

2008/05/26

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INVENTEC

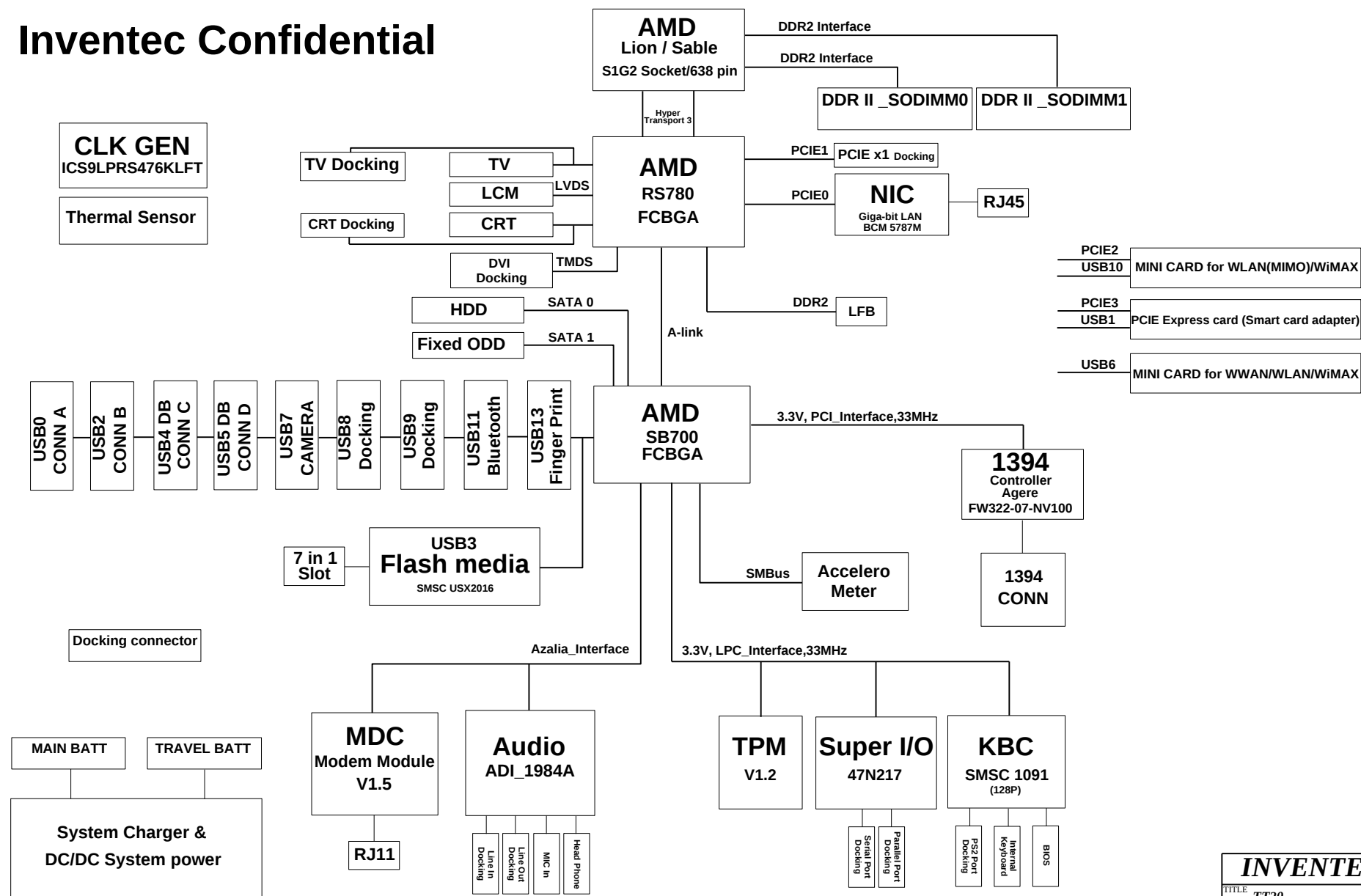
TITLE
TT20

SIZE A3	CODE CS	DOC. NUMBER 1310A2150101-1	REV A02
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CHANGE by Kevin Hsiao 15-May-2008

