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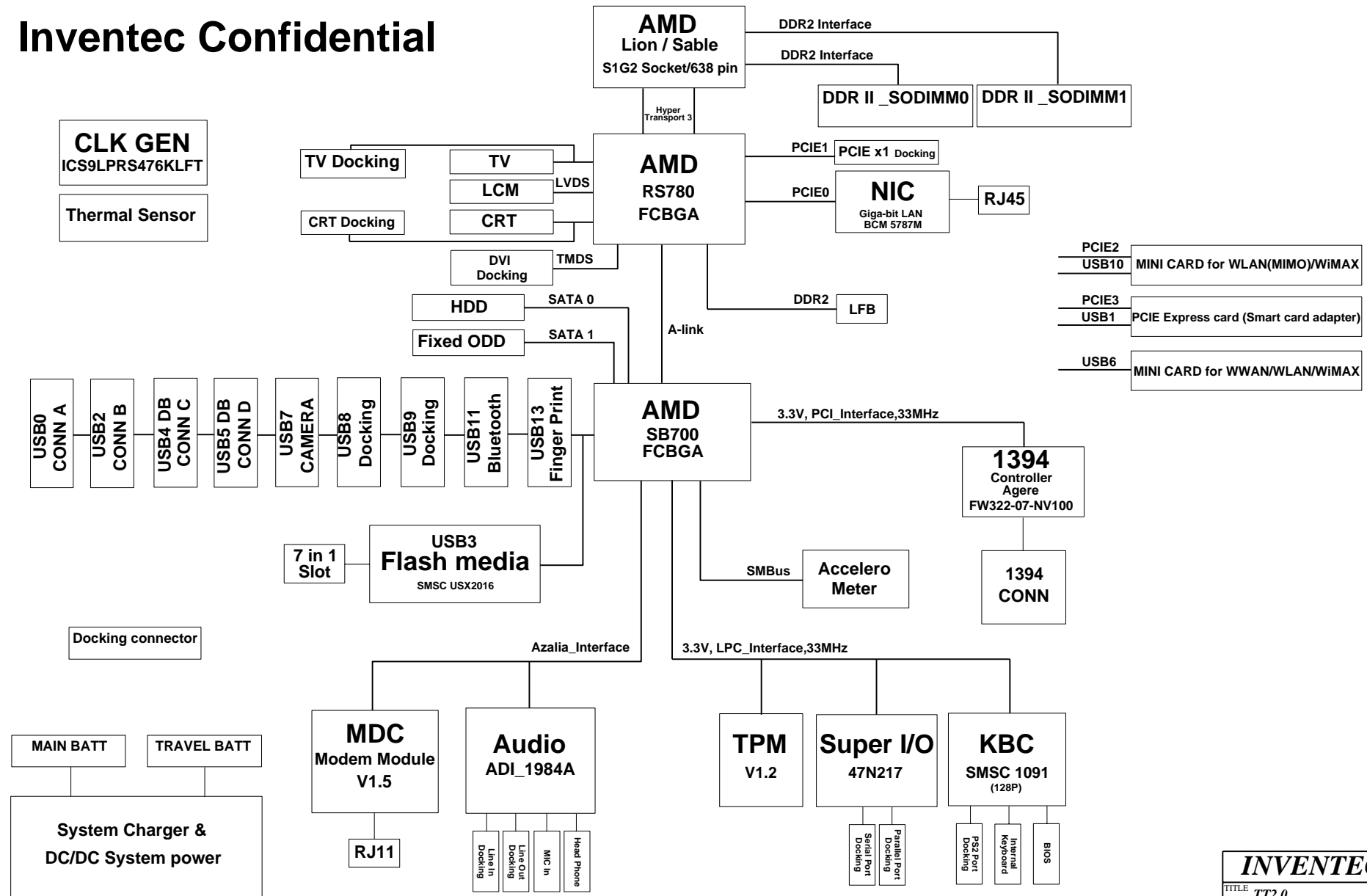
INVENTECTITLE
TT2.0

SIZE A3	CODE CS	DOC. NUMBER <i>1310A2150101</i>	REV <i>A01</i>
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CHANGE by *Kevin Hsiao* 8-Apr-2008

SHEET 2 OF 70

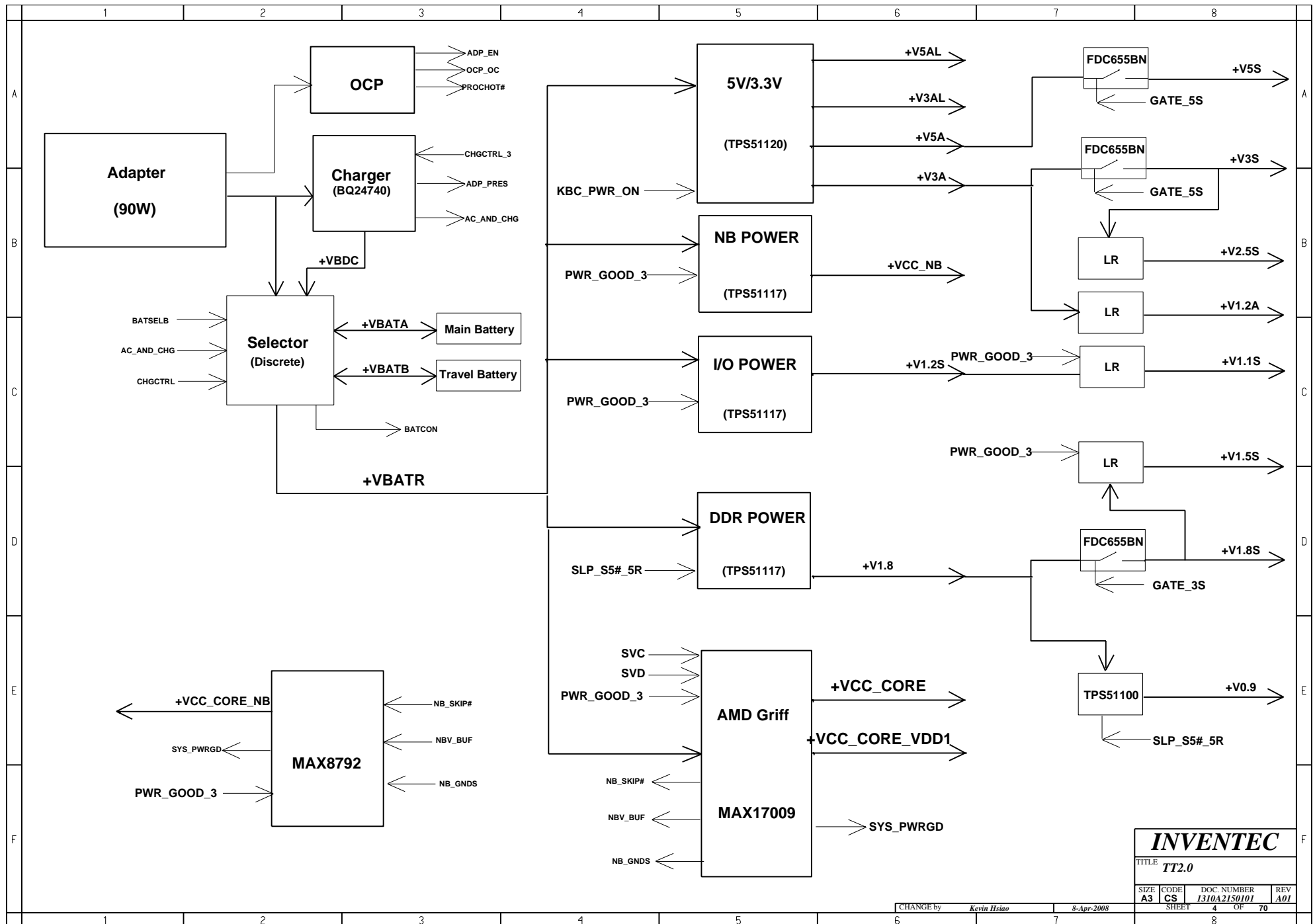
Inventec Confidential

**INVENTEC**TITLE
TT2.0
Block Diagram

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 3 OF 70

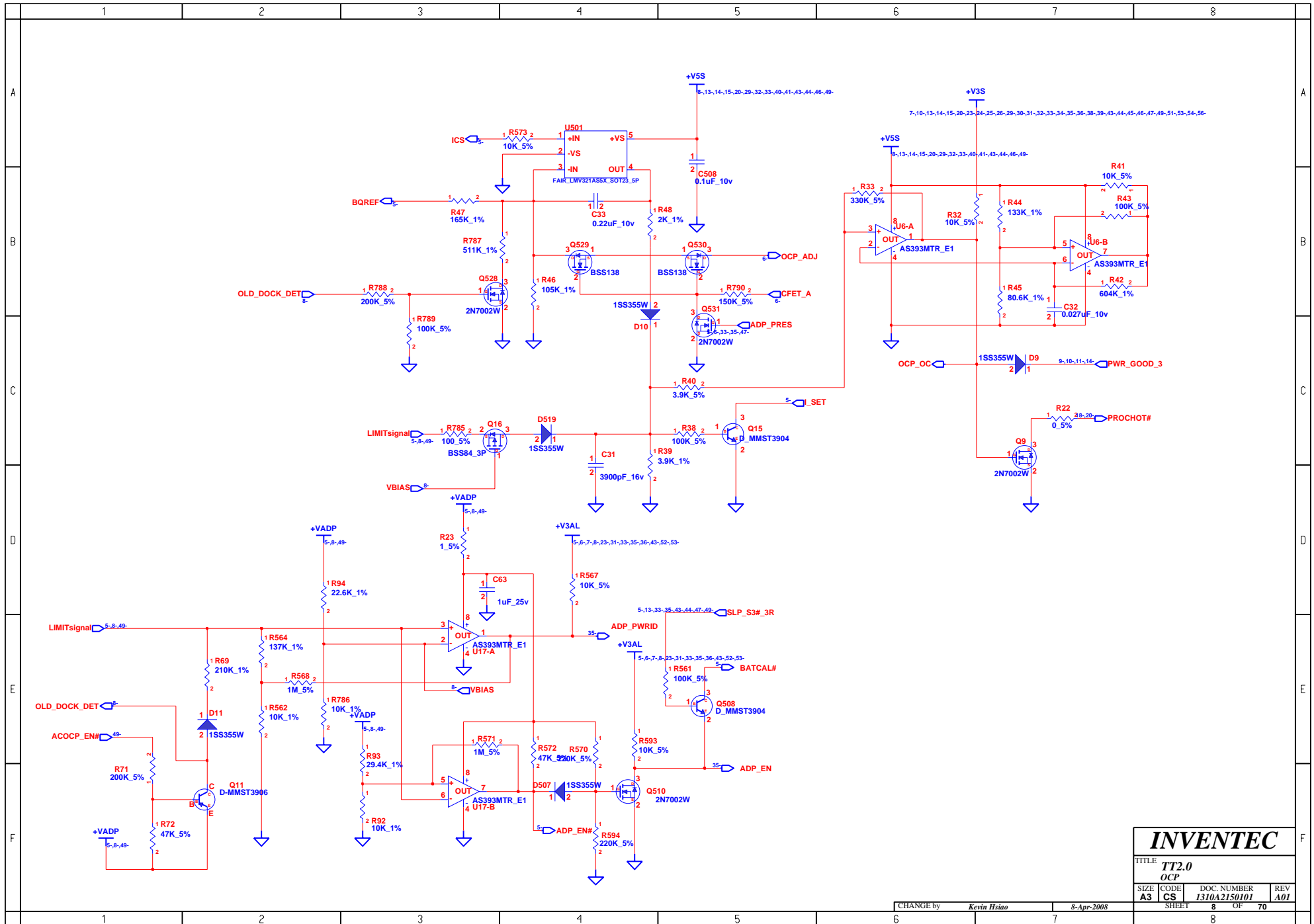
**INVENTEC**TITLE
TT2.0

SIZE CODE DOC. NUMBER REV

A3 CS I310A2150101 A01

A3	CS	1310A2150101	A
SHEET		7	OF 70

CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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INVENTEC

TITLE
TT2.0
OCP

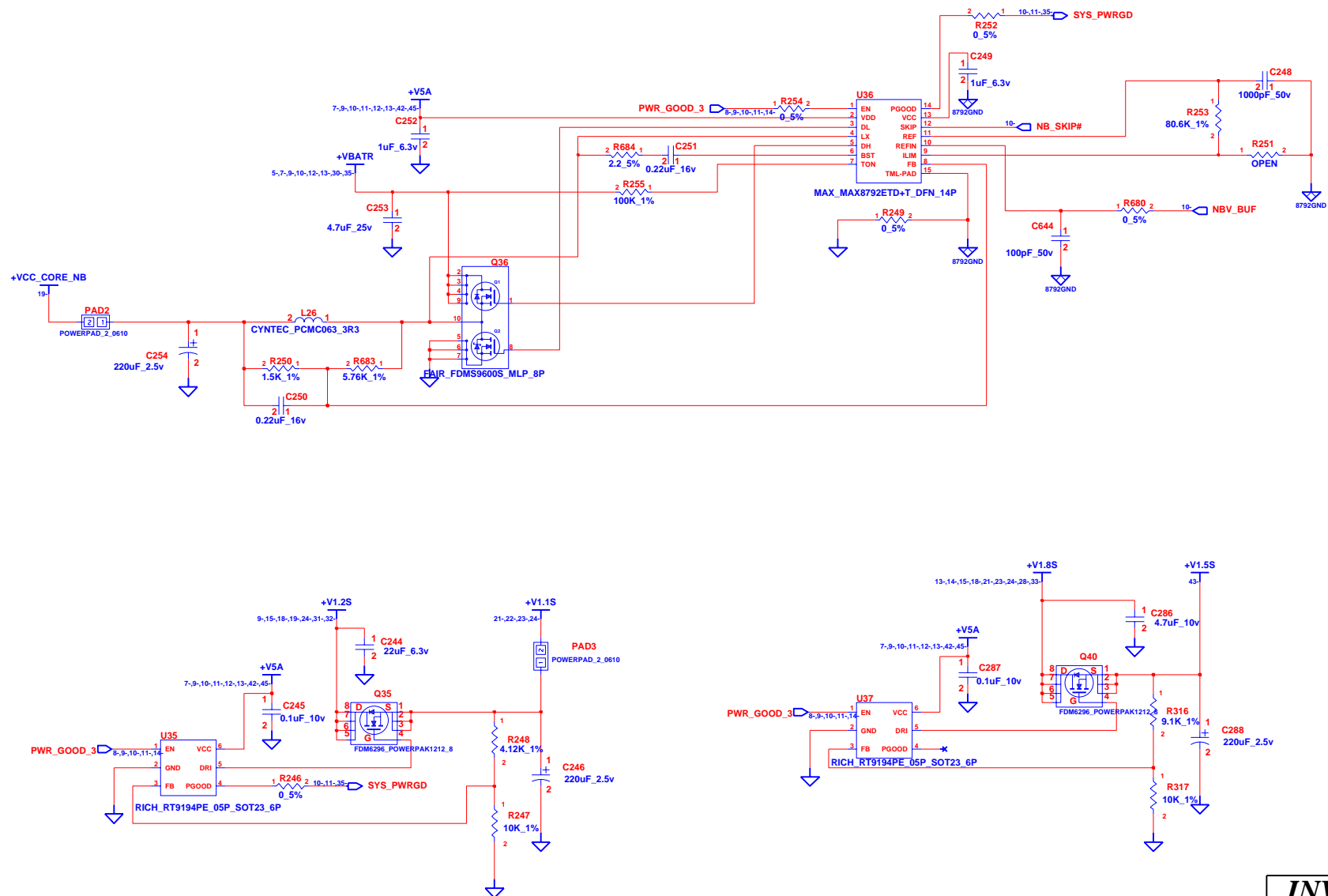
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

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(Should routed in 5/5/5 pair and need
have 10mil clearance to other traces.)

