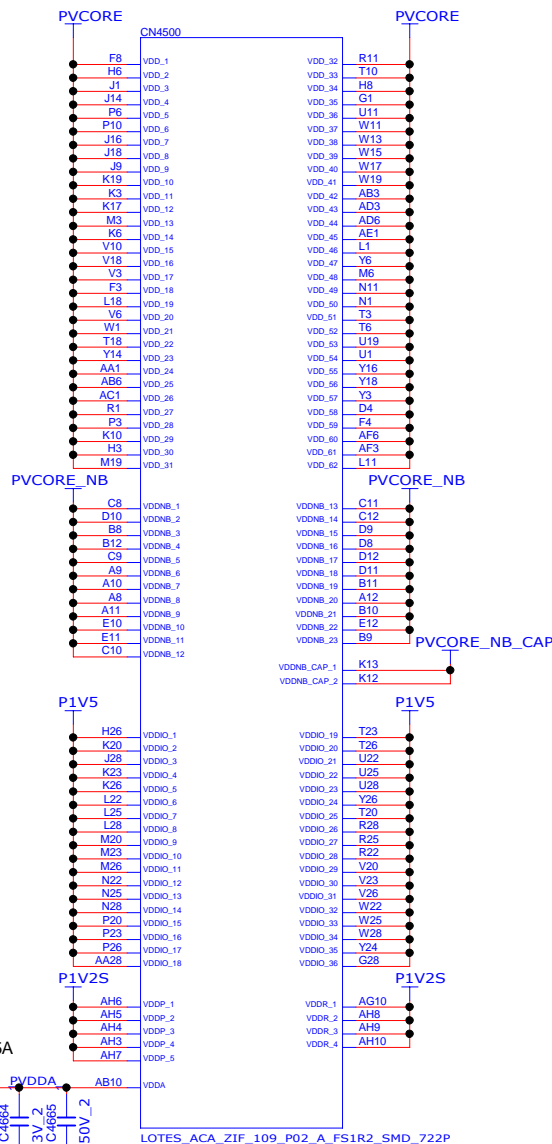
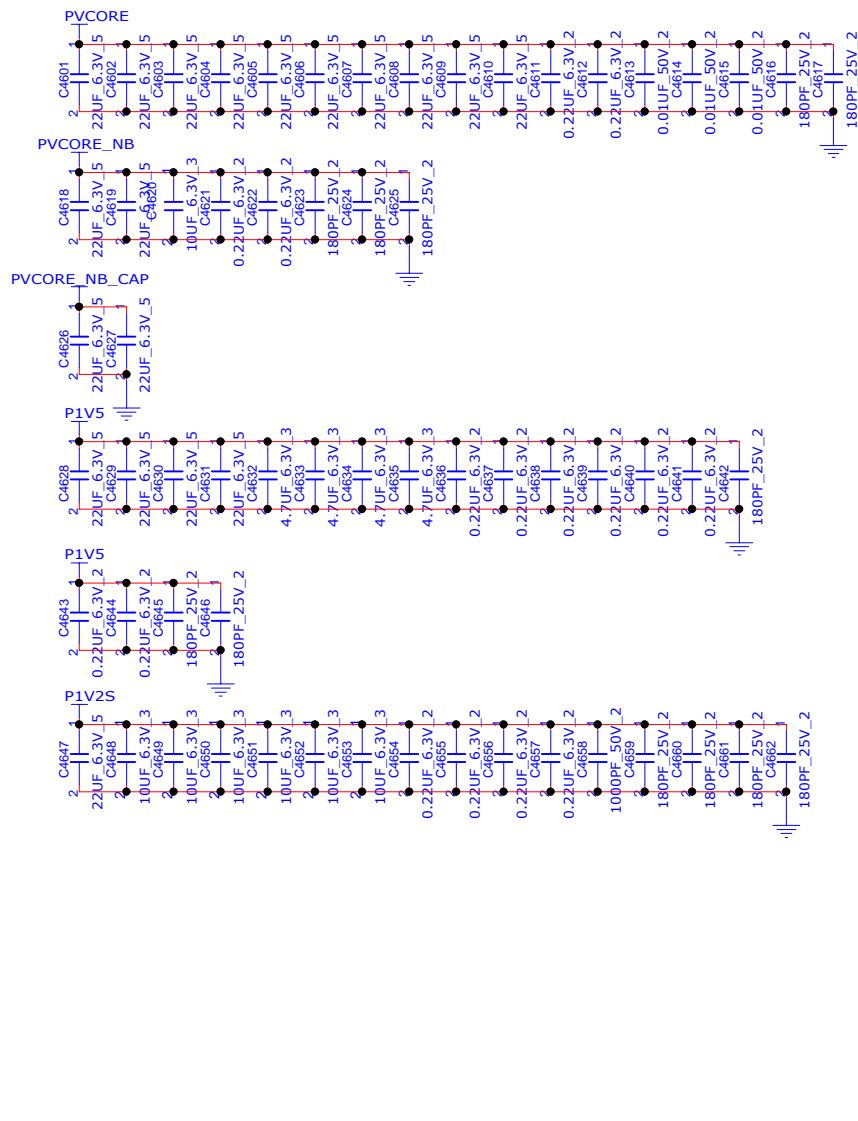
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INVENTEC

