

Calcutta 10AD

A01 Build

2010.04.07

INVENTEC			
TITLE Calcutta 10AD			
SIZE A3	CODE CS	DOC. NUMBER 1310A2357601	REV X01

CHANGE by JASON WANG 7-Apr-2010

SHEET 1 OF 44

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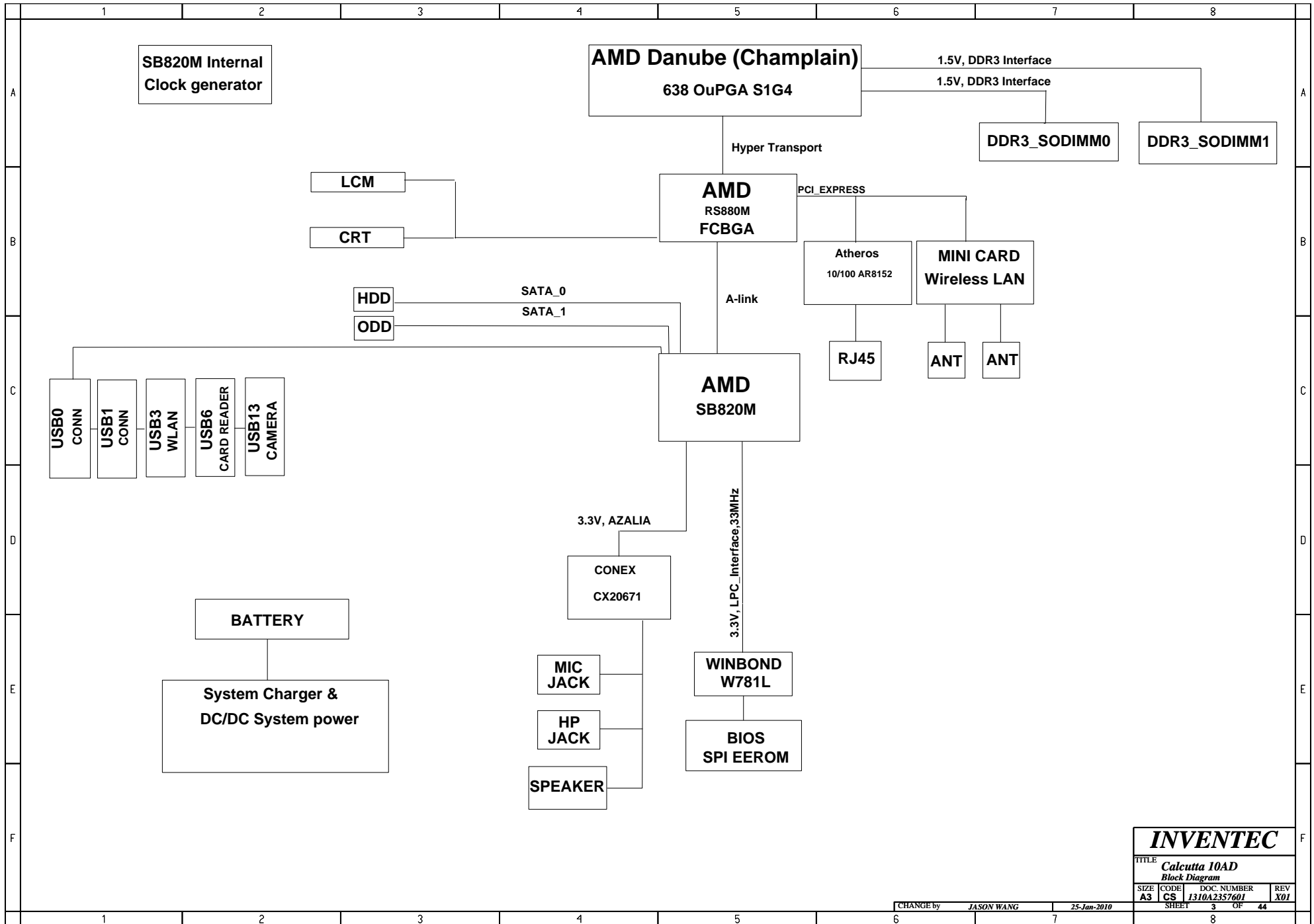
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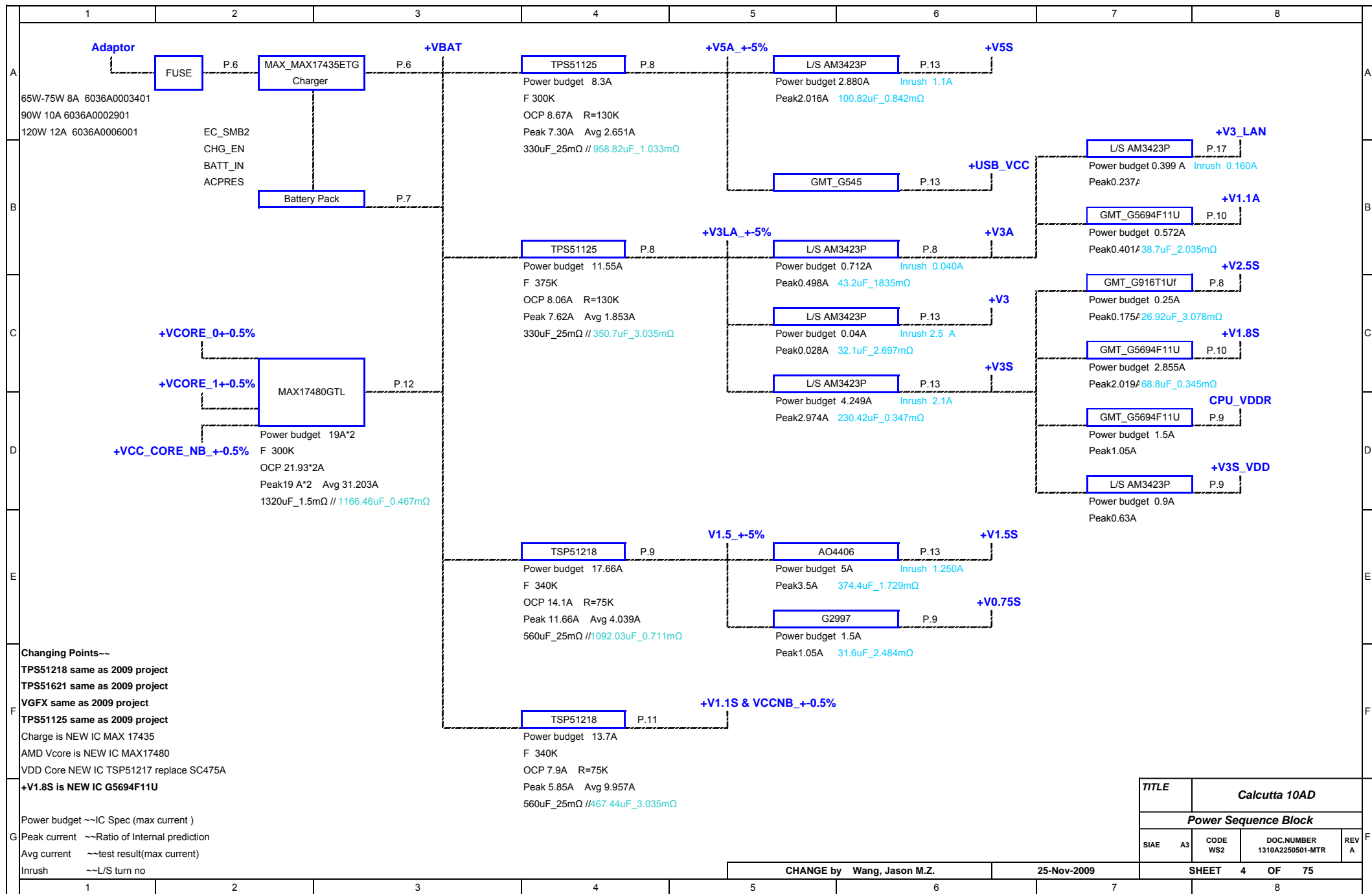
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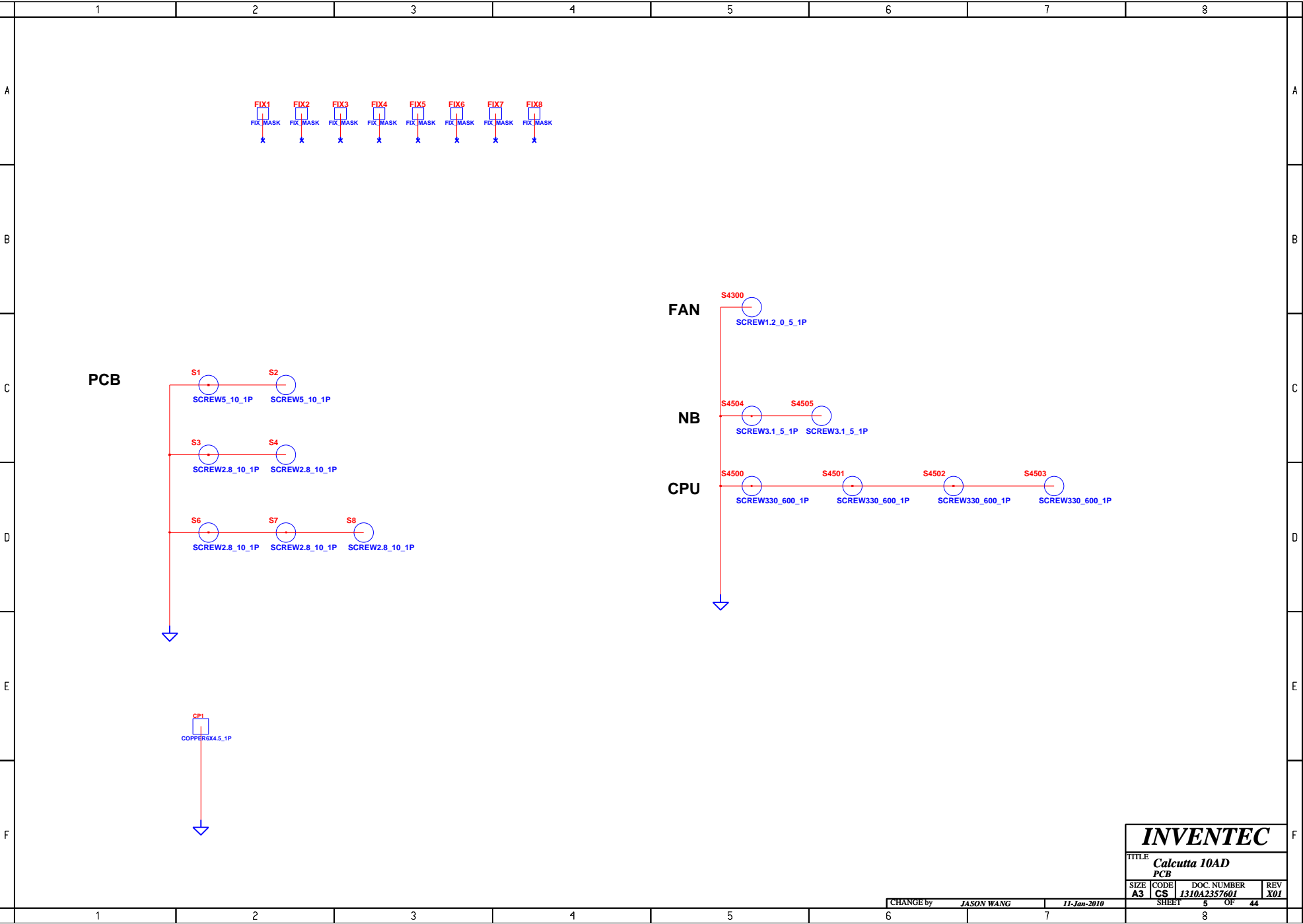
INVENTEC

TITLE			
Calcutta 10AD			
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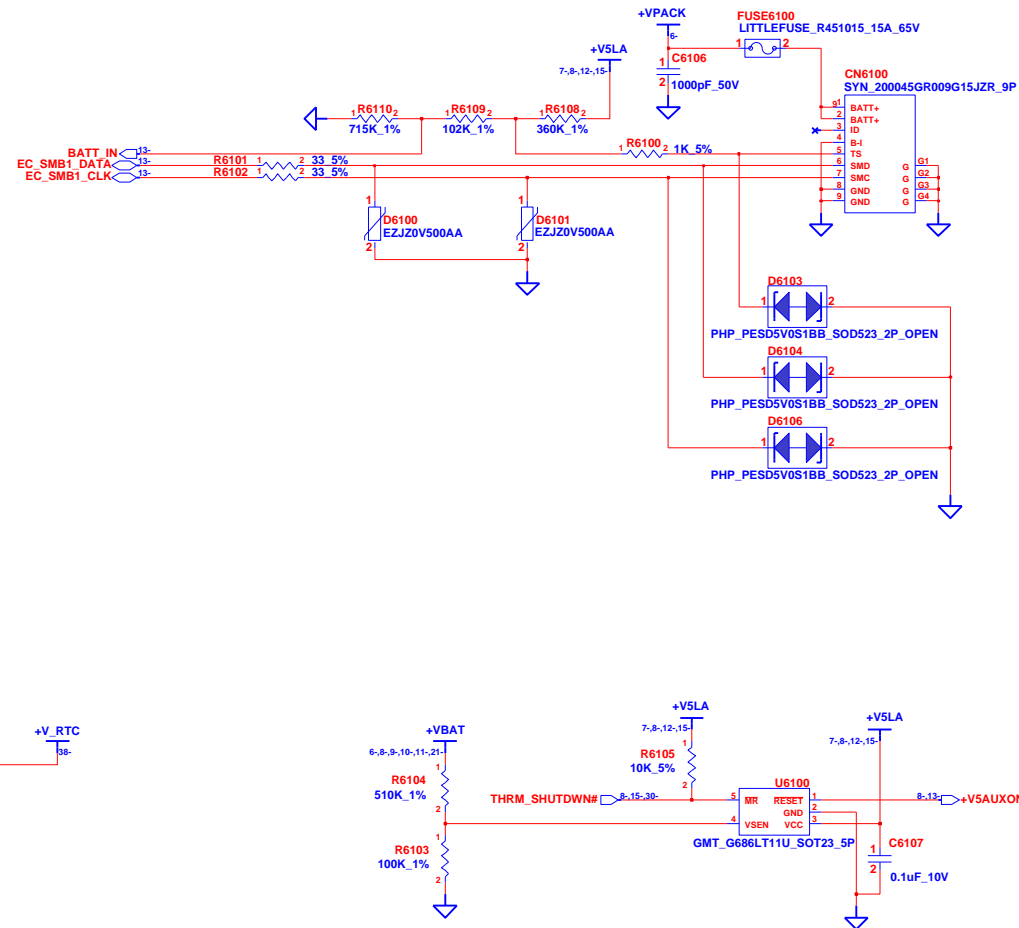