SHEET 2 OF 70

Inventec Confidential



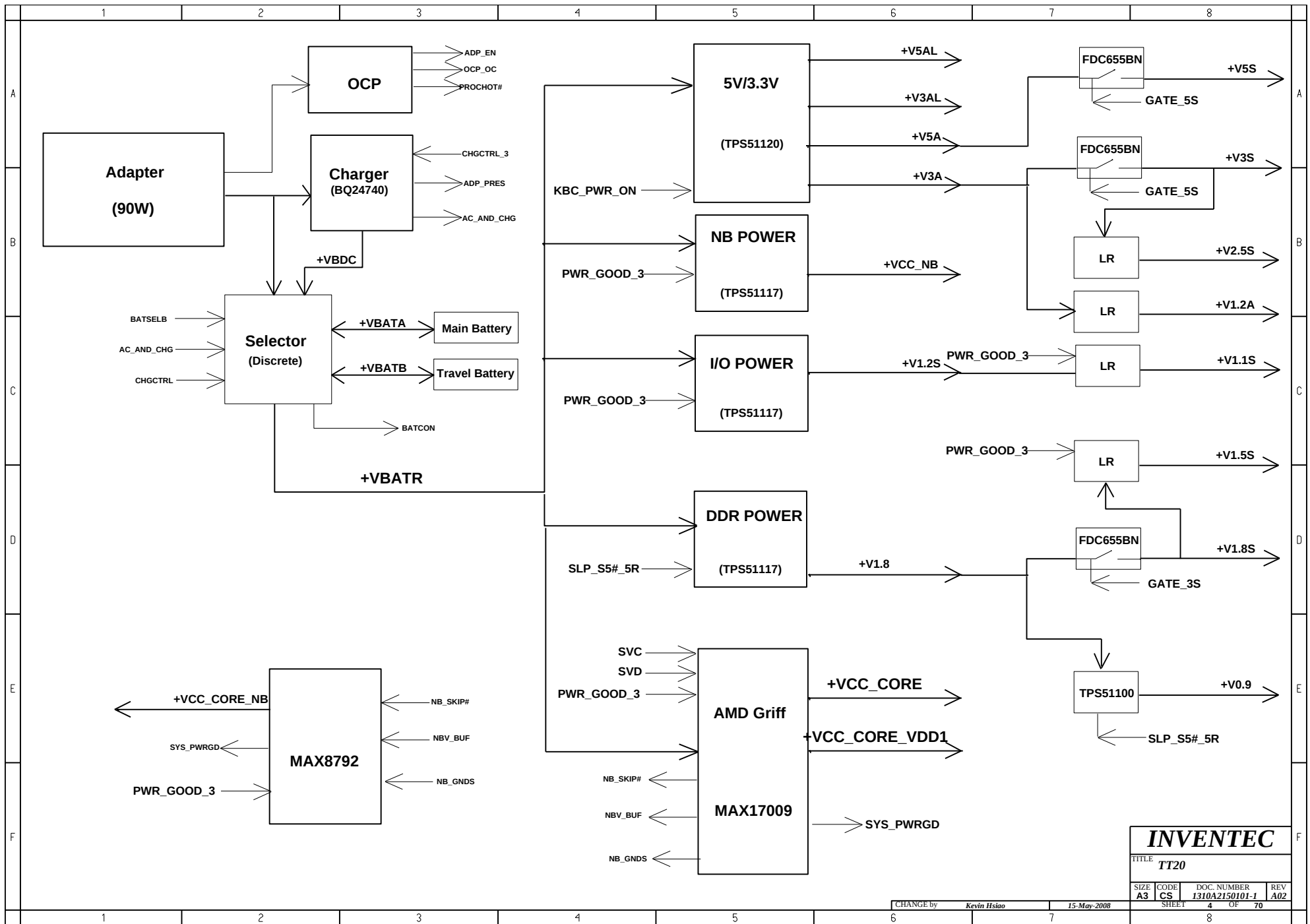
INVENTEC

TITLE
TT20
Block Diagram

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