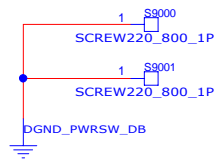
TITLE			
DAKAR10AC Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2492001	X01

CHANGE by Sky Chang DATE 9-16-2011

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Schematic diagram of the SW3000 MOSFET driver circuit. The circuit includes a MOSFET (SW3000) with its gate connected to MISAKI_NTC017_DA1G_E160T_6P and its source connected to DGNDD_PWSRW_DB. The drain is connected to a load (D9000) and a 1000PF_50V_2 capacitor. The load is connected to PADS9000 and PADS9001, which are connected to SMCPAD_1P_40X120.



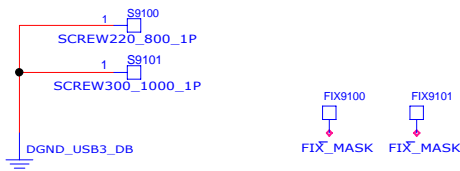
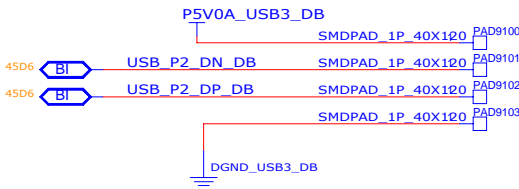
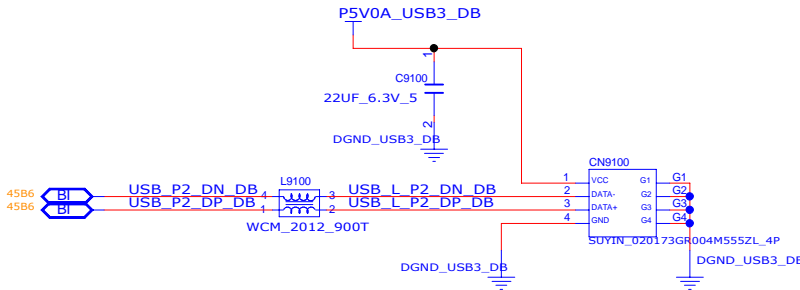
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DAKAR10AC Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310A2492001	R X
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CHANGE by	Sky Chang	DATE	9-16-2011
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USB BOARD



INVENTEC

TITLE

DAKAR10AC

Block Diagram

SIZE A3	CODE 66	DOC.NUMBER 1310A2492001
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REV
X01