INVENTEC			
TITLE TT2.0 +VCC CORE			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
SHEET 10		OF 70	

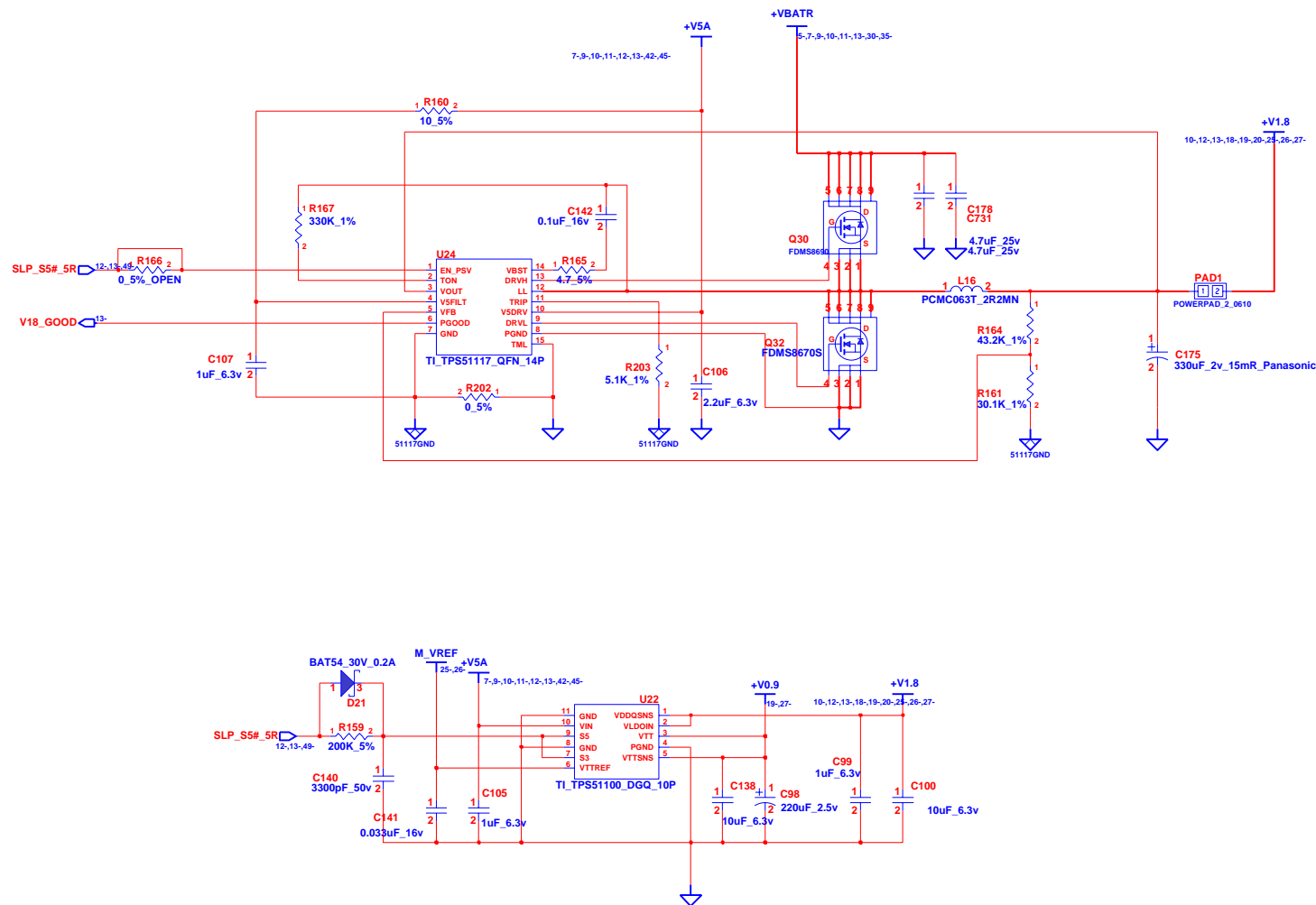


INVENTEC

TITLE			
TT2.0 POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 11 OF 70



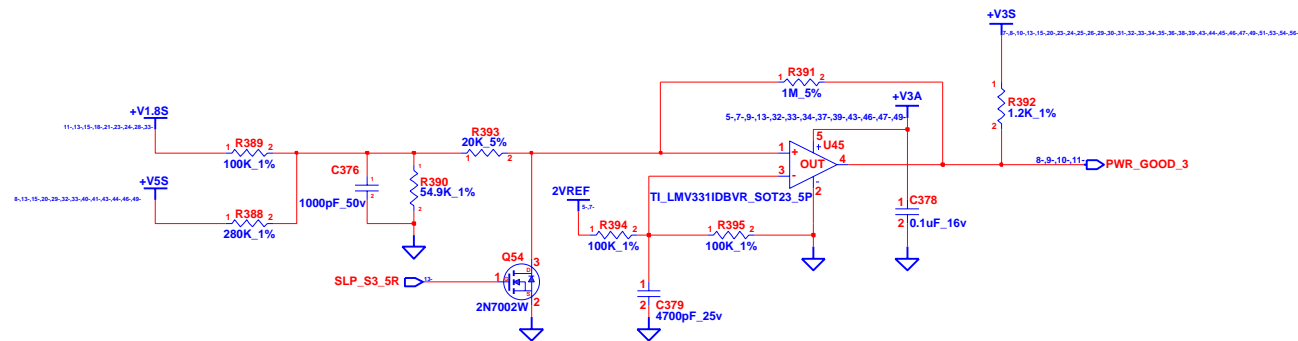
NOTE: DDR2 REGULATOR

INVENTEC

TITLE			
TT2.0			
DDR2 POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

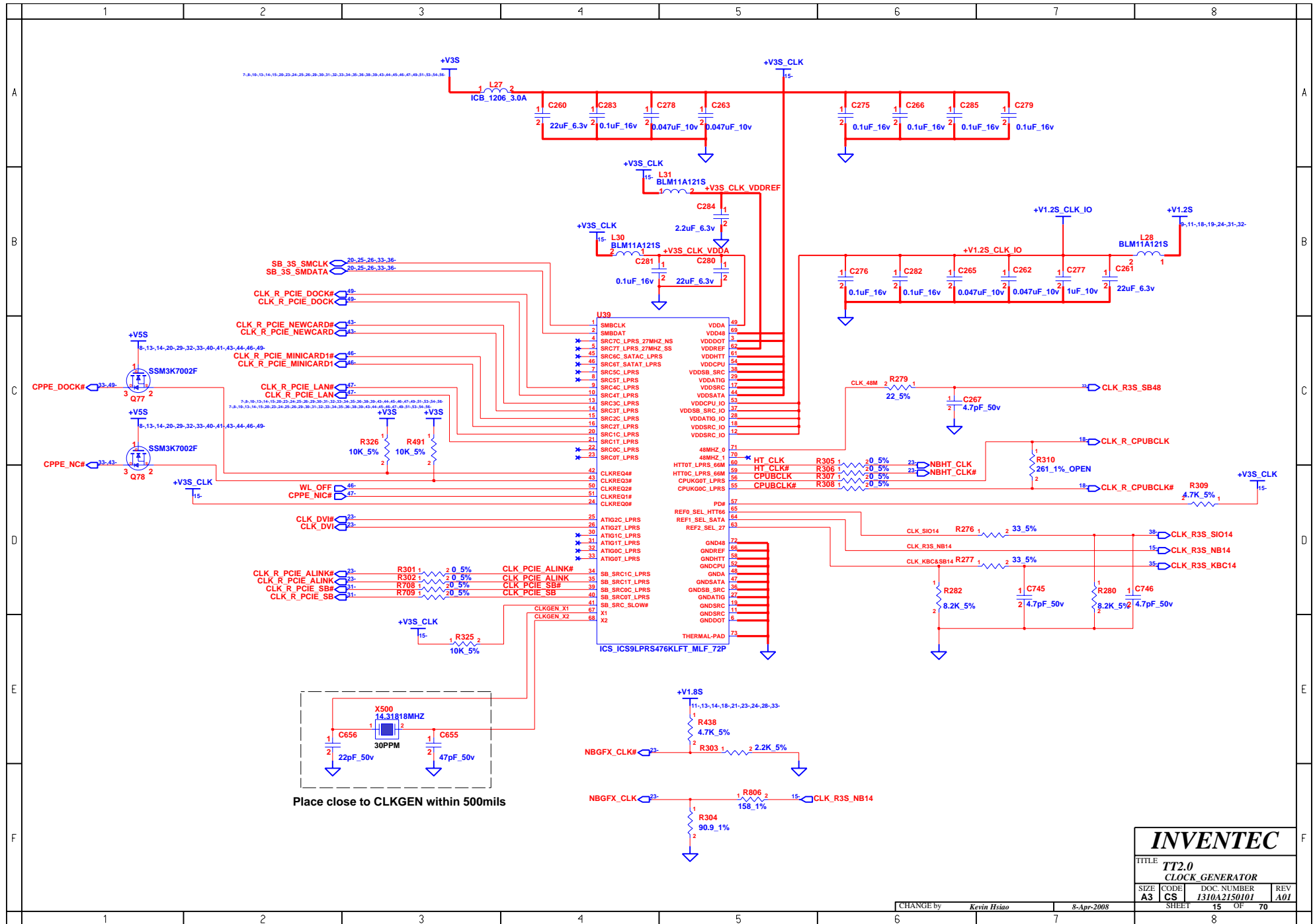
SHEET 12 OF 70

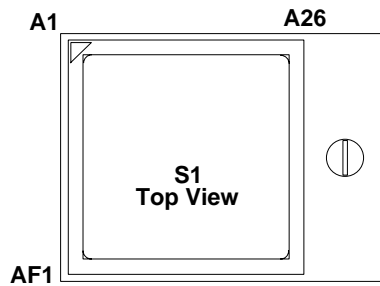
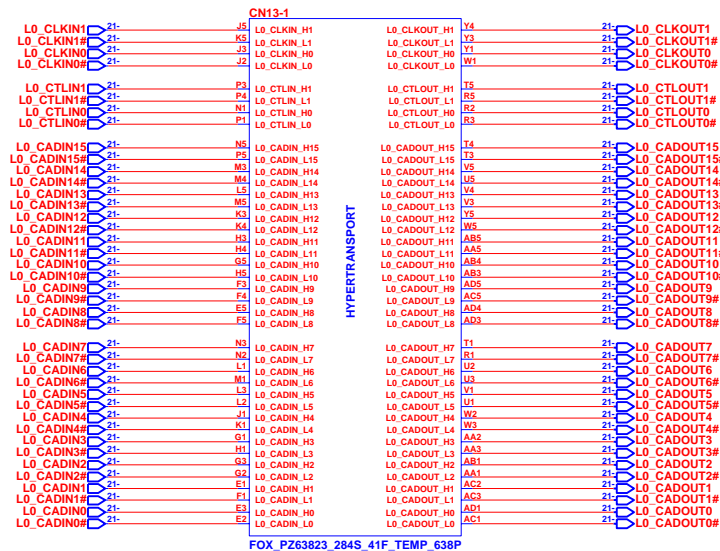
**INVENTEC**

TITLE			
TT2.0			
POWER(Sequence)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

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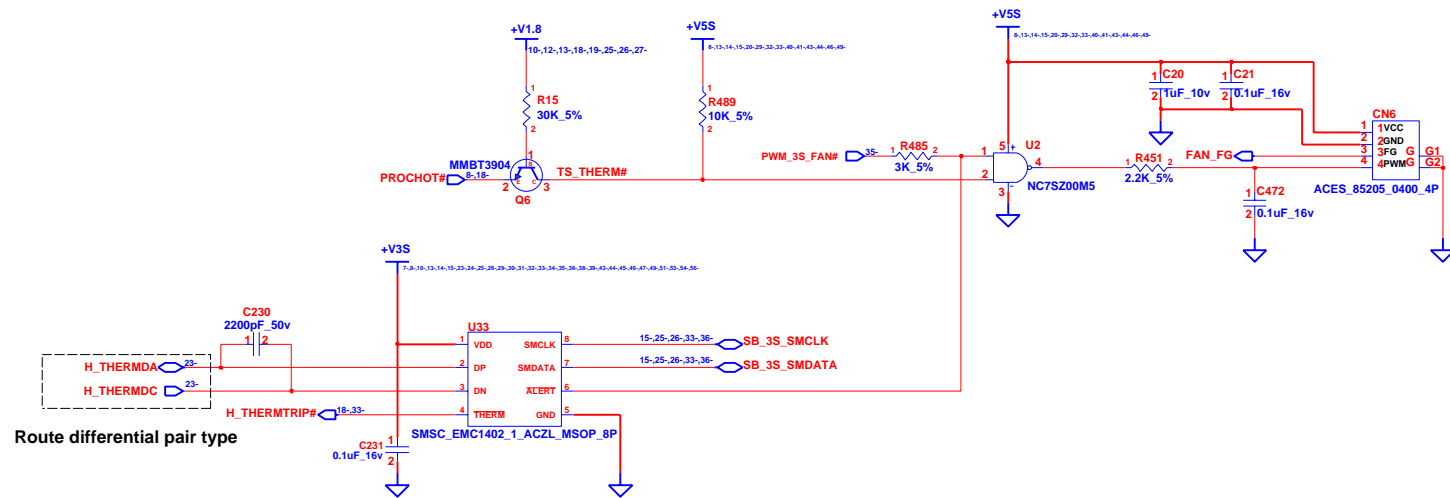
Layout: Add stitching caps if crossing plane split.

INVENTEC

TITLE			
TT2.0			
CPU-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

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LAYOUT Note: Put the thermal sensor close to CPU.