SHEET 3 OF 70



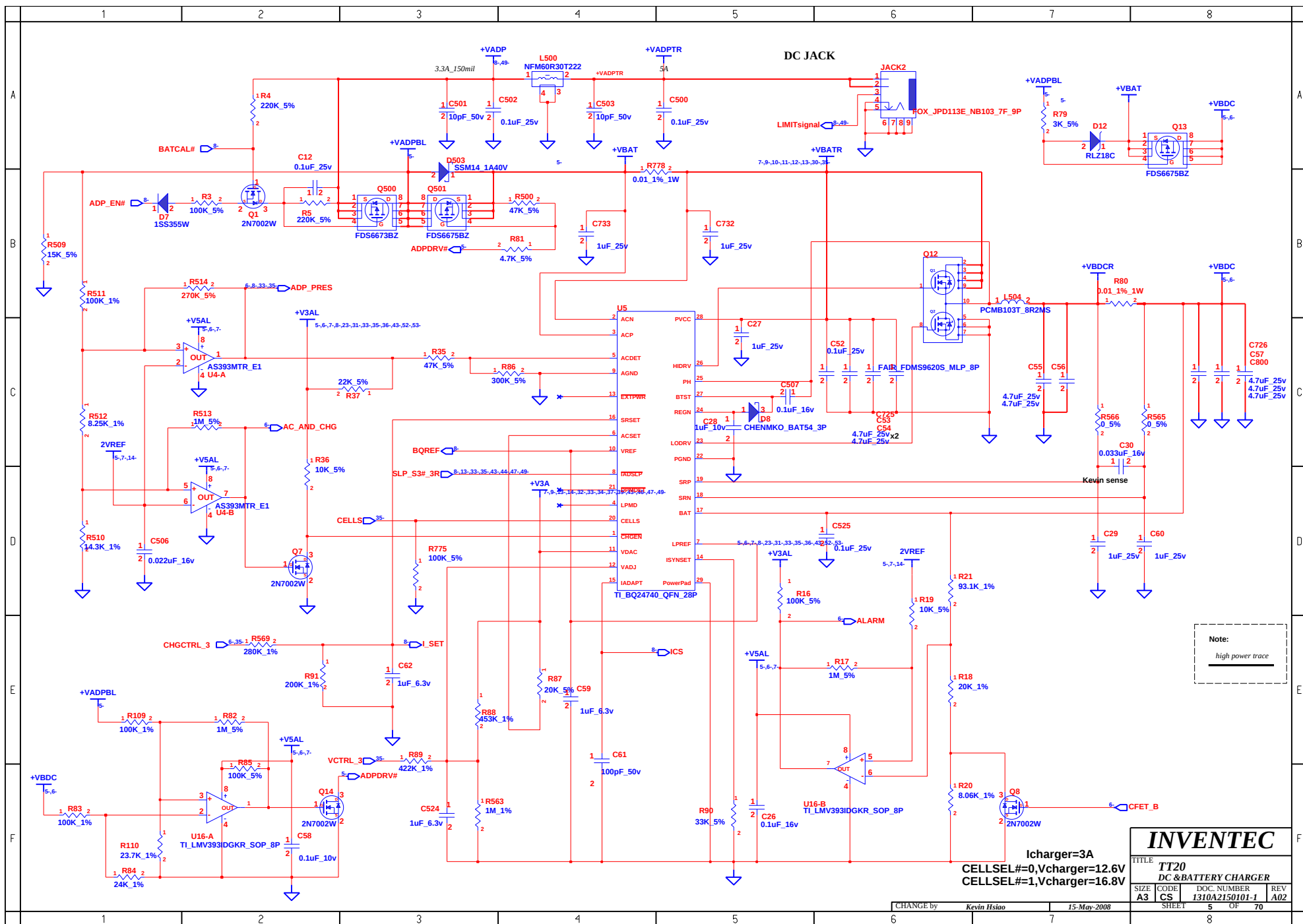
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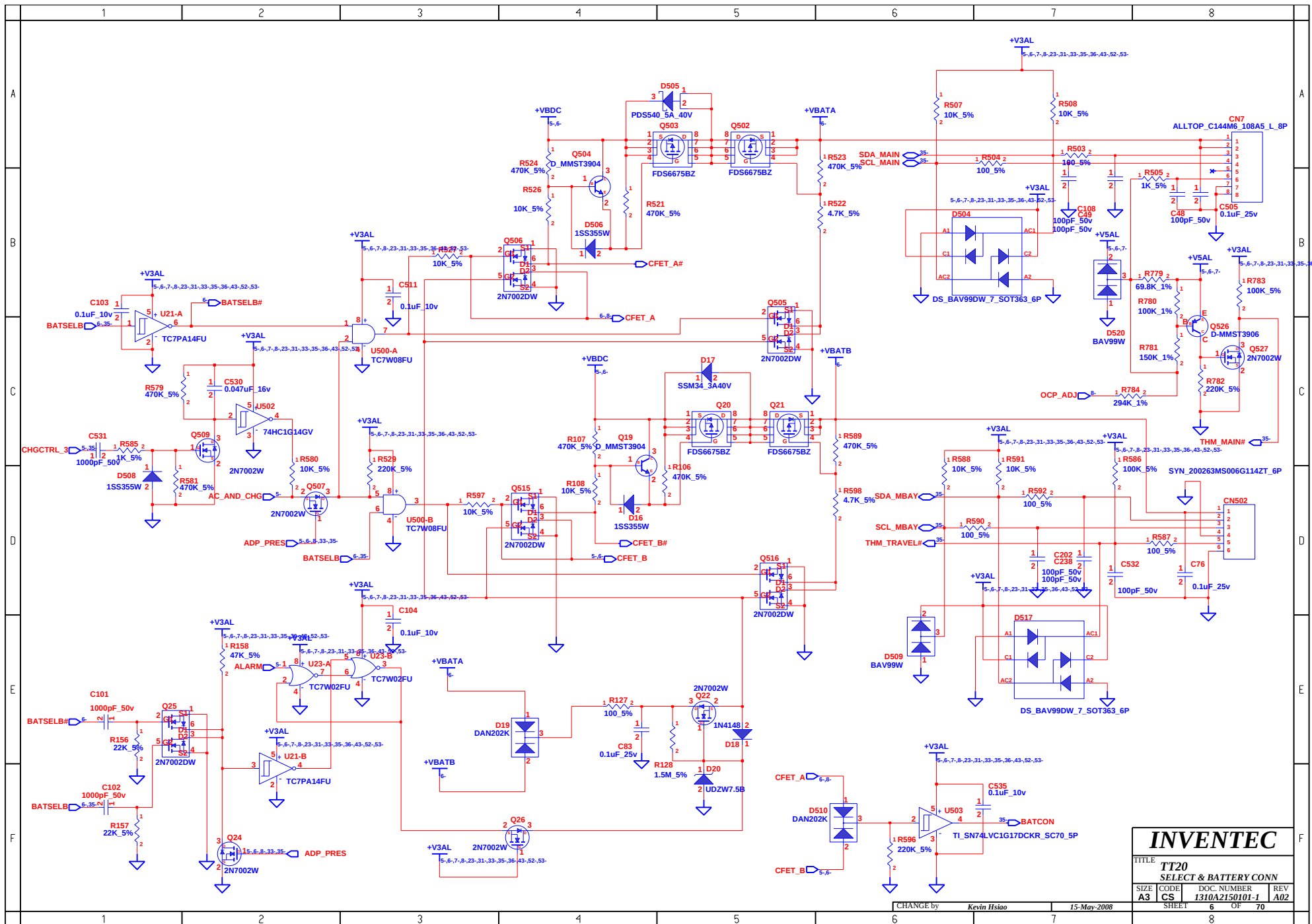
TITLE
TT20