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TITLE **Calcutta 10AD**
PCB

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A3	CS	1310A2357601	X01

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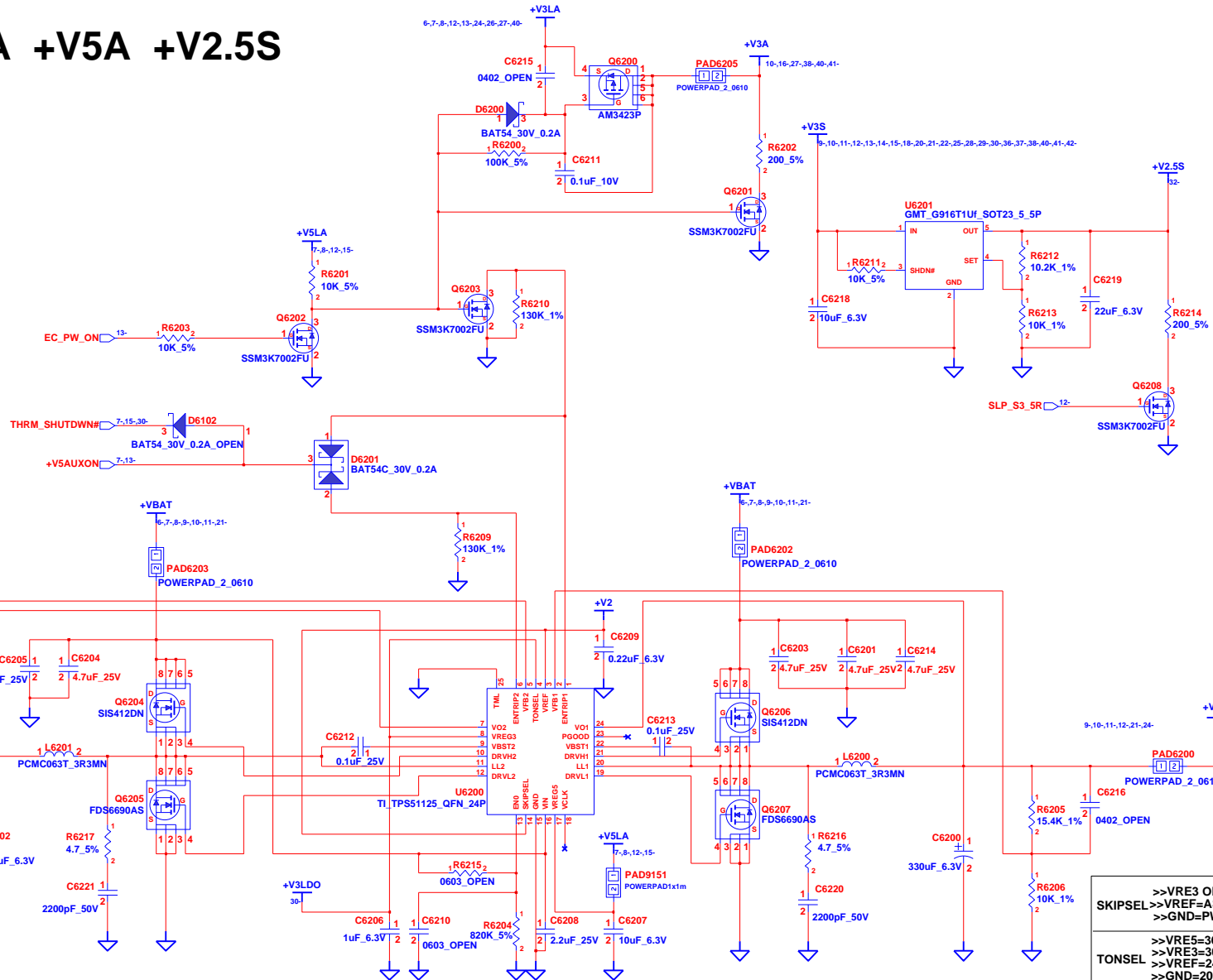


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TITLE			
Calcutta 10AD			
Battery, Reset IC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2337601	X01
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+V3LA +V3A +V5A +V2.5S



>>VRE3 OR VRE5=OOA
 SKIPSEL>>VREF=ASKIP
 >>GND=PWM
 >>VRE5=365/460
 >>VRE3=300/375
 TONSEL
 >>VREF=245/305
 >>GND=200/250

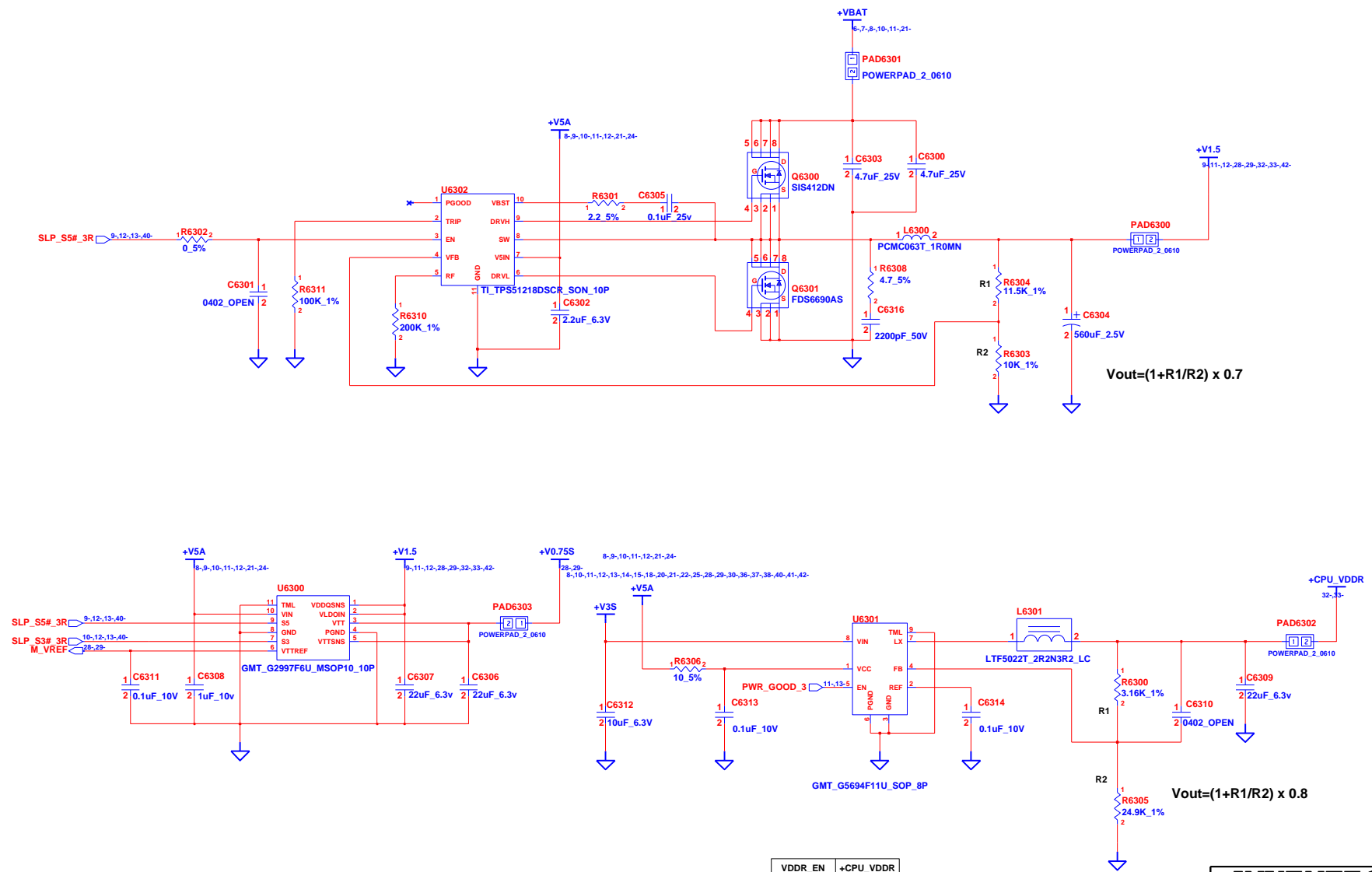
INVENTEC

TITLE
Calcutta 10AD
 +V3LA, +V3A, +V5A, +V2.5S
 SIZE CODE DOC NUMBER REV
 A3 CS 1310A2357601 X01

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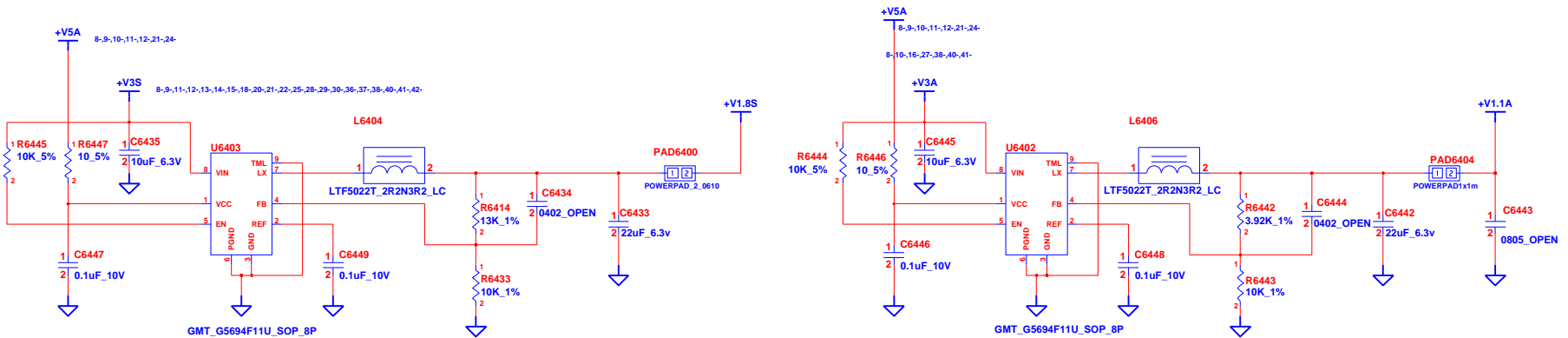
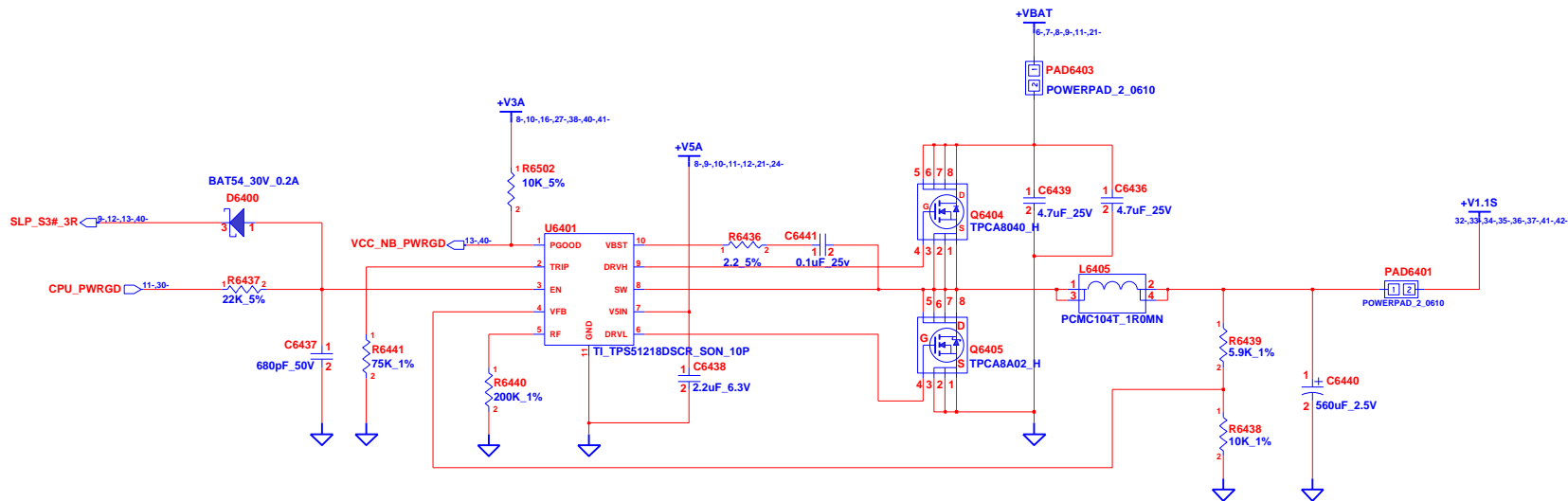
+CPU_VDDR +V0.75 +V1.5