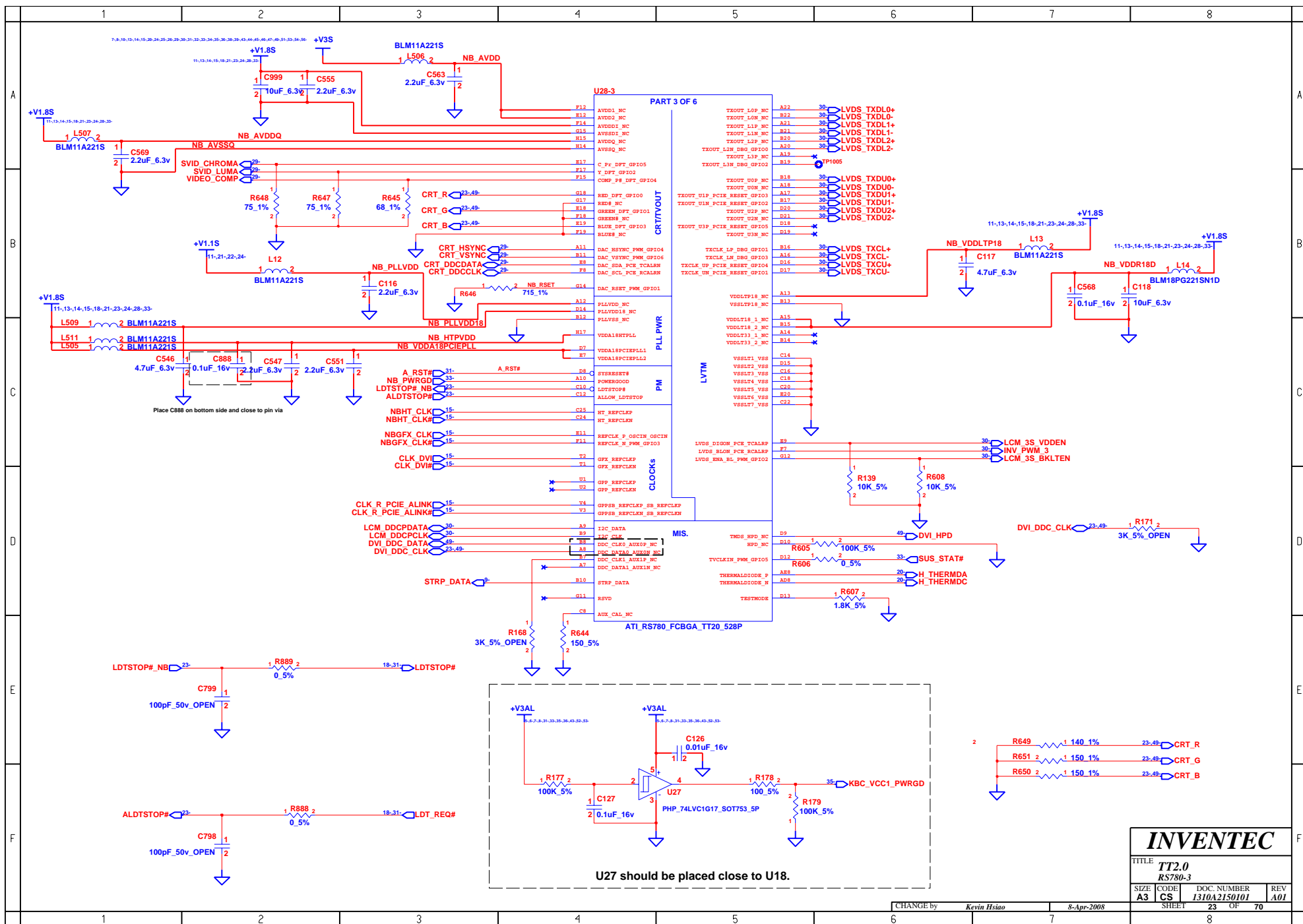
INVENTEC

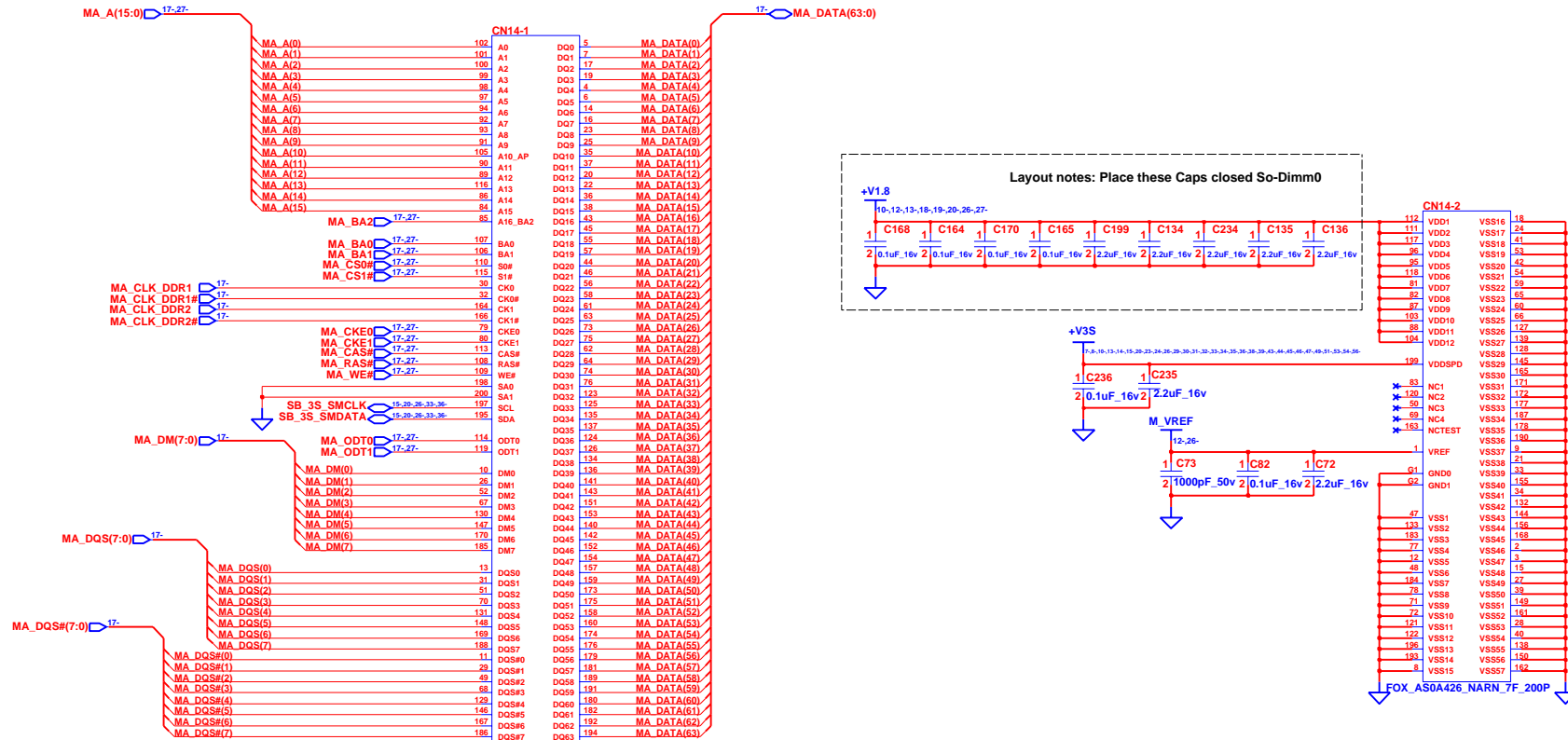
TITLE
TT2.0
THERMAL&FAN CONTROLLER

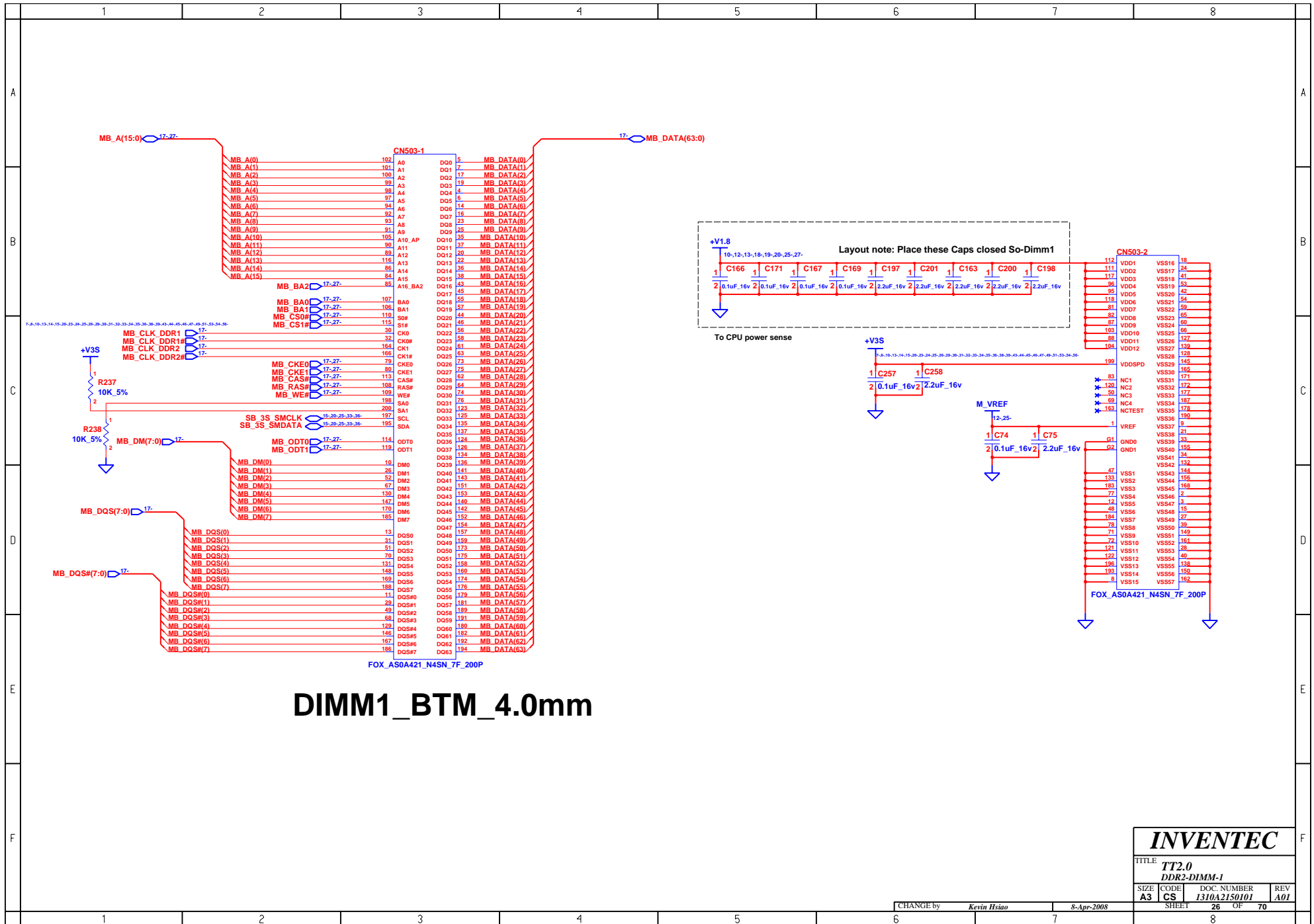
SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

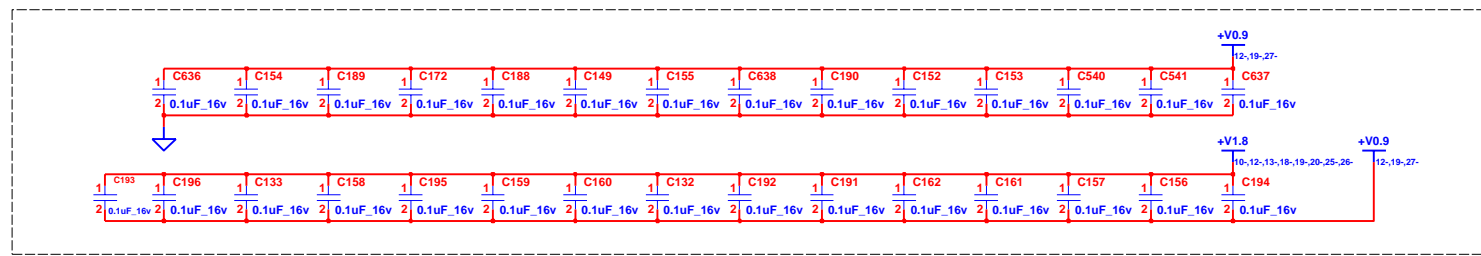
CHANGE by Kevin Hsiao 8-Apr-2008

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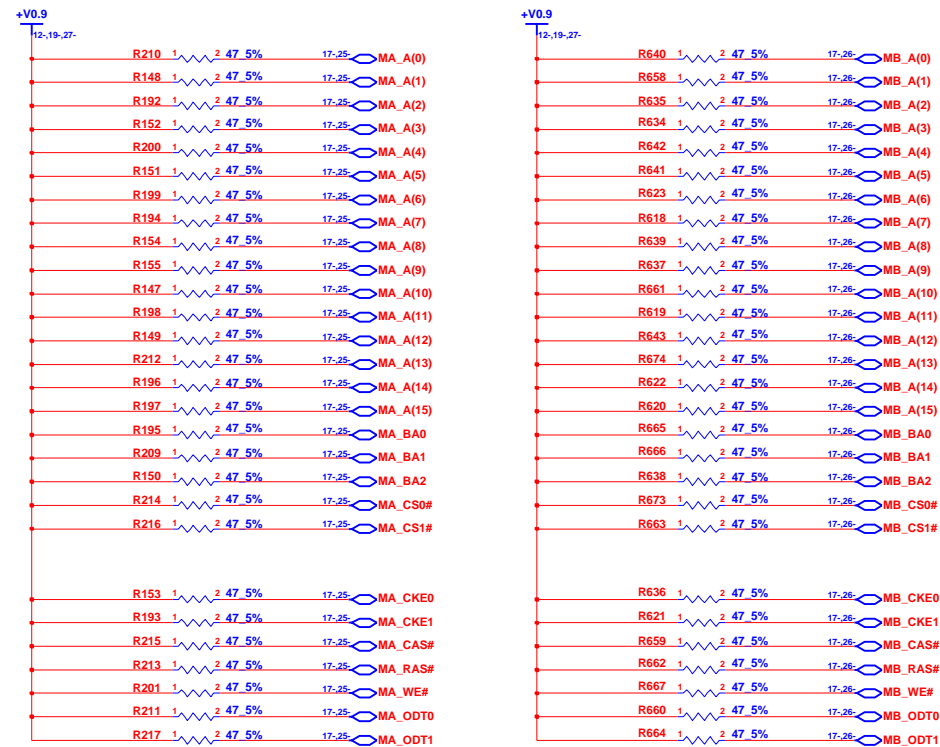








To CPU power sense

Place CAPs close to DIMM**INVENTEC**TITLE
TT2.0
DDR2-DAMPINGSIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 27 OF 70