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

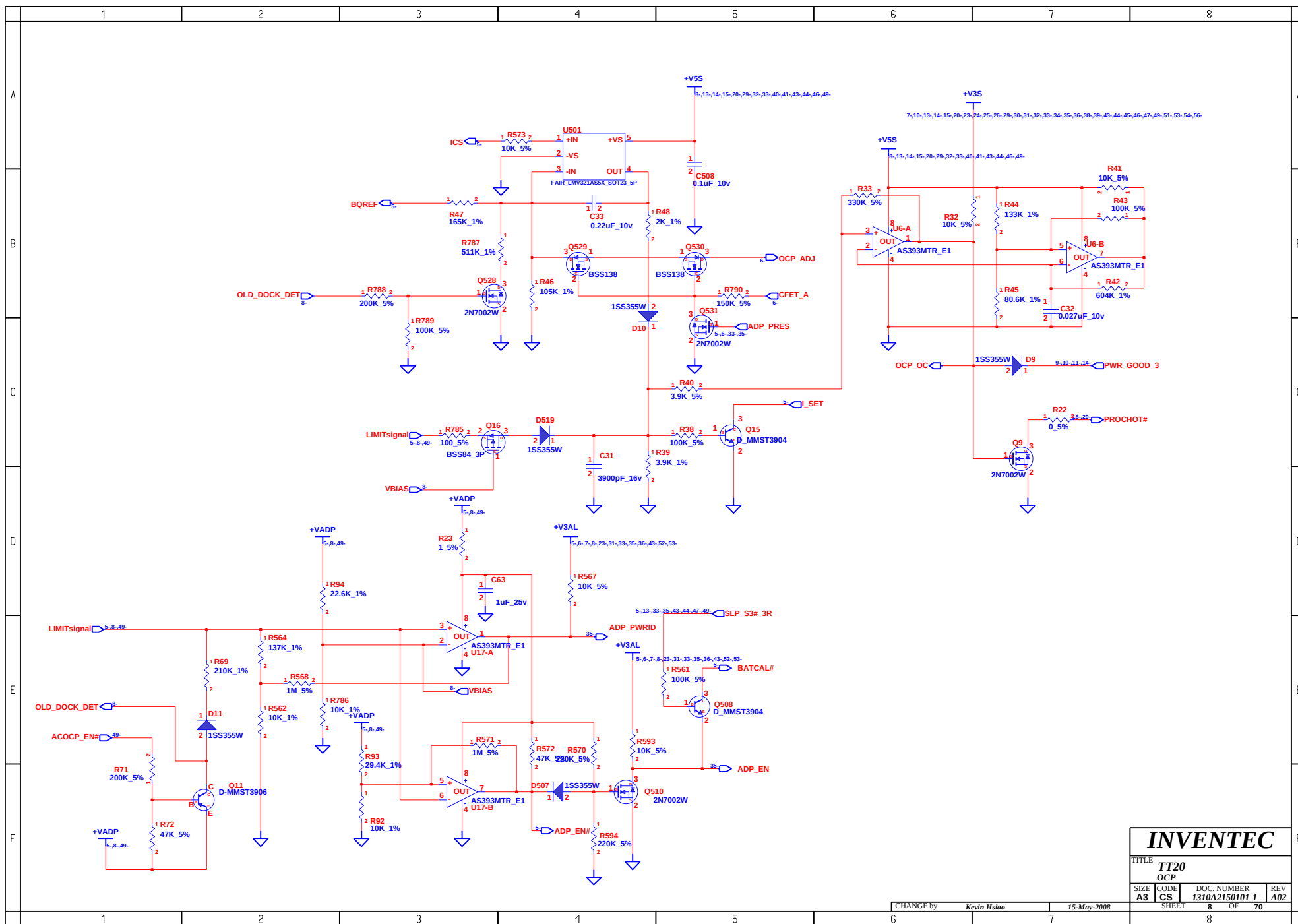
SHEET 4 OF 70





INVENTEC

TITLE			
TT20			
SELECT & BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		6	OF 70

