

Table Of Content

PAGE

5- DC& Battery Charger
6- Selector & Battery CONN
7- +V5A, +V3A & +V1.8S
8- OCP
9- +VCC_NB & V1.2S
10- +VCC_CORE
11- POWER
12- DDR2 POWER
13- Power(Sleep)
14- Power(Sequence)
15- Clock Generator
16- AMD CPU-1
17- AMD CPU-2
18- AMD CPU-3
19- AMD CPU-4
20- Thermal & Fan Controller
21- RS780 -1
22- RS780 -2
23- RS780 -3
24- RS780 -4
25- DDR2-DIMM0
26- DDR2-DIMM1
27- DDR2-DAMPING
28- VIDEO MEMORY
29- CRT& S-Vedio CONN

PAGE

30- LCD CONN
31- SB700-1
32- SB700-2
33- SB700-3
34- SB700-4
35- KBC
36- SPI & Accelero-Meter
37- INT. KBC/Touch Pad Devices
38- Super I/O
39- TPM V1.2
40- HDD CONN (SATA)
41- SATA ODD & USB WEBCAM
42- USB CONN
43- Express DB CONN-MB SIDE
44- Audio DB CONN-MB SIDE
45- 7 IN 1 & SIM DB CONN-MB SIDE
46- MiniCard
47- LAN Interface
48- LAN RJ45 CONN
49- Docking CONN
50- Screw
51- BlueTooth
52- Power/LED
53- SW/B connector

PAGE

54- 1394
55- SIM CARD Daughter Board
56- Serial Port Connector
57- 7 IN 1 & USB Daughter Board (TT)
58- 7 IN 1 & USB Daughter Board (TT)
59- ODD EXTENSION BOARD
60- SERIAL BOARD
61- POWER BUTTON/LID SWITCH
62- AUDIO CONN
63- AUDIO DAUGHTER BOARD
64- Earphone & MIC JACK
65- Audio AMP & INT. Speaker CONN
66- MDC CONN
67- NEW CARD CNTR
68- NEW CARD
69- NEW CARD LED
70- FINGER PRINT READER

INVENTECTITLE
TT2.0

SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
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CHANGE by **Kevin Hsiao** 8-Apr-2008SHEET **2** OF **70**

CLK GEN
ICS9LPRS476KLFT

AMD
Lion / Sable
S1G2 Socket/638 pin

AMD
RS780
FCBGA

AMD
SB700
FCBGA

1394
Controller
Agere
W322-07-NV100

1394
CONN

USB3 Flash media

SMSC USX2016

Audio

ADI_1984A

TPM

V1.2

Super I/O
47N217

KBC
SMSC 1091
(128P)

MDC
Modem Module
V1.5

Head Phone
MIC In
Line Out Docking
Line In Docking

Parallel Port
Docking

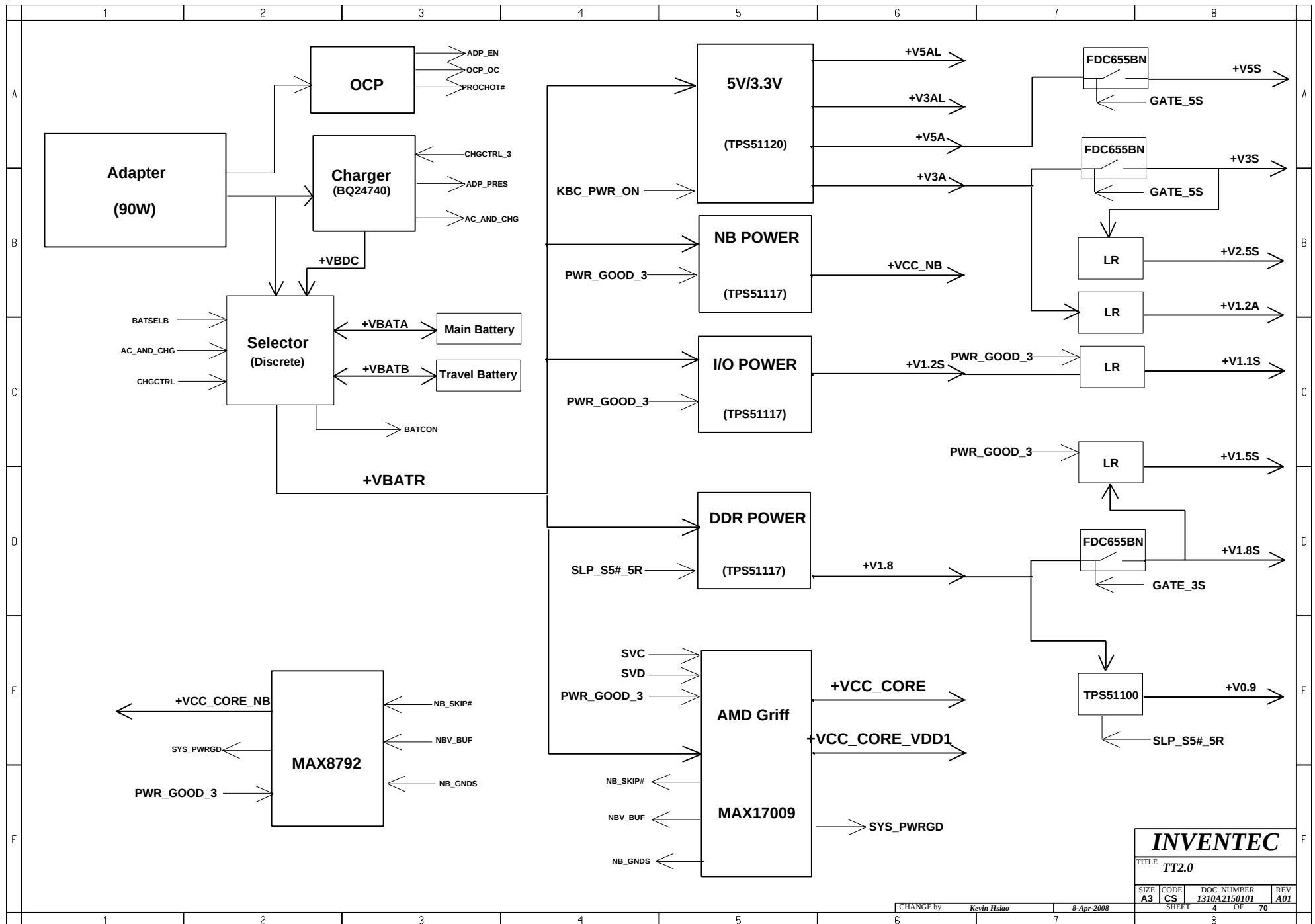
Internal Keyboard

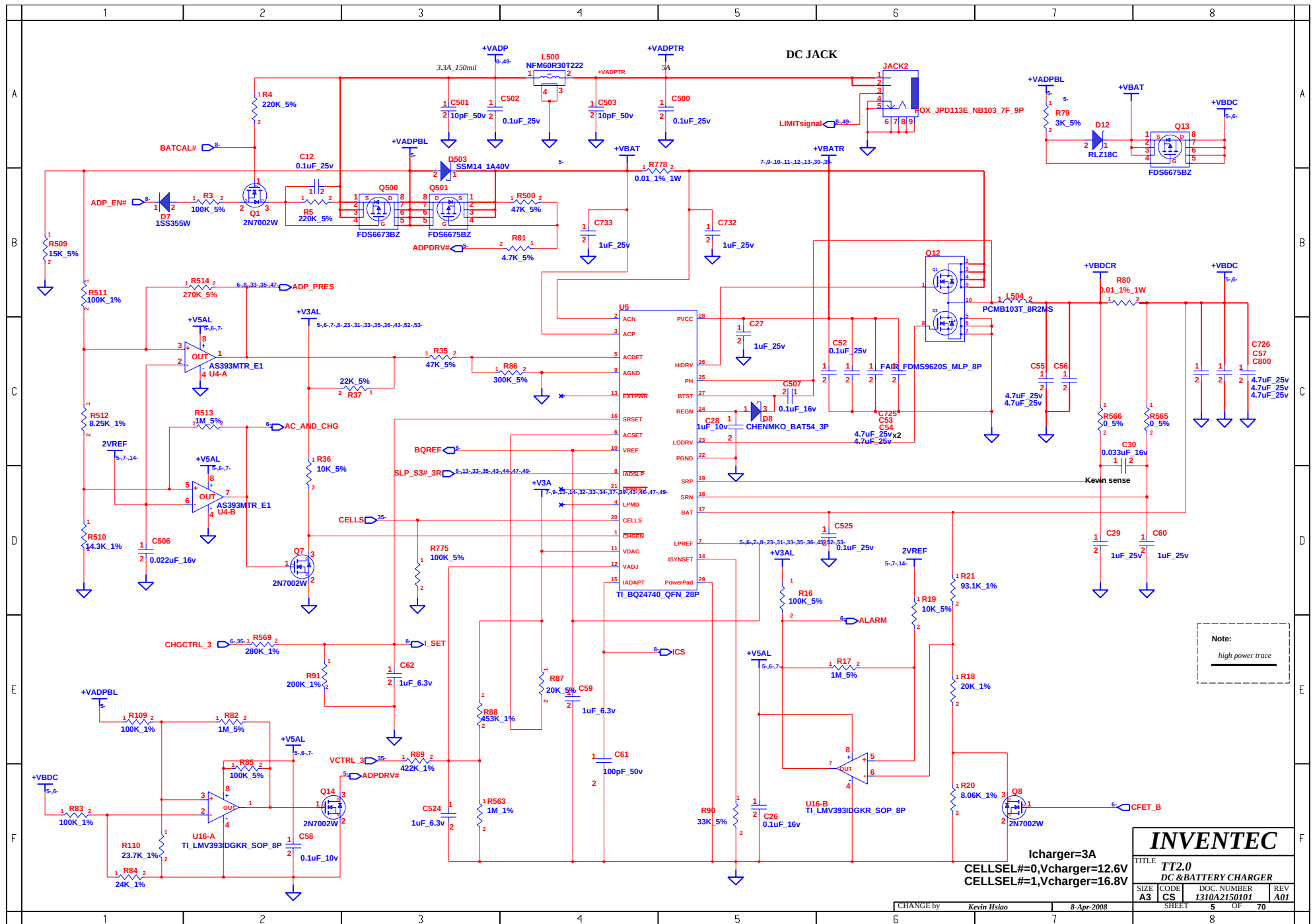
PS2 Port Docking

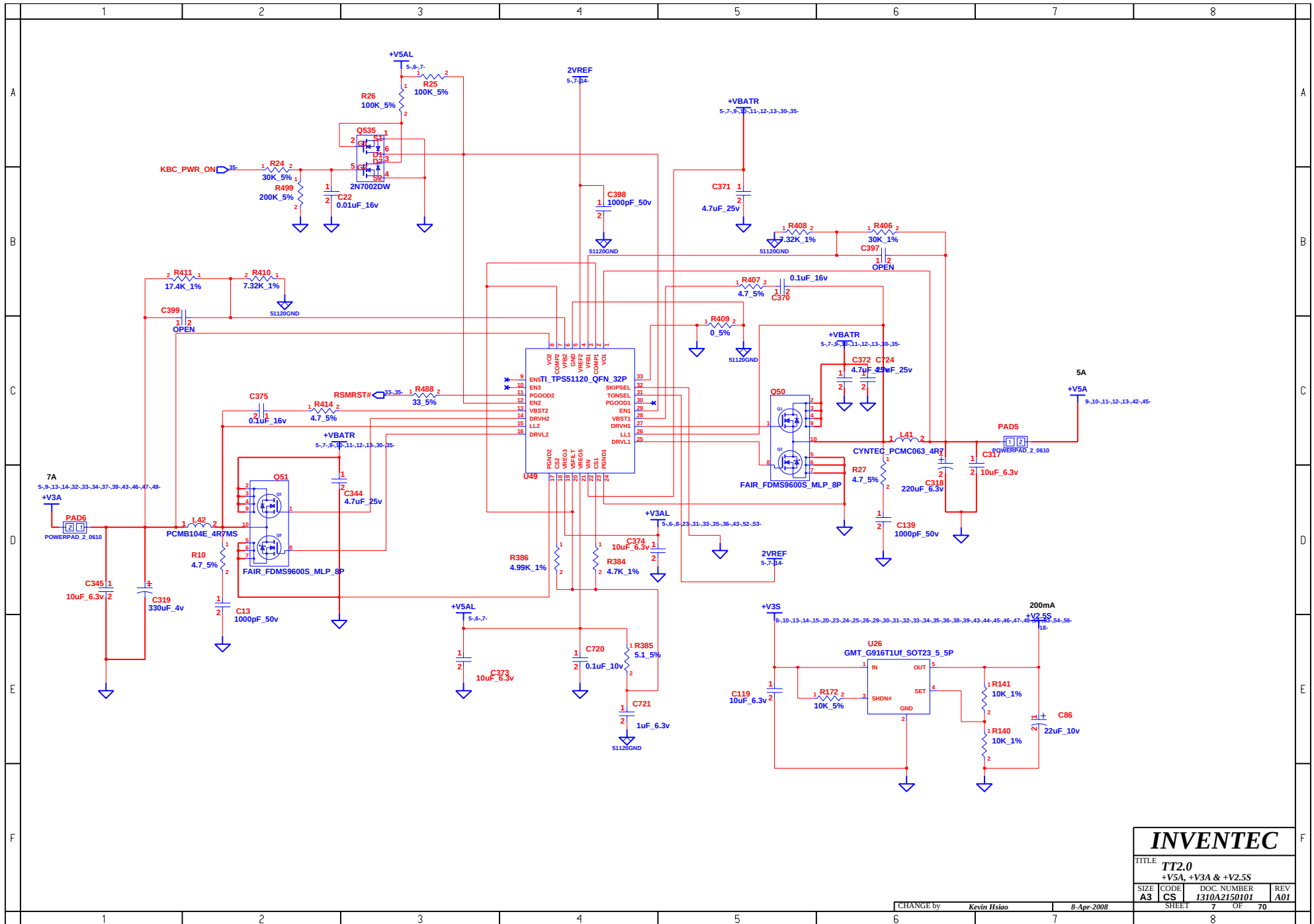
```

graph TD
    MB[MAIN BATT] --- SC[System Charger & DC/DC System power]
    TB[TRAVEL BATT] --- SC
  
```

INVENTEC			
TITLE TT2.0 Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV. A0
SHEET 3		OF 70	