VDDR_EN	+CPU_VDDR
0	0.9V
1	1.05V

INVENTEC			
TITLE: Calcutta 10AD			
+CPU_VDDR, +V0.75, +V1.5			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2357601	REV: X01
CHANGE by: JASON WANG		11-Jan-2010	
SHEET: 9		OF: 44	

+V1.1A +V1.1S +V1.8S



INVENTEC

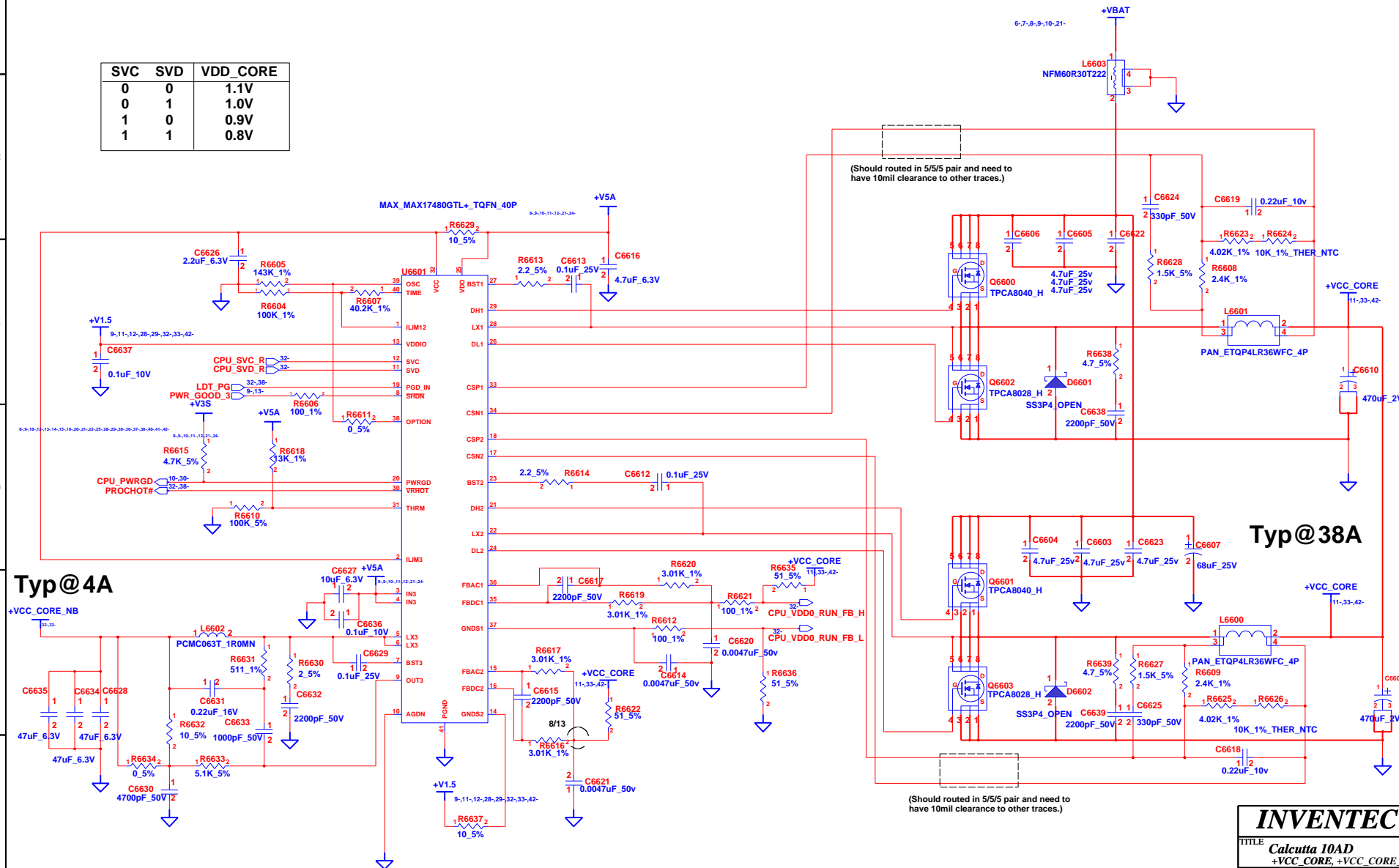
TITLE
Calcutta 10AD
+V1.1A, +V1.1S, +V1.8S

SIZE CODE DOC NUMBER REV
A3 CS 1310A2337601 X01

CHANGE by JASON WANG 11-Jan-2010

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SVC	SVD	VDD_CORE
0	0	1.1V
0	1	1.0V
1	0	0.9V
1	1	0.8V



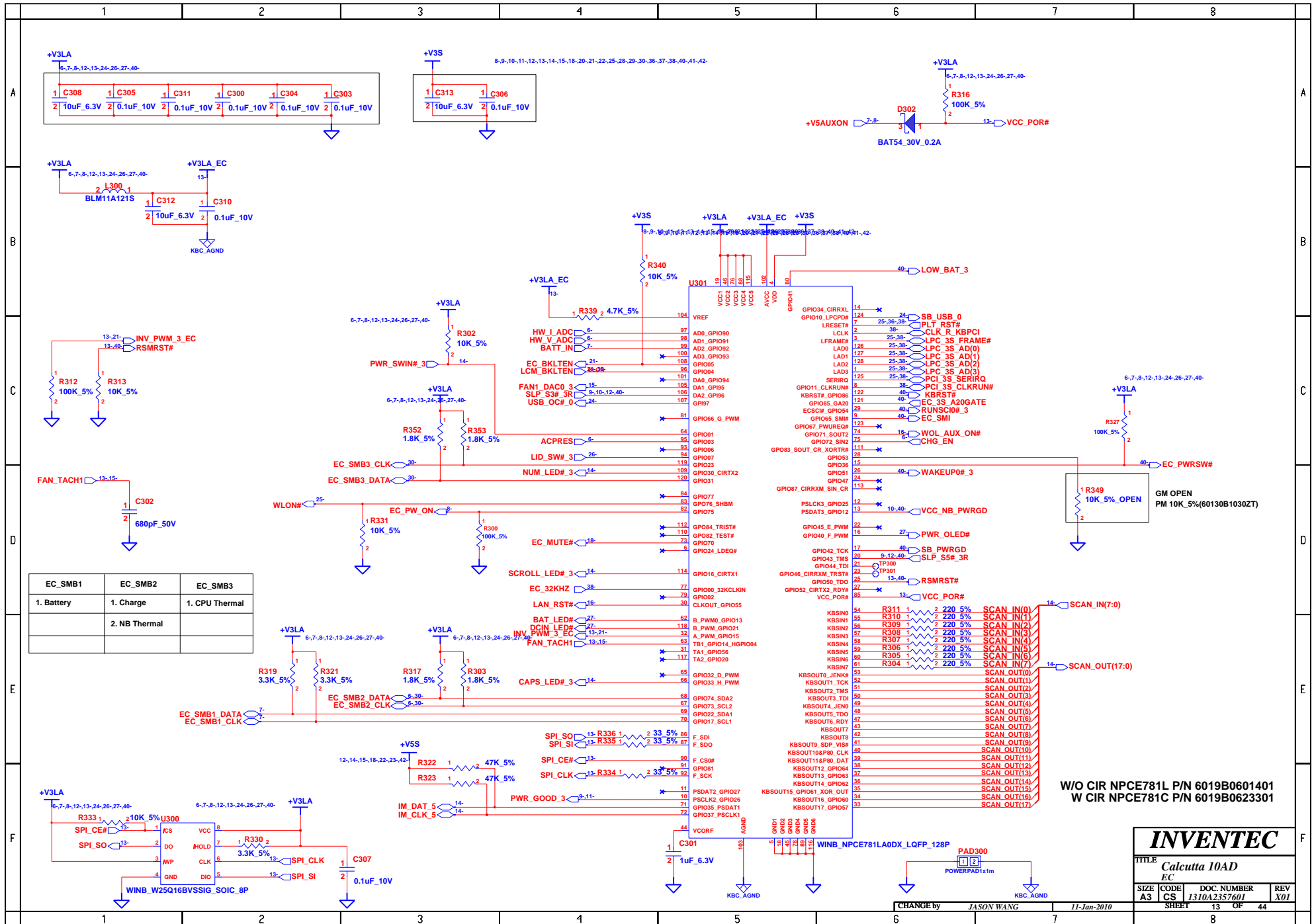
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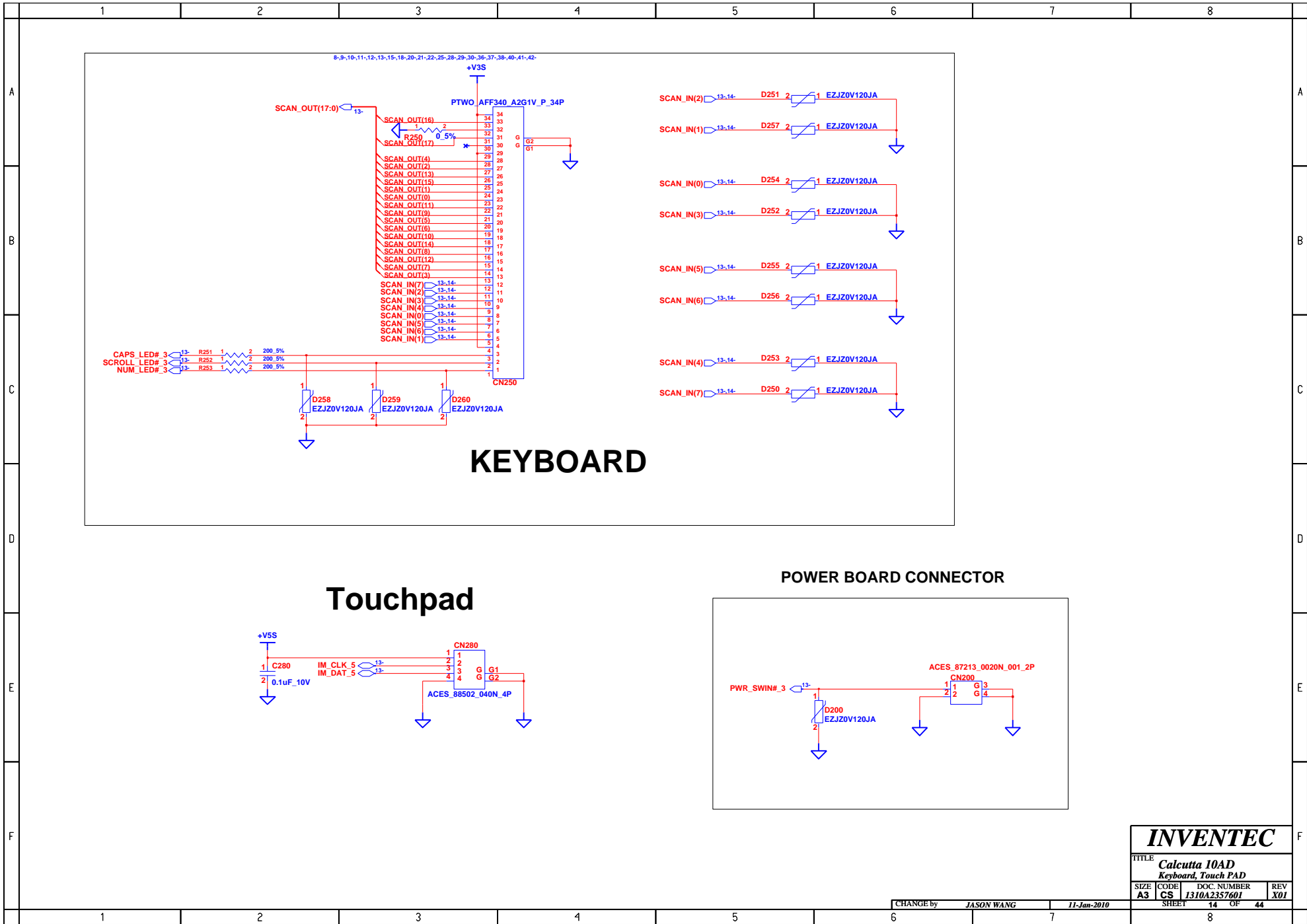
TITLE			
Calcutta 10AD			
+VCC_CORE, +VCC_CORE_NB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2337601	X01