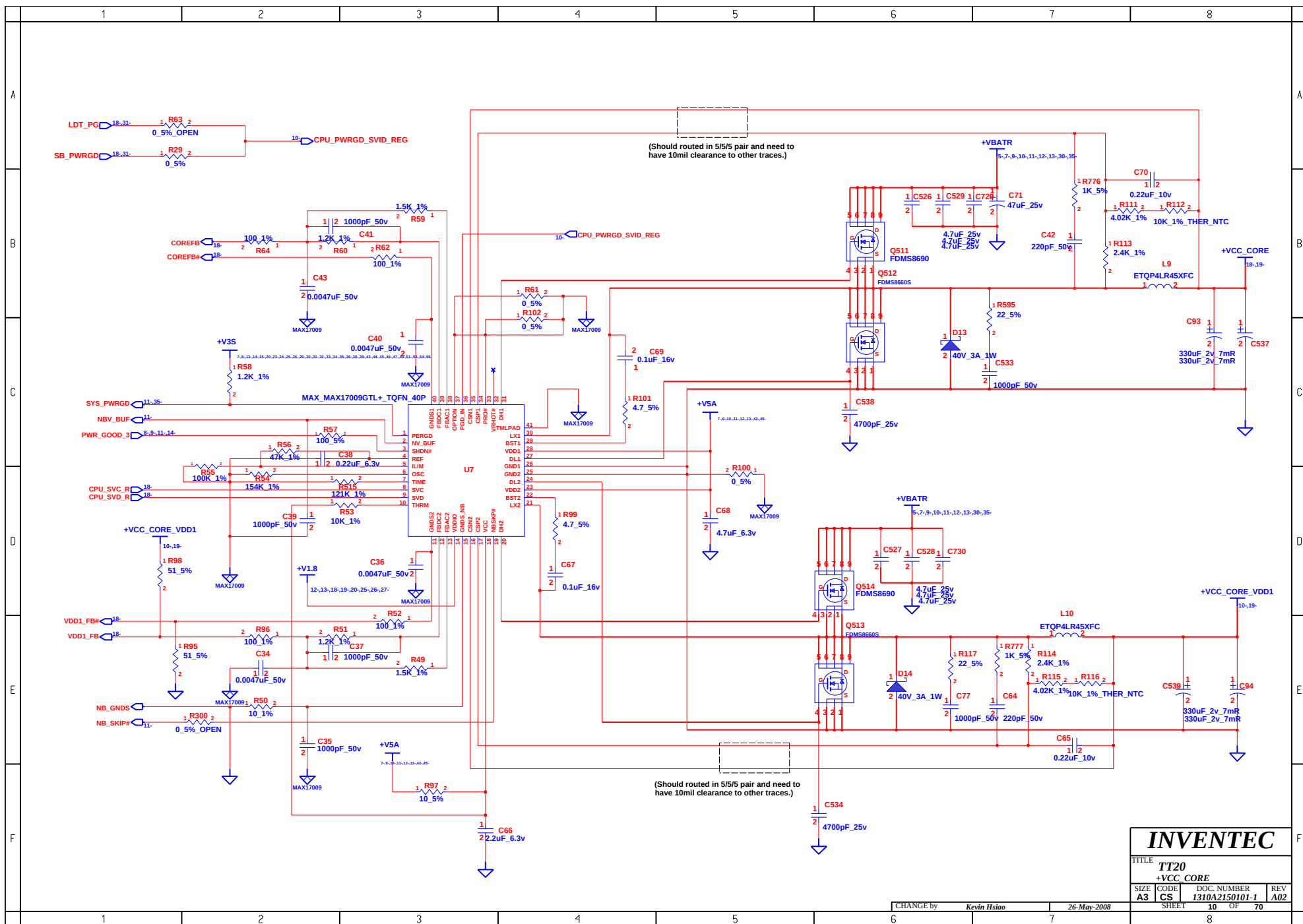


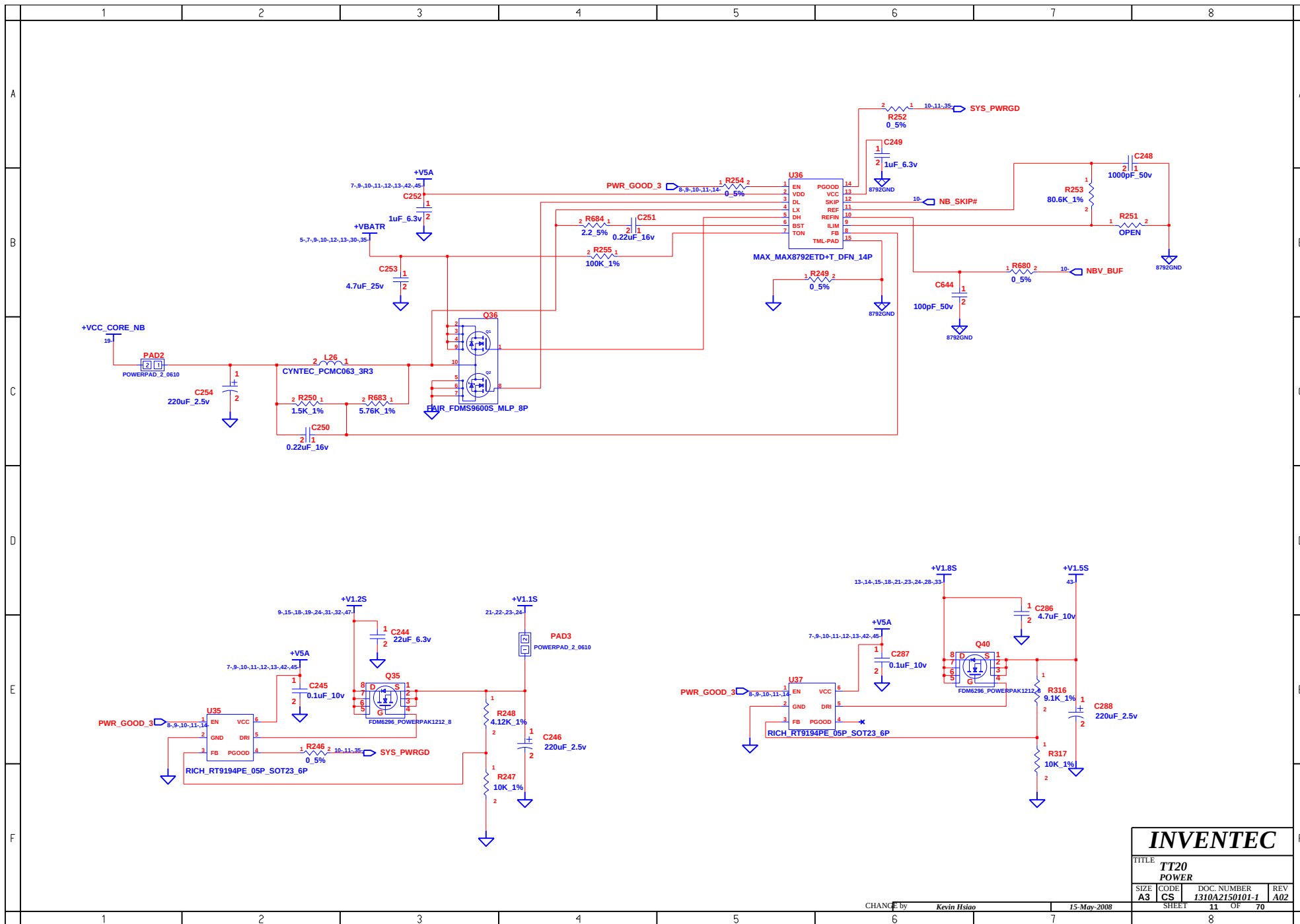
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