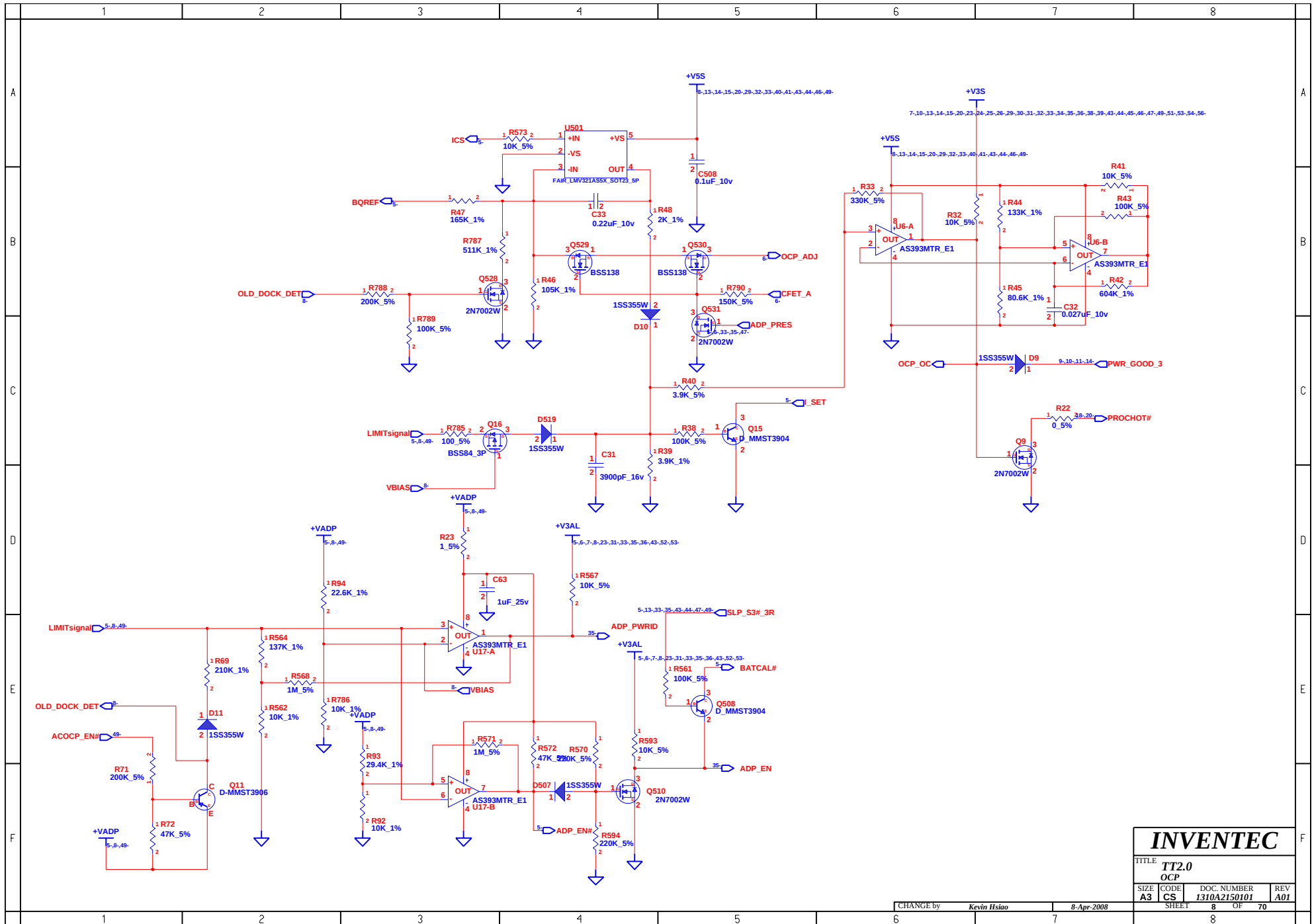
INVENTEC

TITLE
TT2.0
+V5A, +V3A & +V2.5S

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 7 OF 70

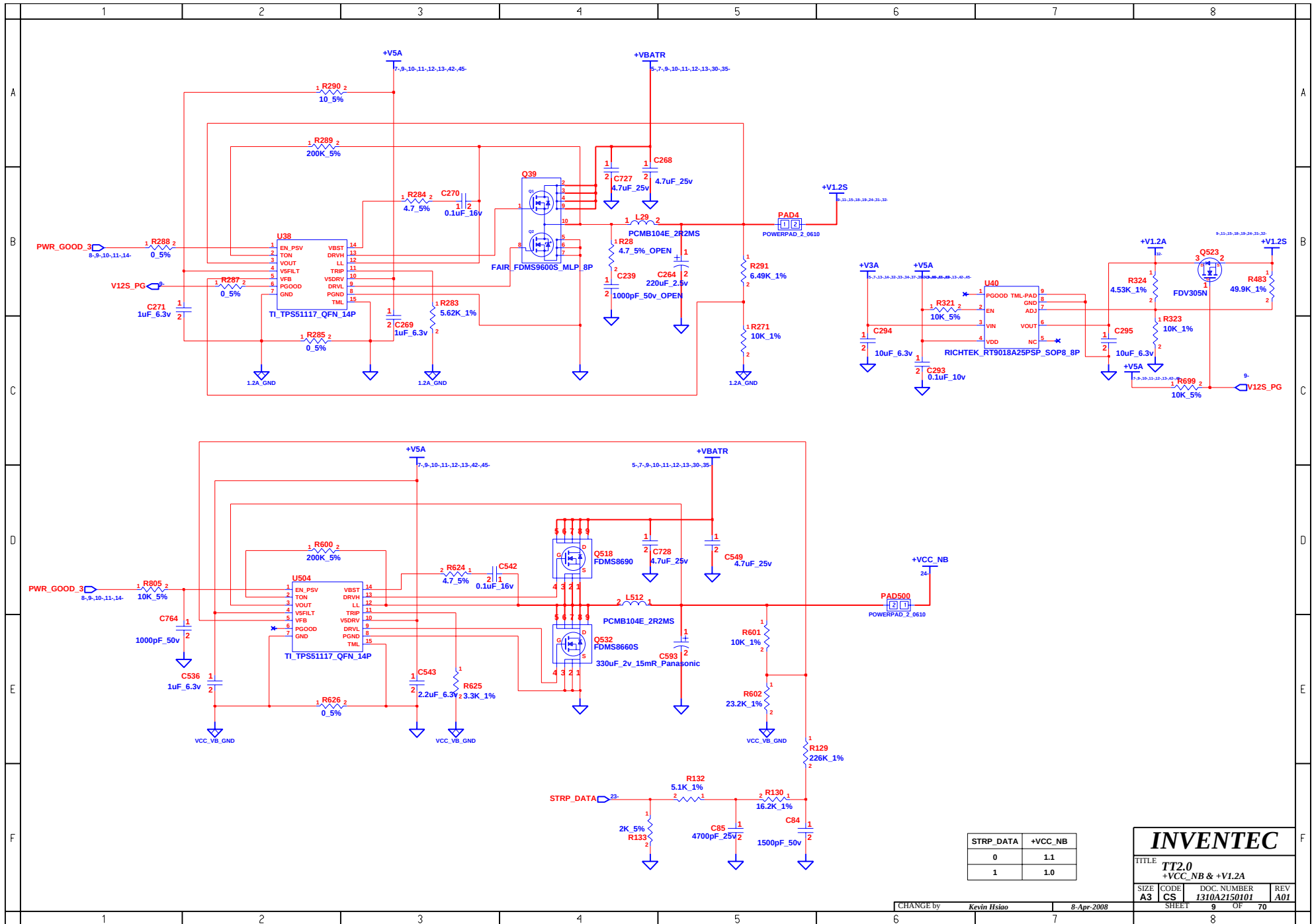


INVENTEC

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

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 8 OF 70



STRP_DATA	+VCC_NB
0	1.1
1	1.0

INVENTEC

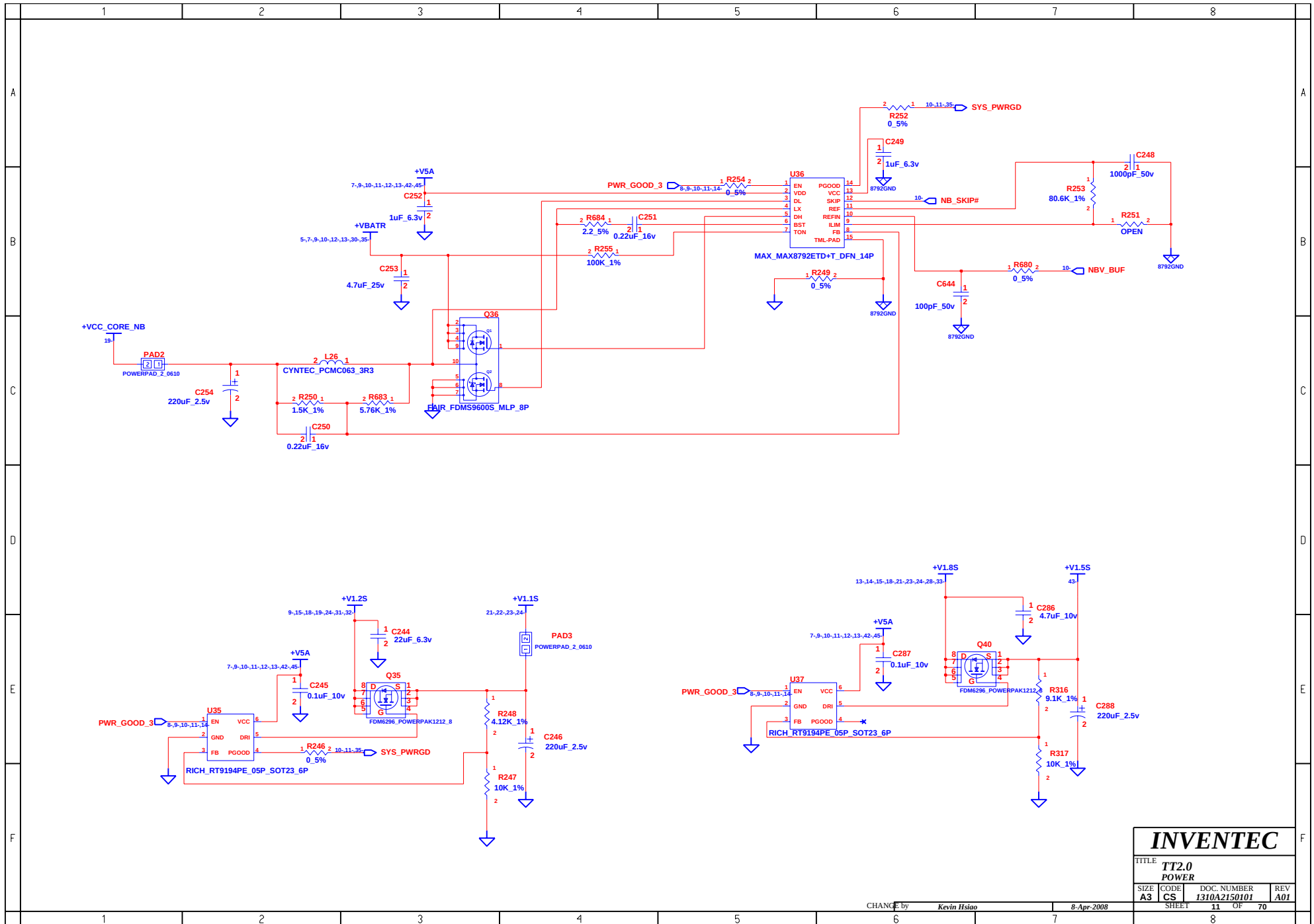
TITLE TT2.0 +VCC_NB & +V1.2A			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 9 OF 70

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

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

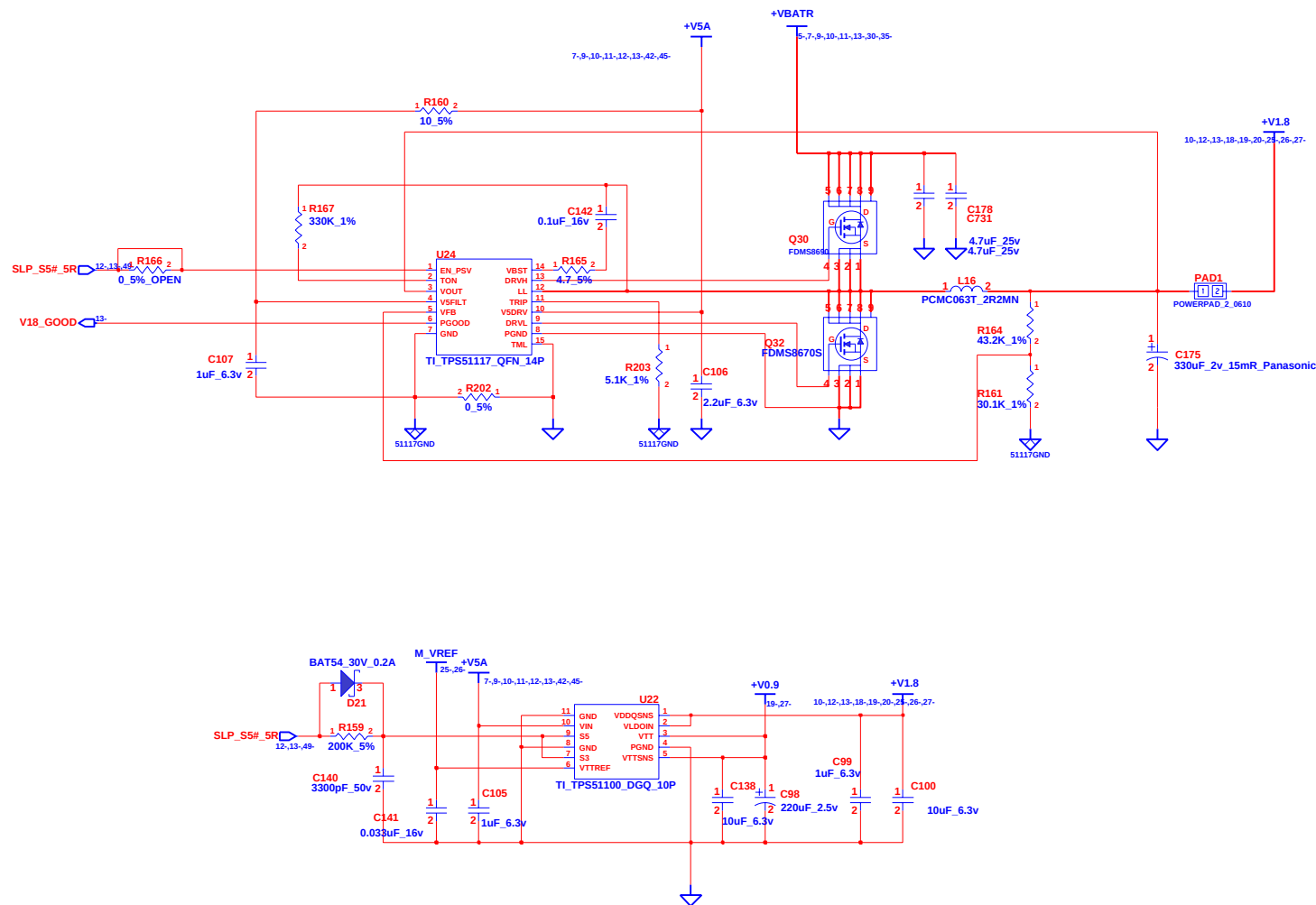


INVENTEC

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

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 11 OF 70



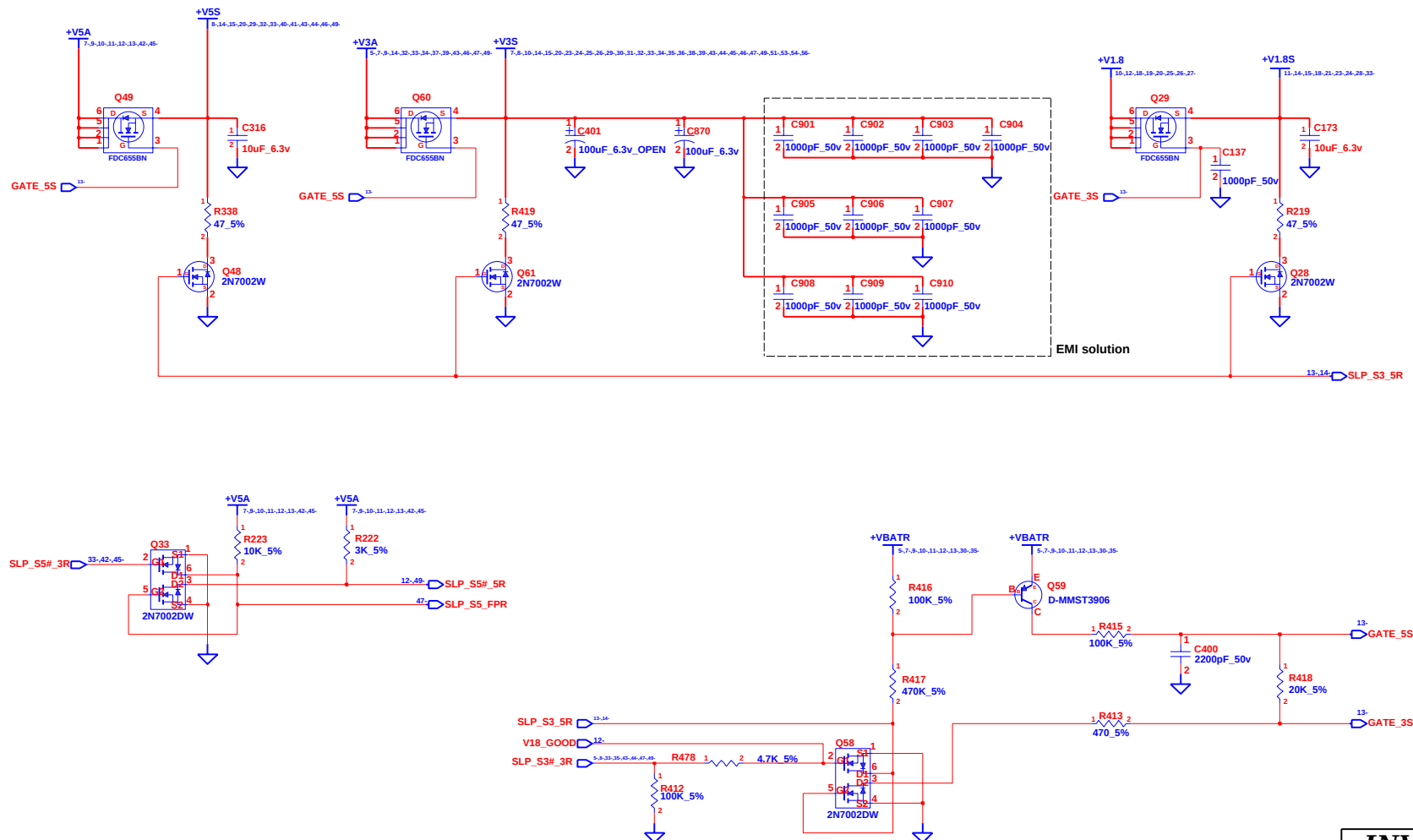
NOTE: DDR2 REGULATOR

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



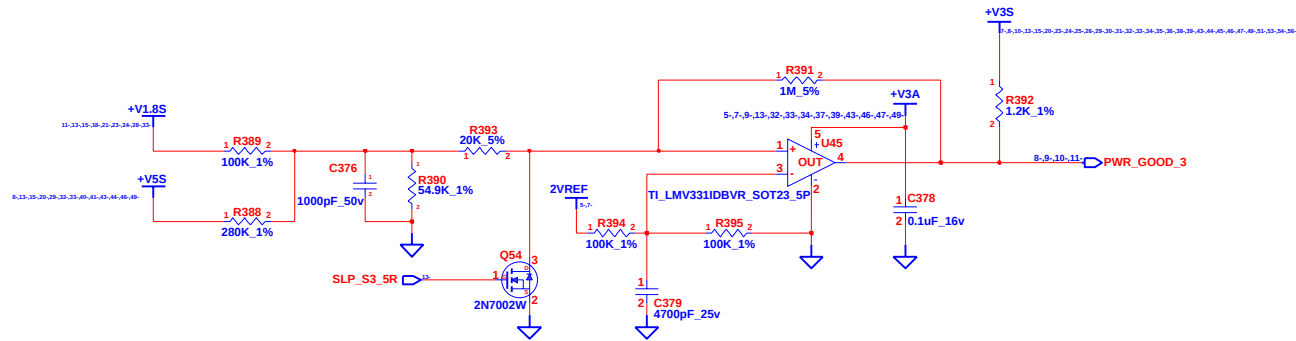
INVENTEC

TITLE
TT2.0
POWER(sleep)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 13 OF 70

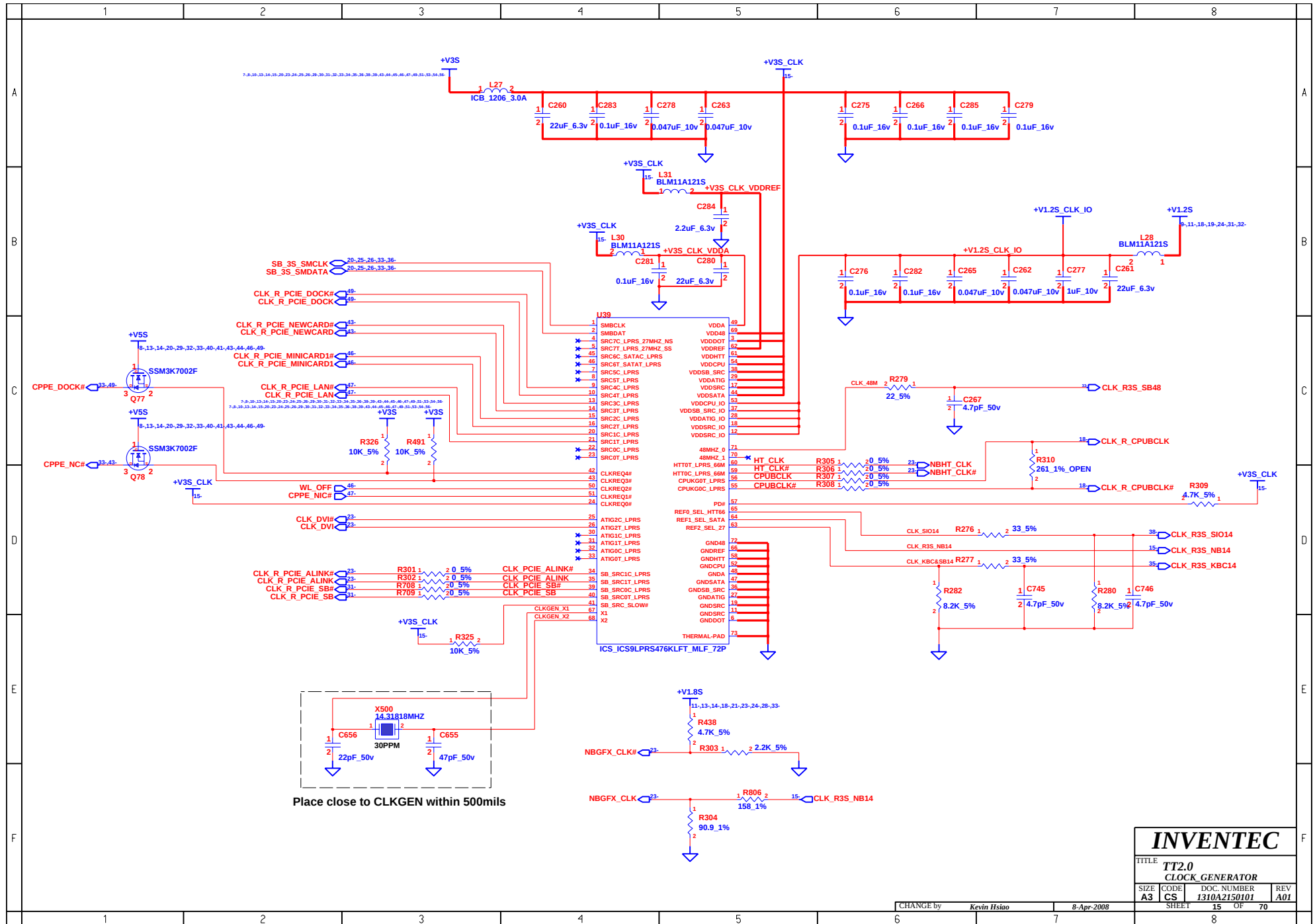
**INVENTEC**

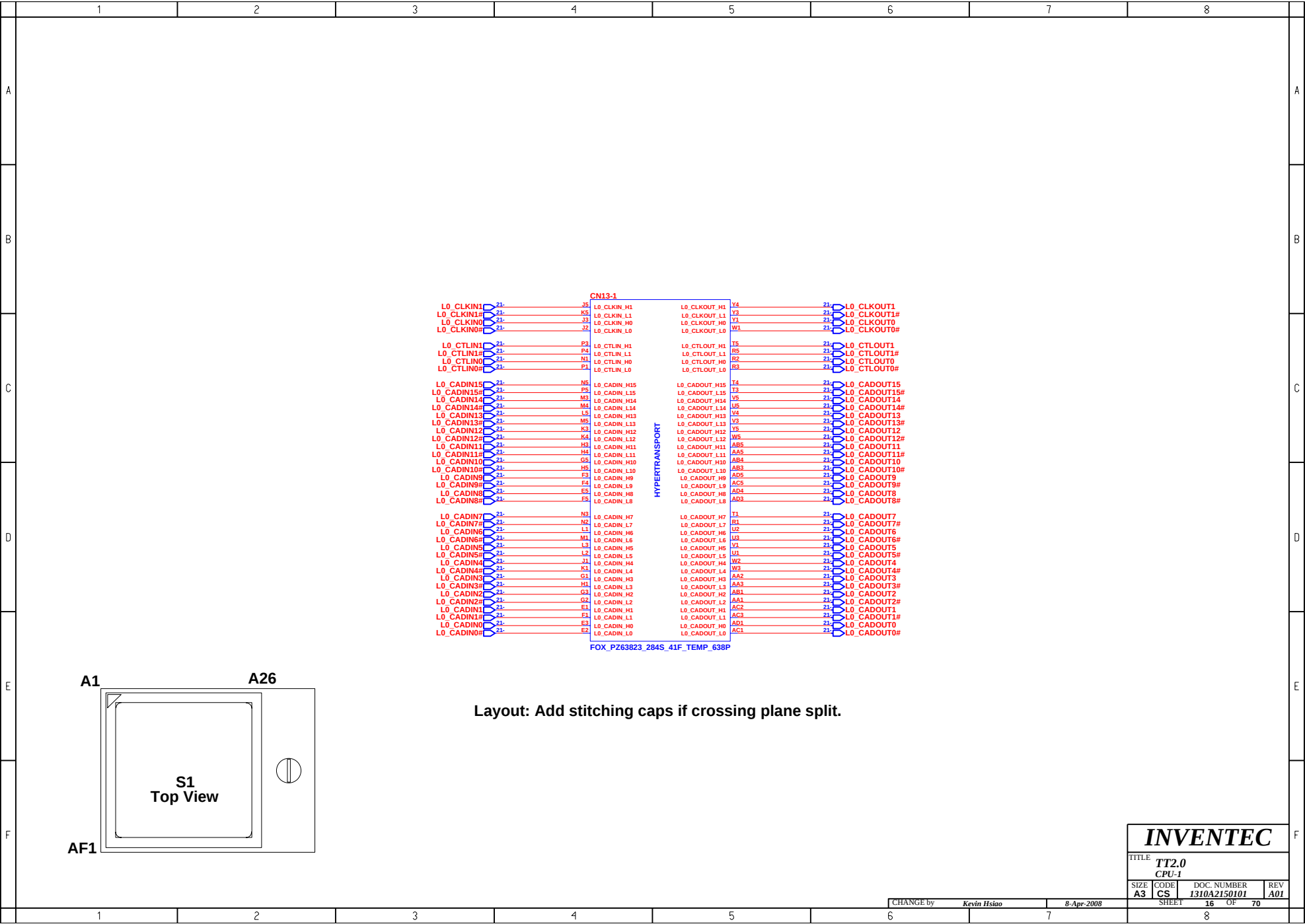
TITLE			
TT2.0			
POWER(Sequence)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