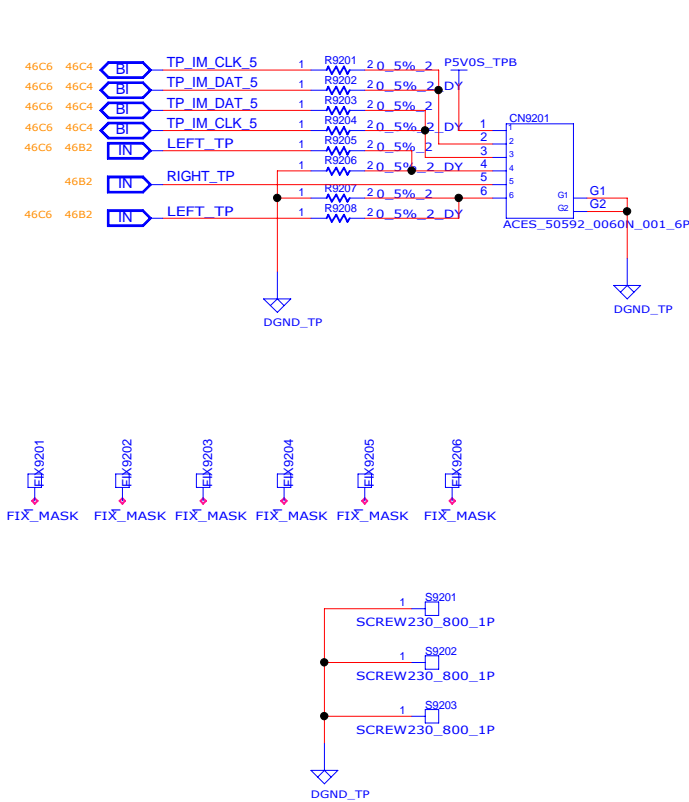
CHANGE by Sky Chang

DATE 9-16-2011

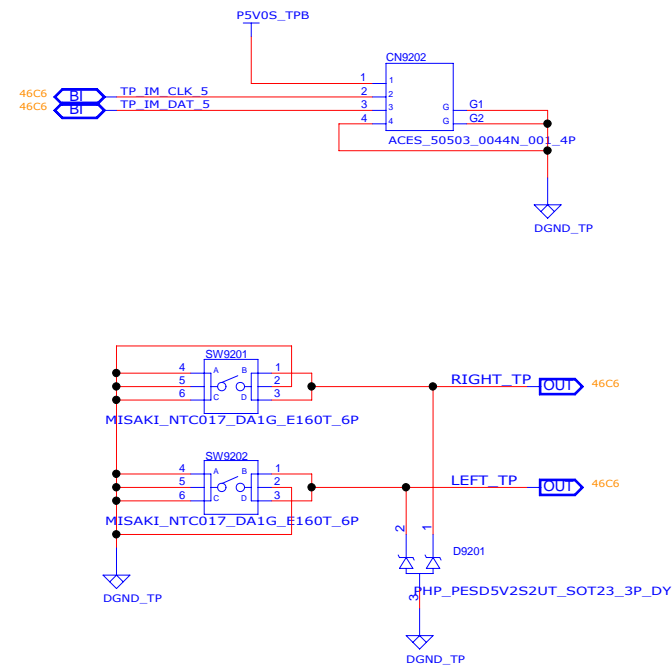
SHEET 45 of 47

TPUCH PAD BOARD

TOUCHPAD TO MODULE CONN



TOUCHPAD TO MB CONN



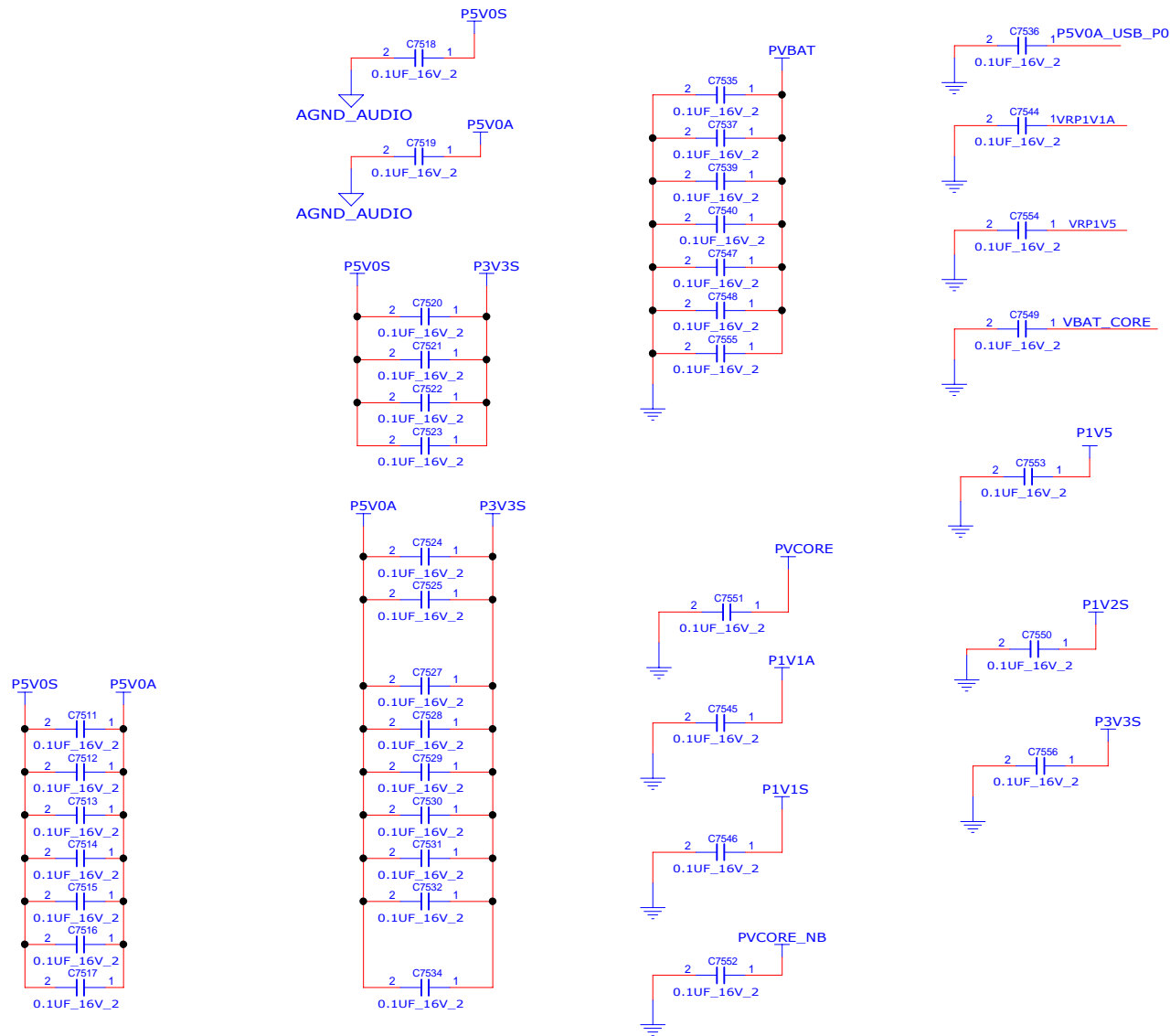
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TITLE			
DAKAR10AC Block Diagram			
SIZE A3	CODE CS	DOC NUMBER 1310A2492001	REV X01

CHANGE by Sky Chang DATE 9-16-2011

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EMI CAP



INVENTEC

TITLE			
<p style="text-align: center;"> DAKAR10AC Block Diagram </p>			
SIZE A3	CODE CS	DOC.NUMBER 1310A2492001	REV X01