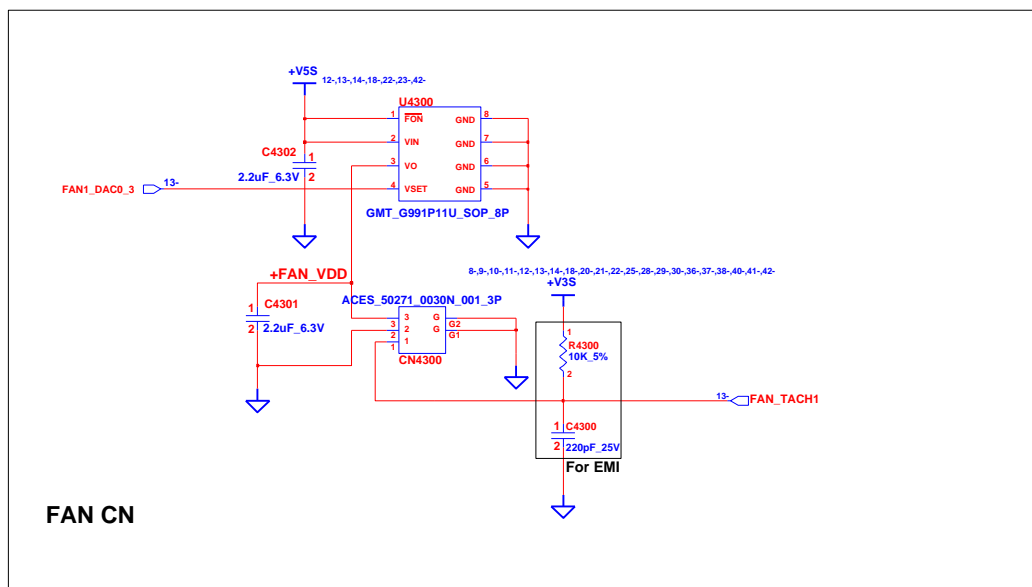
CHANGE by JASON WANG 11-Jan-2010

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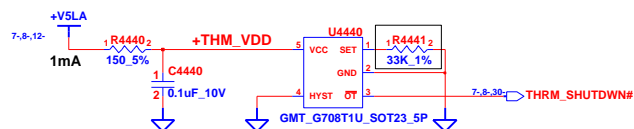
[illegible][illegible]







Board Thermal Sensor

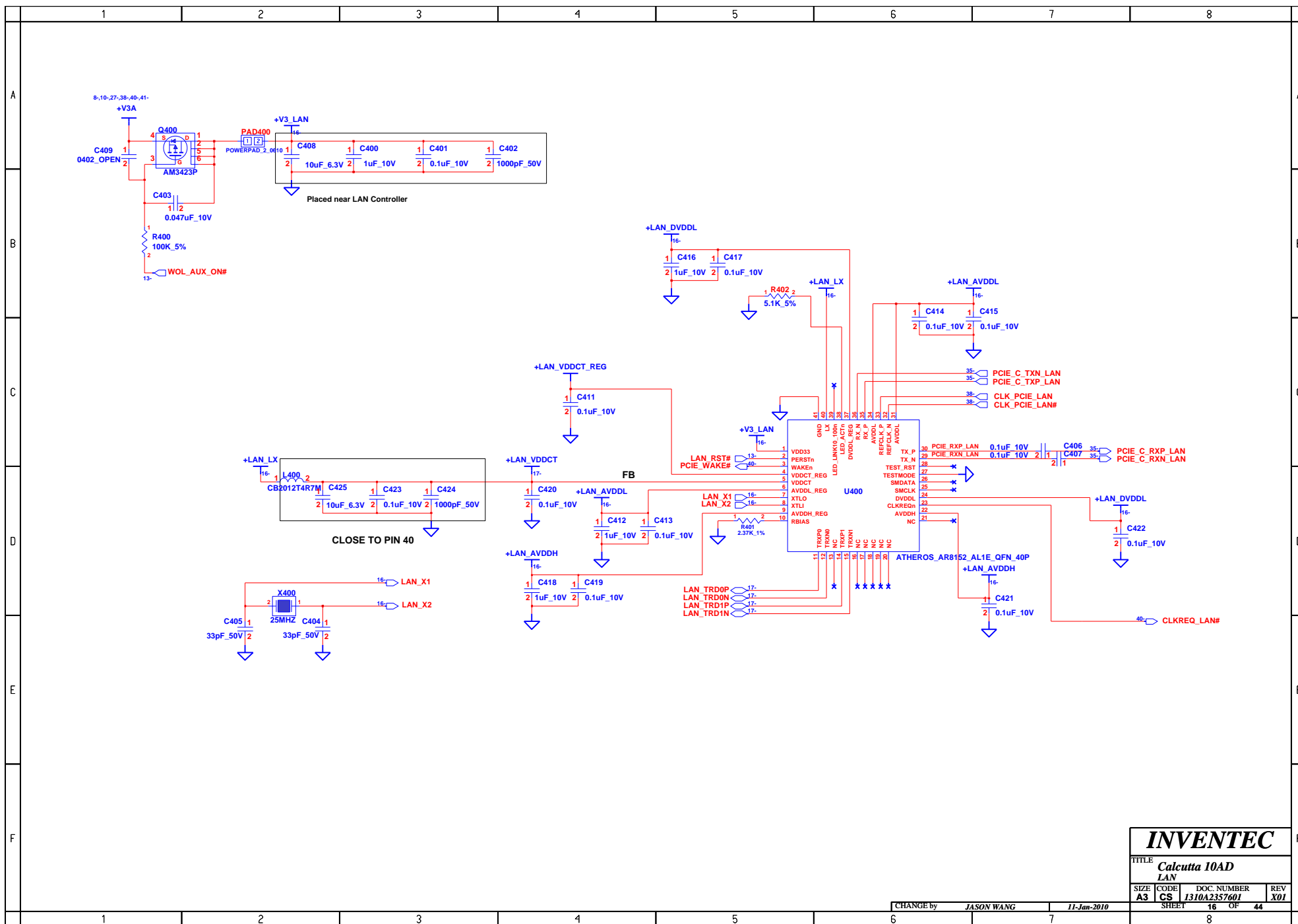


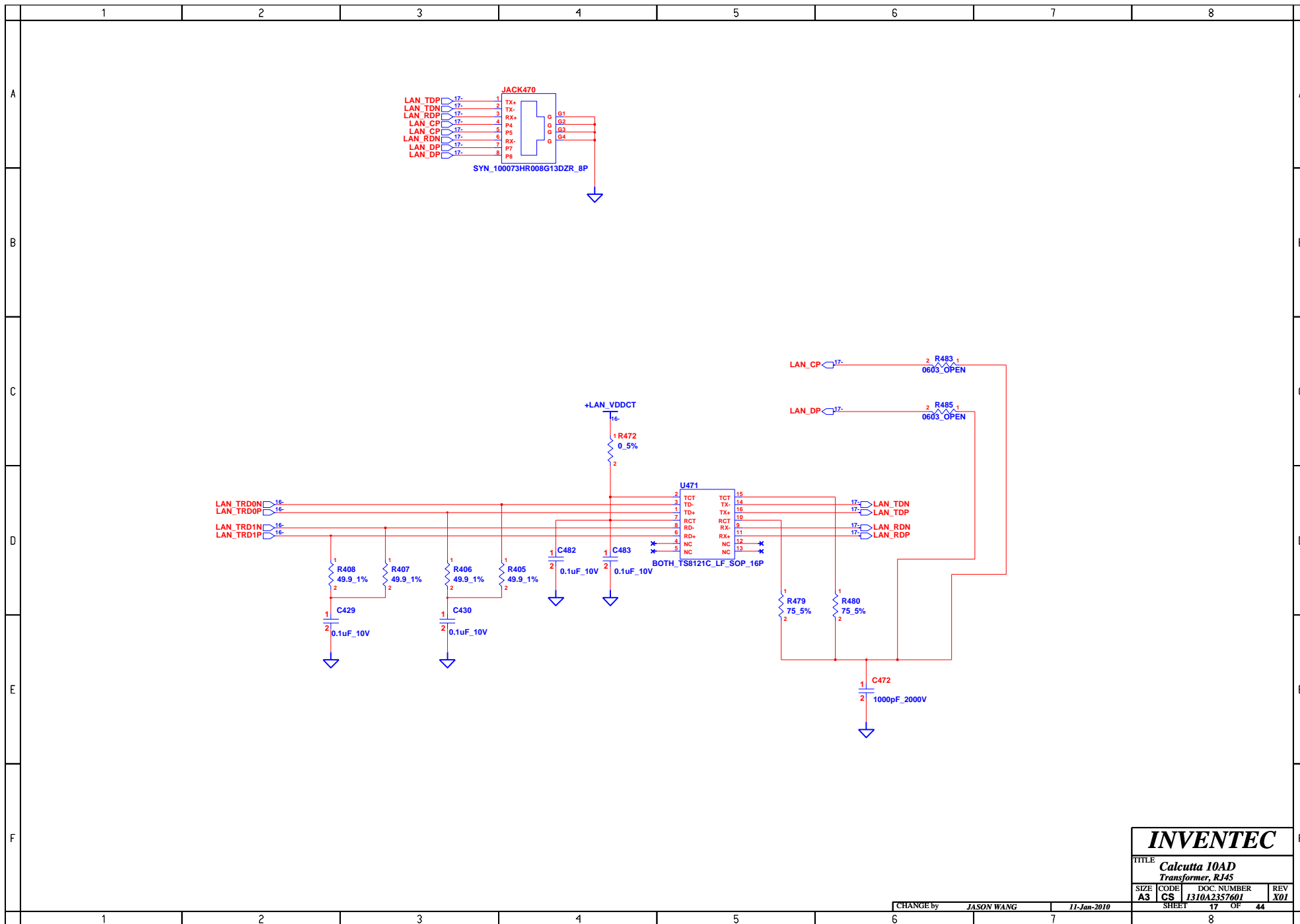
Thermal shutdown at 75 C° +/-3 C° from 60 C° to 100 C°

$$RSET = 0.0012 * T^2 - 0.9308 * T + 96.147$$

Hysteresis is 30C

INVENTEC			
TITLE			
Calcutta 10AD			
FAN, Thermal controller			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357601	X01
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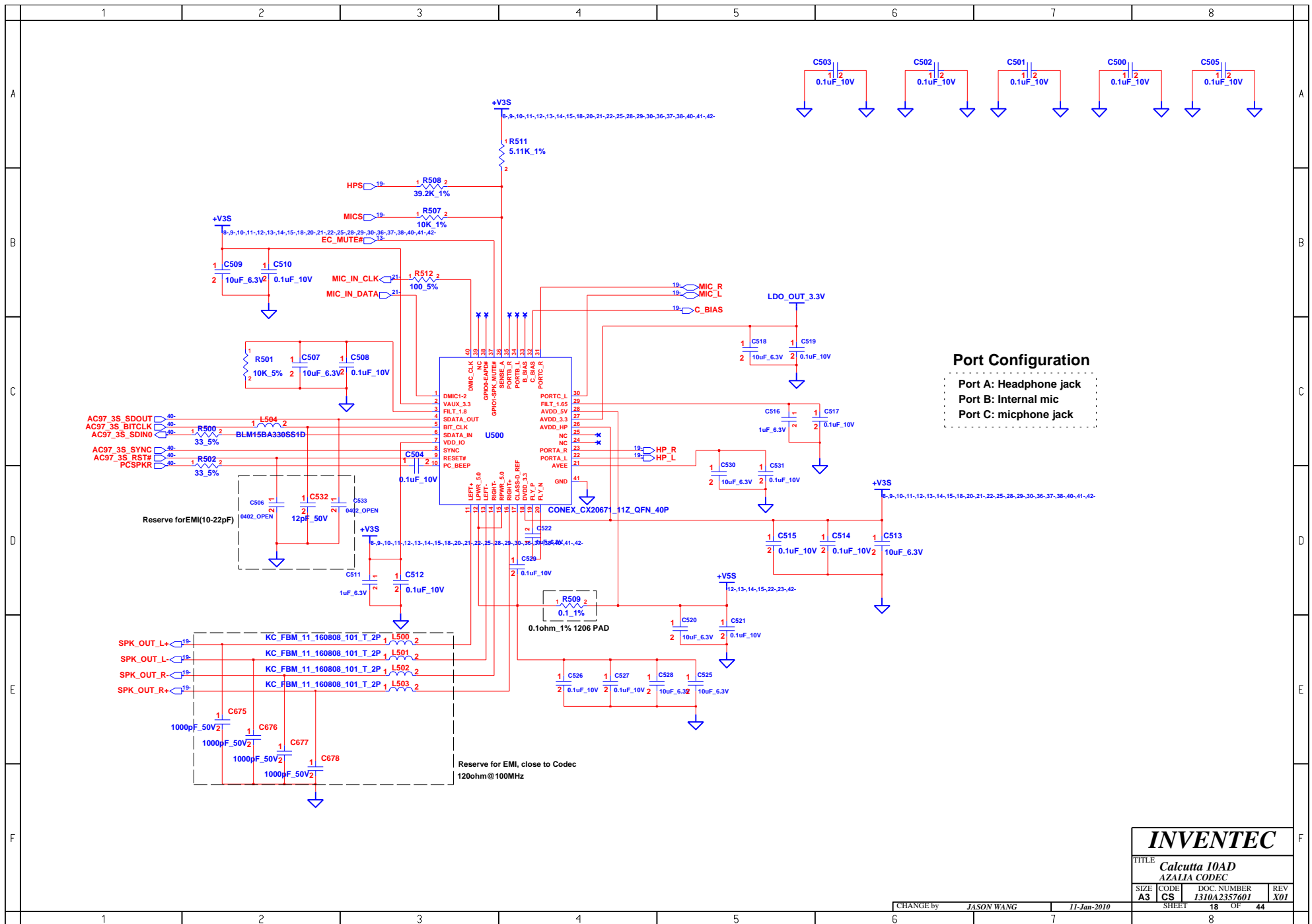