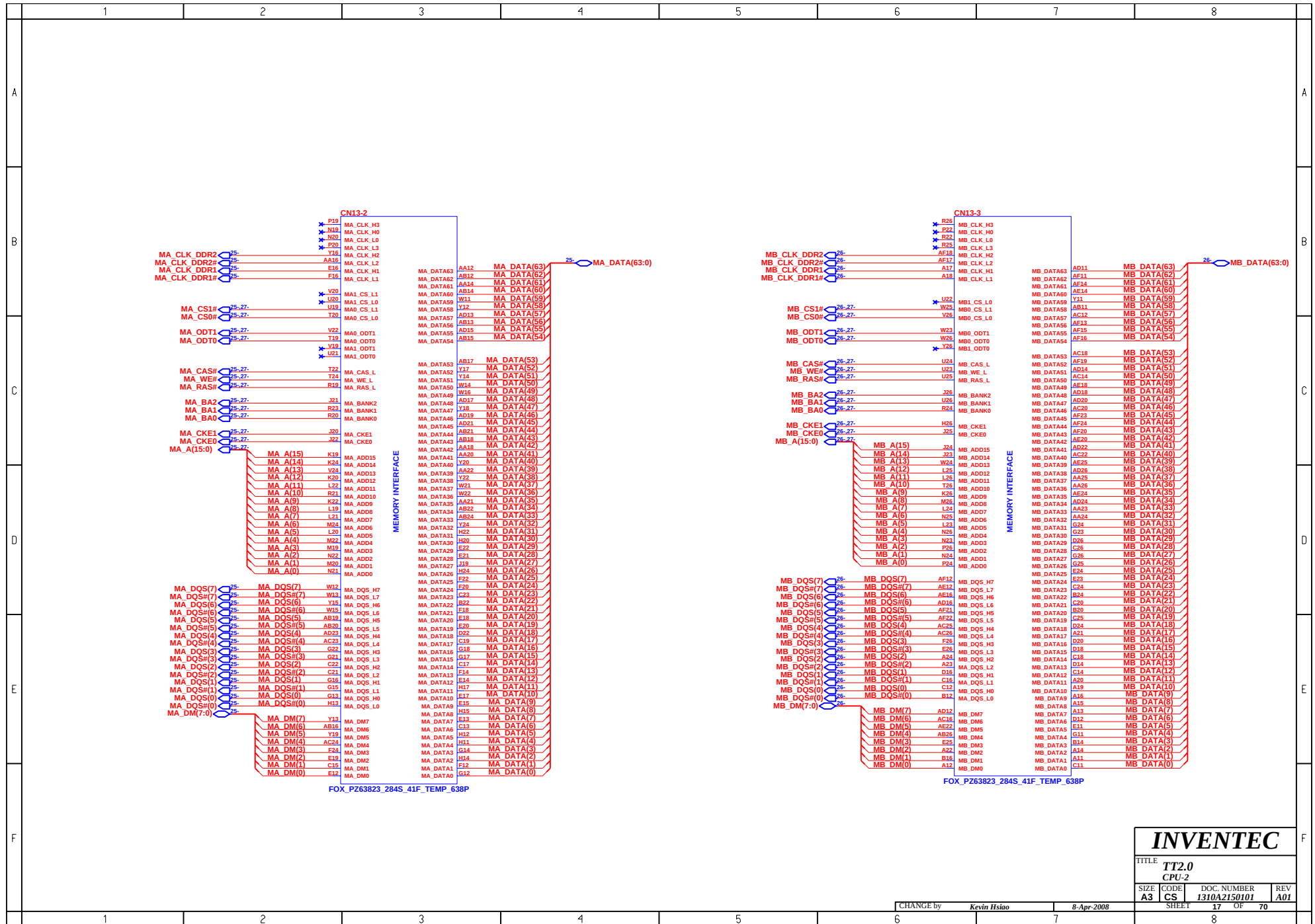
CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 14 OF 70

8







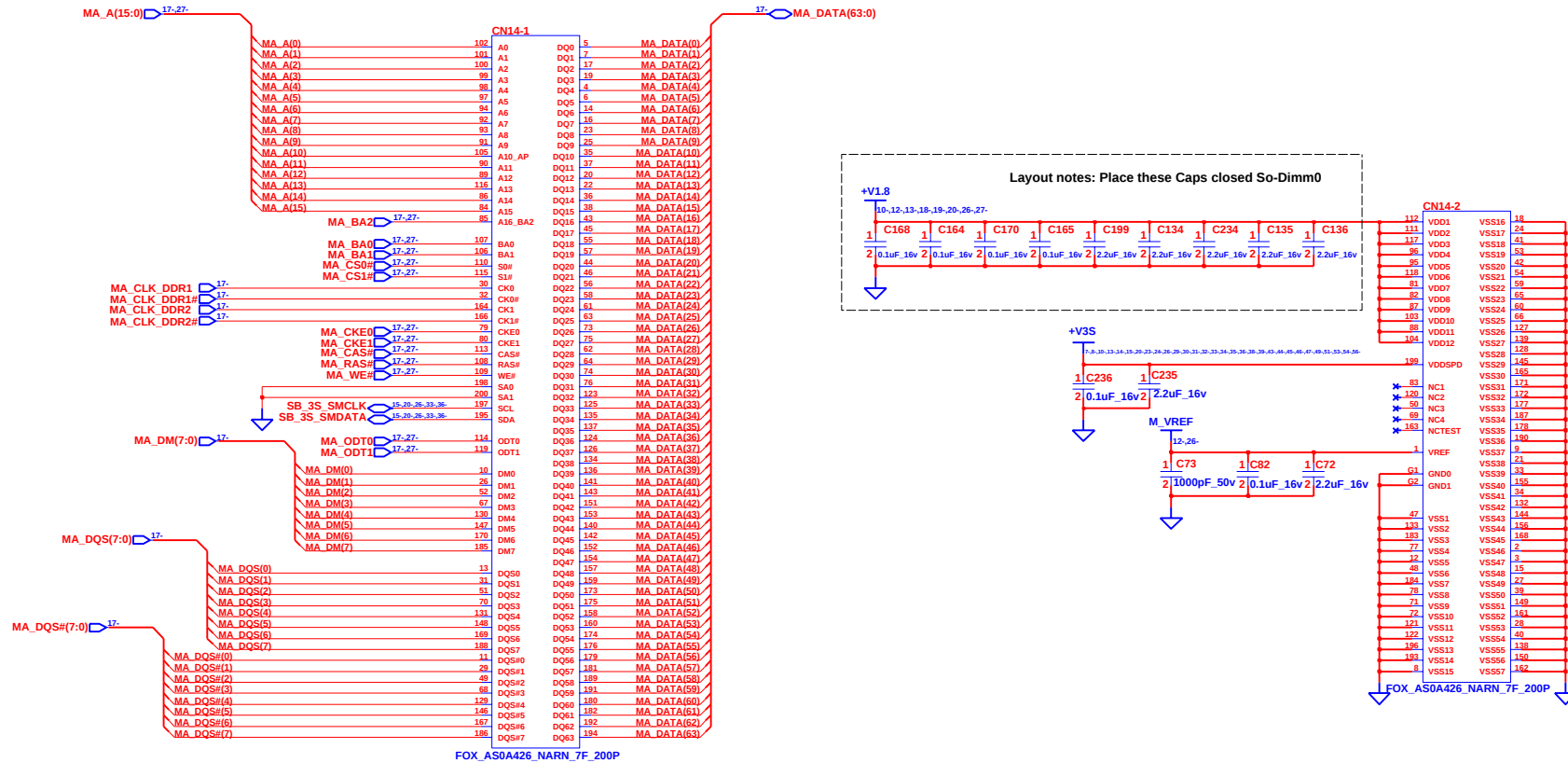
TITLE			
<i>TT2.0</i> <i>THERMAL&FAN CONTROLLER</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET		20	OF 70

CHANGE by	<i>Kevin Hsiao</i>	<i>8-Apr-2008</i>
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CS	1310A2150101	
SHEET	20	OF 70

TITLE			
<i>TT2.0</i> <i>RS780-2</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET 22 OF 70			

TITLE			
<i>TT2.0</i> <i>RS780-4</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A0
SHEET		24	OF 70

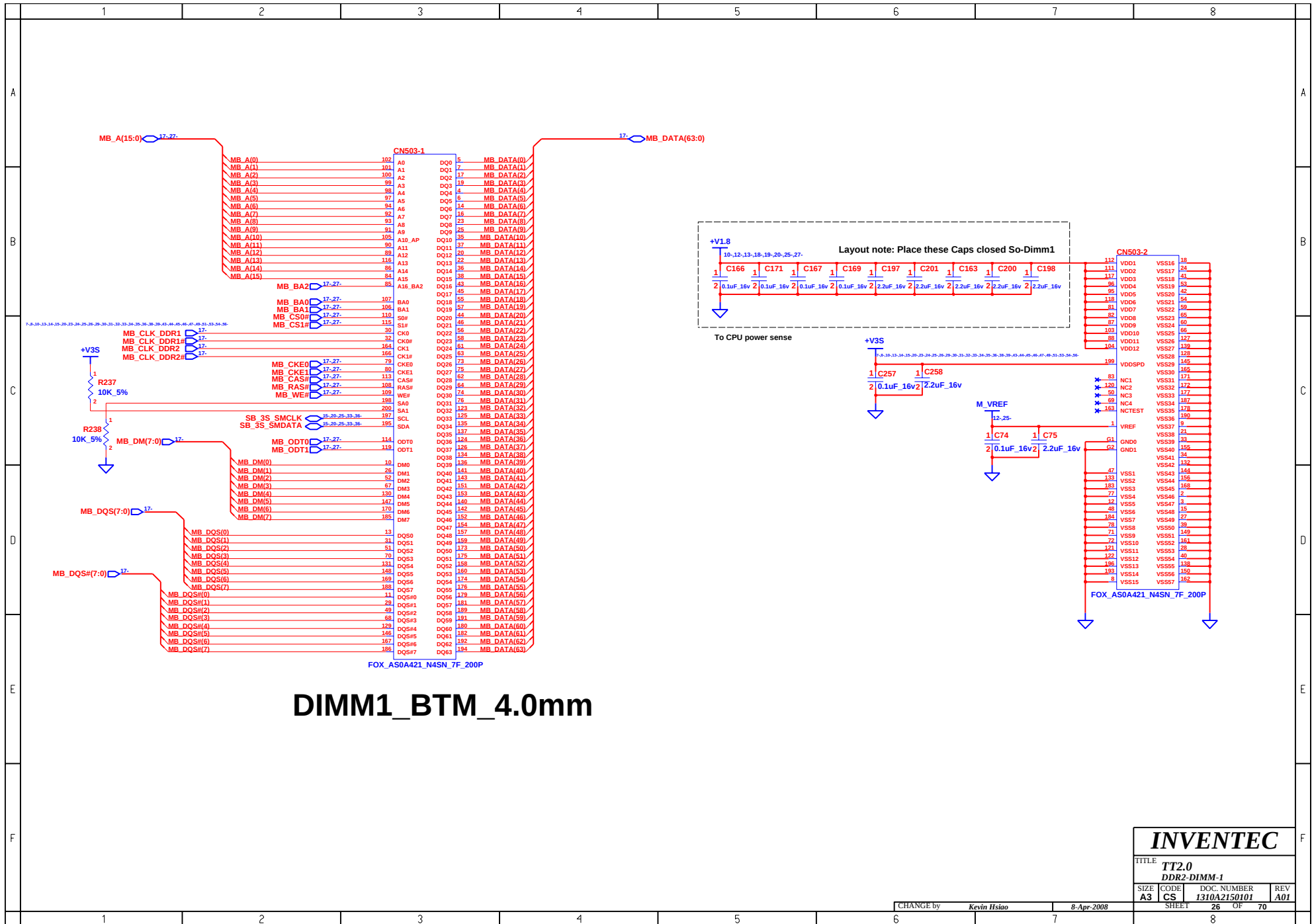


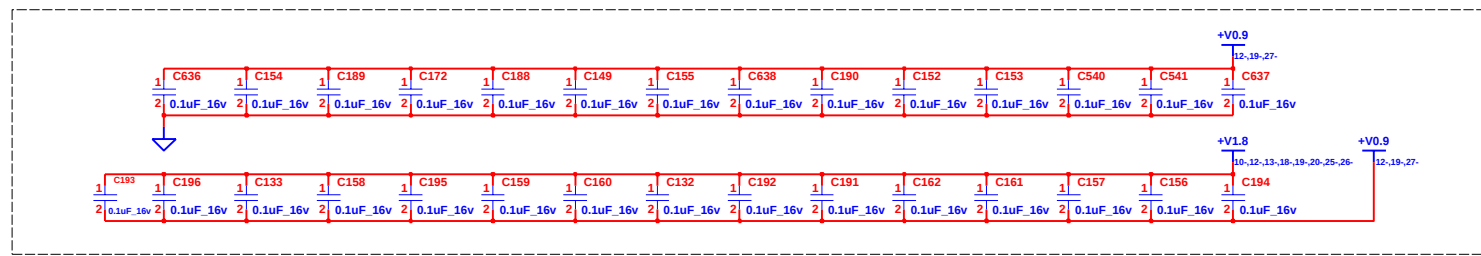
DIMM0_TOP_9.2mm

INVENTEC
 TITLE
TT2.0
DDR2-DIMM-0

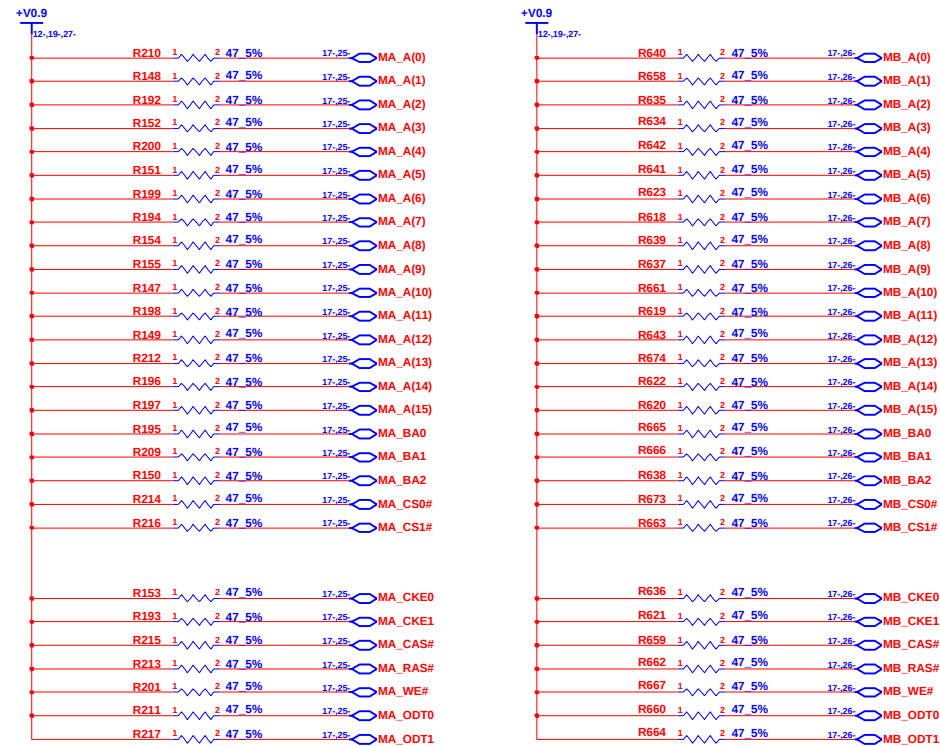
 SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008 SHEET 25 OF 70