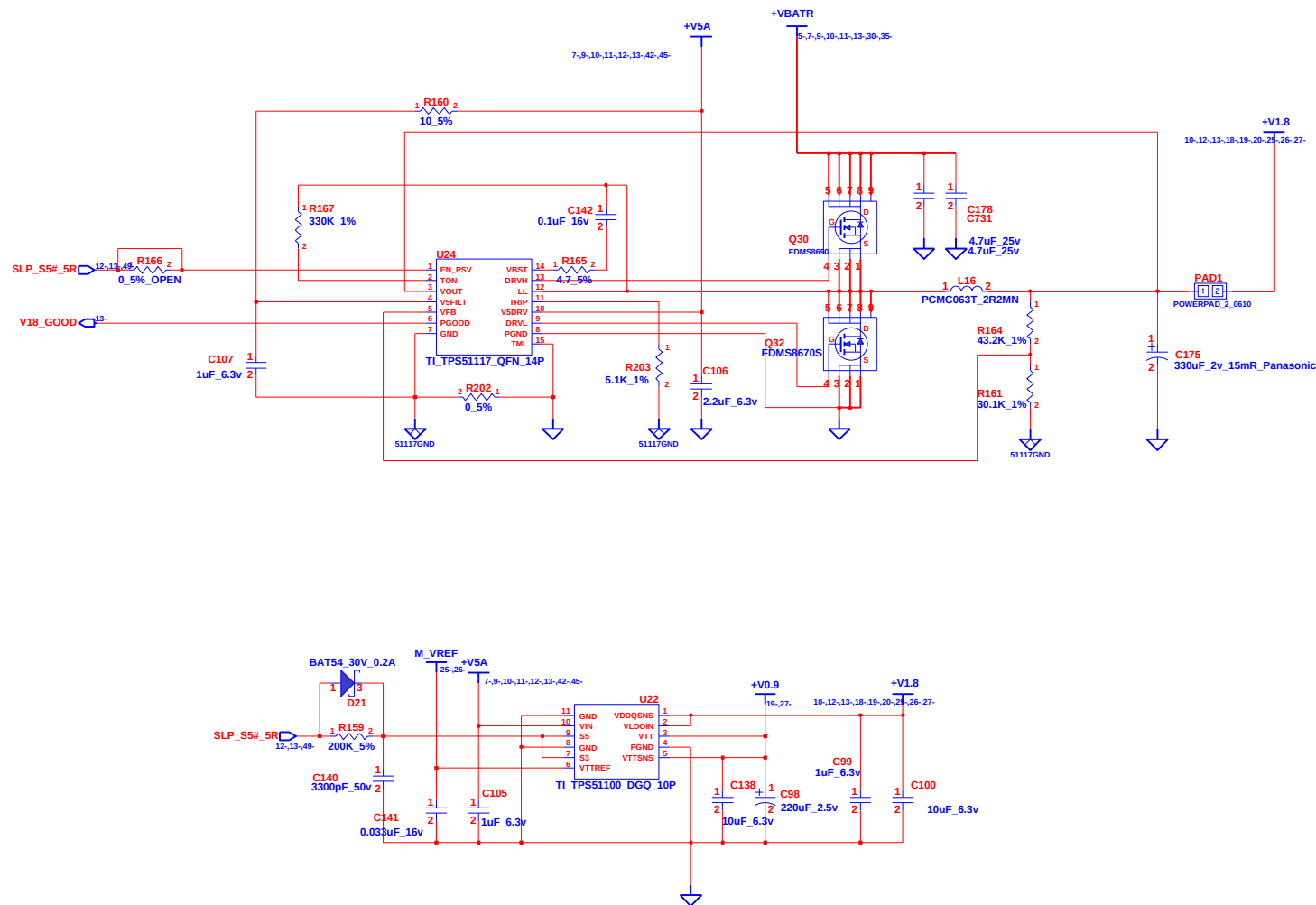
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A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