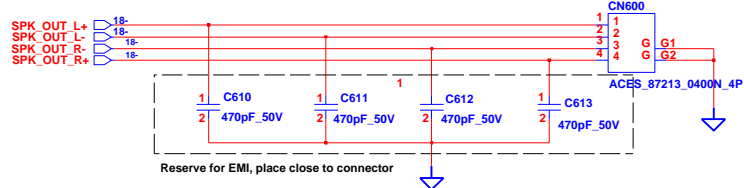
INVENTEC

TITLE			
Calcutta 10AD			
Transformer, RJ45			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2337601	X01
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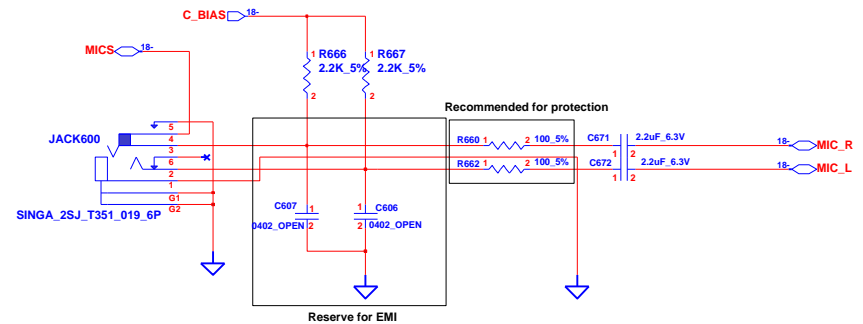


INTERNAL SPEAKERS

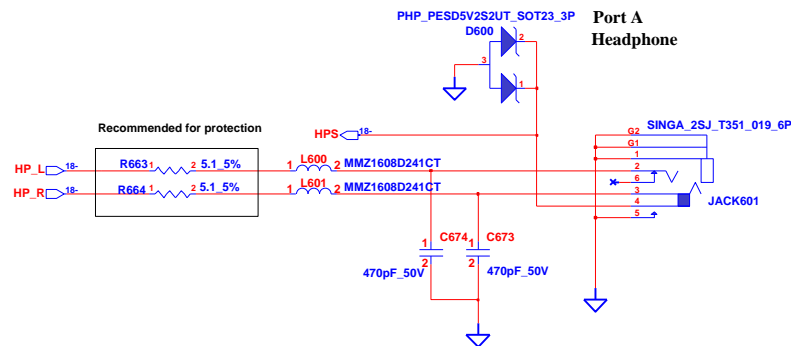


AUDIO JACKS

Port C
External microphone



Port A
Headphone

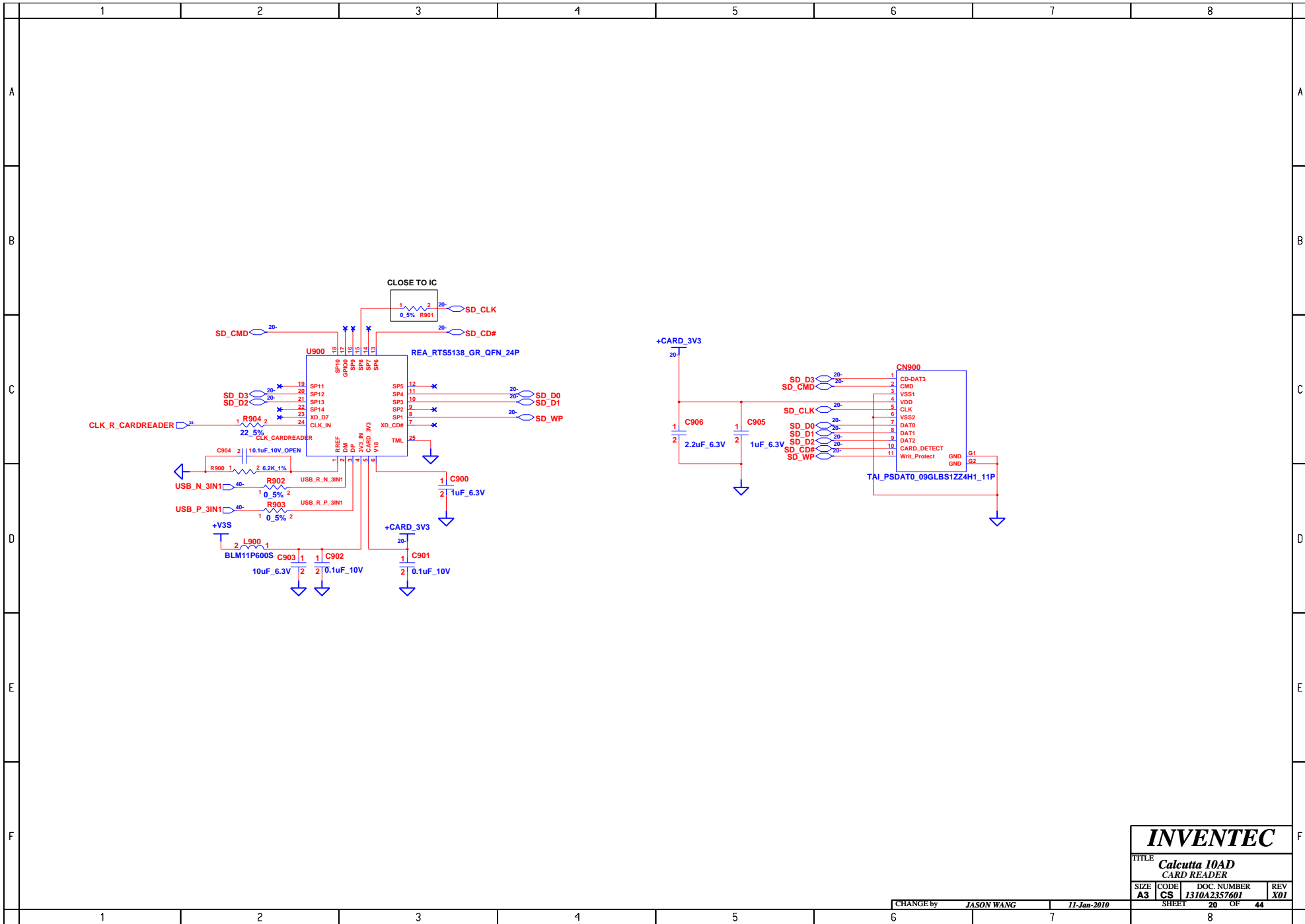


INVENTEC

TITLE			
Calcutta 10AD MIC & SPEAKER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357601	X01

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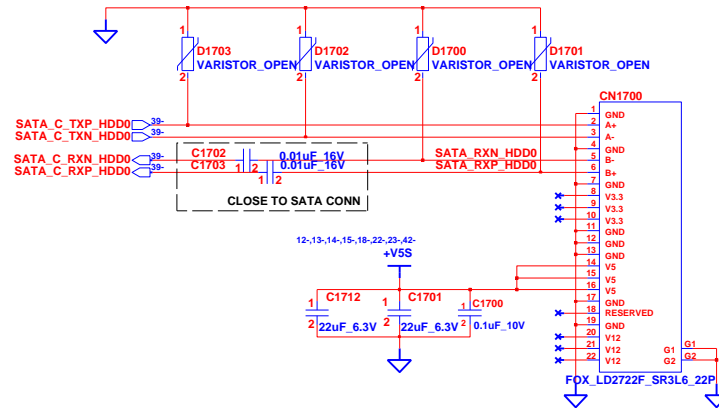
INVENTEC

TITLE
Calculta 10AD
CARD READER

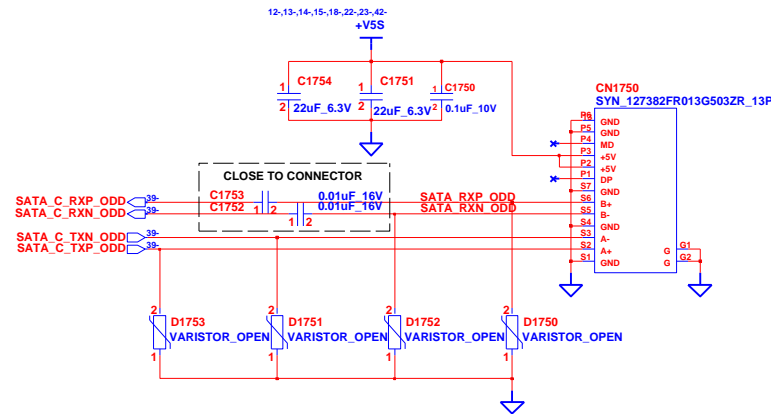
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A3	CS	1310A2357601	X01

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SATA HDD0



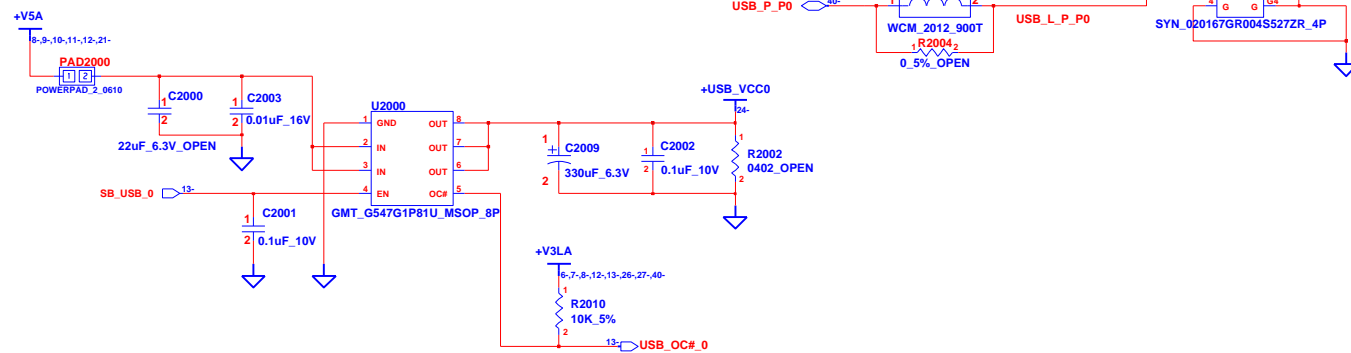
SATA ODD

INVENTEC

TITLE			
Calcutta 10AD			
SATA HDD, SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2337601	X01

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INVENTEC

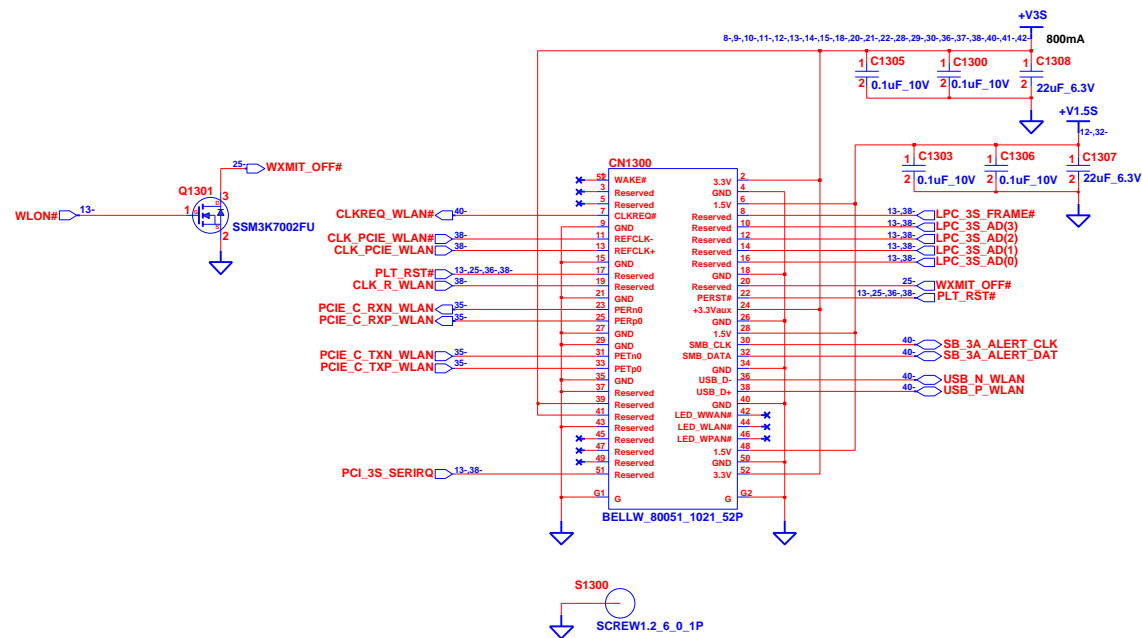
TITLE **Calcutta 10AD**
USB

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357601	X01

CHANGE by JASON WANG 11-Jan-2010

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Wireless & Debug card



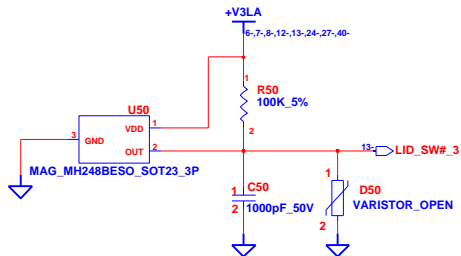
INVENTEC

TITLE			
Calcutta 10AD			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357601	X01