DDR II MEMORY

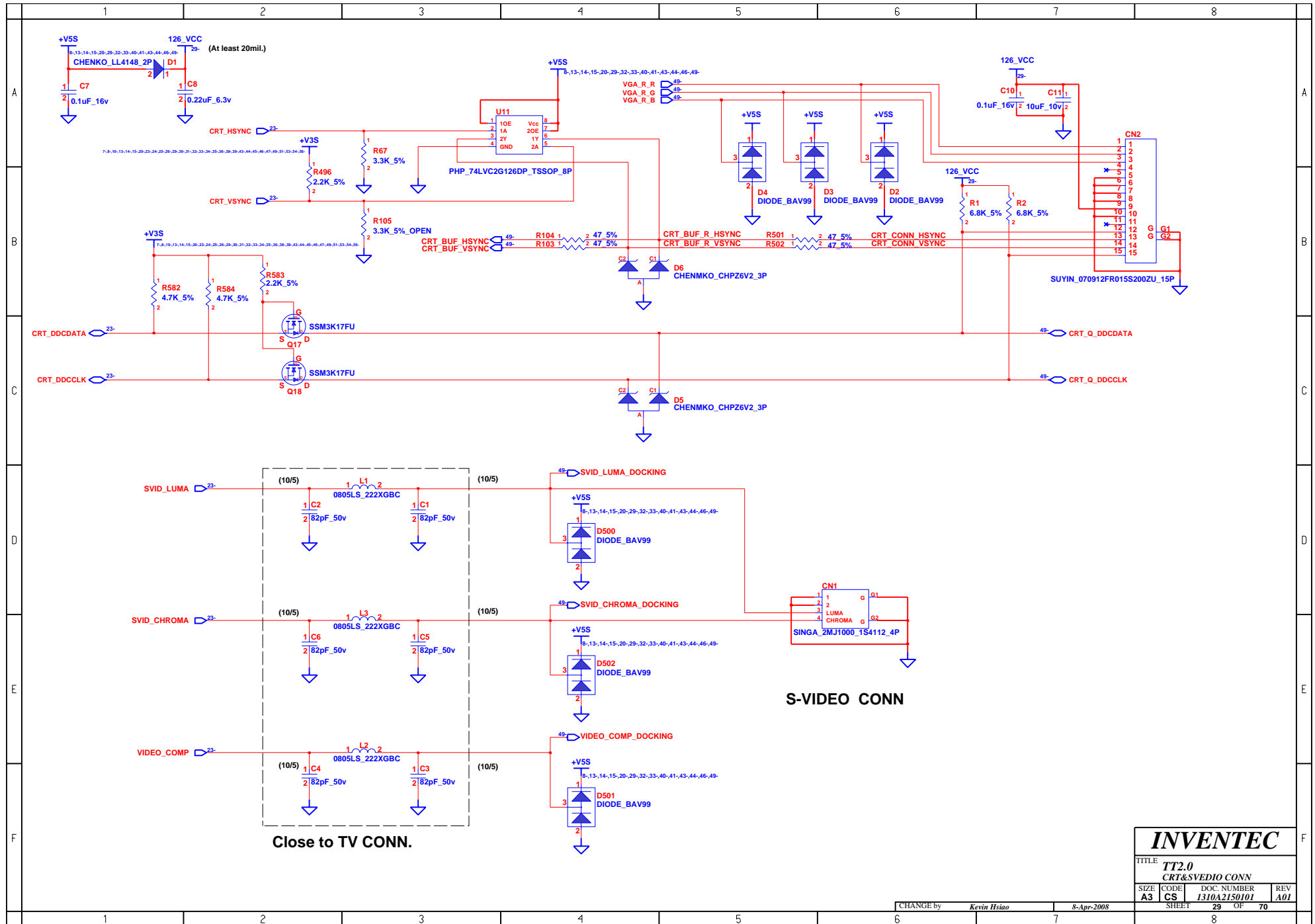
INVENTEC

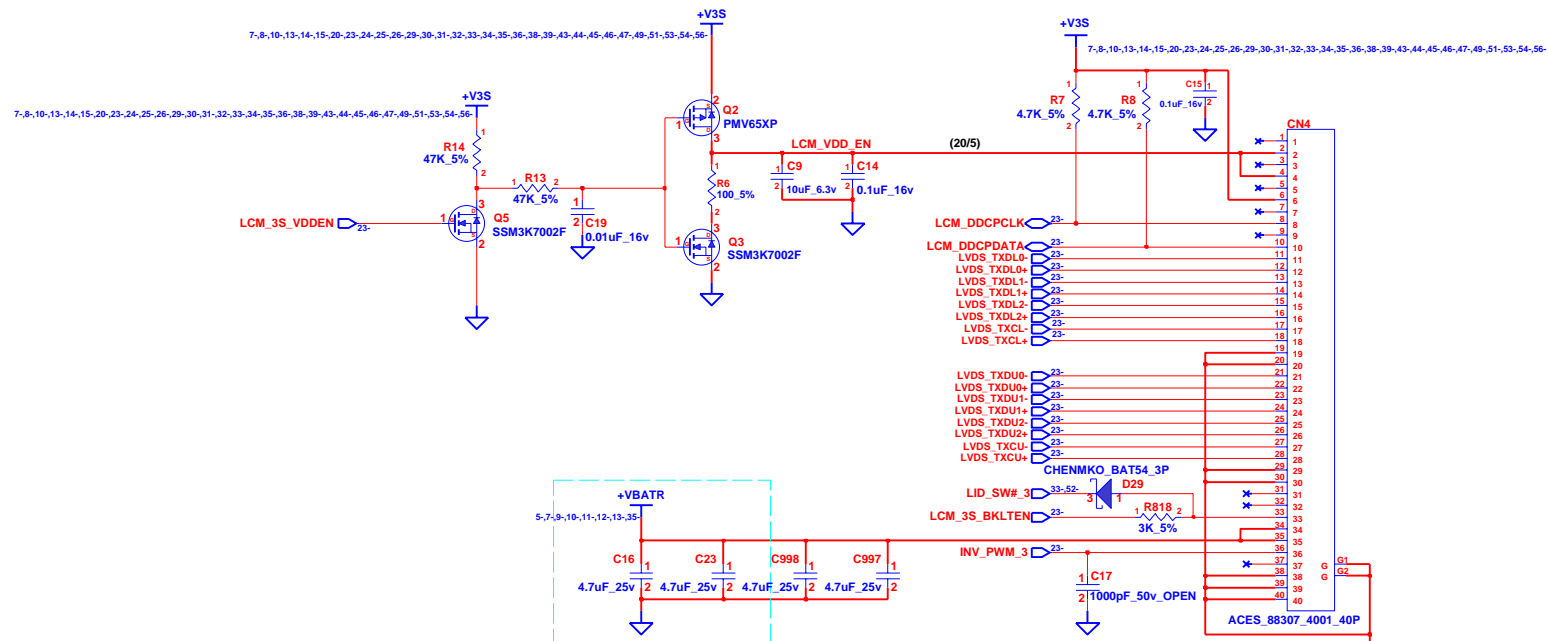
TITLE	<i>TT2.0</i> <i>VIDEO MEMORY</i>
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SIZE A3	CODE CS	DOC. NUMBER <i>1310A2150101</i>	REV <i>A01</i>
SHEET 28 OF 70			

CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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8





Closed to LCD connector

INVENTEC

TITLE TT2.0 LCD CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01

CHANGE by Kevin Hsiao 8-Apr-2008

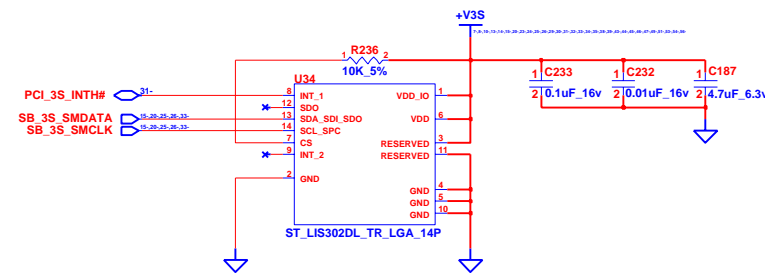
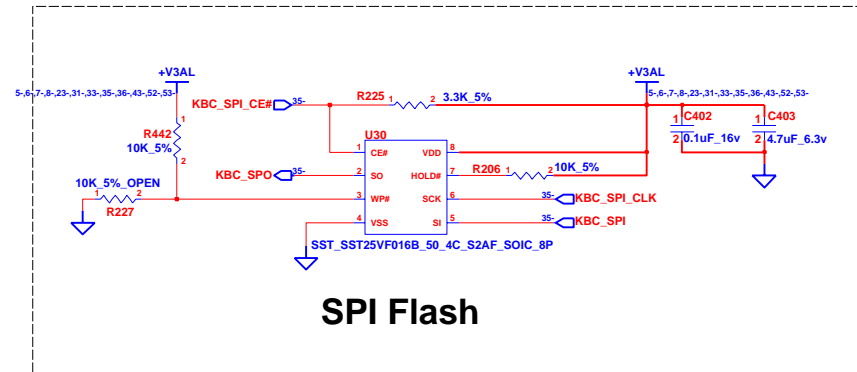
SHEET 30 OF 70

SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A0
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TITLE <i>TT2.0</i> <i>SB700-2</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>1310A2150101</i>	REV A0
SHEET 32		OF 70	

TITLE			
<i>TT2.0</i> <i>KBC</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>1310A2150101</i>	<i>A0</i>
SHEET		35	OF 70

CS	1310A2150101		
SHEET	35	OF	70



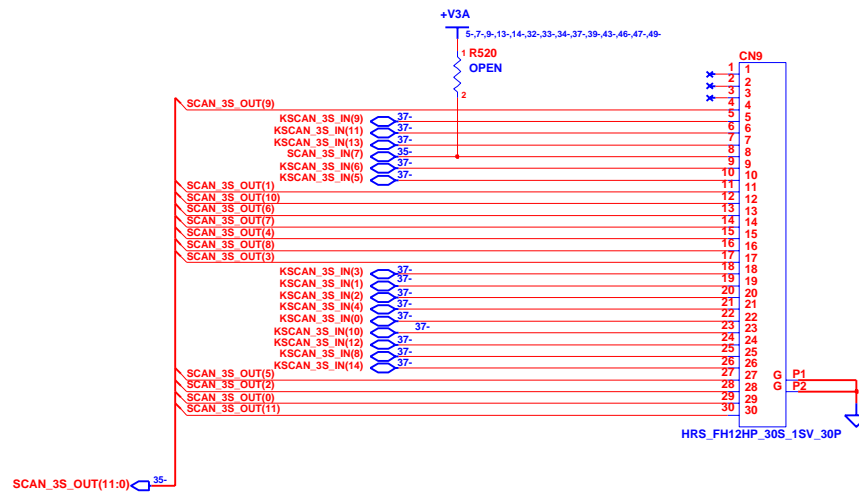
INVENTEC

TITLE
TT2.0
SPI & Accelerometer

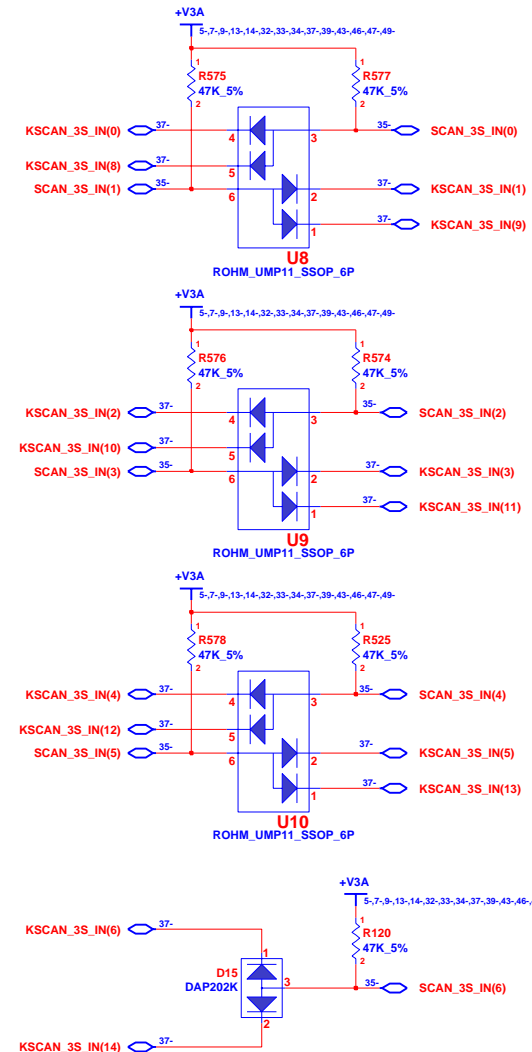
SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by **Kevin Hsiao** 8-Apr-2008

SHEET **36** OF **70**



Keyboard CONN

**INVENTEC**

TITLE			
TT2.0			
INT.KBC/POINT DEVICES			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

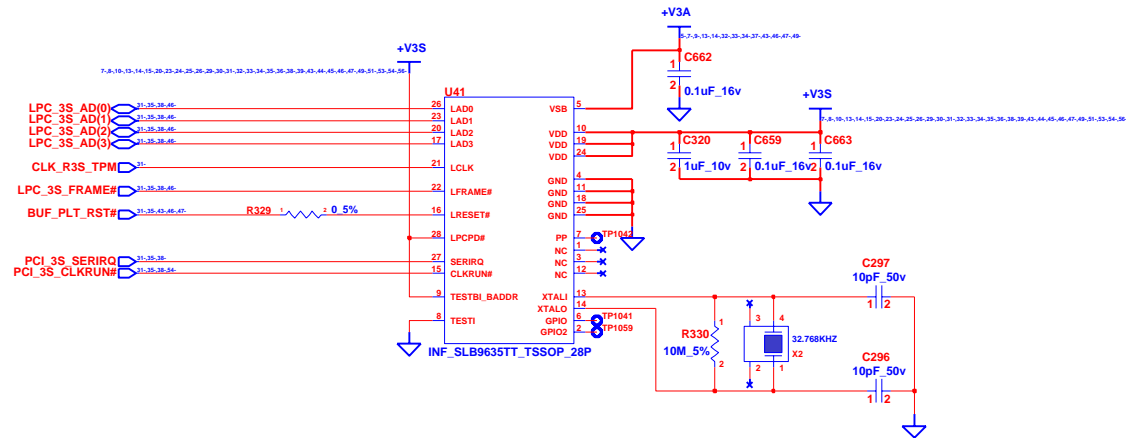
CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 37 OF 70

SIZE A3	CODE CS	DOC. NUMBER <i>1310A2150101</i>	REV. <i>A01</i>
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CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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CS	1310A2150101		
SHEET	38	OF	70



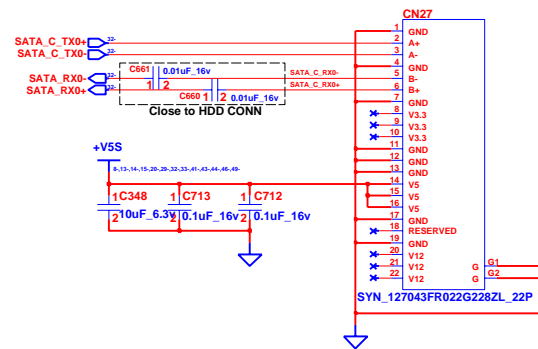
INVENTEC

TITLE
TT2.0
TPM V1.2

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 39 OF 70



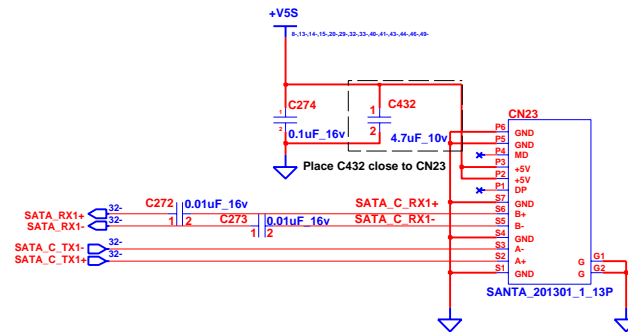
HDD CONN

INVENTEC

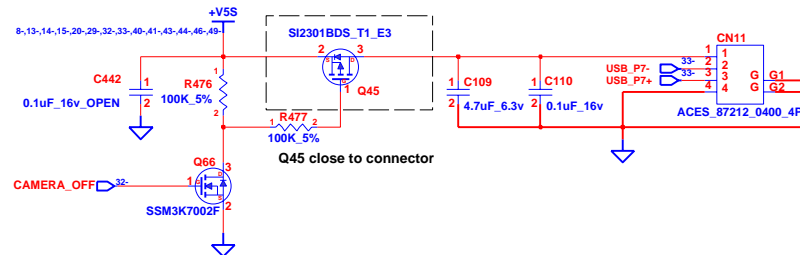
TITLE			
TT2.0 SATA HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 40 OF 70