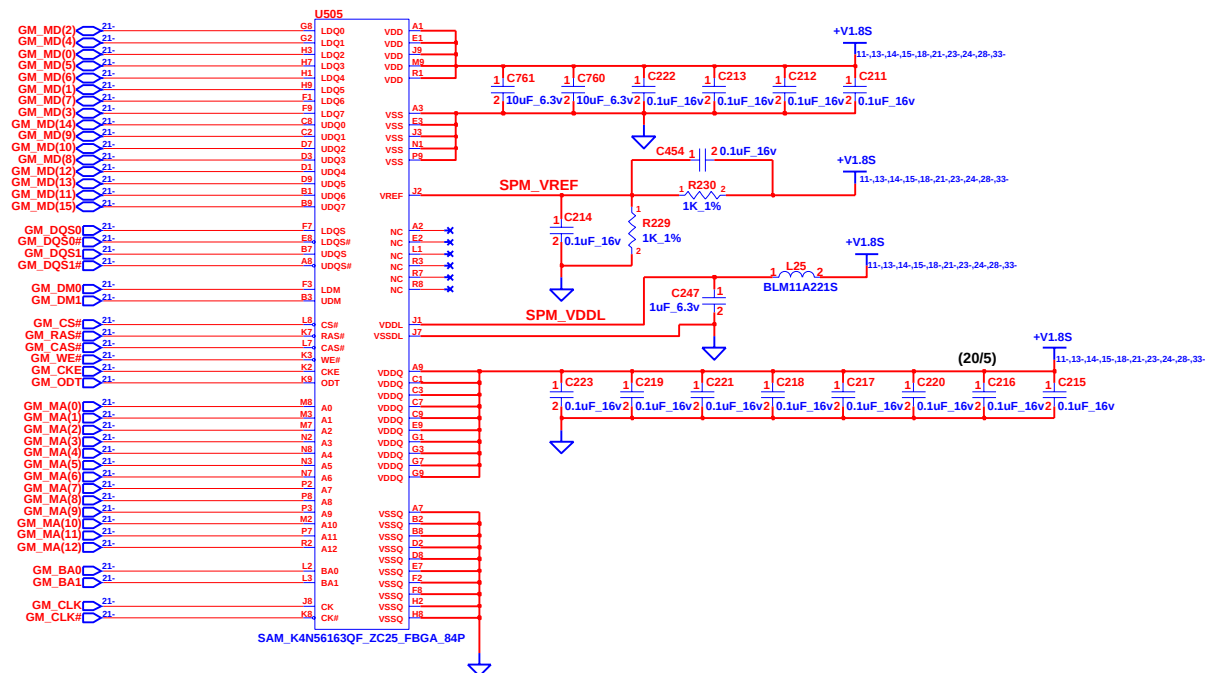
To CPU power sense

Place CAPs close to DIMM**INVENTEC**

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

CHANGE by Kevin Hsiao 8-Apr-2008

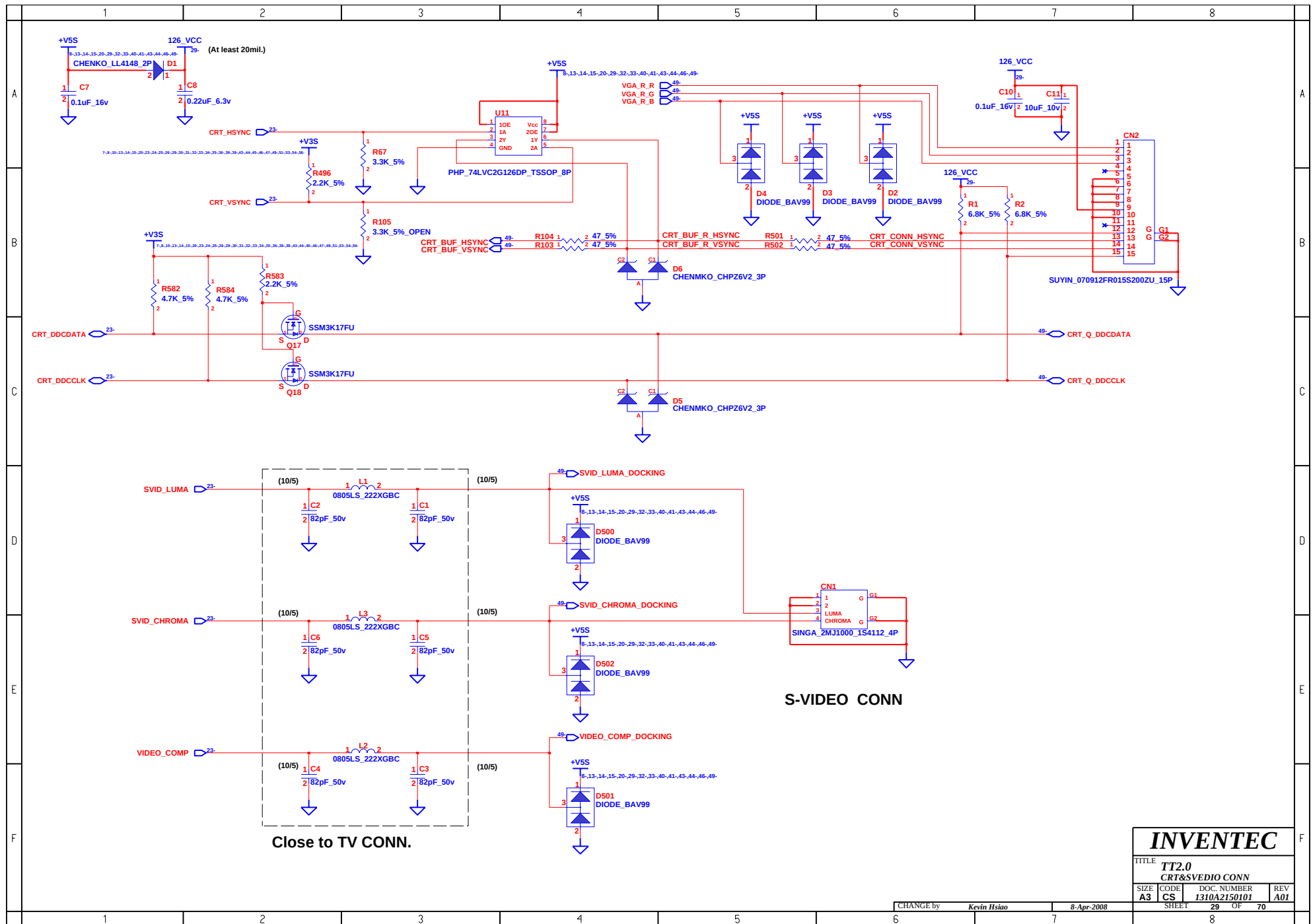
SHEET 27 OF 70



INVENTEC

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

CHANGE by Kevin Hsiao 8-Apr-2008

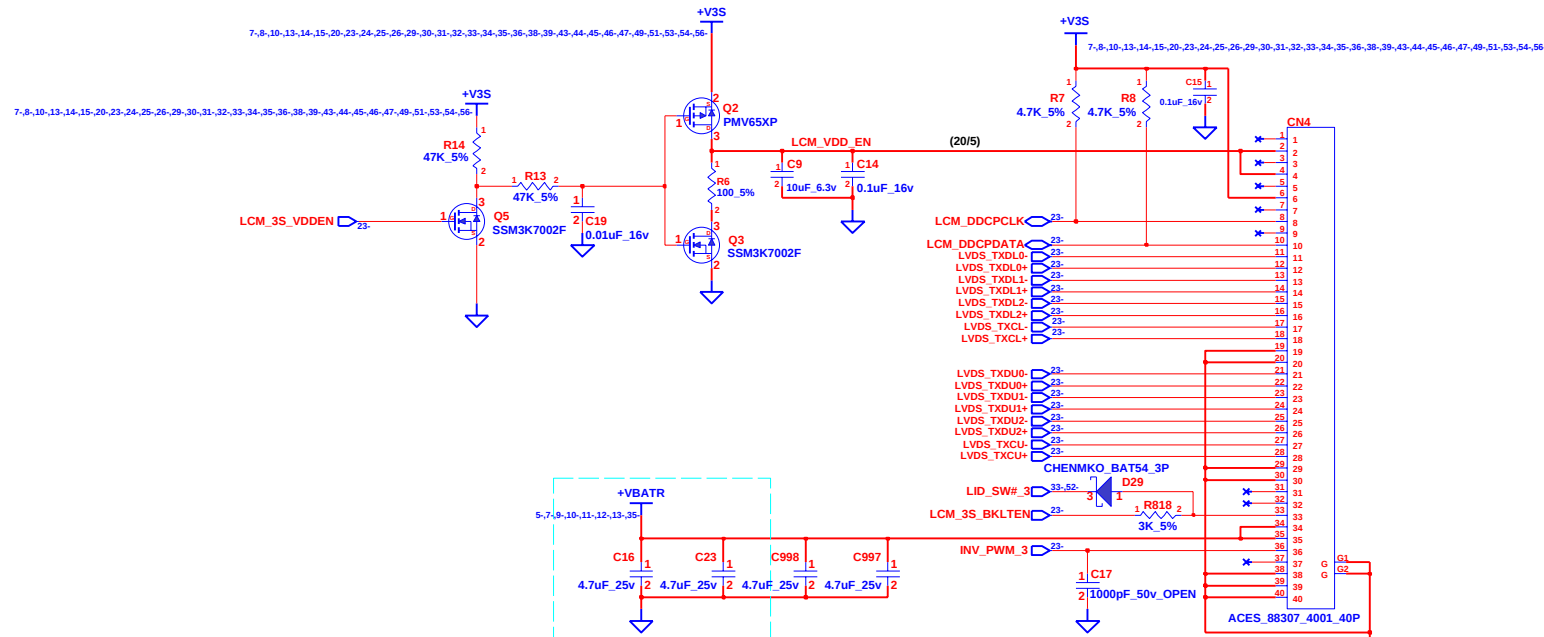
**INVENTEC**

TITLE
TT2.0
CRT&SVEDIO CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 29 OF 70



Closed to LCD connector

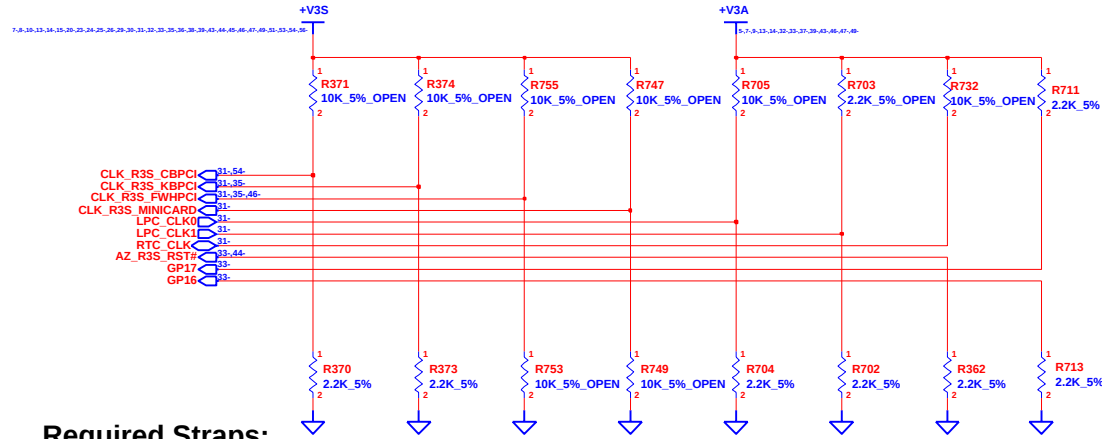
INVENTEC

TITLE TT2.0 LCD CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01

CHANGE by Kevin Hsiao 8-Apr-2008

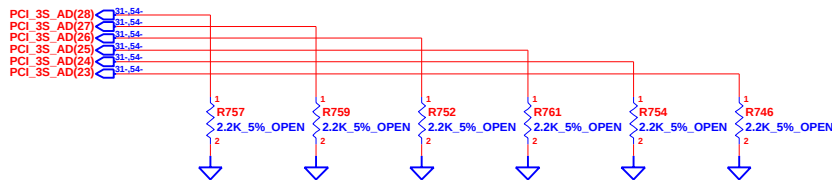
SHEET 30 OF 70

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

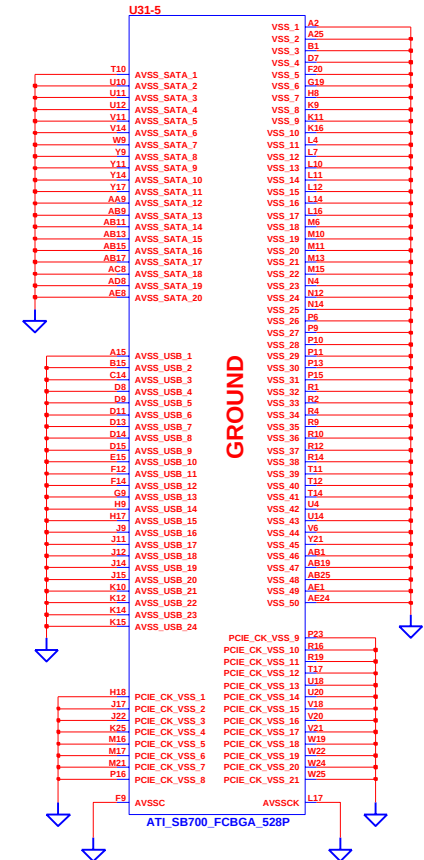
	CLK_R3S_CBPCI	CLK_R3S_KBPCI	CLK_R3S_FWHPCI	CLK_R3S_MINICARD	LPC_CLK0	LPC_CLK1	RTC_CLK	AZ_RST#	GP17 GP16
PULL HIGH	BOOTFAIL TIMER ENABLED	USE DEBUG STRAPS	RESERVED	RESERVED	ENABLE PCI MEM BOOT	CLKGEN ENABLED	INTERNAL RTC DEFAULT	EC ENABLED	ROM TYPE H, H = Reserved L, H = LPC ROM DEFAULT
PULL LOW	BOOTFAIL TIMER DISABLED DEFAULT	IGNORE DEBUG STRAPS DEFAULT			DISABLE PCI MEM BOOT DEFAULT	CLKGEN DISABLED DEFAULT	EXT. RTC (PD on X1, apply 32KHz to RTC_CLK	EC DISABLED DEFAULT	H, L = SPI ROM L, L = FWH ROM



Debug Straps

SB700 HAS 15K INTERNAL PU FOR PCI_AD

	PCI_3S_AD(28)	PCI_3S_AD(27)	PCI_3S_AD(26)	PCI_3S_AD(25)	PCI_3S_AD(24)	PCI_3S_AD(23)
PULL HIGH	USE LPC RESET DEFAULT	USE PCI PLL DEFAULT	USE ACPI BCLK DEFAULT	USE IDE PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	RESERVED
PULL LOW	USE SHORT RESET	BYPASS PCI PLL	BYPASS ACPI BCLK	BYPASS IDE PLL	USE EEPROM PCIE STRAPS	



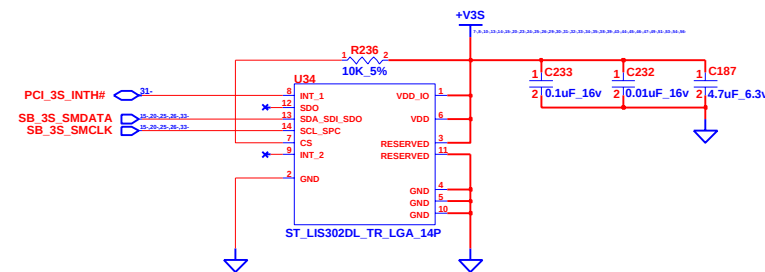
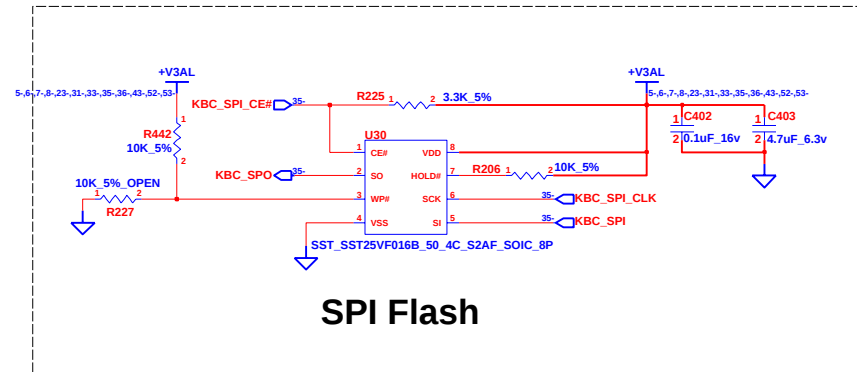
INVENTEC

TITLE
TT2.0
SB700-4SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 34 OF 70

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



INVENTEC

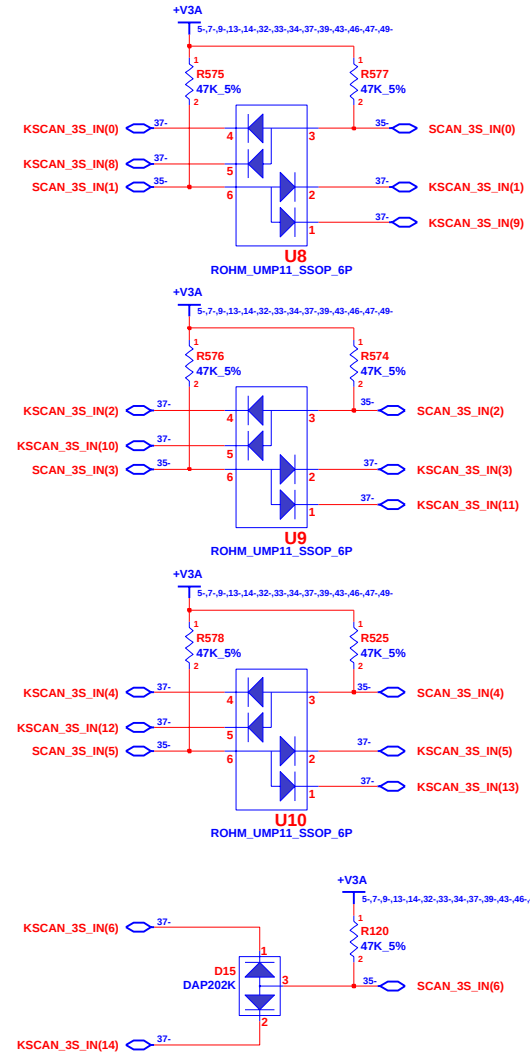
TITLE
TT2.0
SPI & Accelerometer

SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

CHANGE by Kevin Hsiao 8-Apr-2008

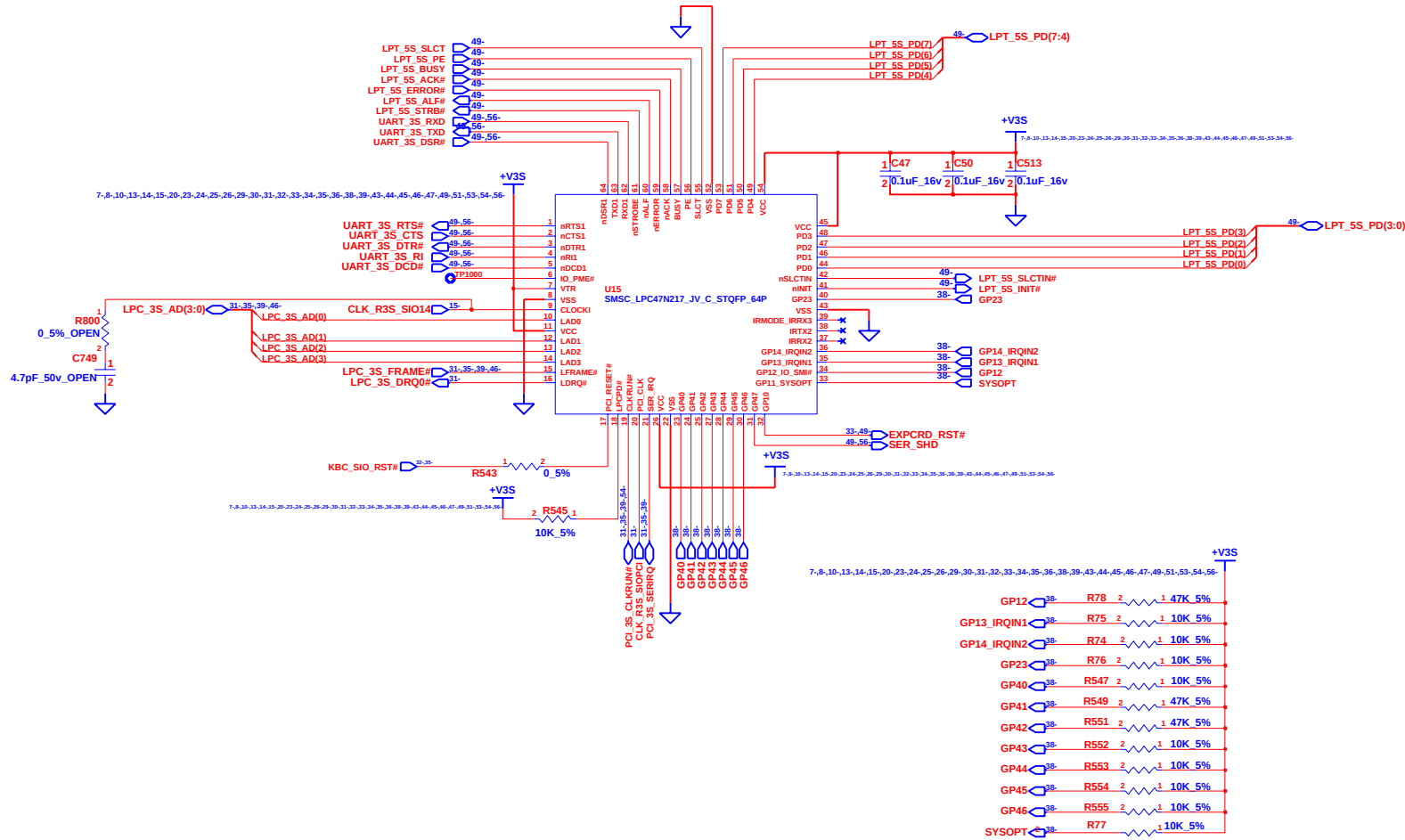
SHEET 36 OF 70

Keyboard CONN



INVENTEC

TITLE			
<i>TT2.0</i> <i>INT.KBC/POINT DEVICES</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET		37	OF 70