CHANGE by JASON WANG 11-Jan-2010

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HALL SENSOR



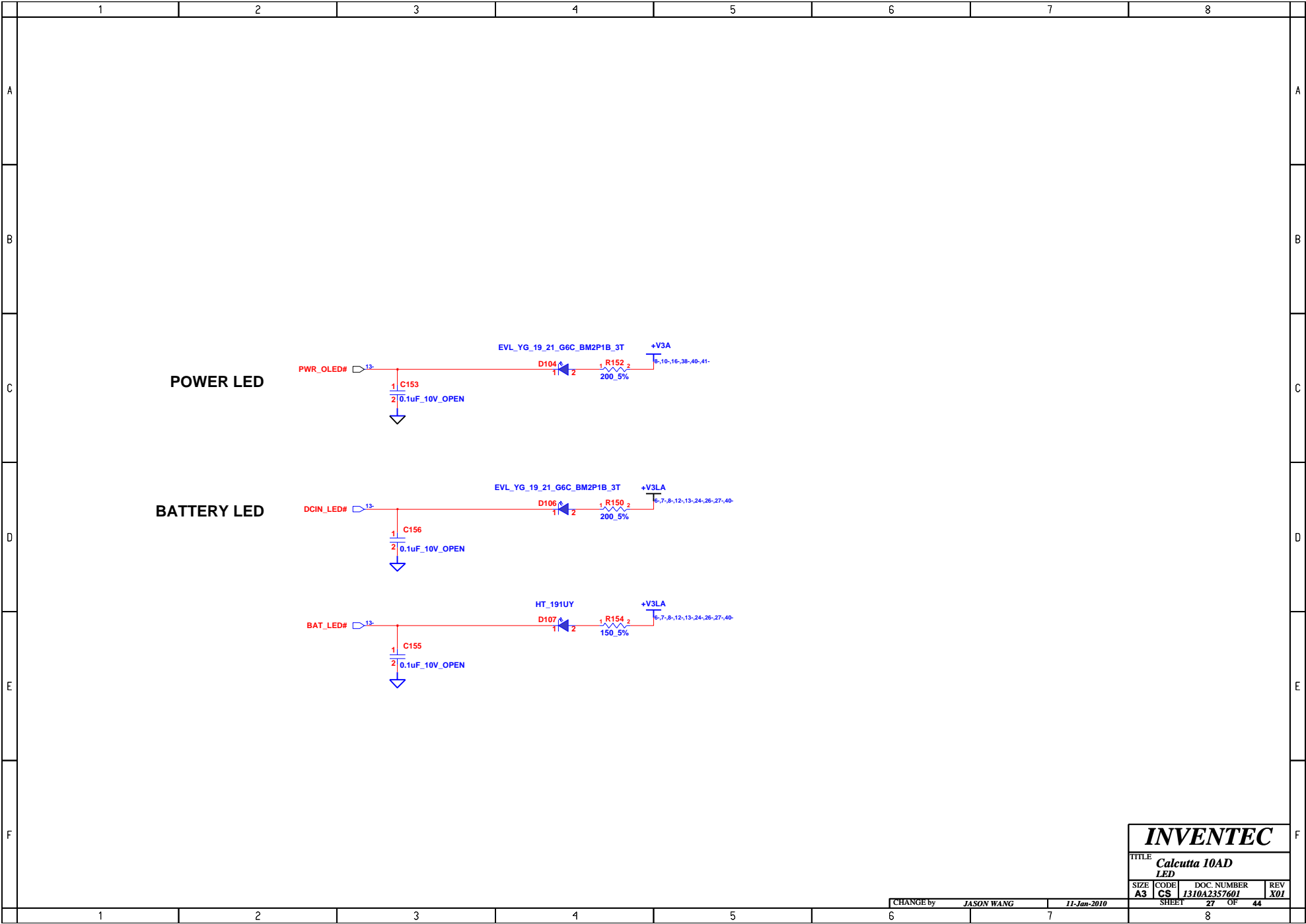
INVENTEC

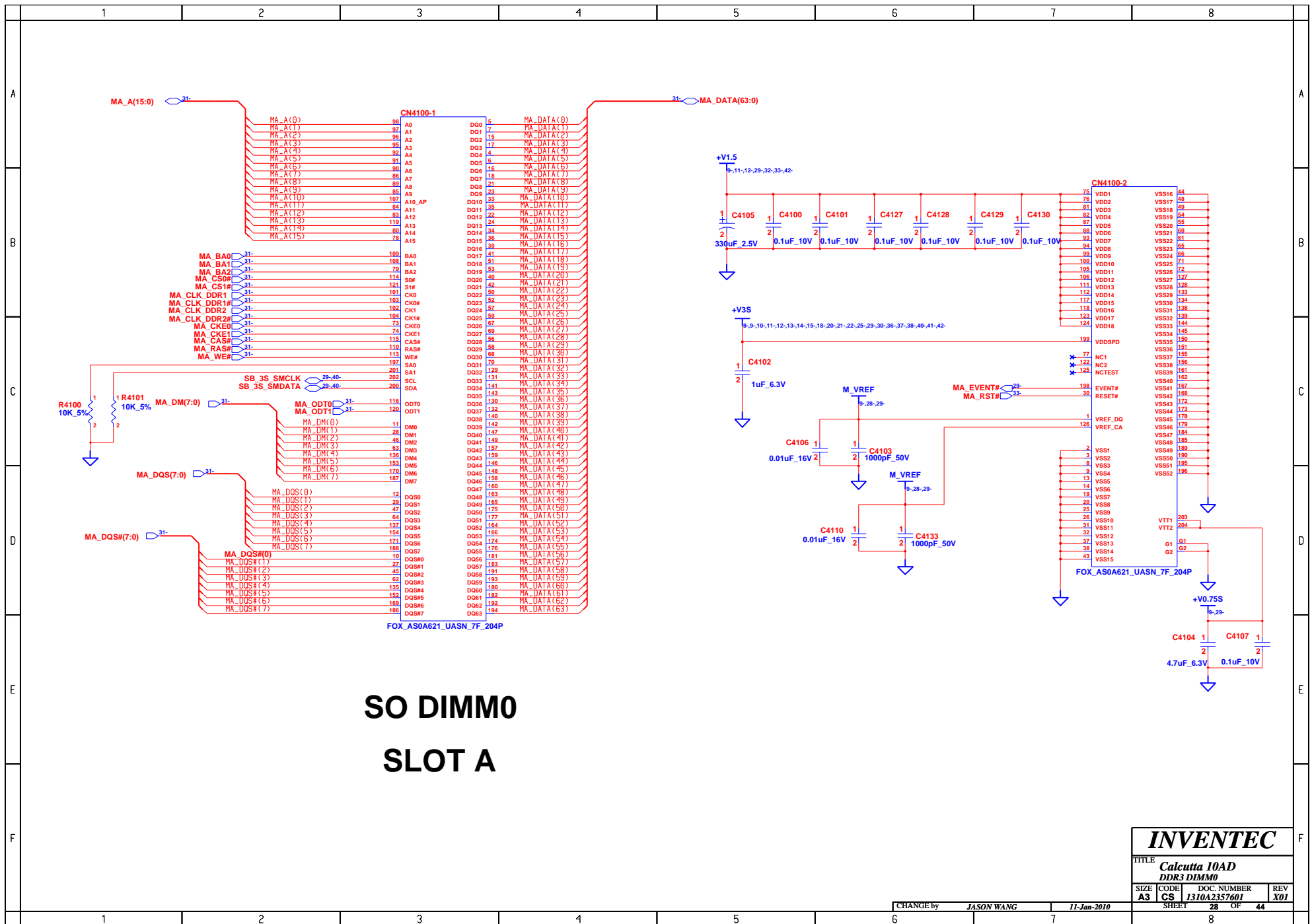
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HALL SENSOR

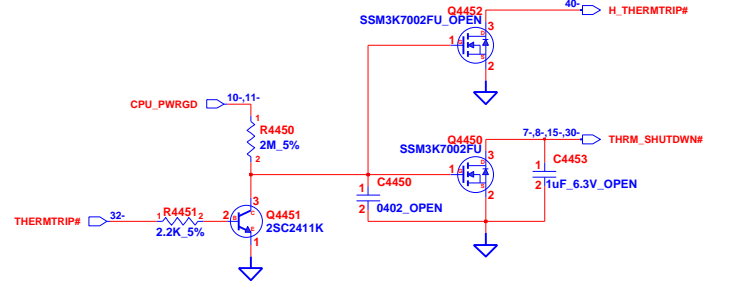
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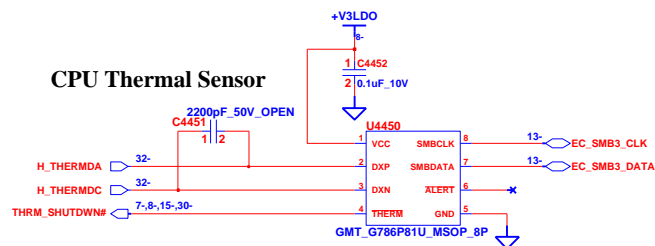
CHANGE by JASON WANG 11-Jan-2010



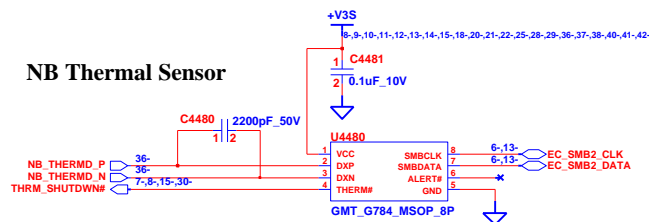




CPU Thermal Sensor

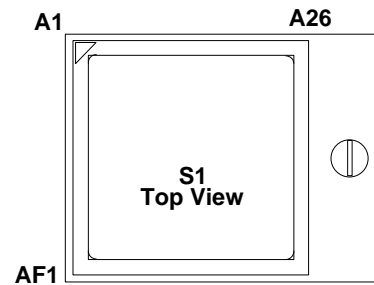


NB Thermal Sensor

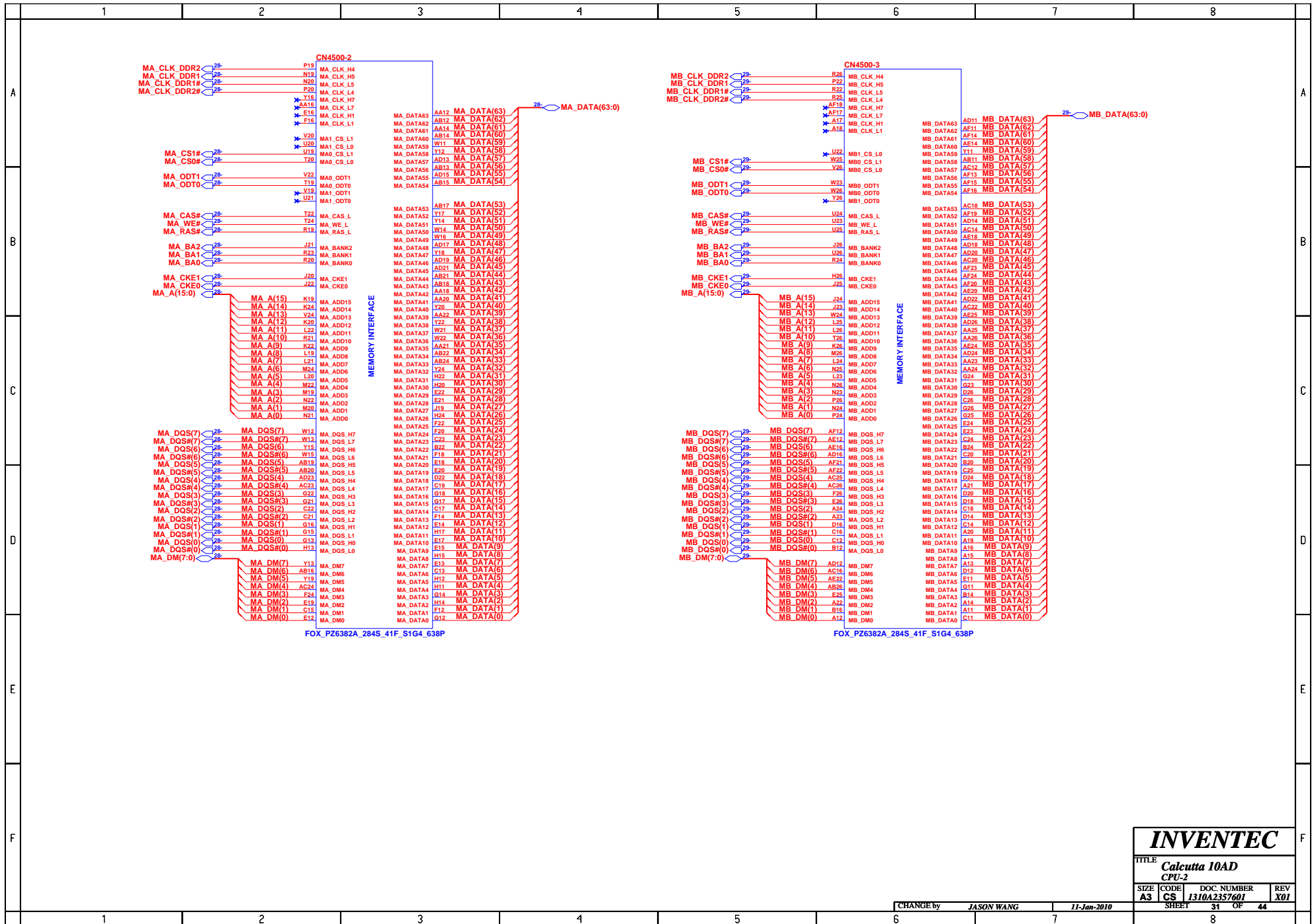


L0_CLKIN1	34	J5	L0_CLKIN_H1	Y4	34	L0_CLKOUT1
L0_CLKIN1#	34	K5	L0_CLKIN_L1	Y3	34	L0_CLKOUT1#
L0_CLKIN0	34	J3	L0_CLKIN_H0	Y1	34	L0_CLKOUT0
L0_CLKIN0#	34	J2	L0_CLKIN_L0	Y1	34	L0_CLKOUT0#
L0_CTLIN1	34	P3	L0_CTLIN_H1	T5	34	L0_CTLOUT1
L0_CTLIN1#	34	P4	L0_CTLIN_L1	R5	34	L0_CTLOUT1#
L0_CTLIN0	34	M1	L0_CTLIN_H0	R2	34	L0_CTLOUT0
L0_CTLIN0#	34	P1	L0_CTLIN_L0	R3	34	L0_CTLOUT0#
L0_CADIN15	34	N5	L0_CADIN_H15	T4	34	L0_CADOUT15
L0_CADIN15#	34	P5	L0_CADIN_L15	T3	34	L0_CADOUT15#
L0_CADIN14	34	M3	L0_CADIN_H14	V5	34	L0_CADOUT14
L0_CADIN14#	34	M4	L0_CADIN_L14	V4	34	L0_CADOUT14#
L0_CADIN13	34	L5	L0_CADIN_H13	V4	34	L0_CADOUT13
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L0_CADIN10#	34	H5	L0_CADIN_L10	AB3	34	L0_CADOUT10#
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L0_CADIN3#	34	H1	L0_CADIN_L3	AA3	34	L0_CADOUT3#
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L0_CADIN1	34	E1	L0_CADIN_H1	AC2	34	L0_CADOUT1
L0_CADIN1#	34	F1	L0_CADIN_L1	AC3	34	L0_CADOUT1#
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L0_CADIN0#	34	E2	L0_CADIN_L0	AC1	34	L0_CADOUT0#

Layout: Add stitching caps if crossing plane split.