SHEET 8 OF 70





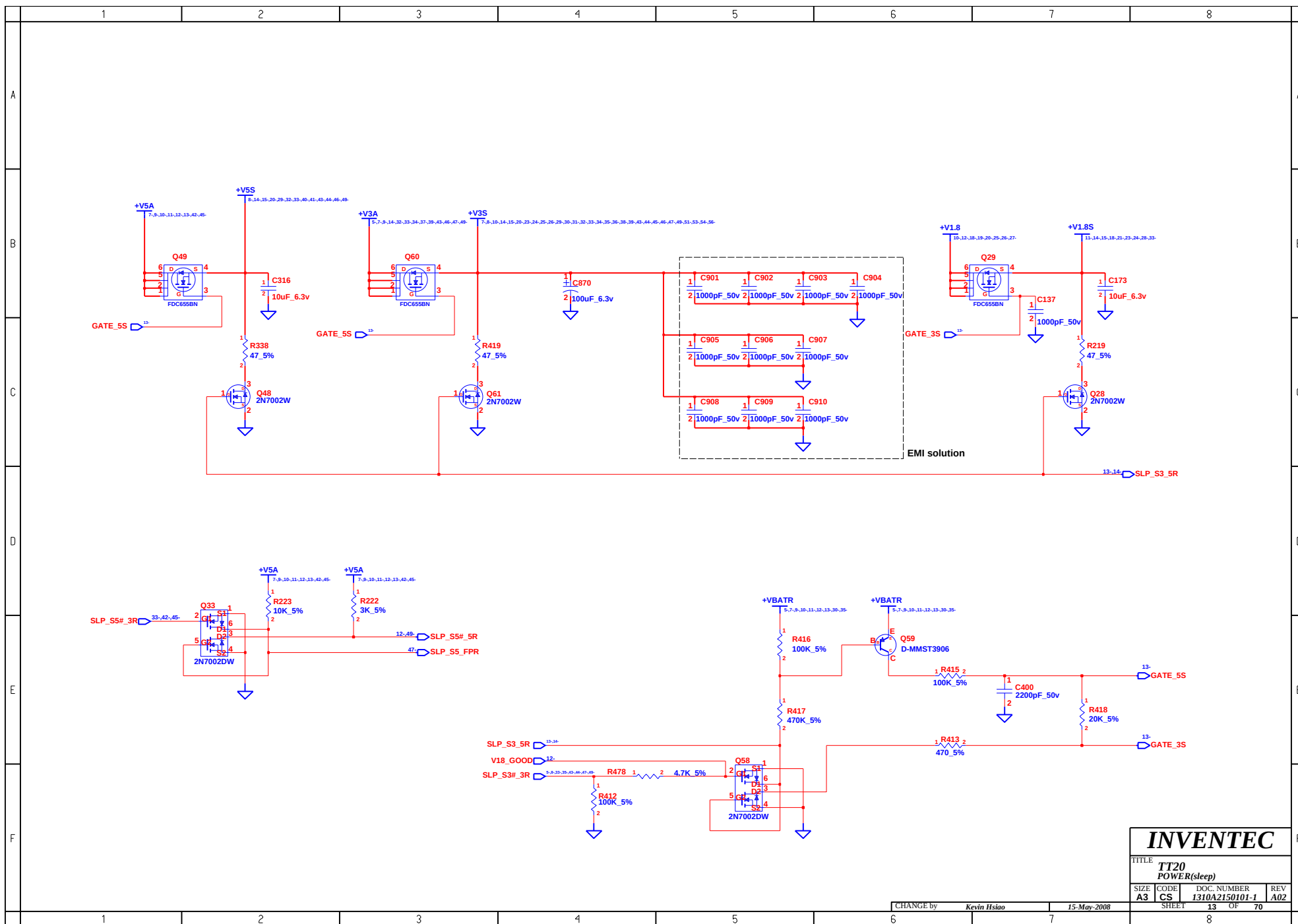


NOTE: DDR2 REGULATOR

INVENTEC

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DDR2 POWER			
SIZE	CODE	DOC. NUMBER	REV
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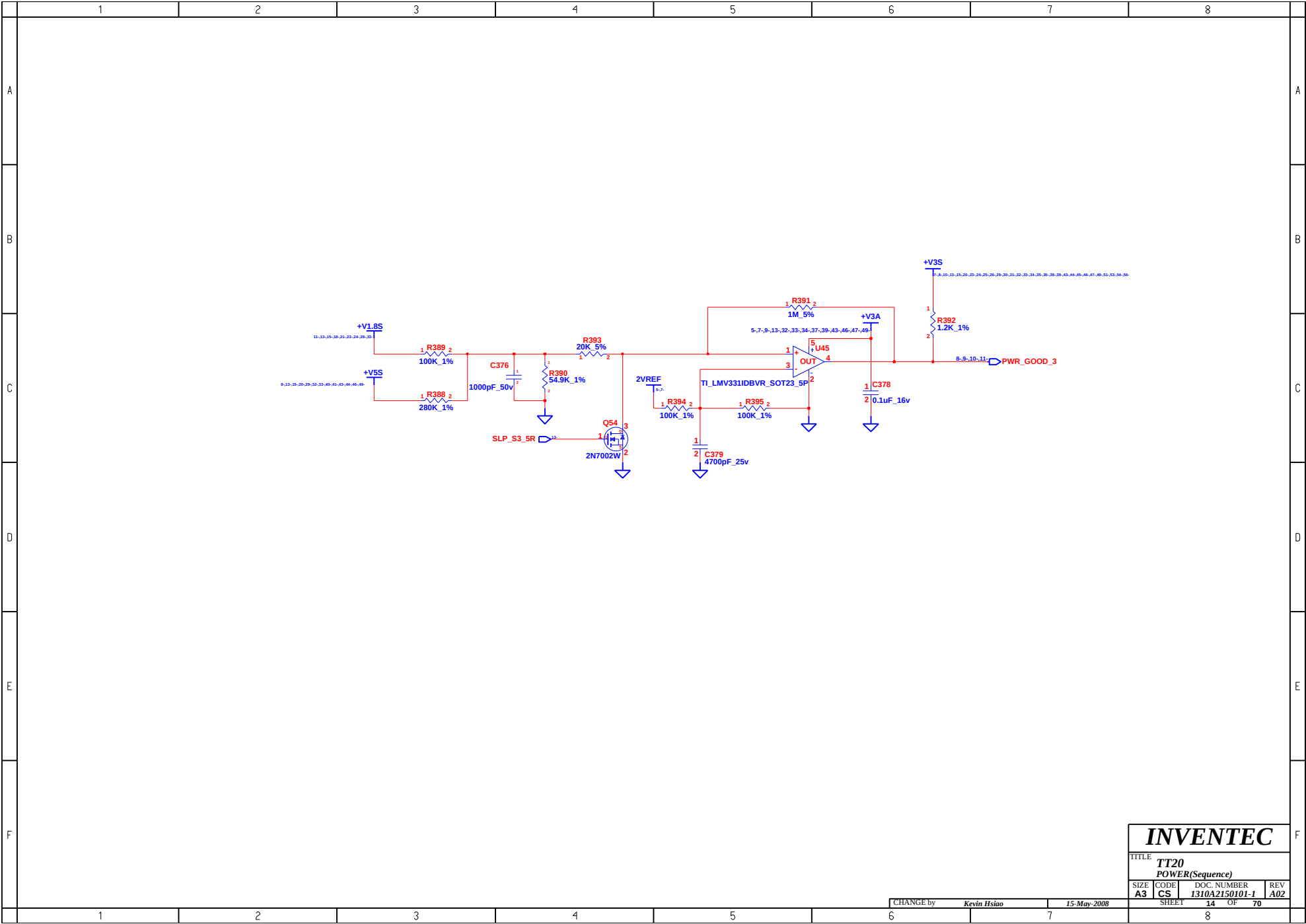
CHANGE by Kevin Hsiao 15-May-2008



INVENTEC

TITLE			
TT20			
POWER(sleep)			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		13	OF 70