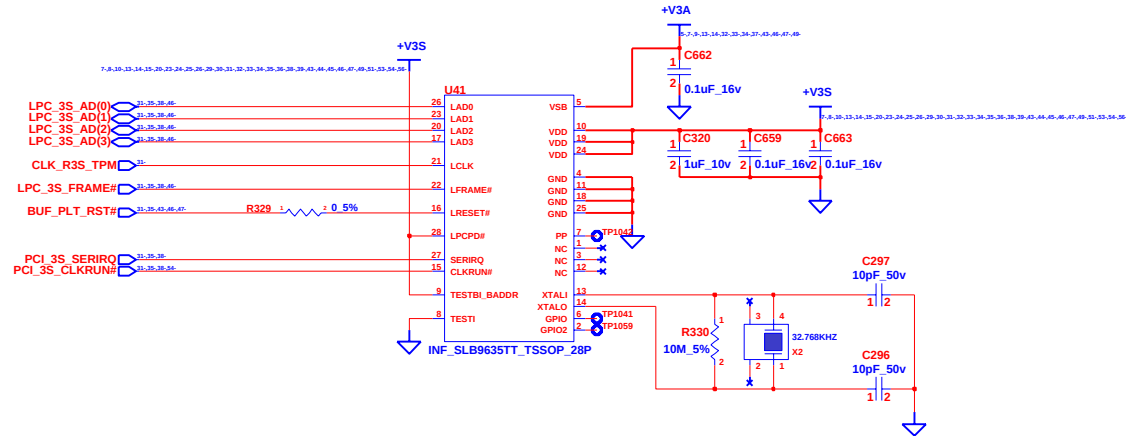
INVENTEC

TITLE
TT2.0
SUPER I/O

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

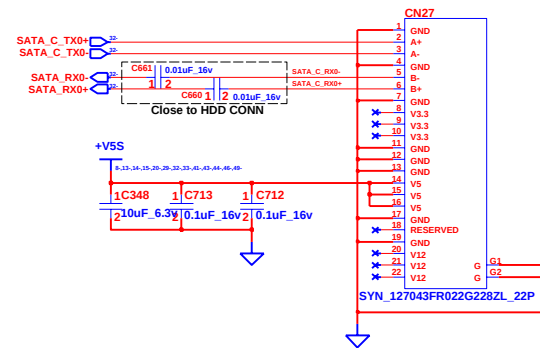
SHEET 38 OF 70

**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



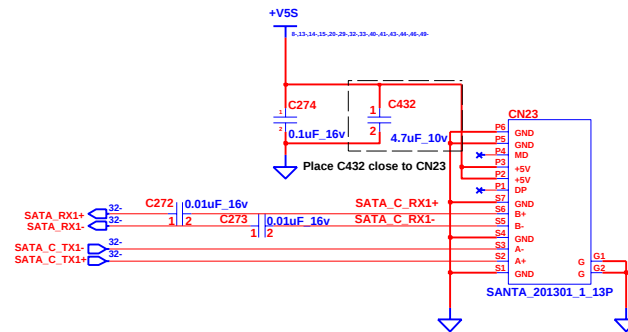
HDD CONN

INVENTEC

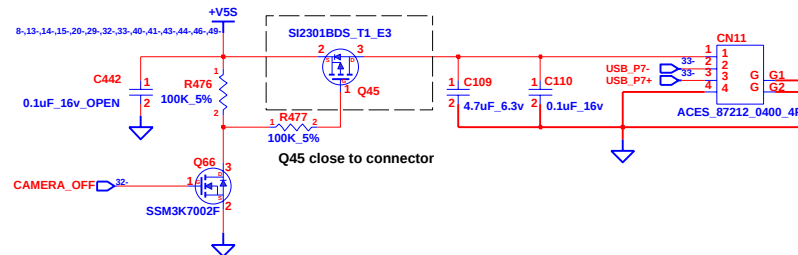
TITLE			
TT2.0			
SATA HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 40 OF 70

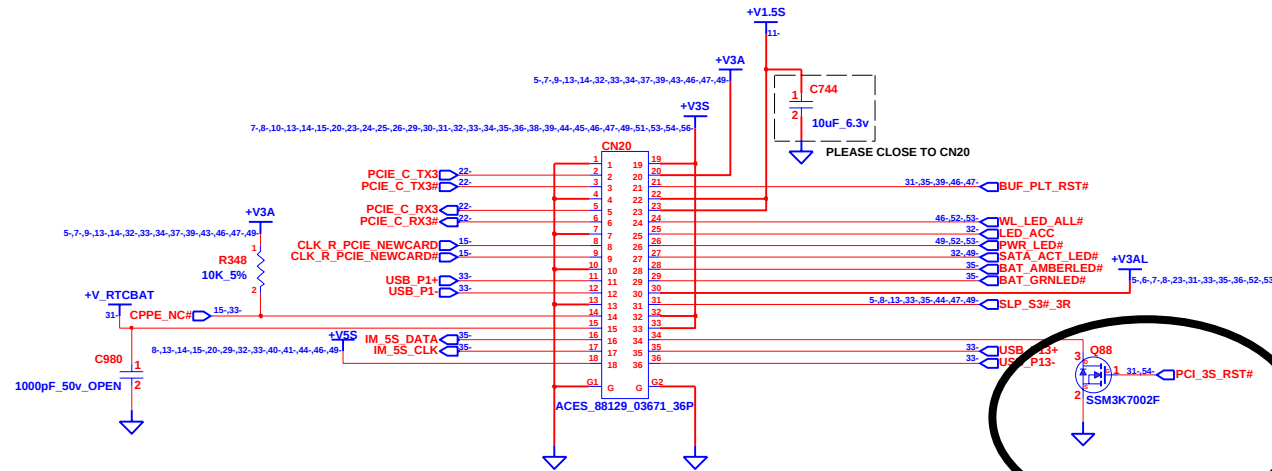


ODD SATA CONNECTOR



USB WEBCAM CONNECTOR

INVENTEC			
TITLE TT2.0 SATA ODD & USB WEBCAM			
SIZE A3	CODE CS	DOC. NUMBER I310AZ150101	REV 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- |

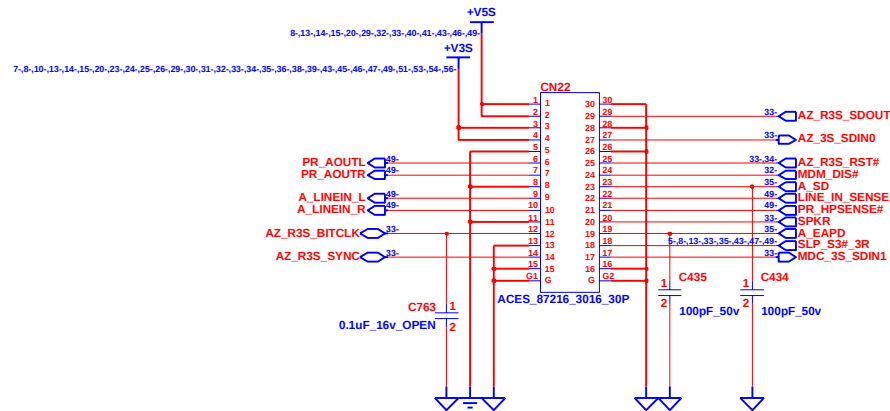
EXPRESSCARD DAUGHTER BOARD CONNECTOR MAIN SIDE

INVENTEC

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

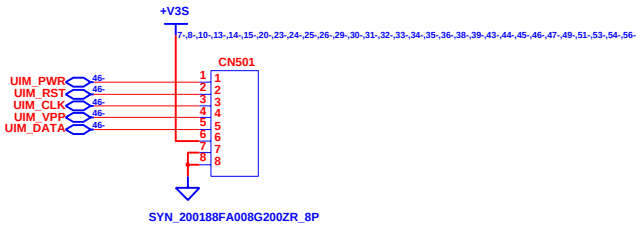
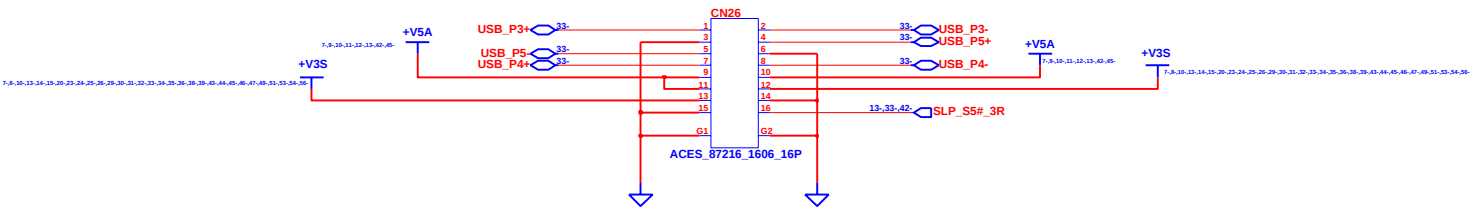
AUDIO DAUGHTER BOARD CONNECTOR MAIN BOARD SIDE

INVENTEC

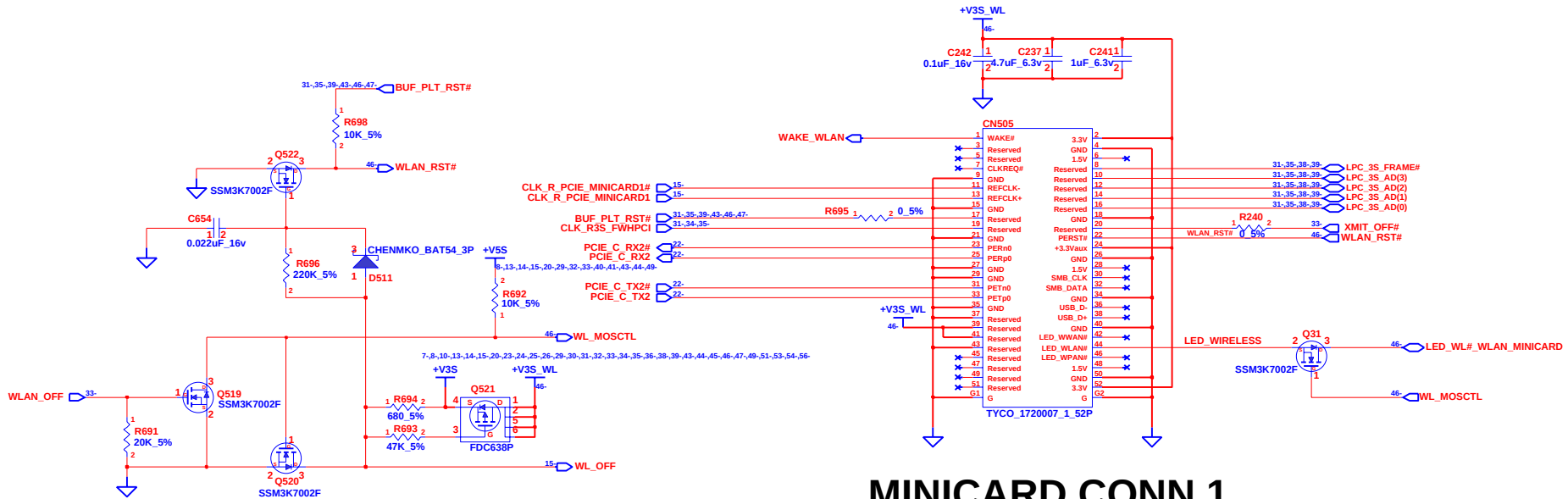
TITLE			
TT2.0			
Audio DB CONN-MB SIDE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

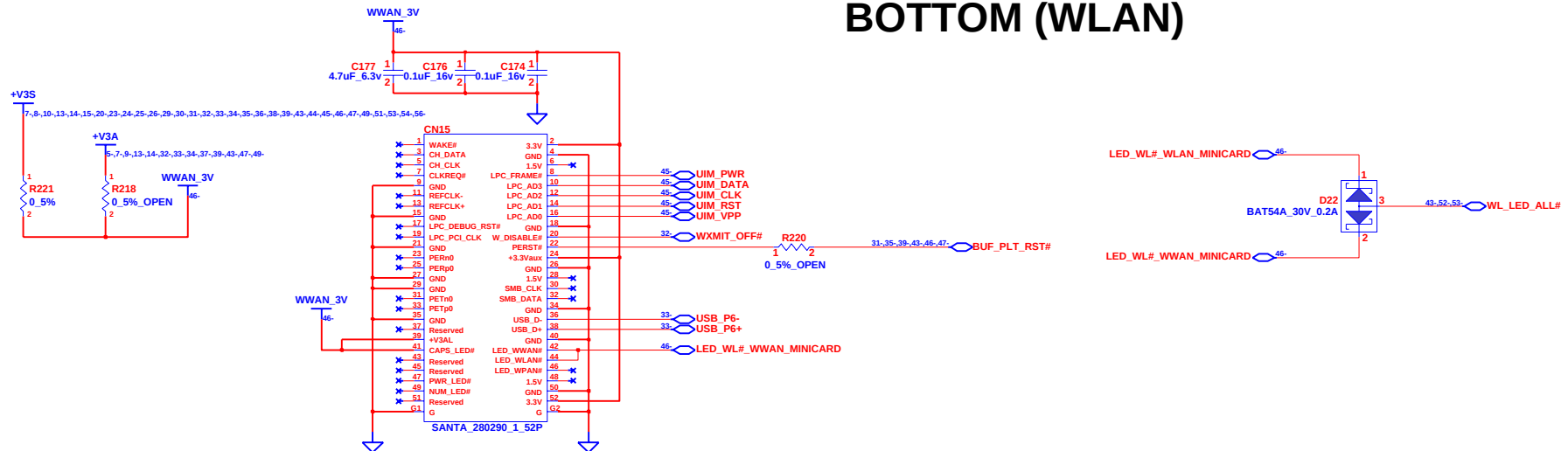
SHEET 44 OF 70



INVENTEC			
TITLE TT2.0 7 IN 1 & SIM DB CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET 45		OF 70	



MINICARD CONN 1 BOTTOM (WLAN)



MINICARD CONN2 TOP TOP (WWAN)

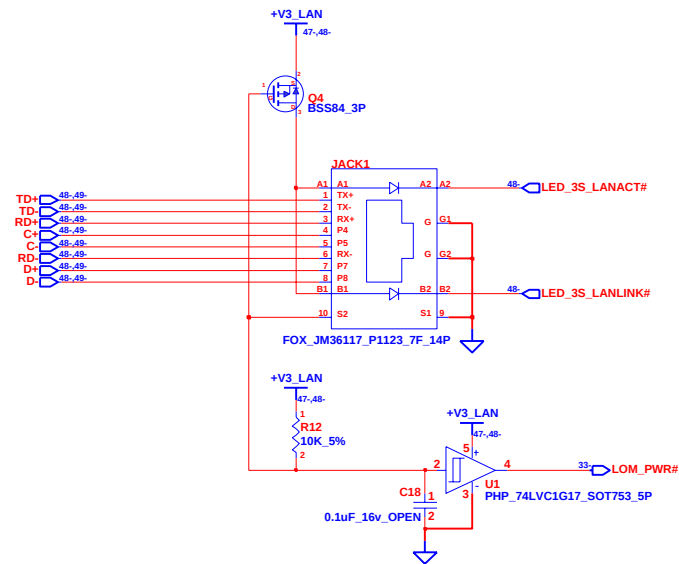
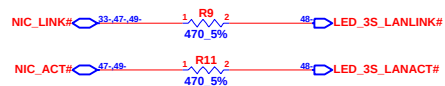
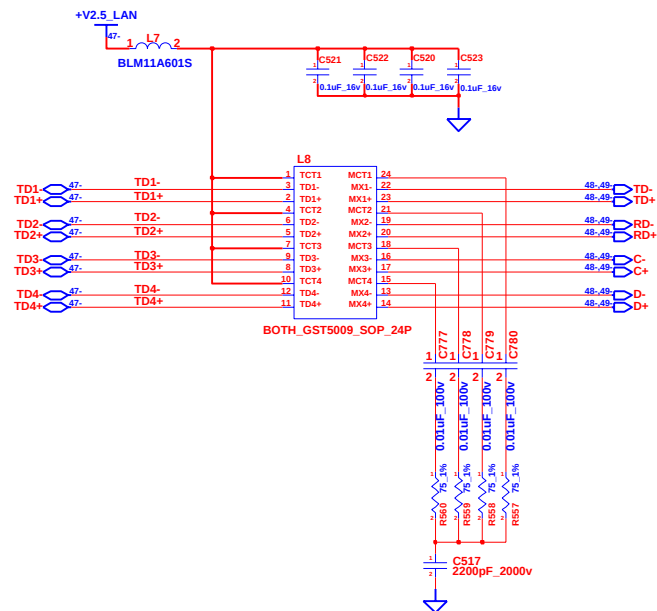
INVENTEC