INVENTEC			
TITLE Calcutta 10AD CPU-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A2337601	REV X01
CHANGE by JASON WANG		11-Jan-2010	
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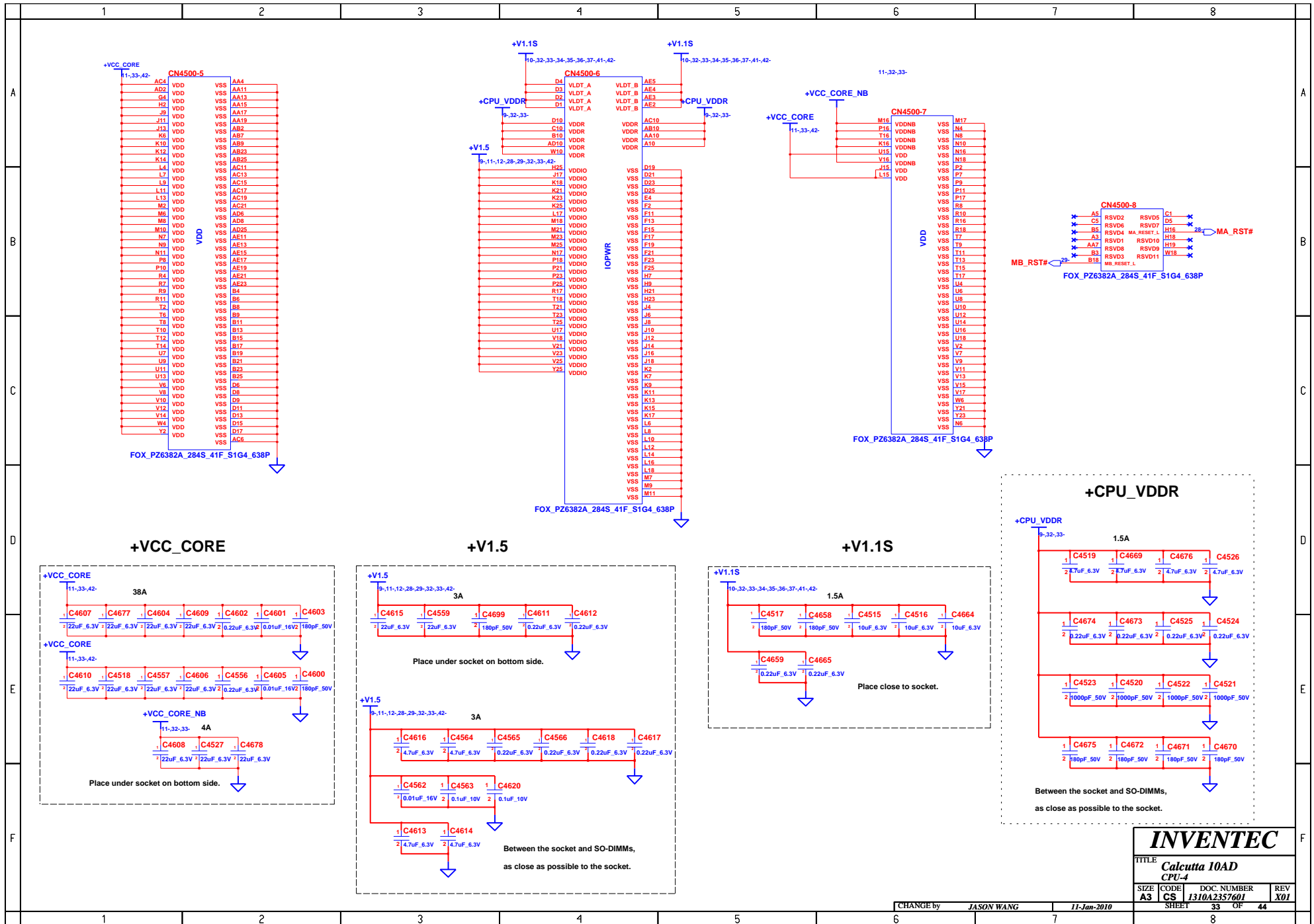
INVENTEC

TITLE
**Calcutta 10AD
CPU-2**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2337601	X01

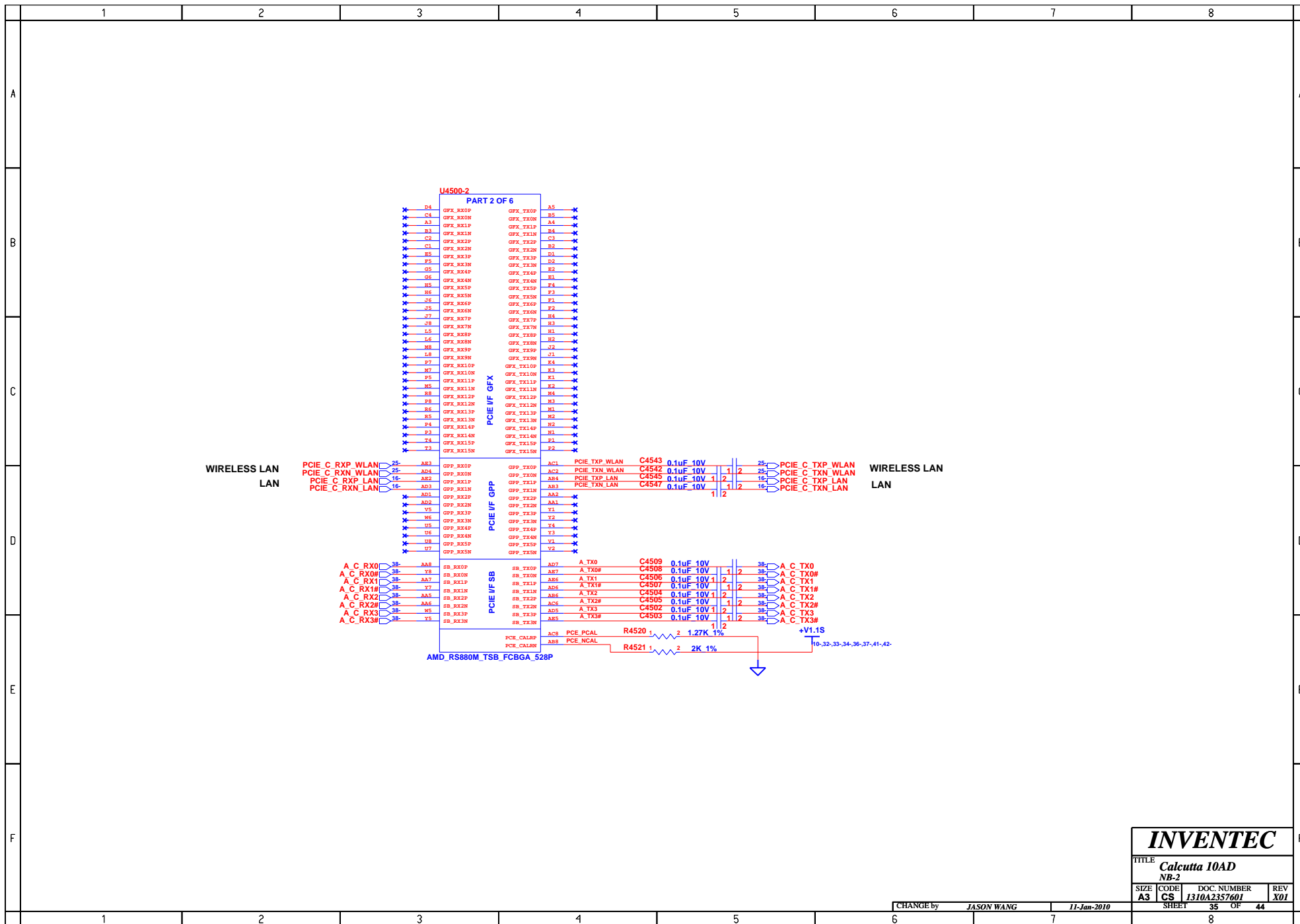
CHANGE by JASON WANG 11-Jan-2010

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CHANGE by	JASON WANG	11-Jan-2010
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INVENTEC

TITLE
Calcutta 10AD

SIZE
A3

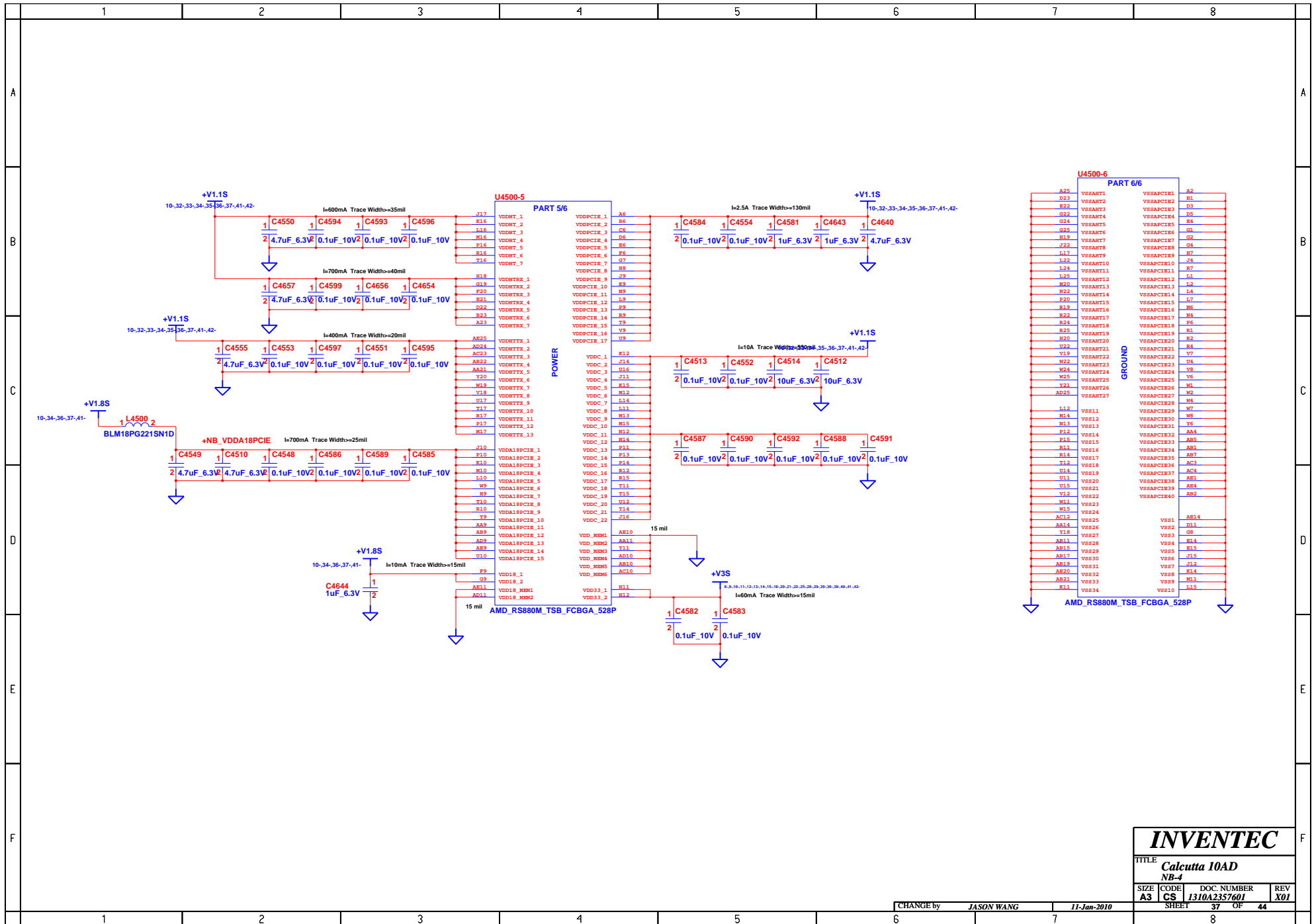
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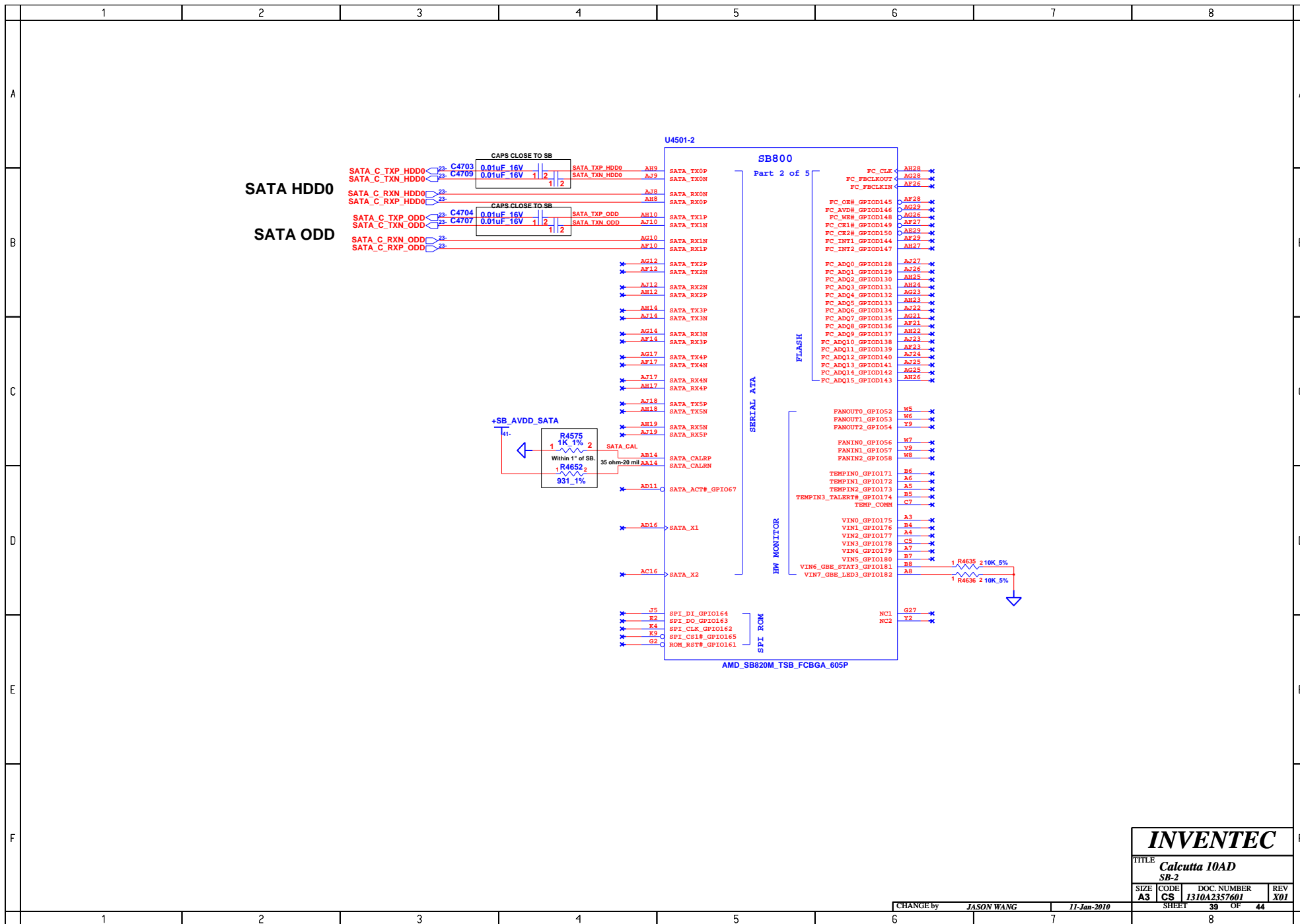
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1310A2337601