ODD SATA CONNECTOR



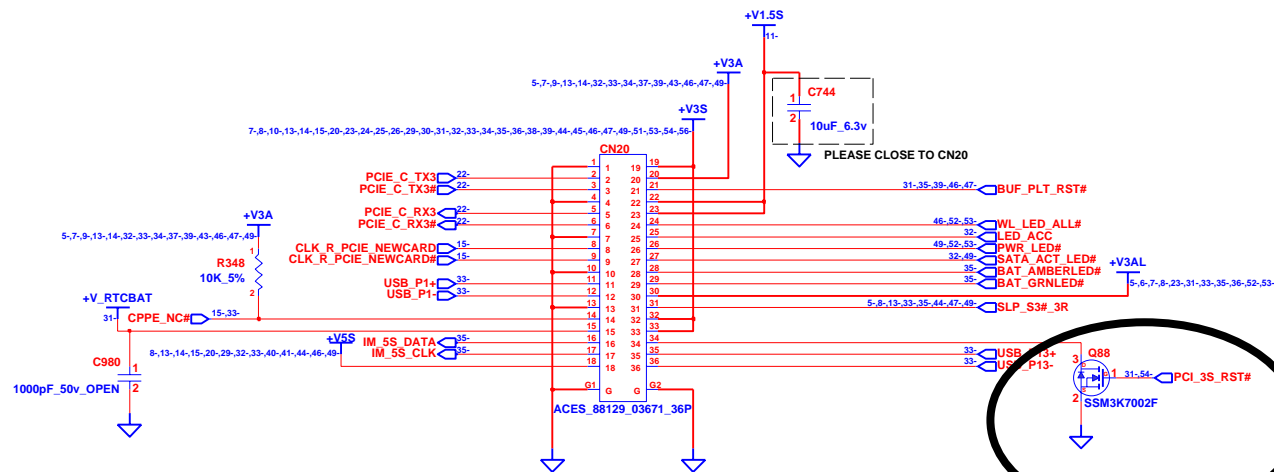
USB WEBCAM CONNECTOR

INVENTEC

TITLE			
TT2.0			
SATA ODD & USB WEBCAM			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 41 OF 70



1 GND	19 +V3S
2 PCIE_C_TXP	20 +V3A
3 PCIE_C_TXN	21 PLT_RST#
4 GND	22 +V1.5S
5 PCIE_C_RXP	23 +V1.5S
6 PCIE_C_RXN	24 WL_LED_ALL#
7 GND	25 ACC_LED#
8 CLK_R_PCIE_NEWCARD	26 STBY_LED#
9 CLK_R_PCIE_NEWCARD#	27 LED_3S_SATA#
10 GND	28 BAT_AMBER_LED#
11 USB_P+	29 BAT_GRN_LED#
12 USB_P-	30 +V3AL
13 GND	31 SLP_S3#_3R
14 CLK_R_REQ#	32 +V3S
15 +V_RTCBAT	33 +V3S
16 TOUCHPAD DATA	34 FPR_OFF
17 TOUCHPAD CLK	35 USB_P+
18 +V5S	36 USB_P-

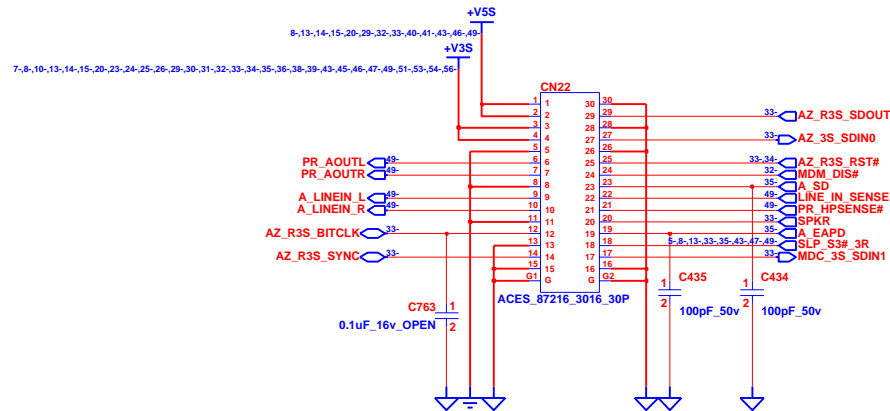
EXPRESSCARD DAUGHTER BOARD CONNECTOR MAIN SIDE

INVENTEC

TITLE			
TT2.0			
Express DB CONN-MB SIDE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 43 OF 70



1 +V5S	30 GND
2 +V5S	29 AZ_R3S_SDOUT
3 +V3S	28 GND
4 +V3S	27 AZ_3S_SDIN0
5 GND	26 GND
6 PR_AOUT_L	25 AZ_R3S_RST#
7 PR_AOUT_R	24 MDM_DIS#
8 GND	23 A_SD
9 A_LINEIN_L	22 LINE_IN_SENSE
10 A_LINEIN_R	21 PR_HPSENSE#
11 GND	20 SPKR
12 AZ_R3S_BITCLK	19 A_EAPD
13 GND	18 SLP_S3#_5R
14 AZ_R3S_SYNC	17 MDC_3S_SDIN1
15 GND	16 GND

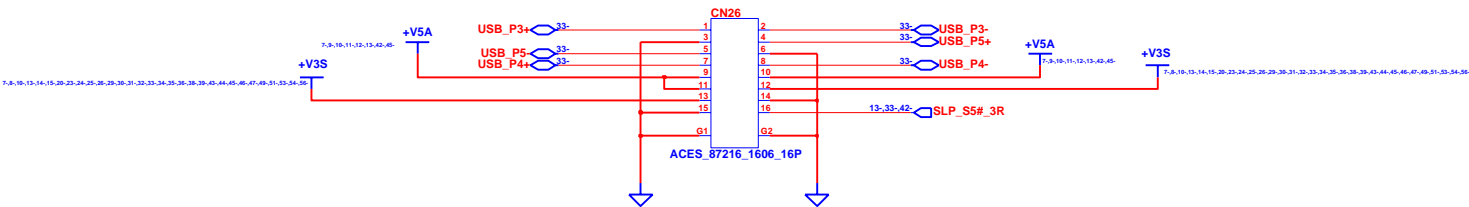
AUDIO DAUGHTER BOARD CONNECTOR MAIN BOARD SIDE

INVENTEC

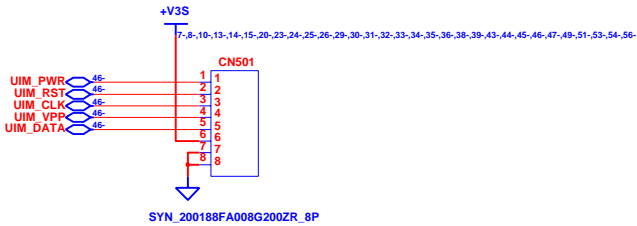
TITLE			
TT2.0			
Audio DB CONN-MB SIDE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 44 OF 70



7 IN 1 daughter board connector MB SIDE



SIM card daughter board connector MB SIDE

INVENTEC

TITLE
TT2.0
7 IN 1 & SIM DB CONN

SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 45 OF 70

MINICARD CONN 1 BOTTOM (WLAN)

MINICARD CONN2 TOP TOP (WWAN)

INVENTEC

TITLE	<i>TT2.0</i> <i>MINICARD</i>
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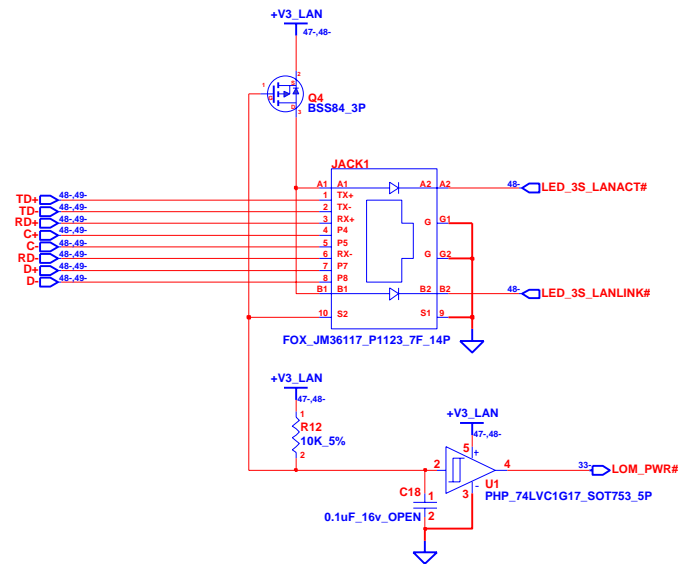
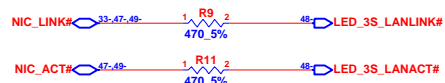
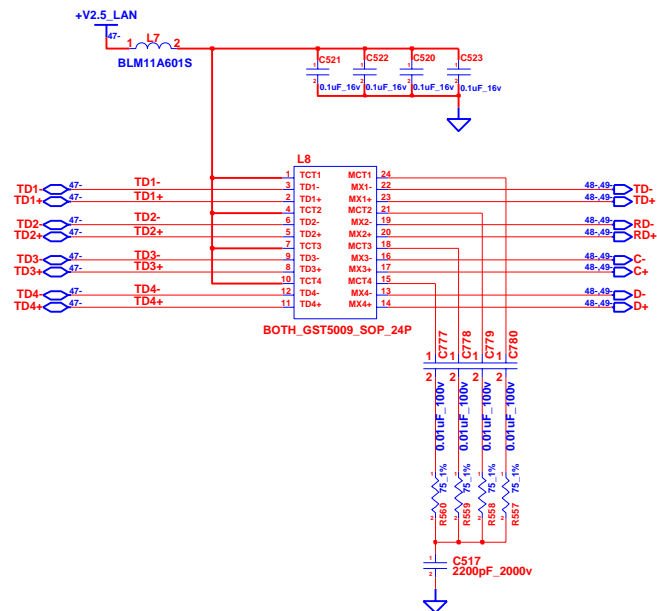
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
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CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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CS	1310A2150101
SHEET	46 OF 70

TITLE	<i>TT2.0</i> <i>LAN Interface</i>
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SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
SHEET 47 OF 70			



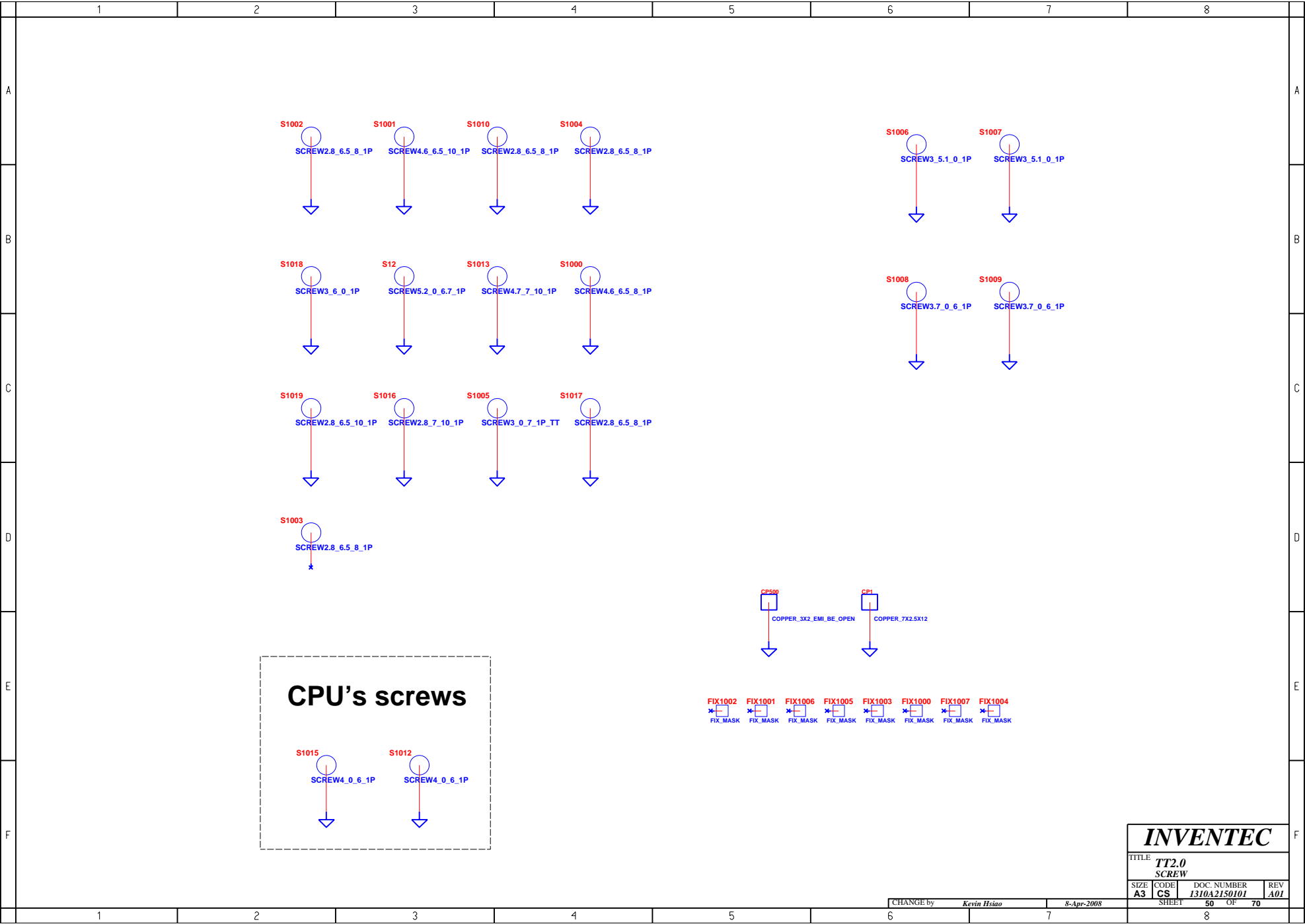
INVENTEC

TITLE
TT2.0
LAN RJ45 CONN

SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 48 OF 70



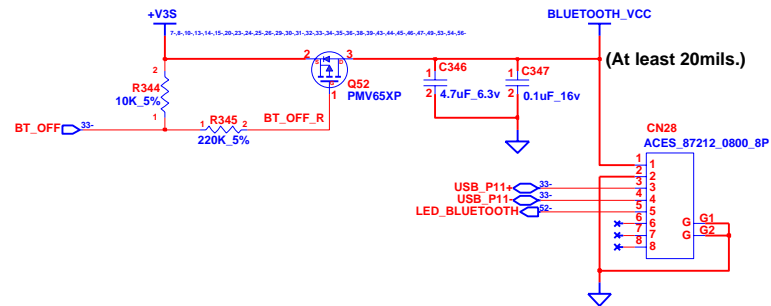
INVENTEC

TITLE
**TT2.0
SCREW**

SIZE CODE DOC. NUMBER REV
A3 CS I310A2150101 A01

CHANGE by *Kevin Hsiao* 8-Apr-2008

SHEET 50 OF 70



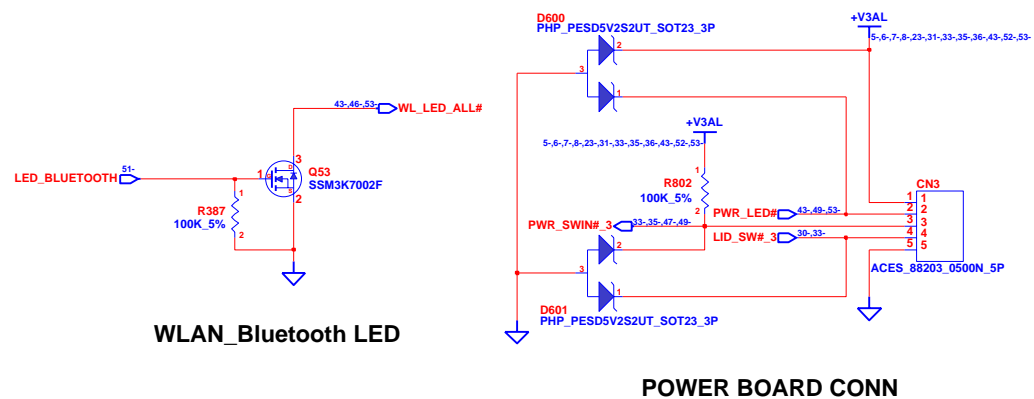
INVENTEC

TITLE
**TT2.0
BLUETOOTH**

SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01
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CHANGE by *Kevin Hsiao* 8-Apr-2008