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

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 46 OF 70

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



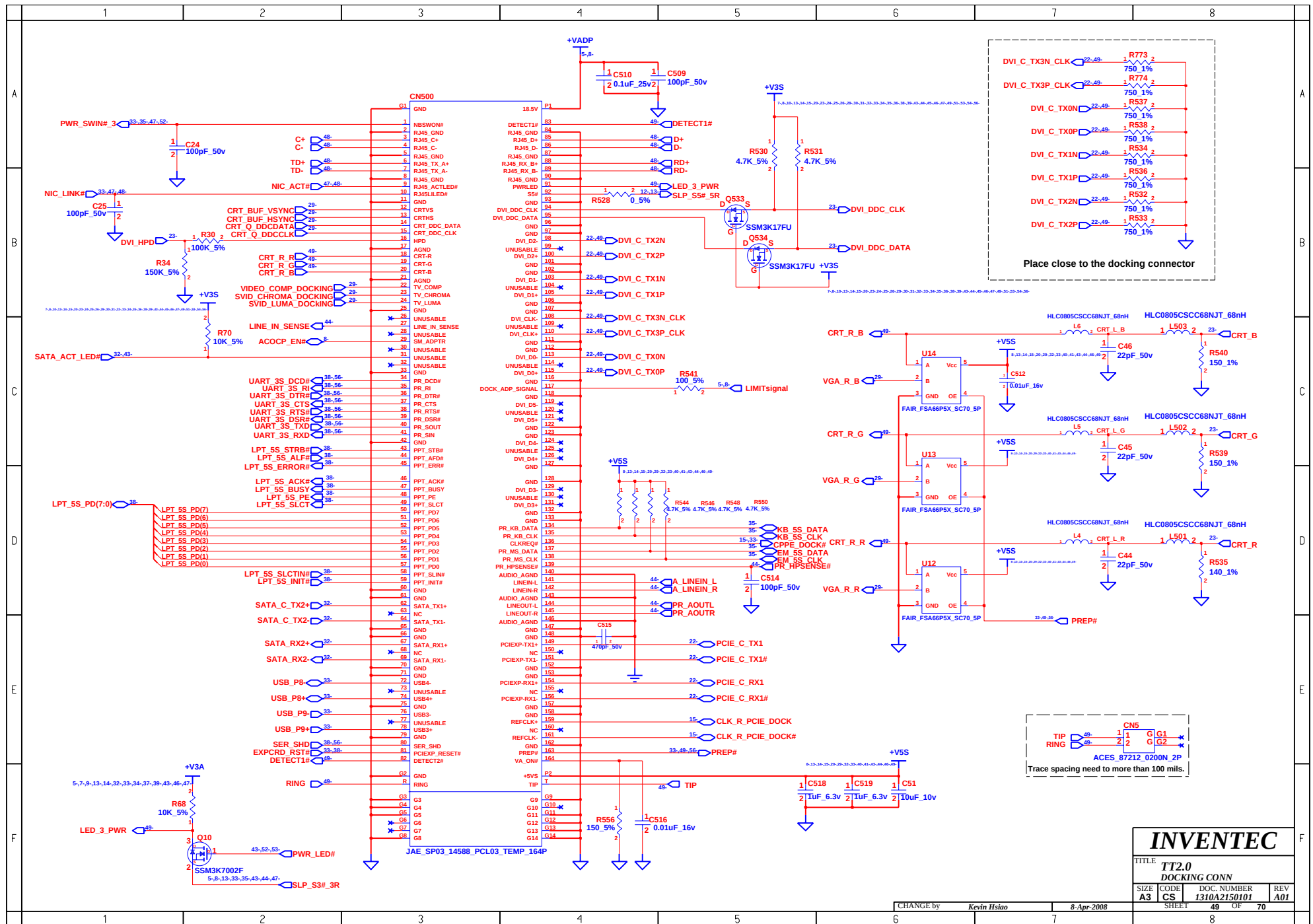
INVENTEC

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

TT2.0 DOCKING CONN

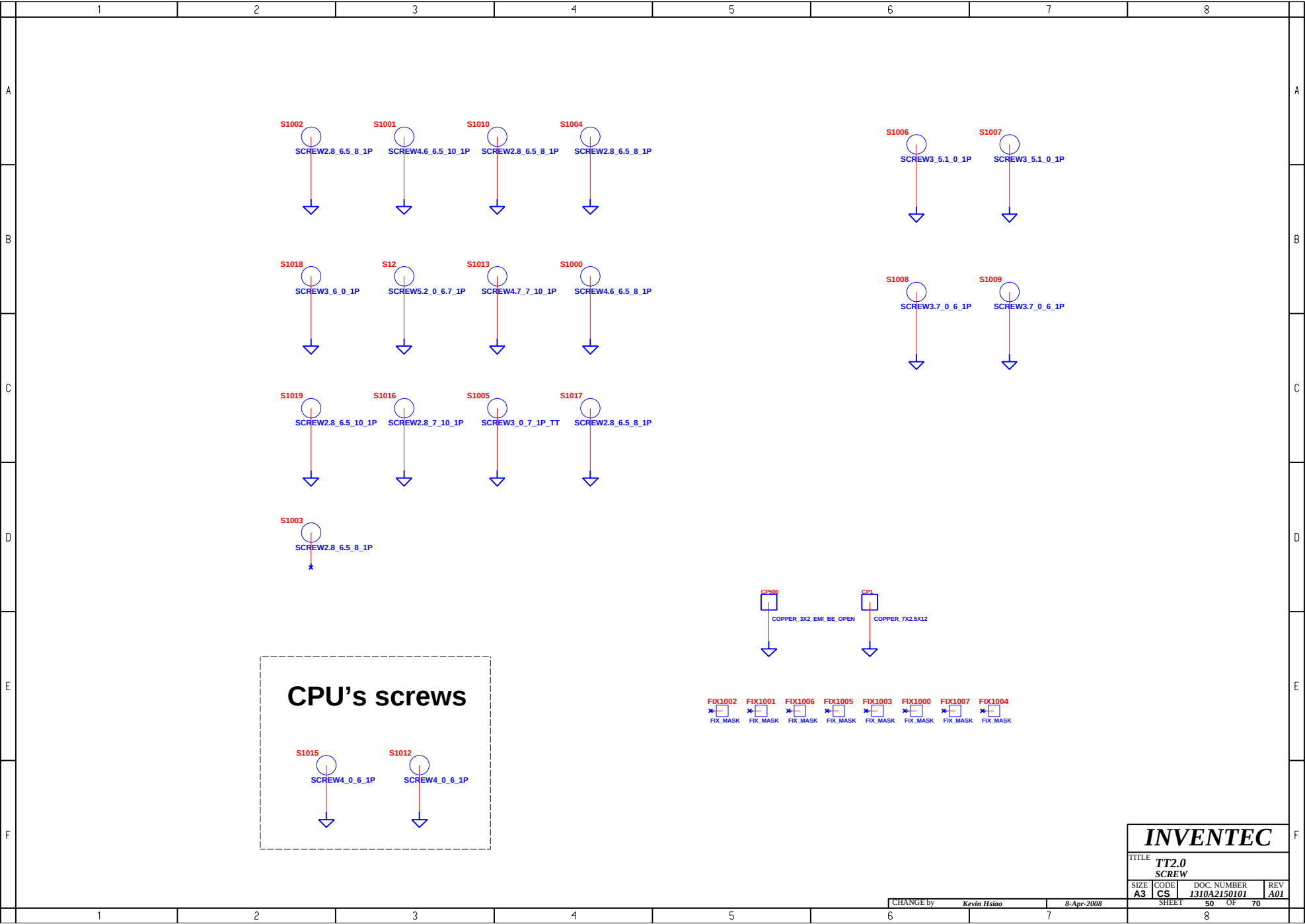
SIZE CODE DOC. NUMBER REV

A3 CS 1310A2150101 A01

SHEET 49 OF 70

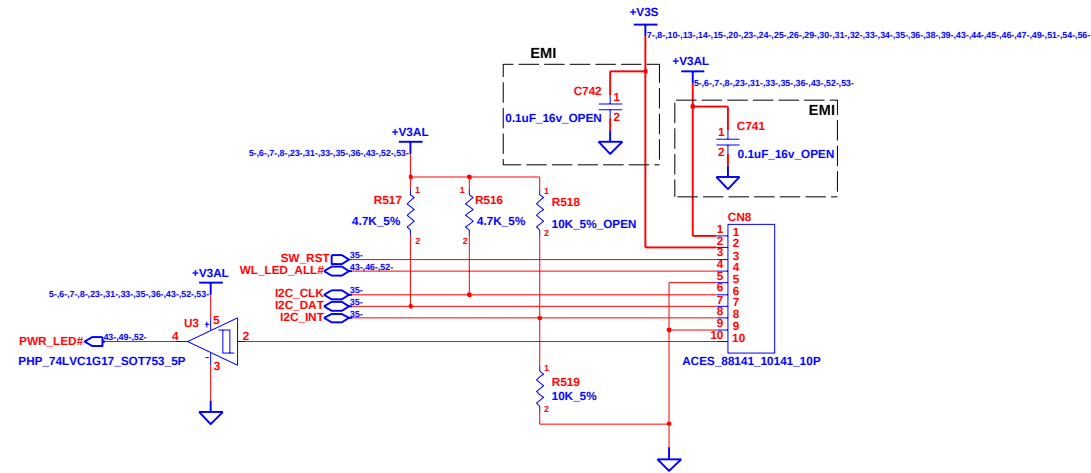
CHANGE by Kevin Hsiao

8-Apr-2008



TITLE			
TT2.0 BLUETOOTH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET		51	OF 70

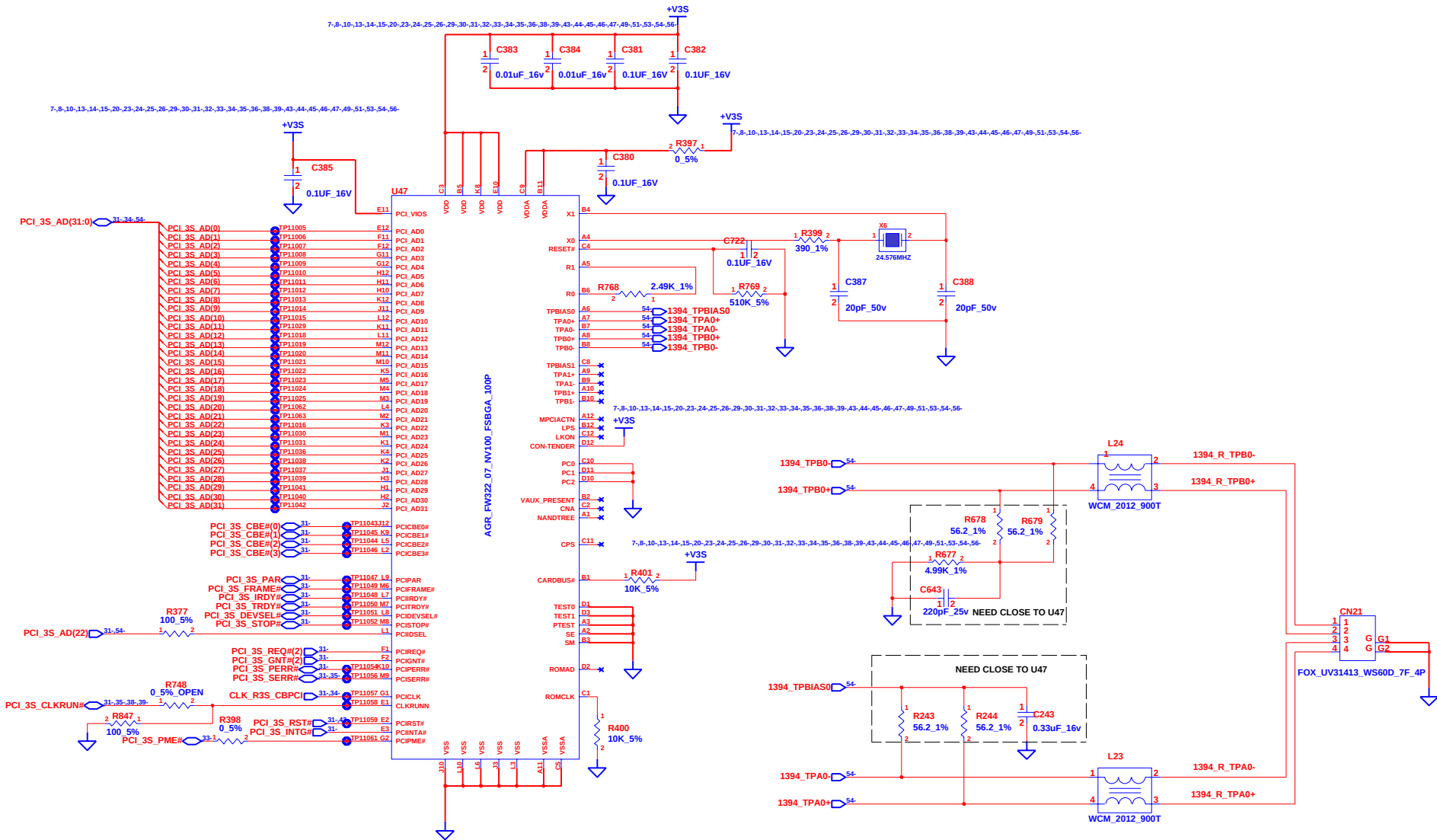
TITLE			
TT2.0 LED/POWER SWITCH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01
SHEET		52	OF 70

**INVENTEC**

TITLE			
TT2.0			
SW/B connector			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 53 OF 70

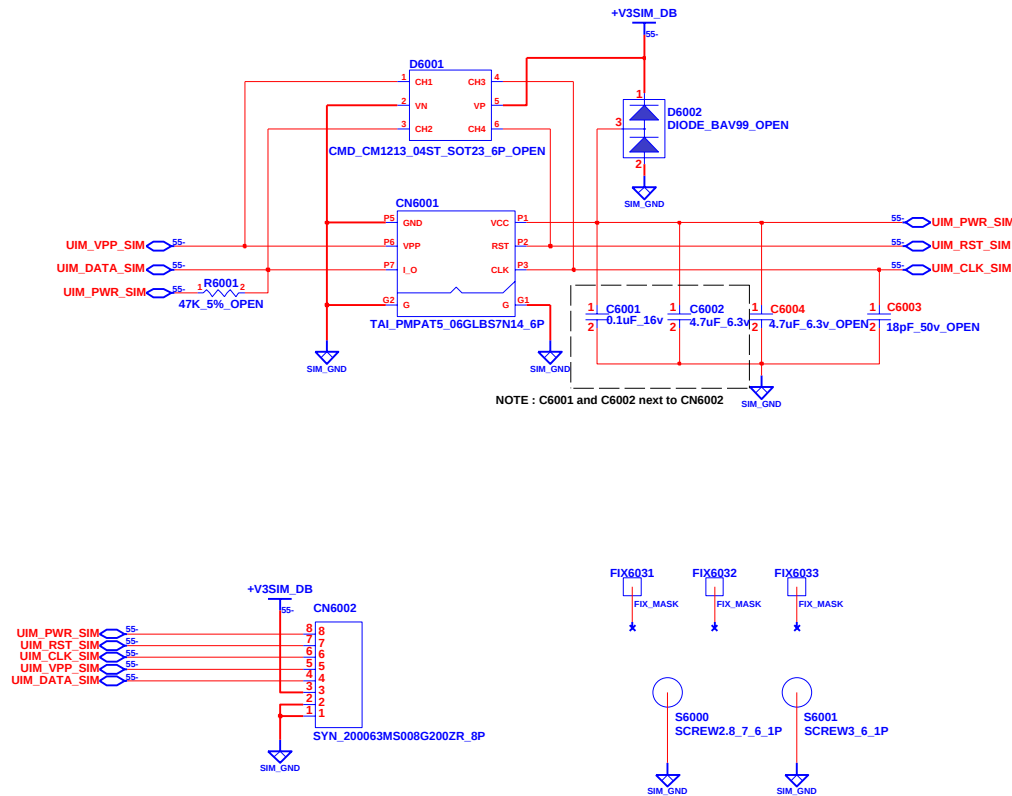


1394 Controller

INVENTEC

TITLE			
TT2.0			
1394			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by	Kevin Hsiao	8-Apr-2008	SHEET	54	OF	70
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SIM CARD Daughter Board

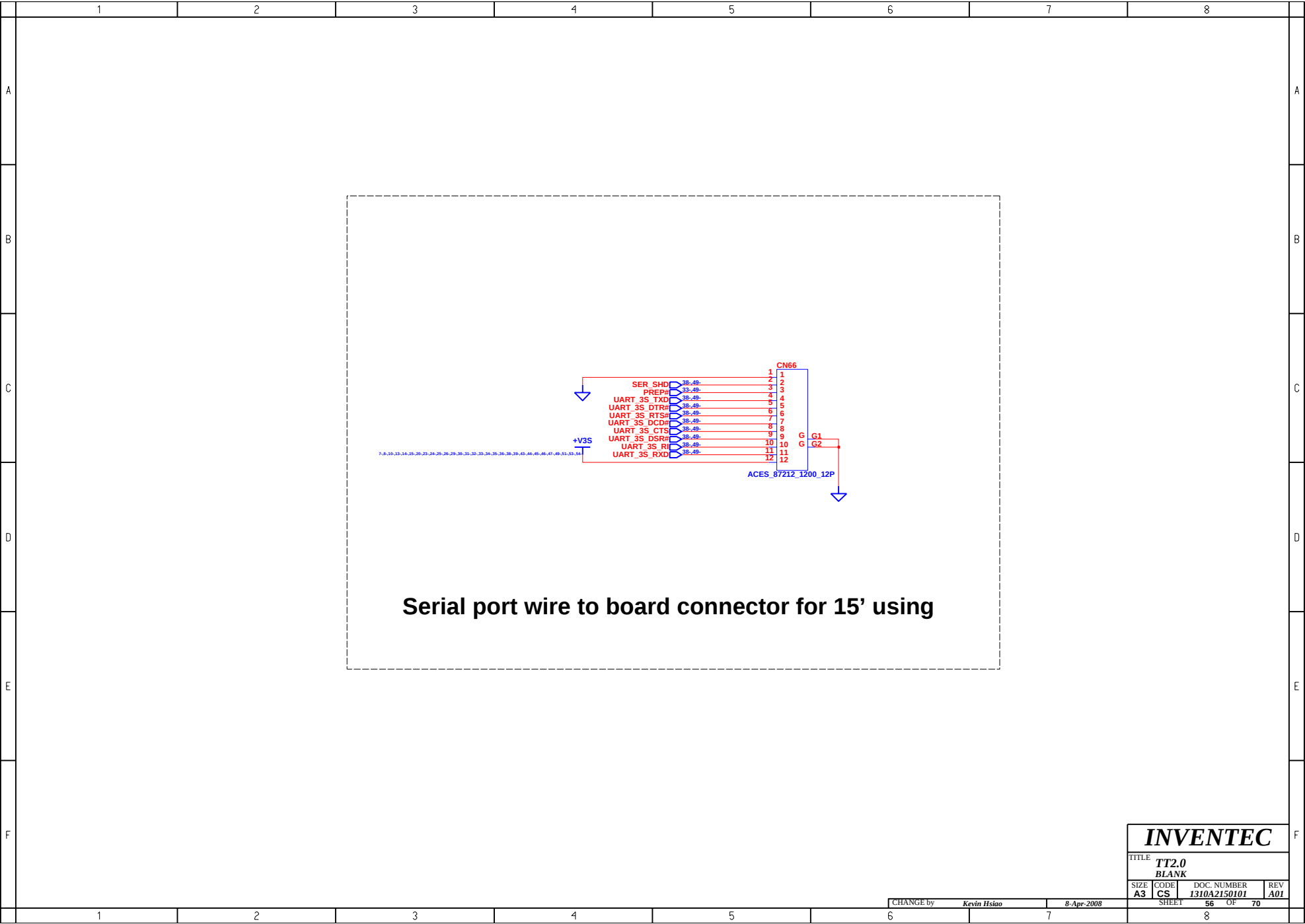
INVENTEC

TITLE
TT2.0
SIM CARD Daughter Board

SIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

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

SHEET 55 OF 70



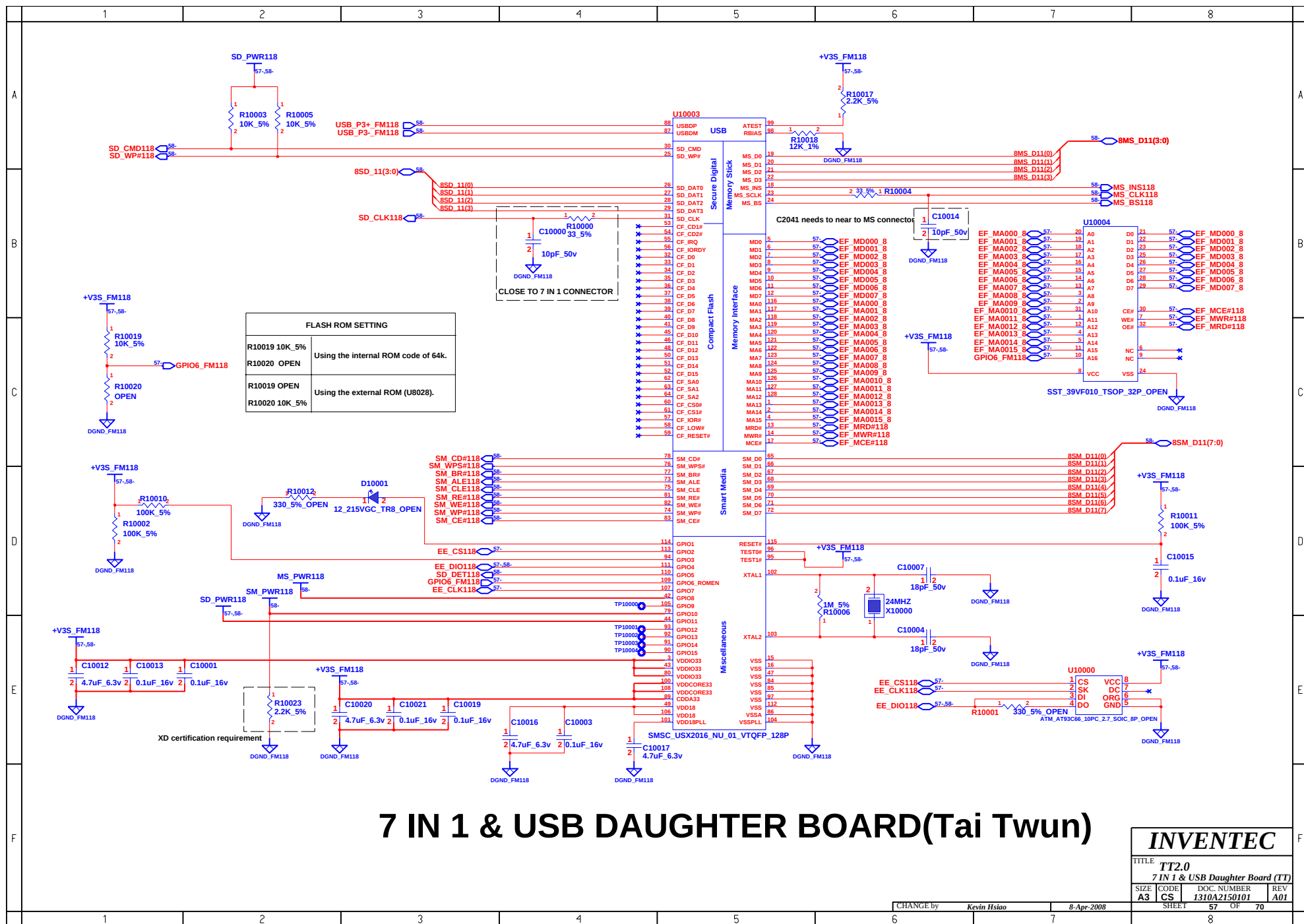
INVENTEC

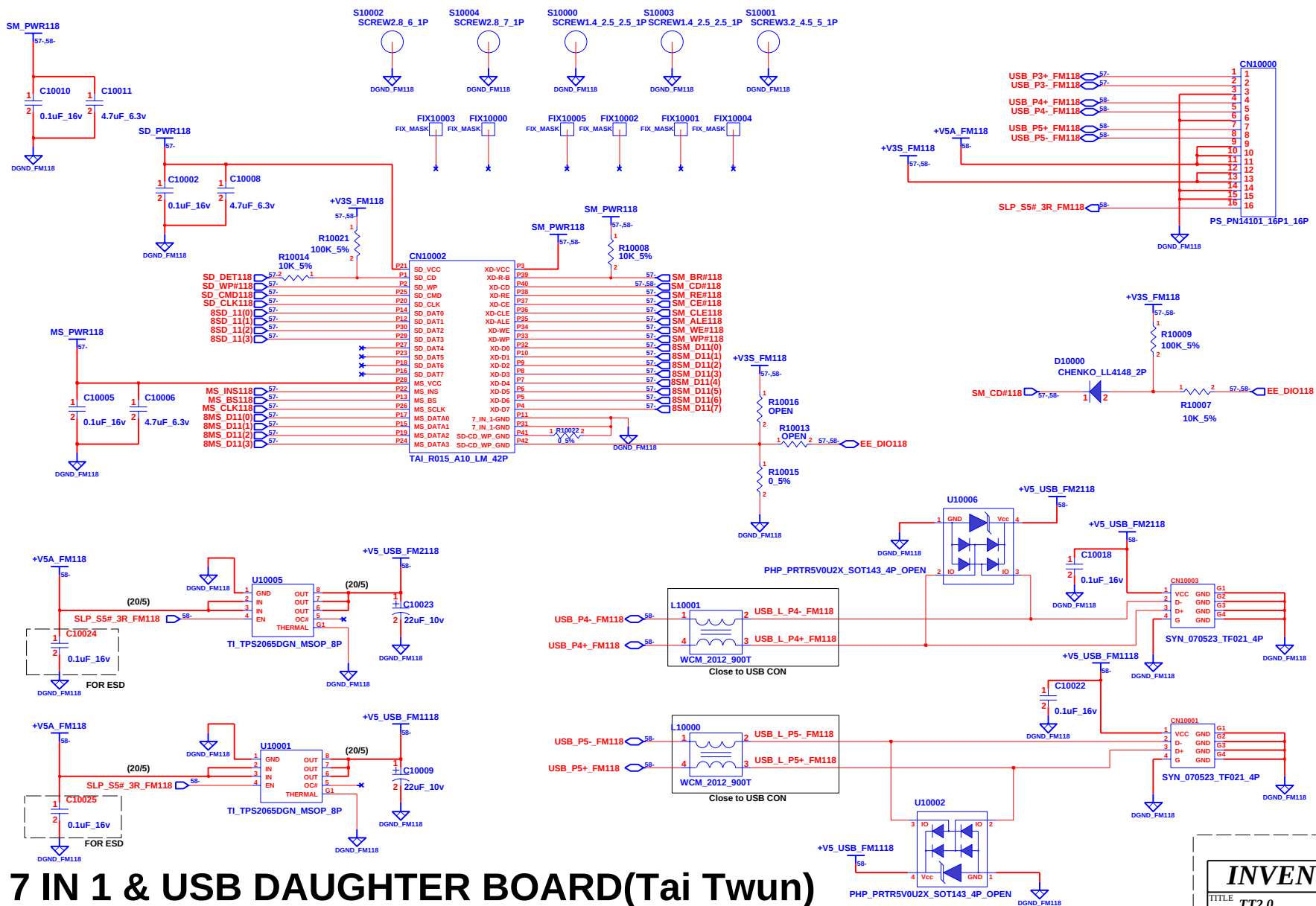
TITLE
TT2.0
BLANK

SIZE A3	CODE CS	DOC. NUMBER I310AZ150101	REV A01
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CHANGE by **Kevin Hsiao** 8-Apr-2008