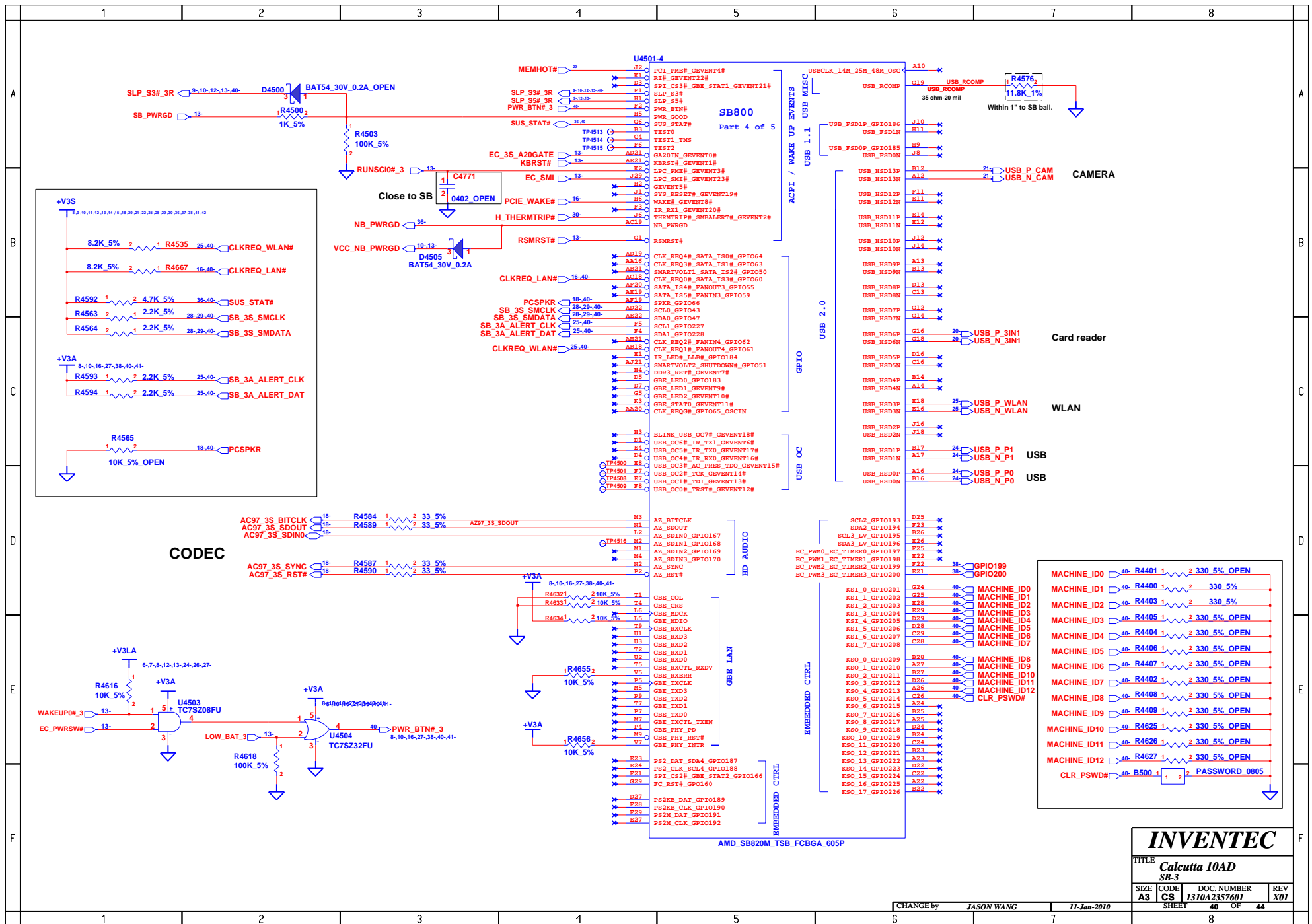
REV
X01

CHANGE by **JASON WANG** 11-Jan-2010

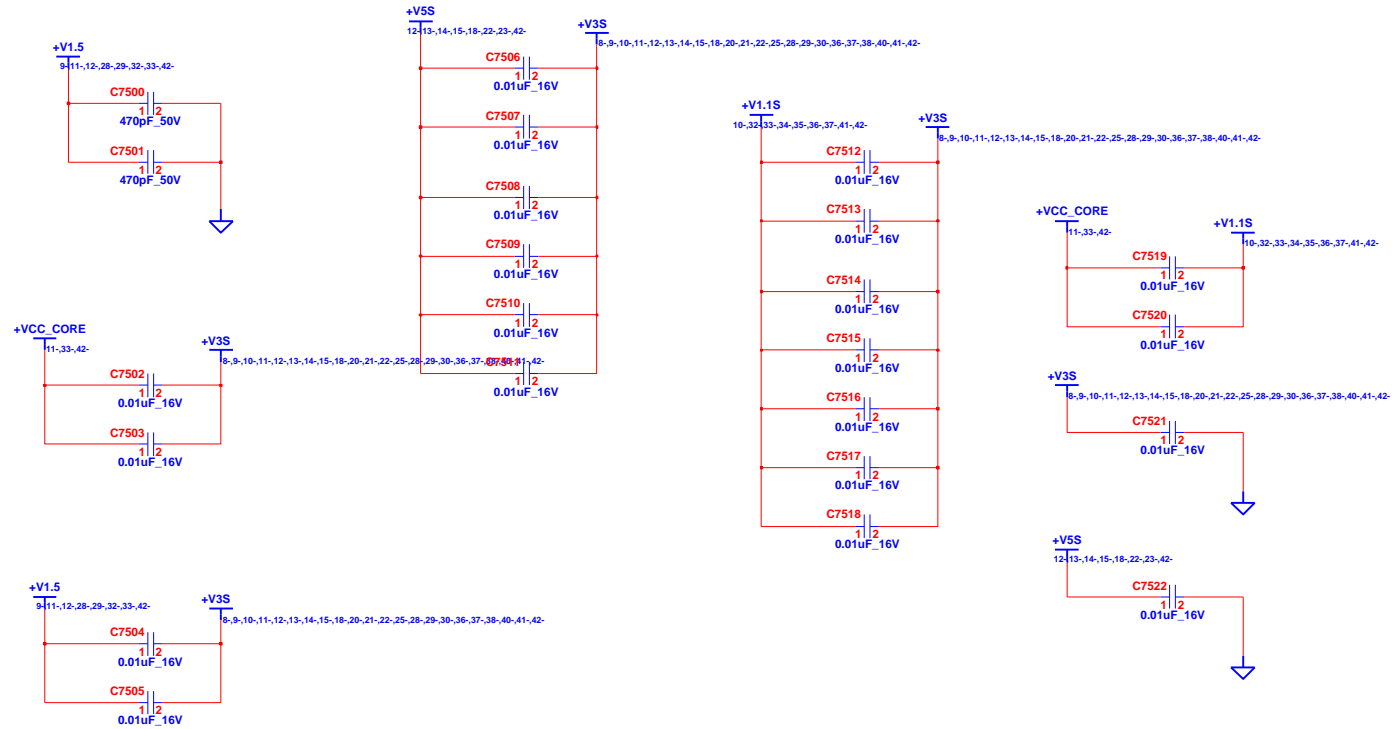
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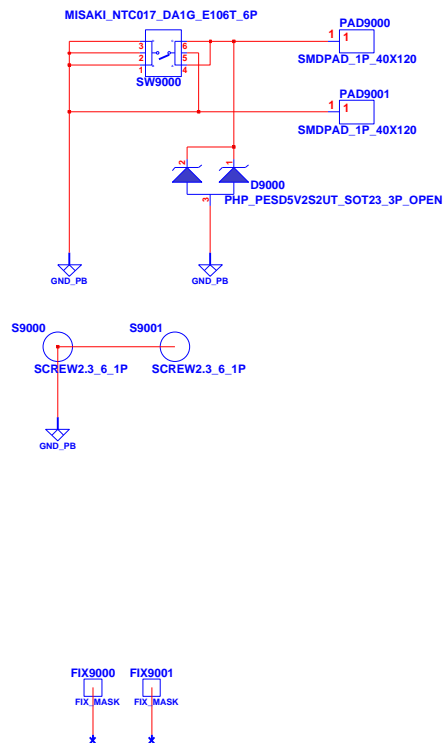


EMI



INVENTEC			
TITLE: Calcutta 10AD EMI			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A2357601	REV: X01
CHANGE by: JASON WANG		11-Jan-2010	
SHEET: 42		OF: 44	

POWER BUTTON BOARD



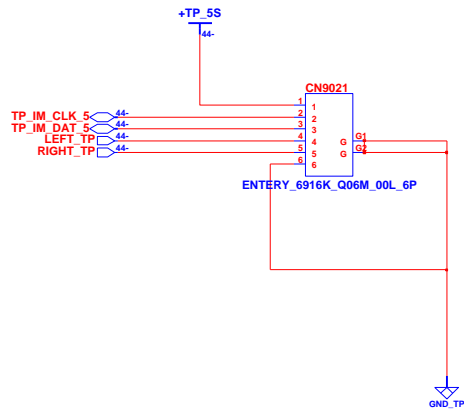
INVENTEC

TITLE			
Calcutta 10AD POWER Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357601	X01
SHEET		43	OF 44

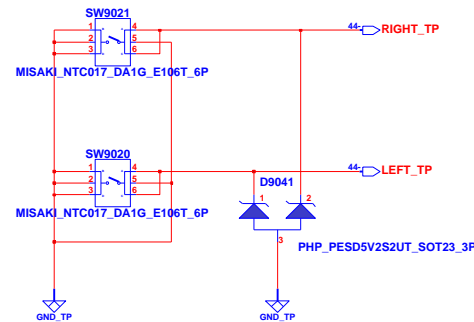
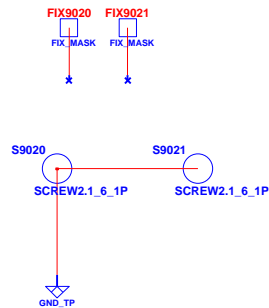
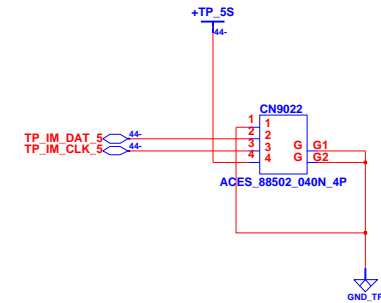
CHANGE by JASON WANG 23-Feb-2010

TOUCHPAD BOARD

Connect to Touchpad Module



Connect to Mainboard's TP connector



INVENTEC			
TITLE			
Calcutta 10AD			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by CT10AD 24-Feb-2010