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INVENTEC			
TITLE			
TT2.0			
LED/POWER SWITCH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
CHANGE by		8-Apr-2008	
SHEET		52	OF 70
		8	

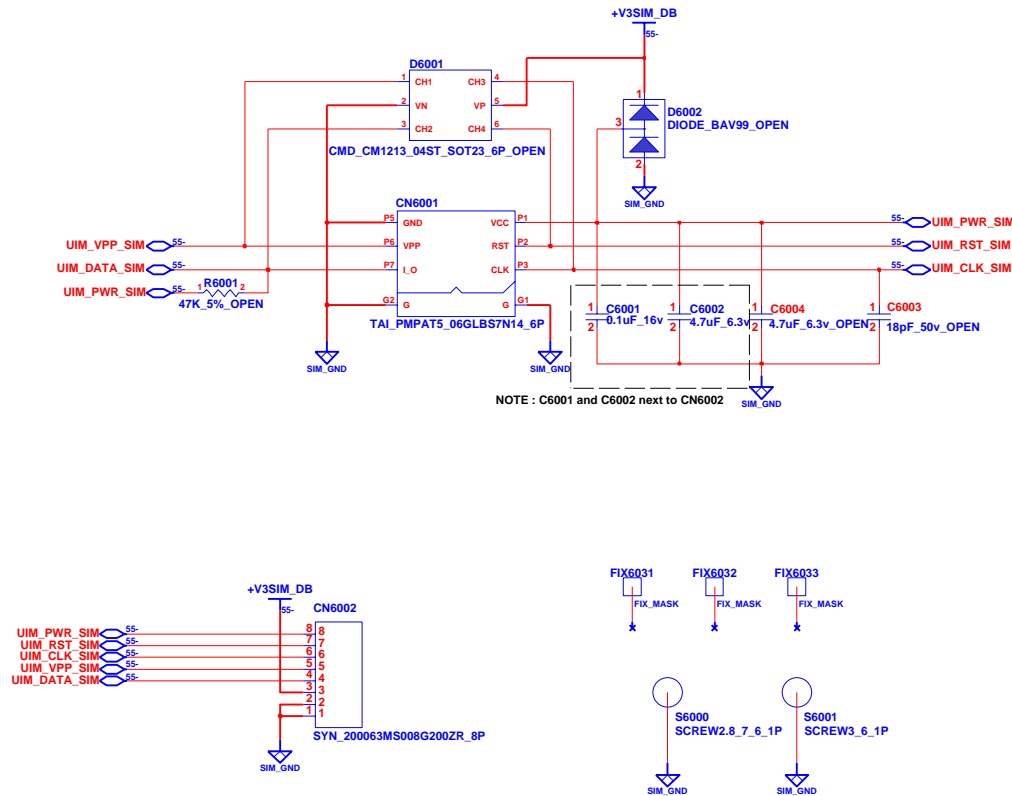
1394 Controller

INVENTEC

TITLE <i>TT2.0</i> <i>1394</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>1310A2150101</i>	REV <i>A01</i>

CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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SHEET 54 OF 70



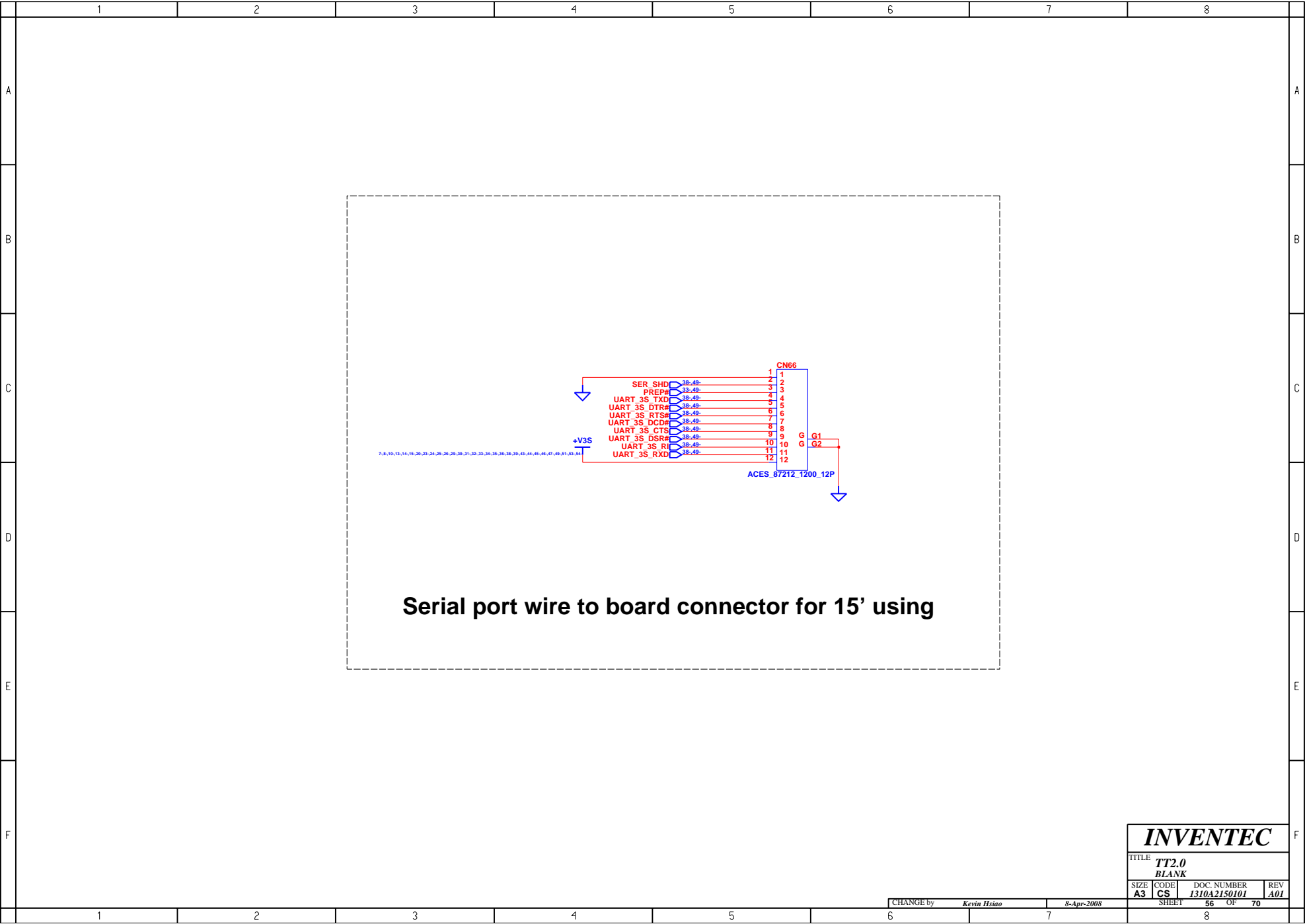
SIM CARD Daughter Board

INVENTEC

TITLE			
TT2.0 SIM CARD Daughter Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

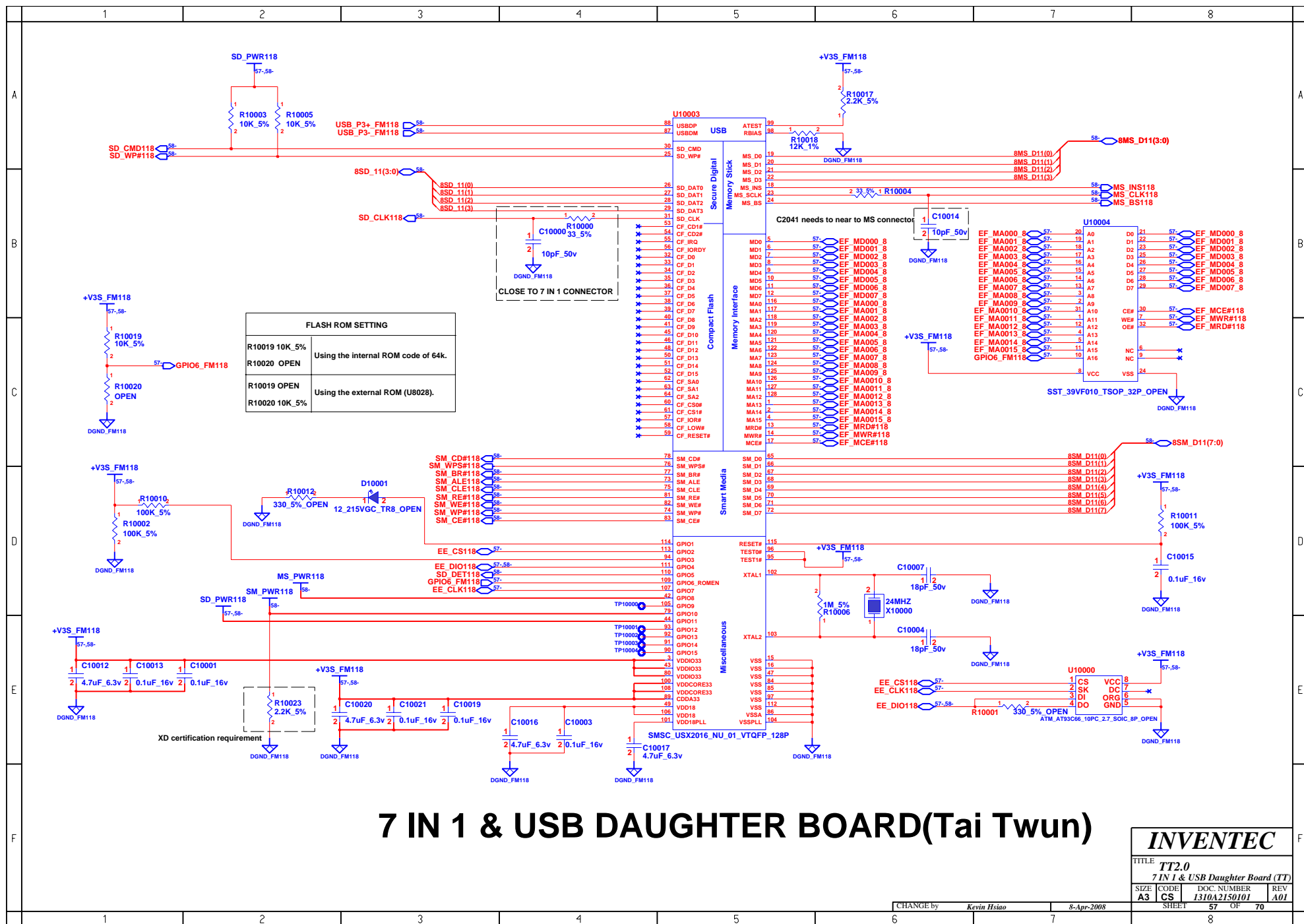
SHEET 55 OF 70

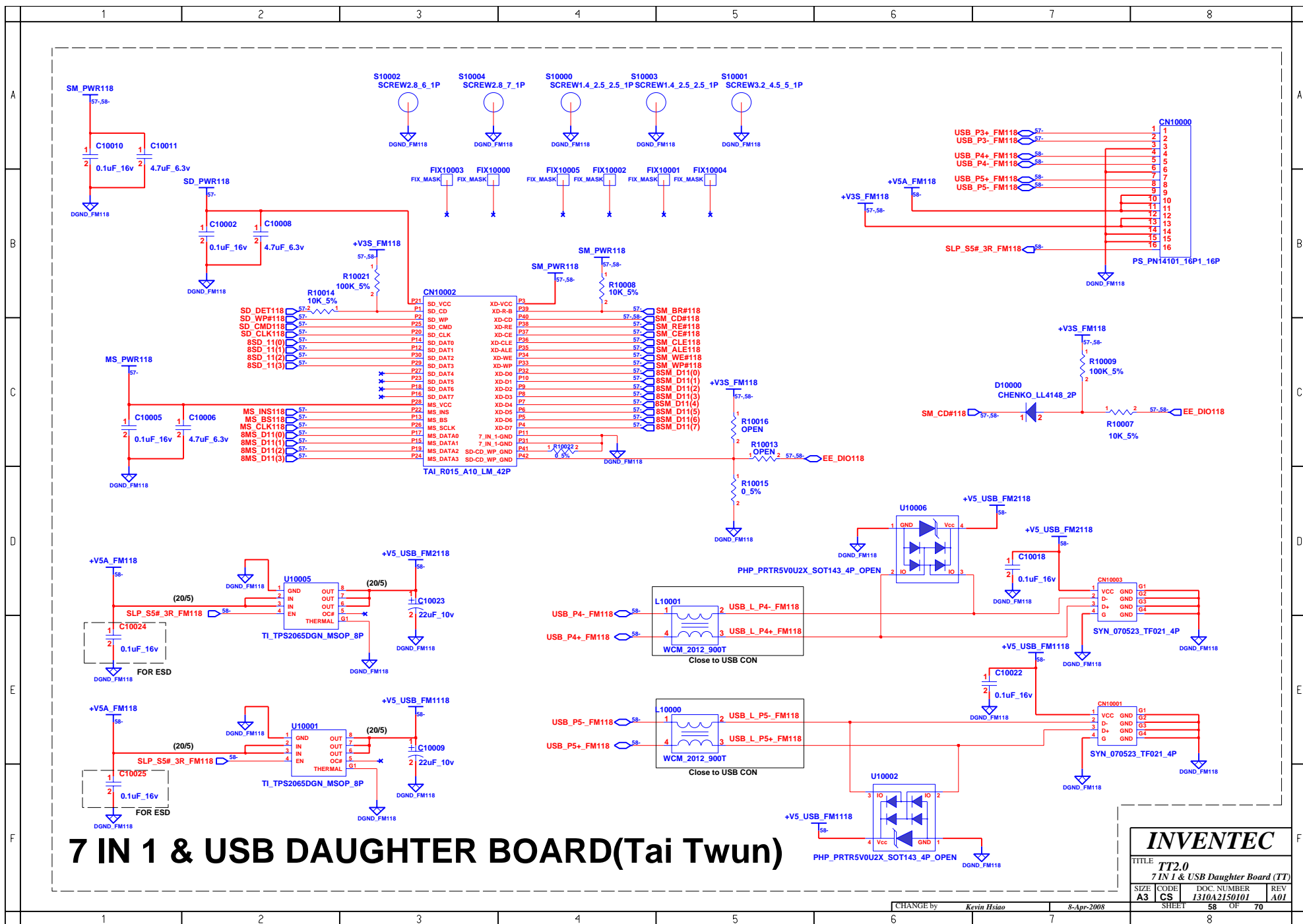


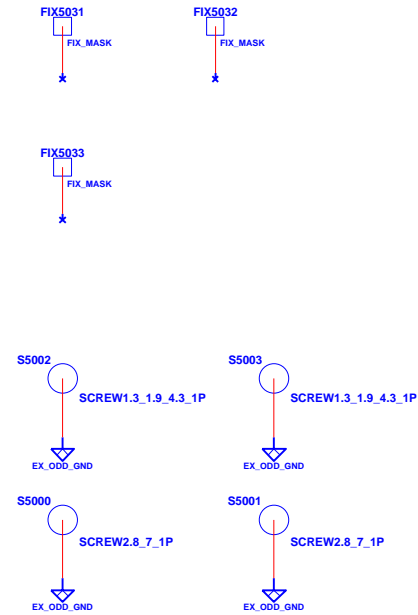
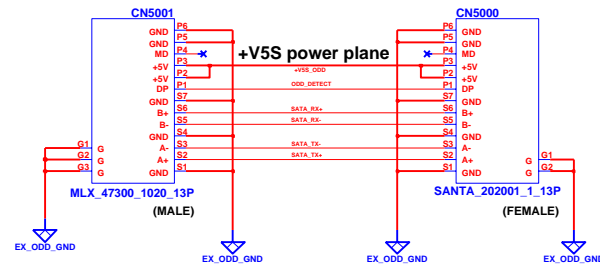
INVENTEC			
TITLE TT2.0 BLANK			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 56 OF 70