SHEET **56** OF **70**



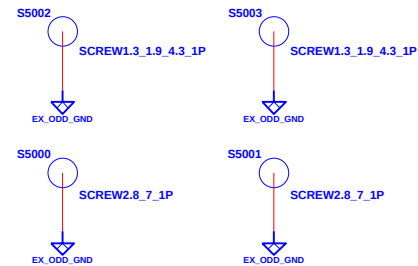
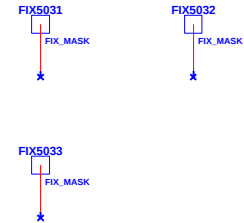
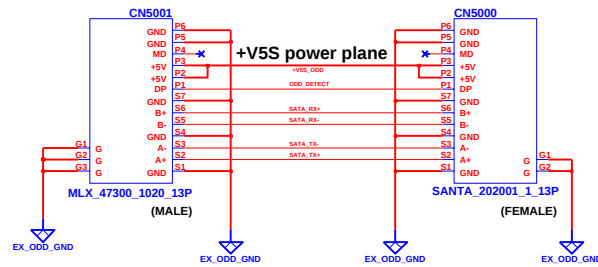


INVENTEC

TITLE			
TT2.0			
7 IN 1 & USB Daughter Board (TT)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

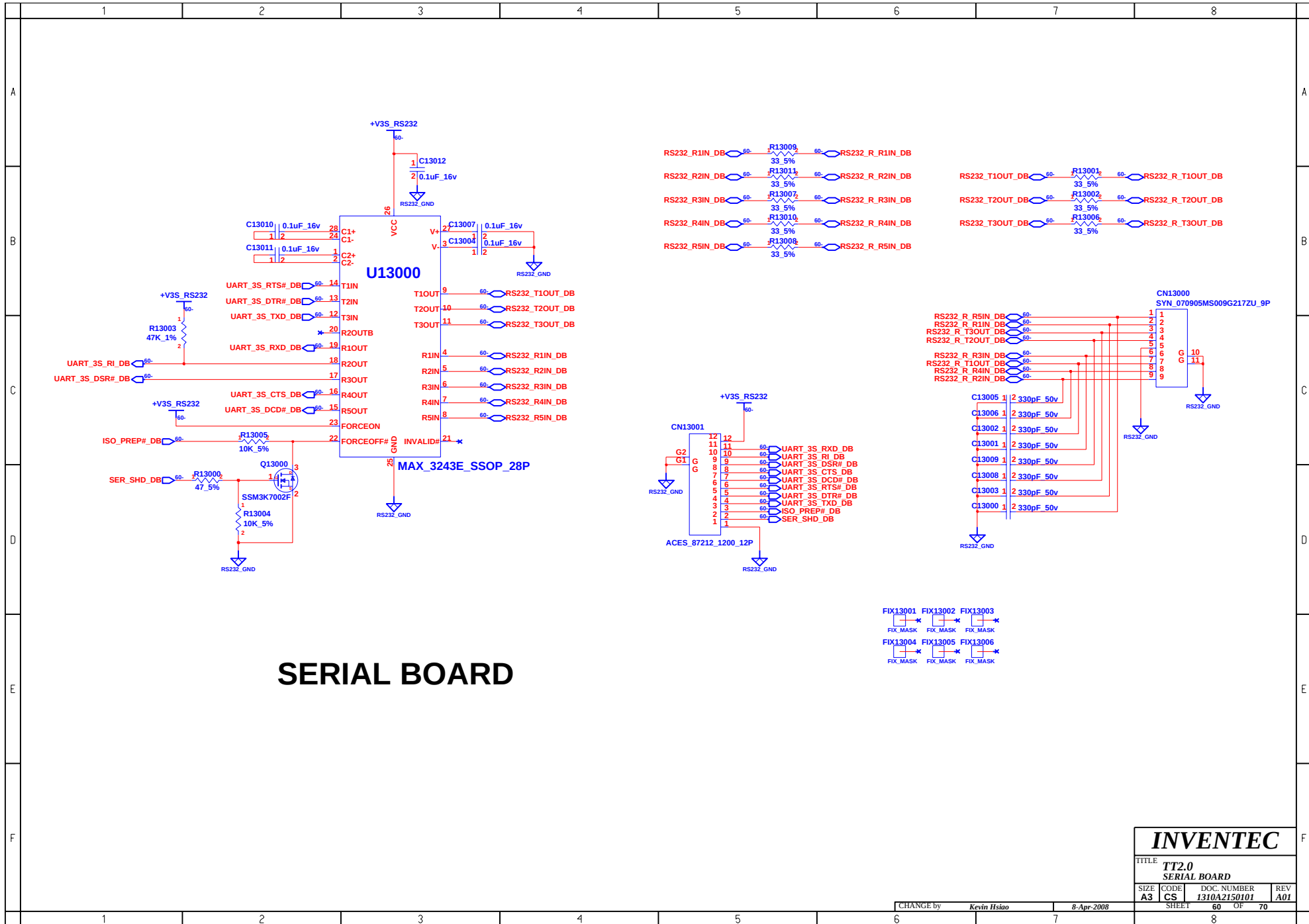
SHEET 58 OF 70



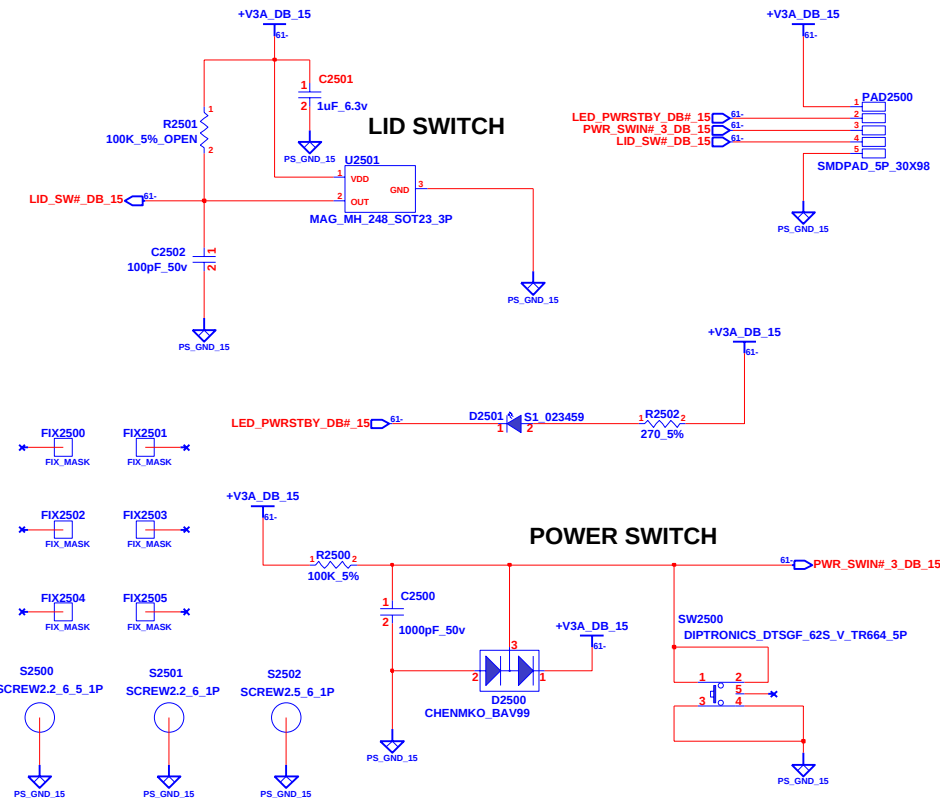
15" only

ODD Extension Board

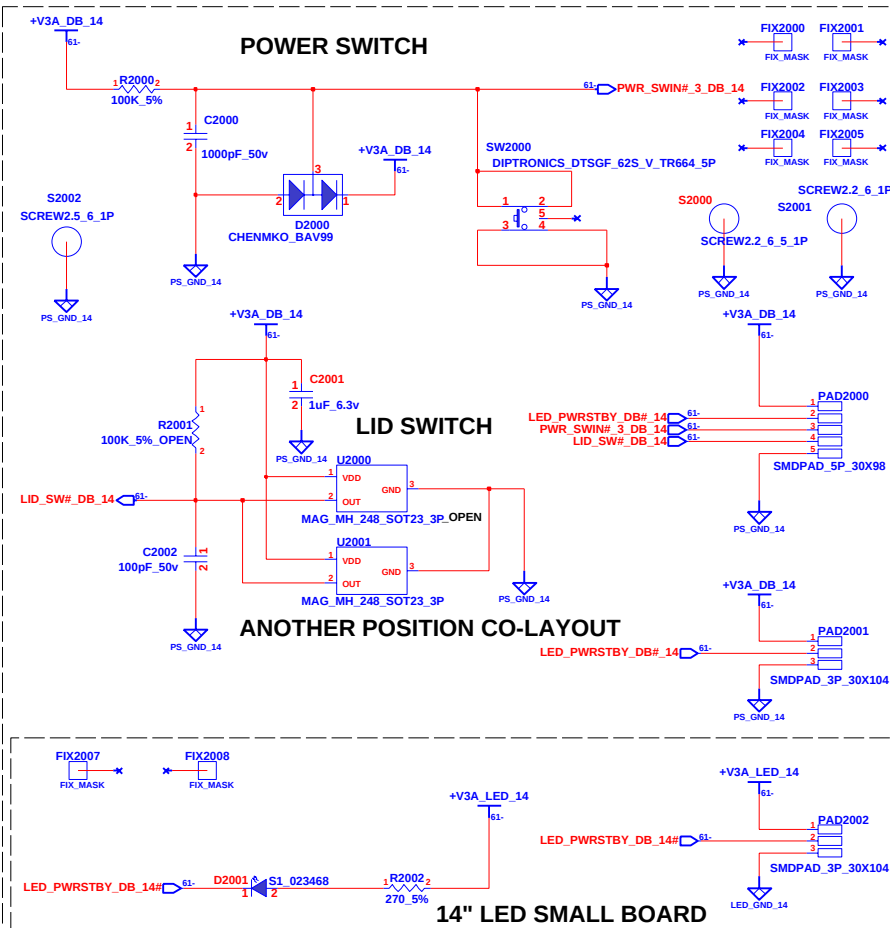
INVENTEC			
TITLE TT2.0			
ODD Extension Board			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET 59		OF 70	
1		8	



DD08 15" HALL SENSOR BOARD



POWER BUTTON BOARD



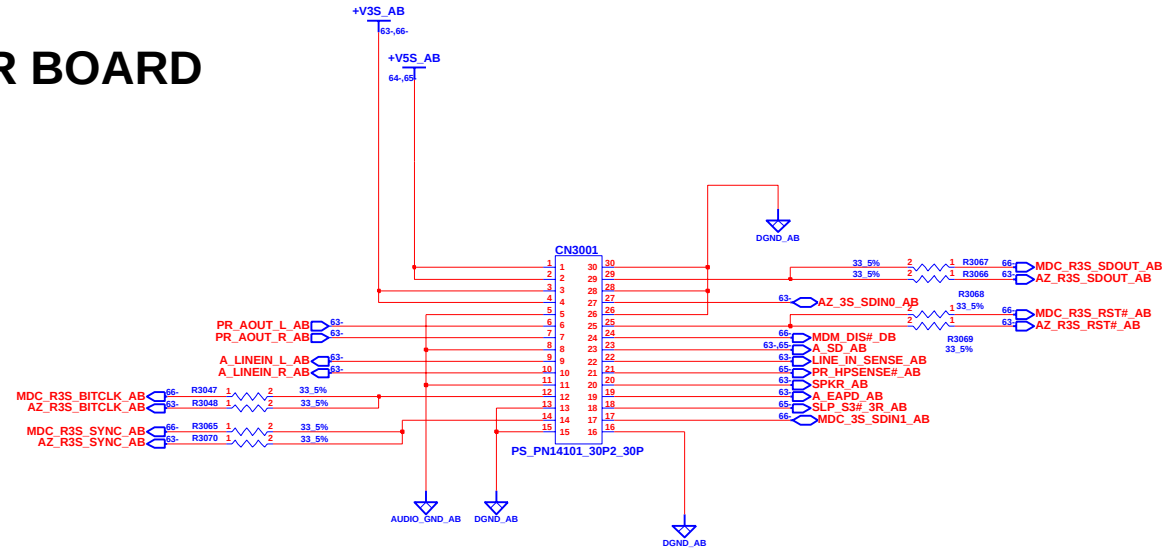
INVENTEC

TITLE			
TT2.0			
POWER BUTTON/LID SWITCH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	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 |

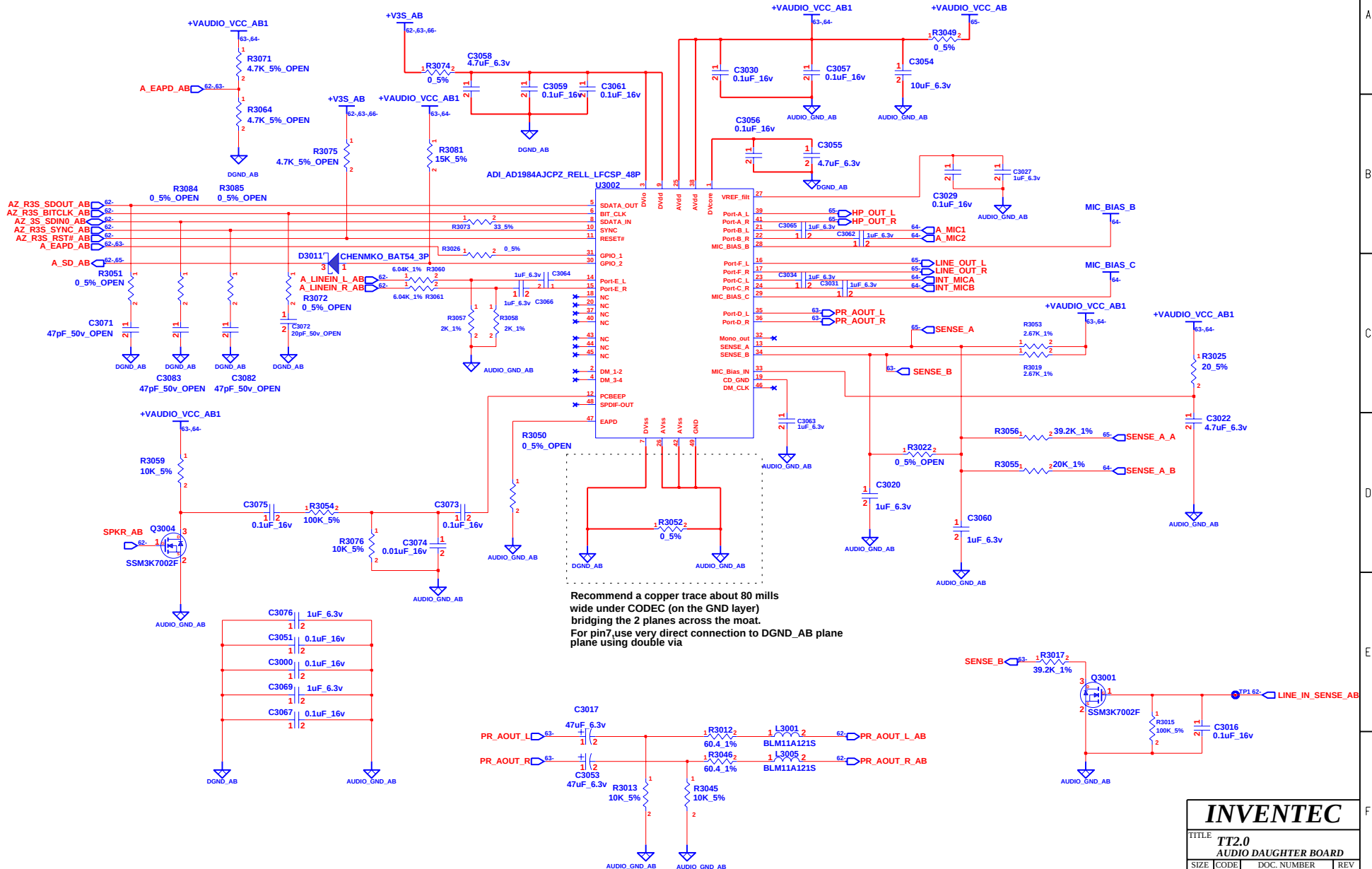
**INVENTEC**

TITLE			
TT2.0			
AUDIO CONNECTOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 62 OF 70

AUDIO DAUGHTER BOARD



Add option resistor to power from
+V5S_AB if needed(do not install)

EXT. MIC

INT. MIC

INVENTEC

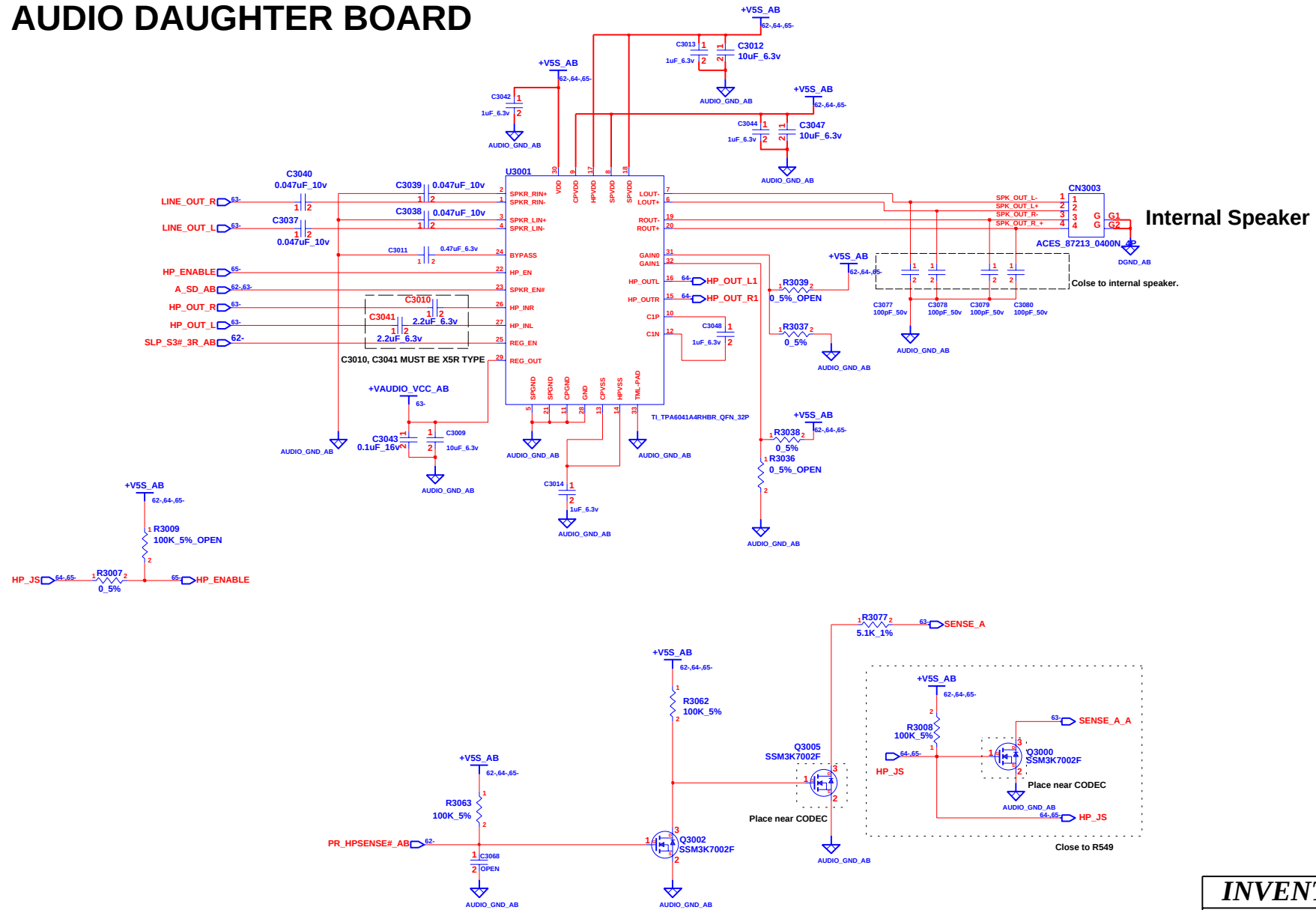
TITLE	<i>TT2.0</i> EARPHONE & MIC JACK
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101	A01

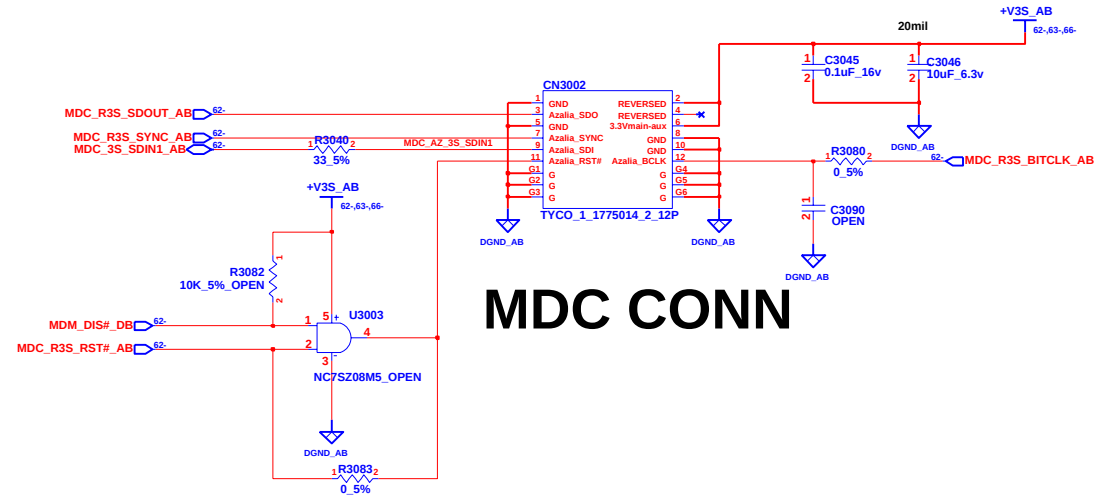
CHANGE by	Kevin Hsiao	8-Apr-2008
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SHEET 64 OF 70

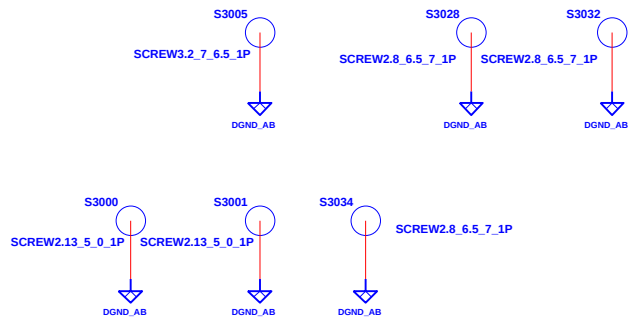
AUDIO DAUGHTER BOARD



AUDIO DAUGHTER BOARD



MDC CONN



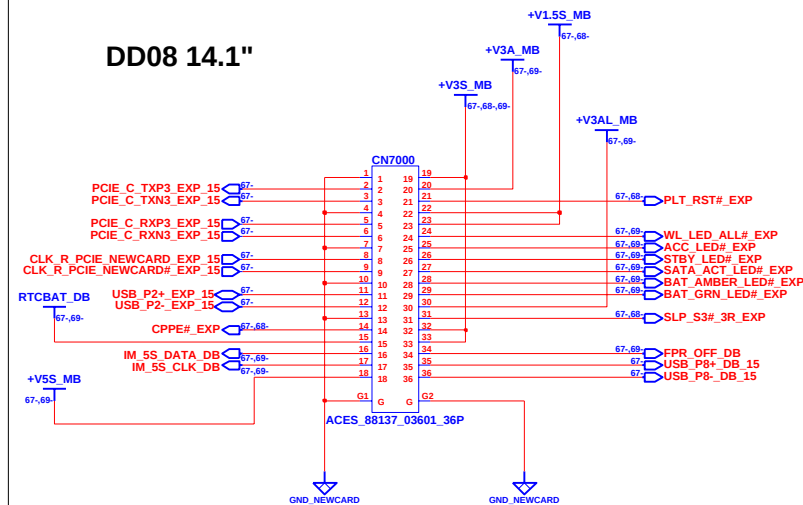
INVENTEC

TITLE TT2.0
MDC CONNECTORSIZE CODE DOC. NUMBER REV
A3 CS 1310A2150101 A01

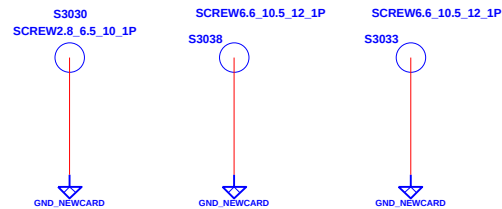
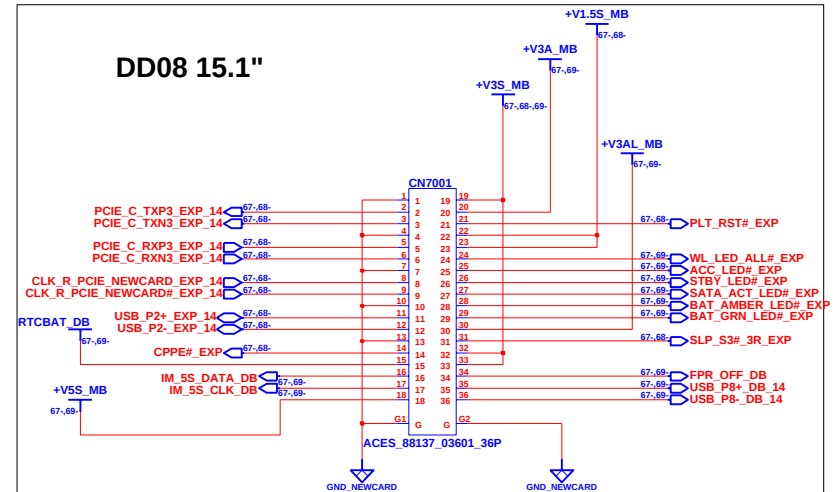
CHANGE by Kevin Hsiao 8-Apr-2008

SHEET 66 OF 70

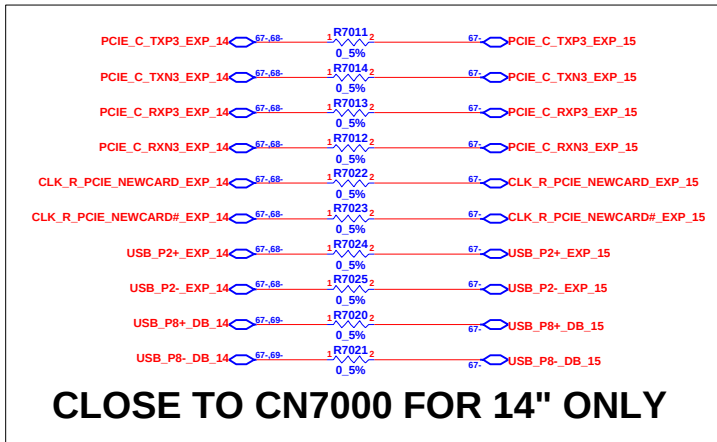
DD08 14.1"



DD08 15.1"



- | | |
|-----------------------|------------------|
| 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_3S#_3R |
| 14 CLK_R_REQ# | 32 +V3S |
| 15 RTCBAT | 33 +V3S |
| 16 TOUCHPAD DATA | 34 FPR_OFF |
| 17 TOUCHPAD CLK | 35 USB_P8+ |
| 18 +V5S | 36 USB_P8- |

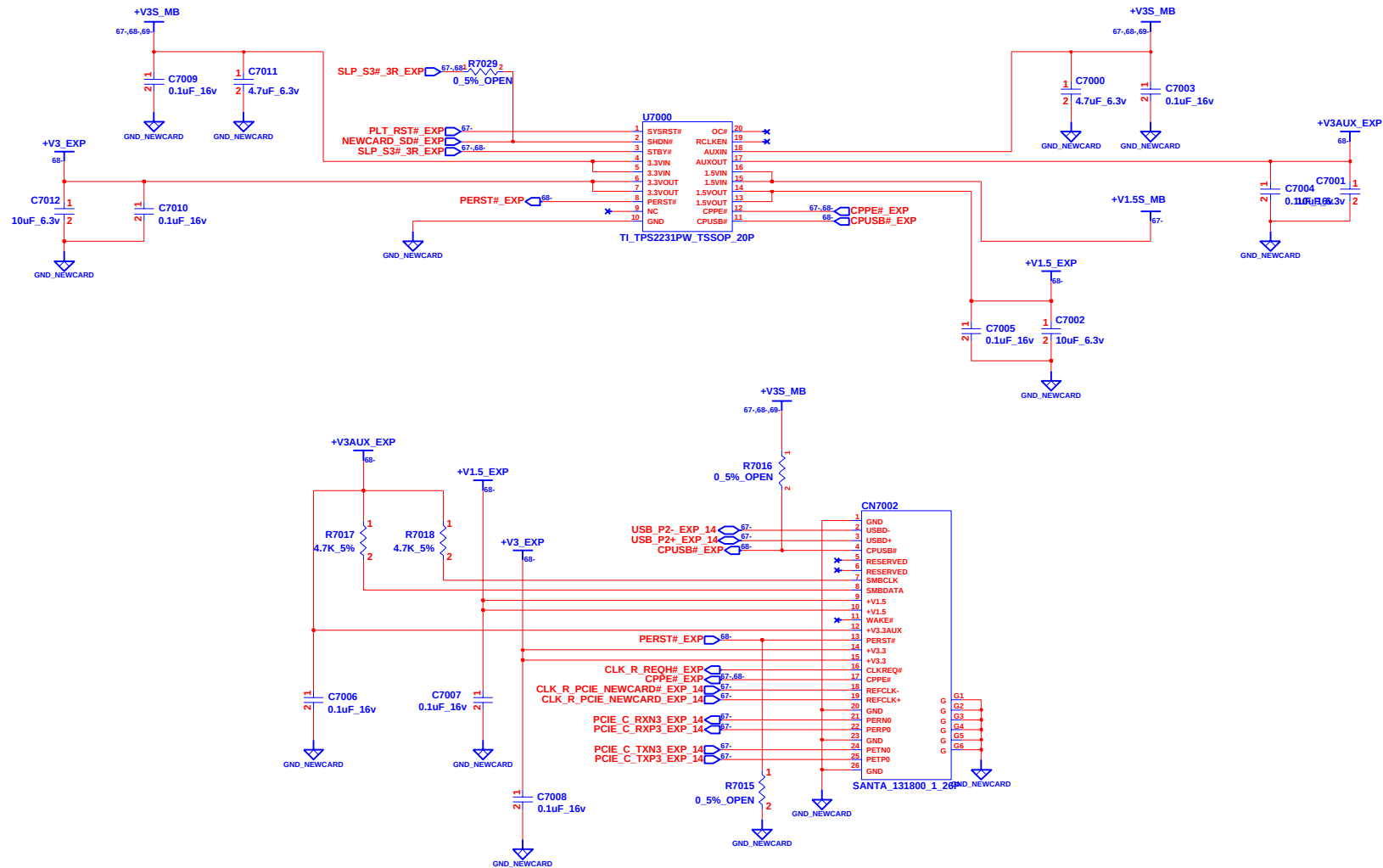


CLOSE TO CN7000 FOR 14" ONLY

EXPRESS CARD DAUGHTER BOARD

INVENTEC

TITLE TT2.0 NEW CARD CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101	REV A01
CHANGE by Kevin Hsiao		8-Apr-2008	
SHEET 67		OF 70	

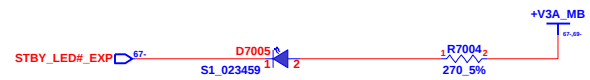
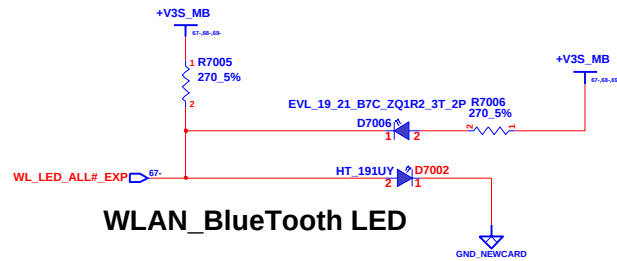


EXPRESS CARD DAUGHTER BOARD

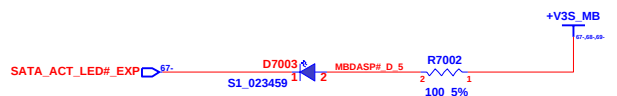
INVENTEC

TITLE TT2.0 NEW CARD			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101	REV A01
CHANGE by <i>Kevin Hsiao</i>		8-Apr-2008	
SHEET 68		OF 70	

EXPRESS CARD DAUGHTER BOARD



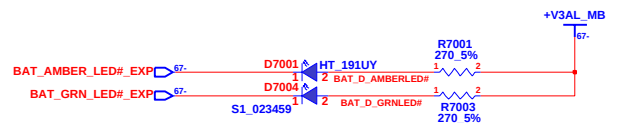
Power / Standby LED



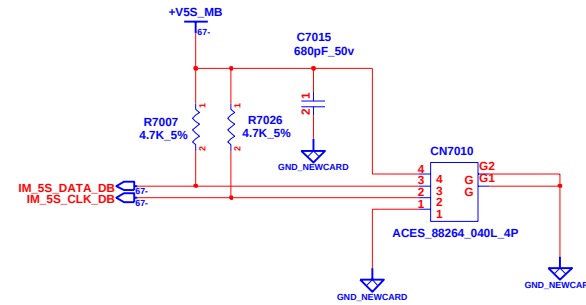
HDD & ODD LED



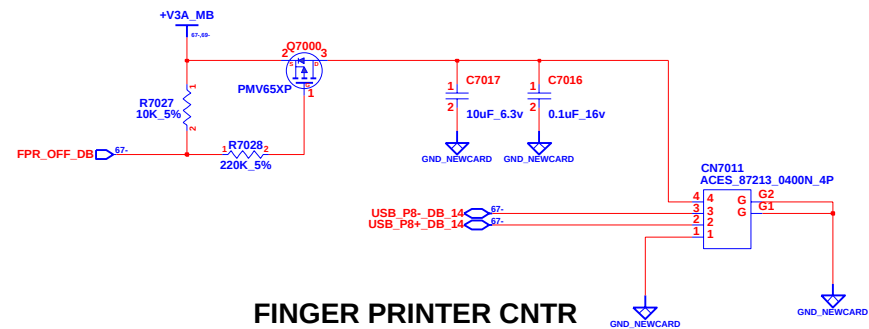
Accelero-Meter LED



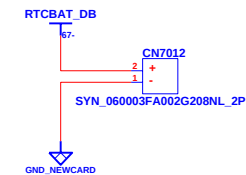
Battery-Charge LED



TOUCH PAD CNTR



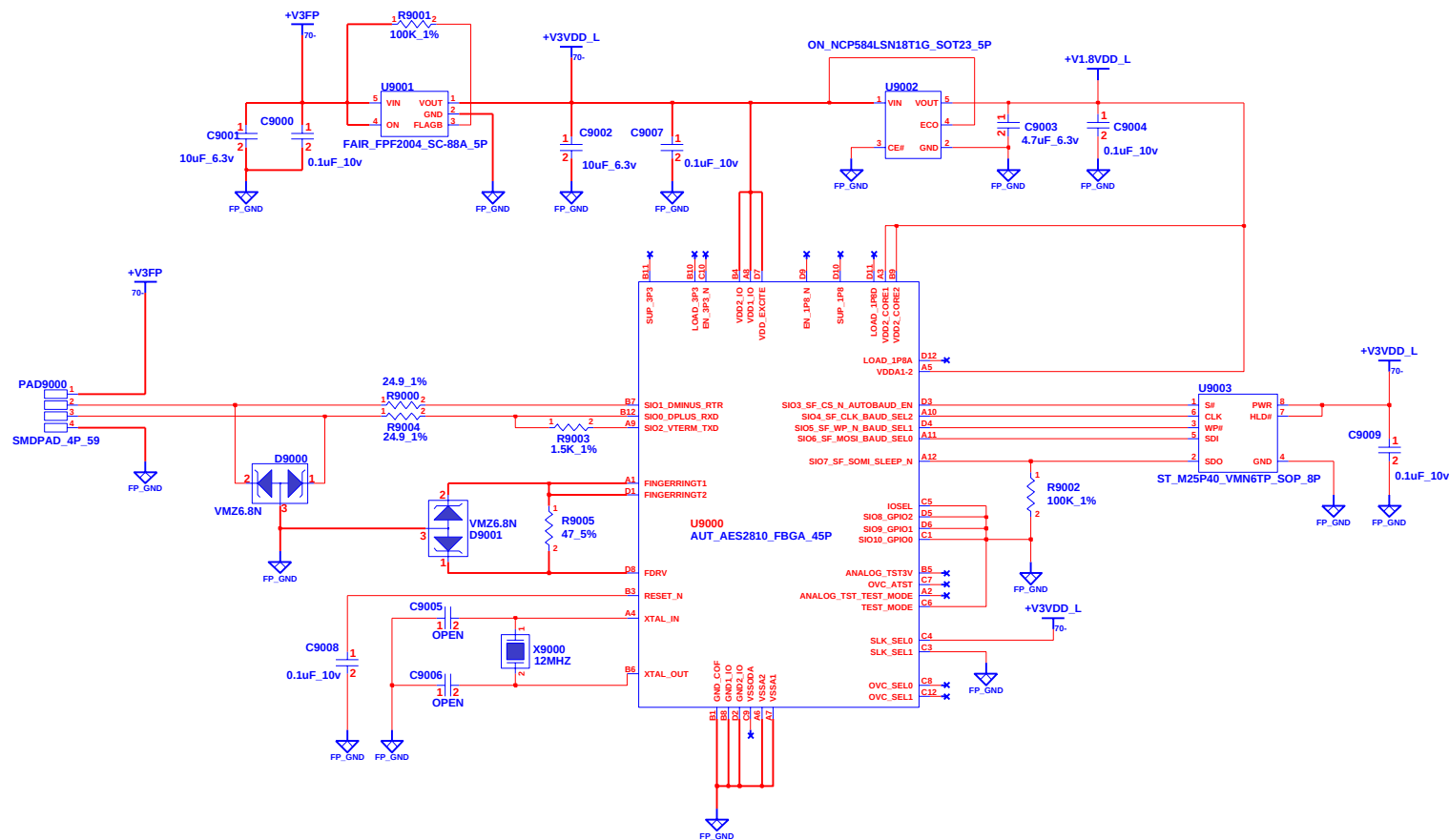
FINGER PRINTER CNTR



RTC CNTR

INVENTEC

TITLE			
TT2.0			
NEW CARD LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101	A01
CHANGE by		8-Apr-2008	
SHEET		69	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