15" only

ODD Extension Board

INVENTEC			
TITLE TT2.0			
ODD Extension Board			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET 59		OF 70	

SERIAL BOARD

FIX13001 FIX13002 FIX13003
FIX_MASK FIX_MASK FIX_MASK
FIX13004 FIX13005 FIX13006
FIX_MASK FIX_MASK FIX_MASK

INVENTEC

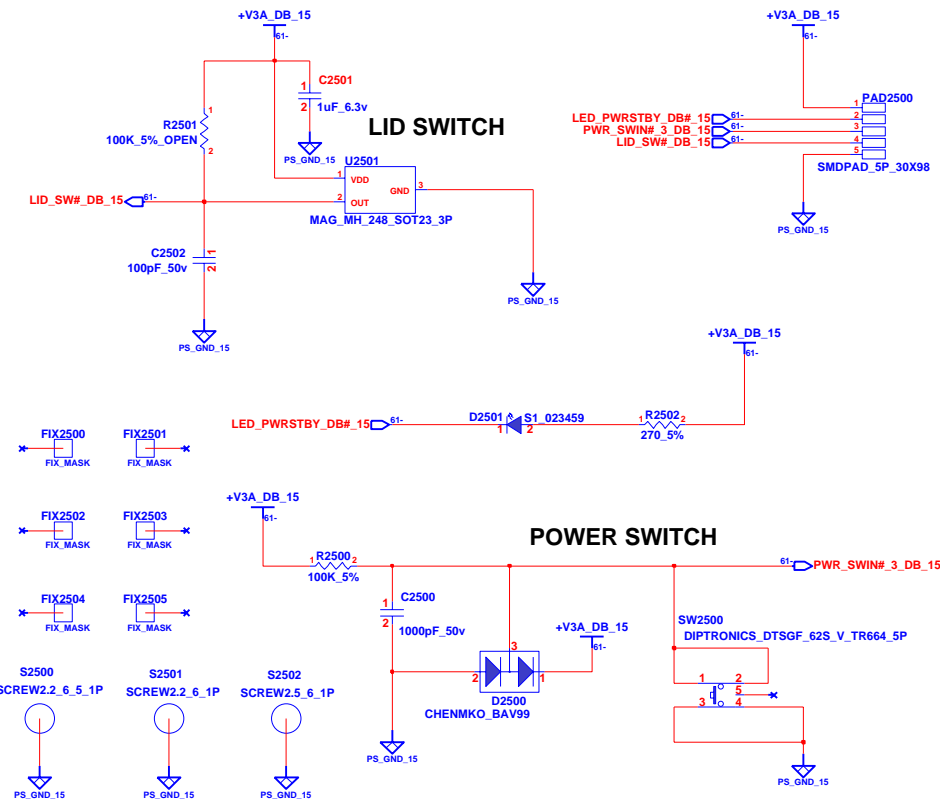
TITLE	<i>TT2.0</i> <i>SERIAL BOARD</i>
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SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
SHEET 60 OF 70			

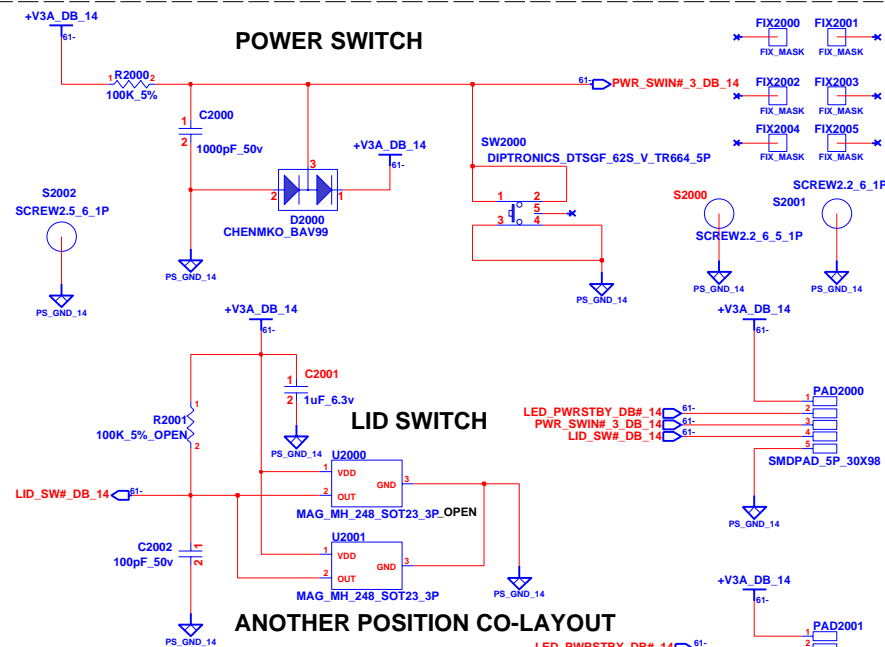
CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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8

DD08 15" HALL SENSOR BOARD

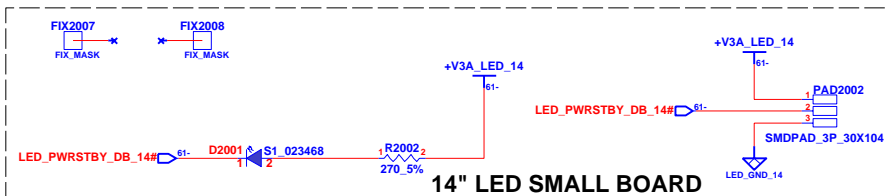


POWER SWITCH



LID SWITCH

ANOTHER POSITION CO-LAYOUT



14" LED SMALL BOARD

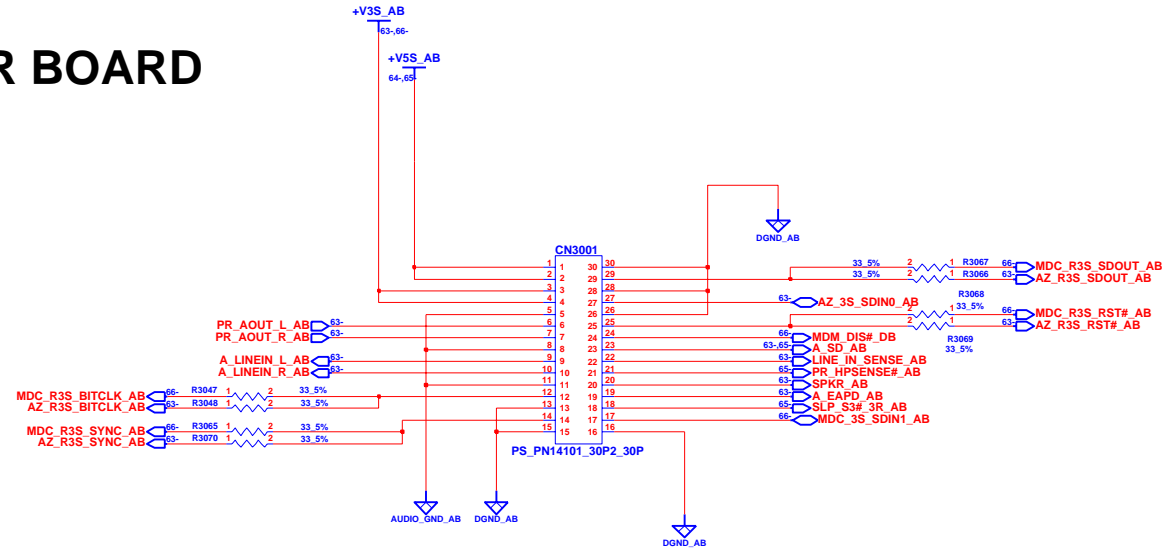
DD08 14" HALL SENSOR BOARD

POWER BUTTON BOARD

INVENTEC

TITLE TT2.0 POWER BUTTON/LID SWITCH			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET		61	OF 70

AUDIO DAUGHTER BOARD



Audio CONN

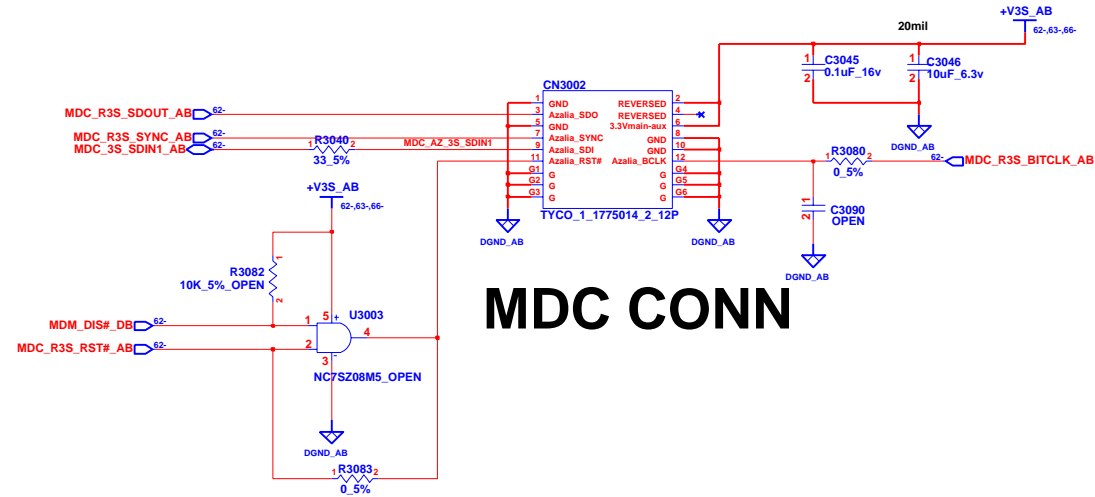
- | | |
|-----------------------------------|----------------------|
| 1. AGND | 16. AZ_3S_SDIN0_AB |
| 2. PR_AOUT_L | 17. MDC_3S_SDIN1_AB |
| 3. PR_AOUT_R | 18. SLP_S3#_3R_AB |
| 4. AGND | 19. A_EAPD_AB |
| 5. PR_LINEIN_L | 20. SPKR_AB |
| 6. PR_LINEIN_R | 21. PR_HPSENSE#_AB |
| 7. AGND | 22. LINE_IN_SENSE_AB |
| 8. +V5S | 23. A_SD_AB |
| 9. +V5S | 24. MODEM DISABLE# |
| 10. +V3S | 25. DGND |
| 11. +V3S | 26. DGND |
| 12. AZ_R3S_BITCLK(MDC_R3S_BITCLK) | 27. DGND |
| 13. AZ_R3S_SDOUT(MDC_R3S_SDOUT) | 28. DGND |
| 14. AZ_R3S_SYNC(MDC_R3S_SYNC) | 29. DGND |
| 15. AZ_R3S_RST#(MDC_R3S_RST#) | 30. DGND |

**INVENTEC**

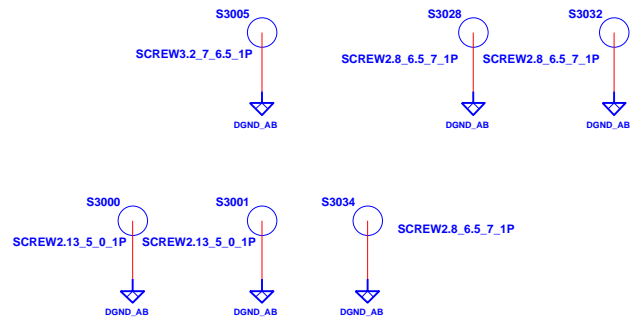
TITLE TT2.0 AUDIO CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET 62		OF 70	

TITLE			
<i>TT2.0</i> <i>AUDIO AMP & INT SPEAKER</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>1310A2150101</i>	<i>A01</i>
SHEET		65	OF 70

AUDIO DAUGHTER BOARD

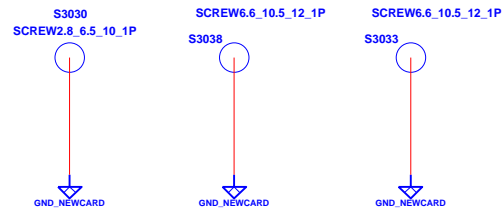
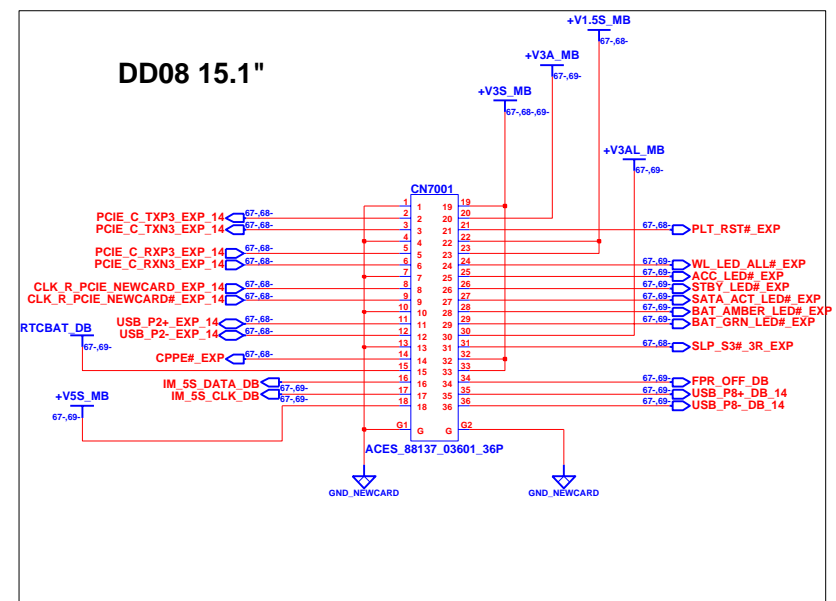
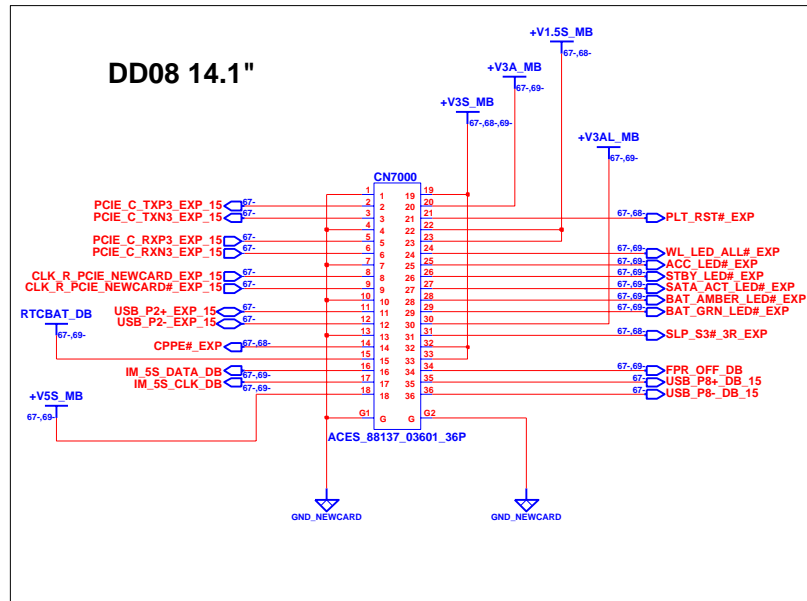


MDC CONN

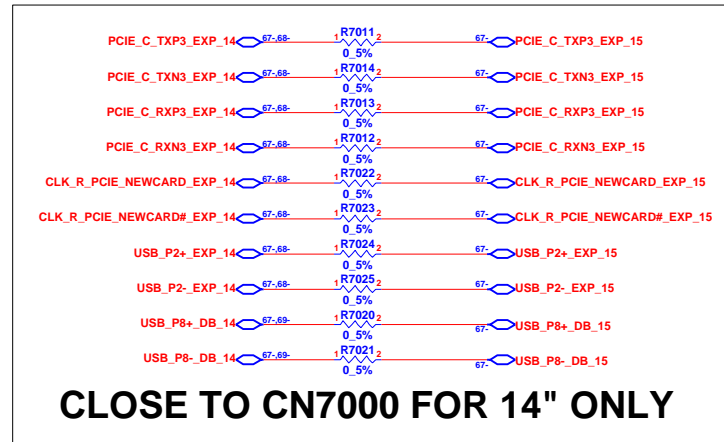


INVENTEC

TITLE			
<i>TT2.0</i> MDC CONNECTOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>1310A2150101</i>	<i>A01</i>
SHEET		66	OF 70



- | | |
|-----------------------|------------------|
| 1 GND | 19 +V3S |
| 2 PCIE_C_TXP | 20 +V3A |
| 3 PCIE_C_TXN | 21 PLT_RST# |
| 4 GND | 22 +V1.5S |
| 5 PCIE_C_RXP | 23 +V1.5S |
| 6 PCIE_C_RXN | 24 WL_LED_ALL# |
| 7 GND | 25 ACC_LED# |
| 8 CLK_R_PCIE_NEWCARD | 26 STBY_LED# |
| 9 CLK_R_PCIE_NEWCARD# | 27 LED_3S_SATA# |
| 10 GND | 28 BAT_AMBERLED# |
| 11 USB_P+ | 29 BAT_GRNLED# |
| 12 USB_P- | 30 LED_3S_ODD# |
| 13 GND | 31 SLP_S3#_3R |
| 14 CLK_R_REQ# | 32 +V3S |
| 15 RTCBAT | 33 +V3S |
| 16 TOUCHPAD DATA | 34 FPR_OFF |
| 17 TOUCHPAD CLK | 35 USB_P8+ |
| 18 +VSS | 36 USB_P8- |



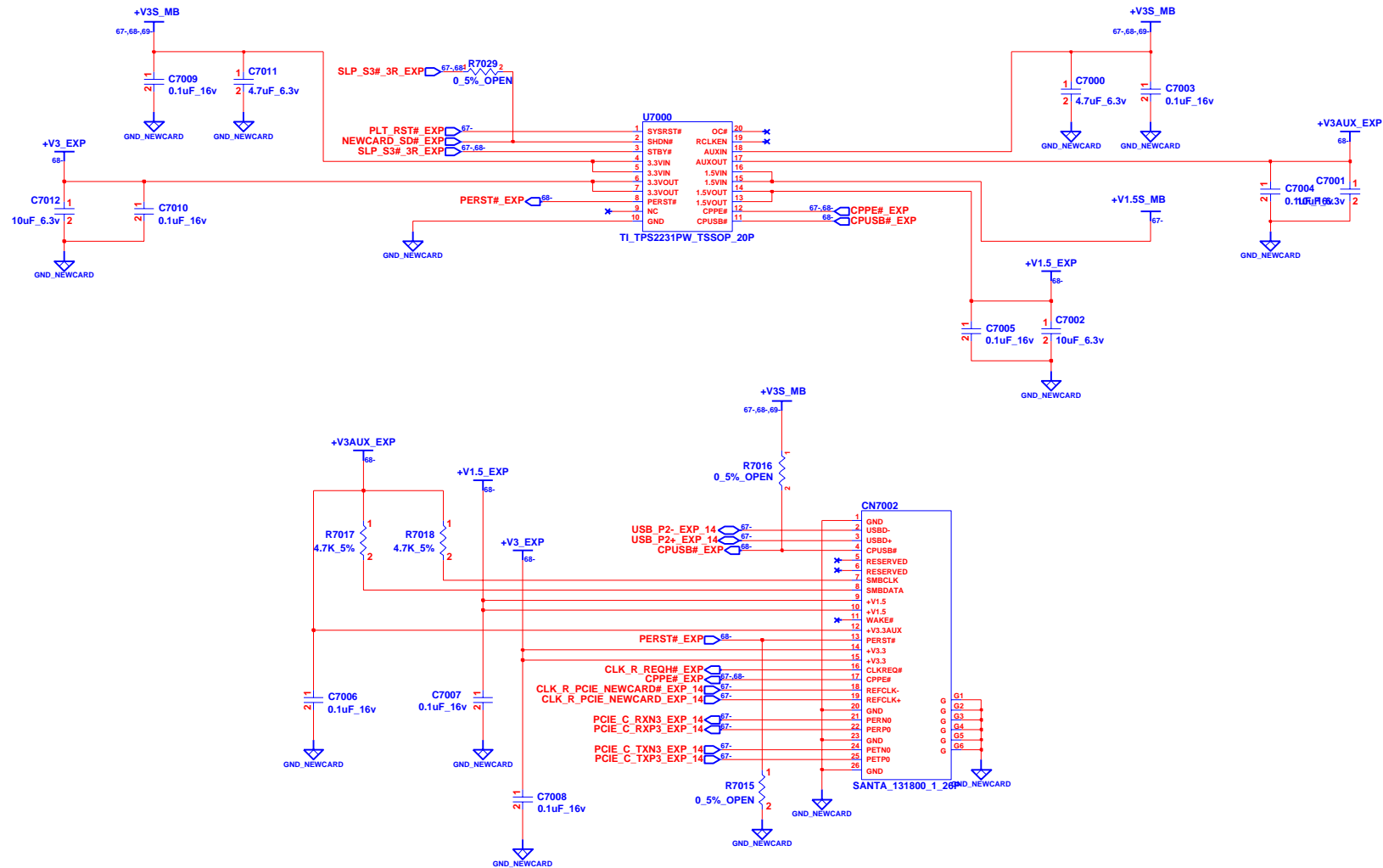
EXPRESS CARD DAUGHTER BOARD

INVENTEC

TITLE TT2.0 NEW CARD CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 67 OF 70



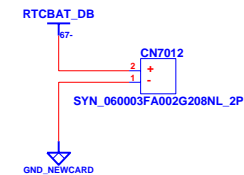
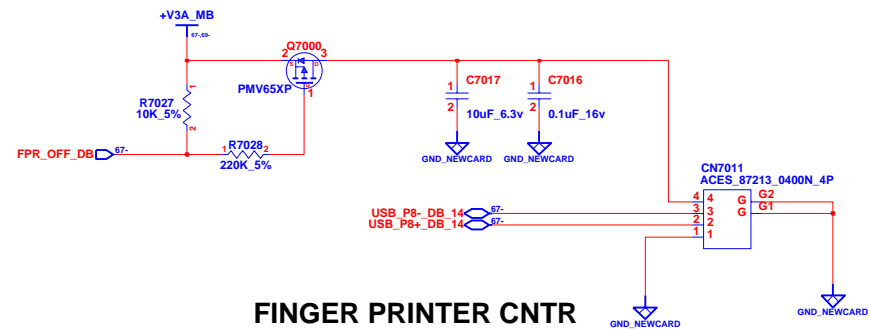
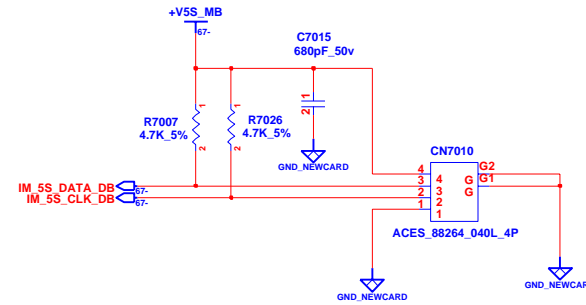
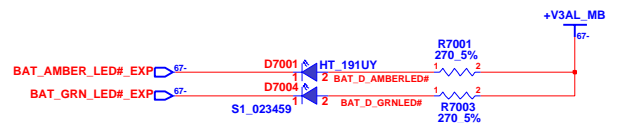
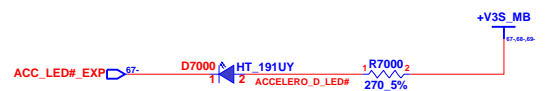
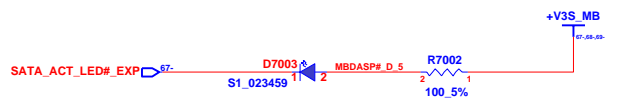
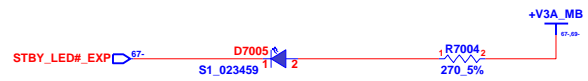
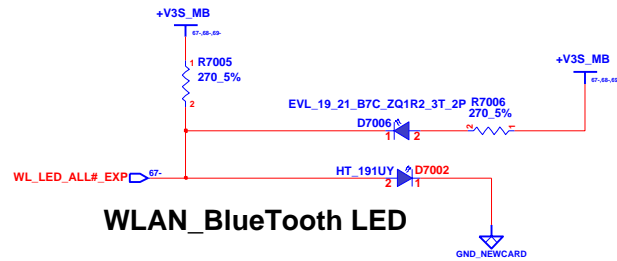
EXPRESS CARD DAUGHTER BOARD

INVENTEC

TITLE			
TT2.0 NEW CARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET		68	OF 70

CHANGE by Kevin Hsiao 8-Apr-2008

EXPRESS CARD DAUGHTER BOARD



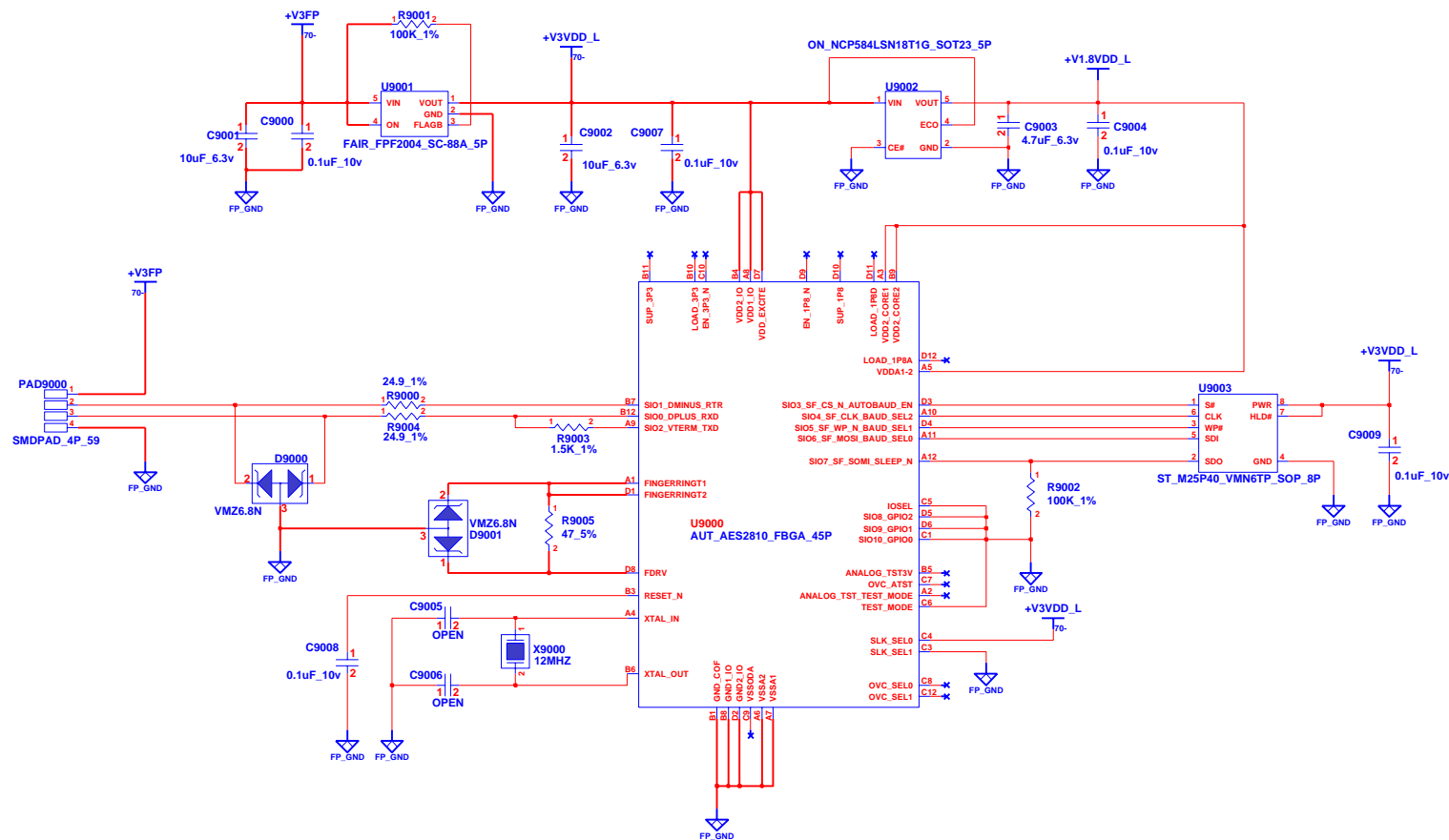
INVENTEC

TITLE
TT2.0
NEW CARD LED

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 69 OF 70



Layout notes :

1. Placed R5 close to U1
2. Placed D1 closed to R5
3. D1 & D2 pin_A to GND should be a short trace(20mil max) using three via to connect to GND.

Finger Print Reader DB

INVENTEC

TITLE			
TT2.0			
FINGER PRINT READER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 70 OF 70