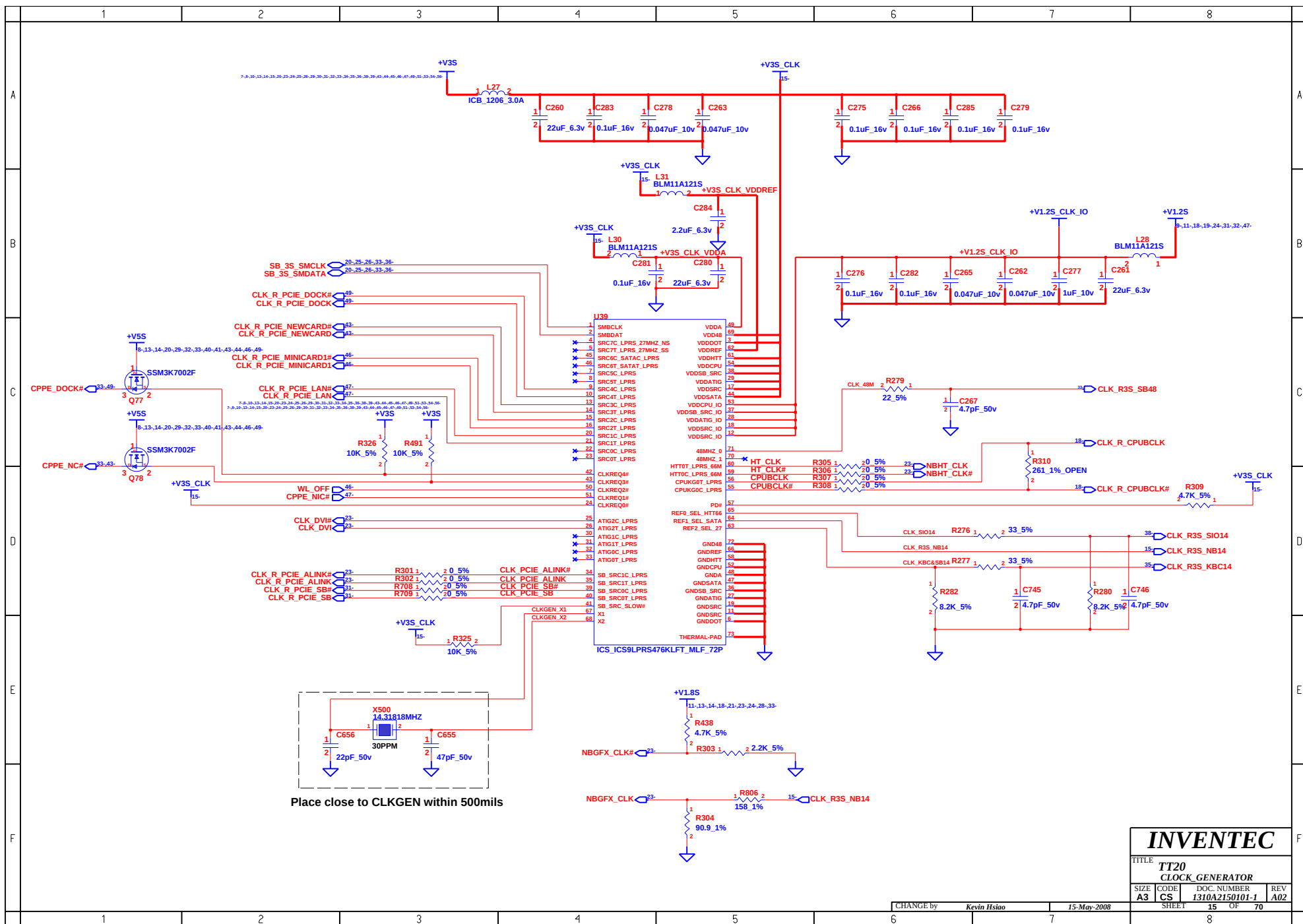
CHANGE by Kevin Hsiao 15-May-2008



INVENTEC

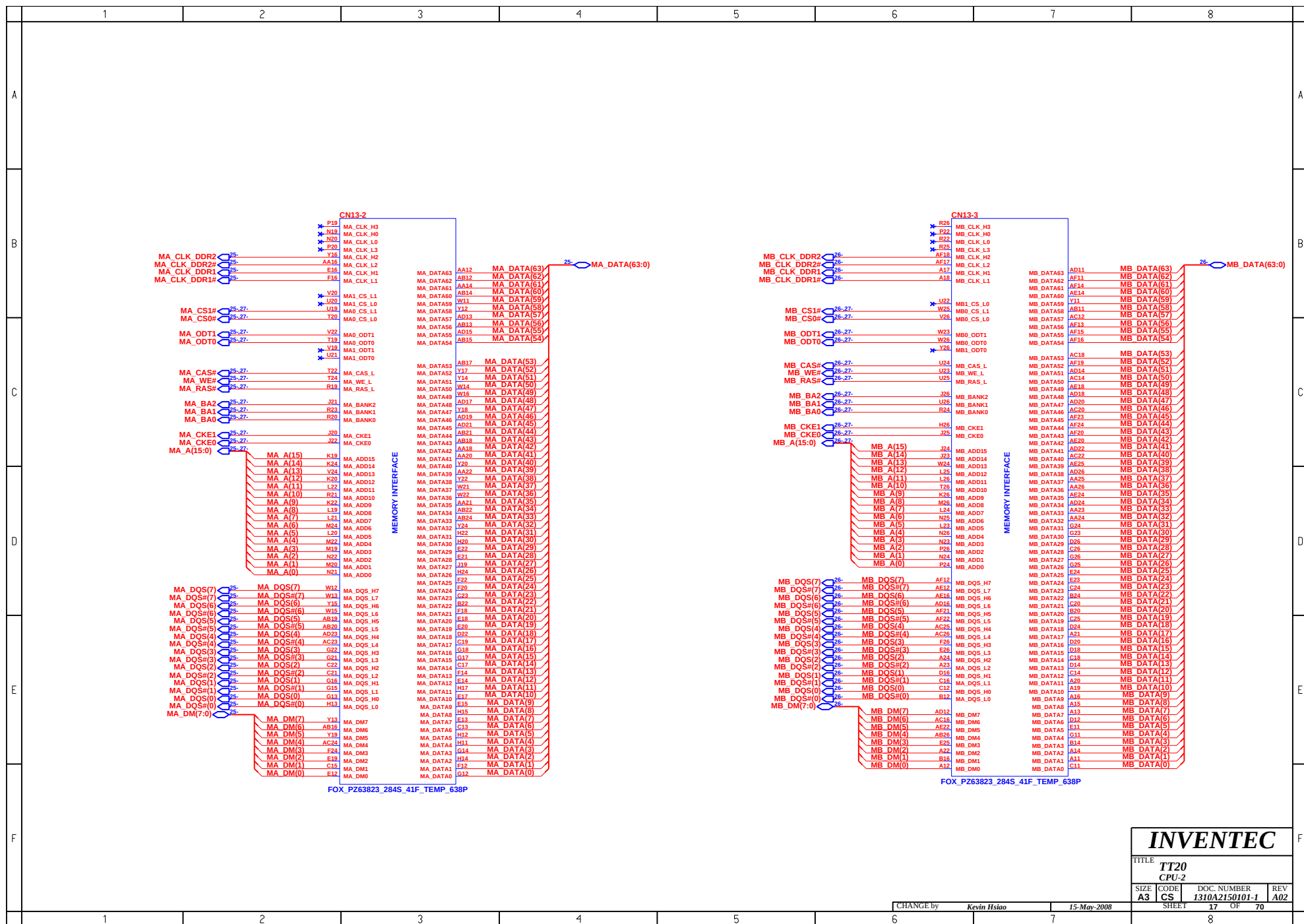
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POWER(Sequence)			
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SHEET		14	OF 70

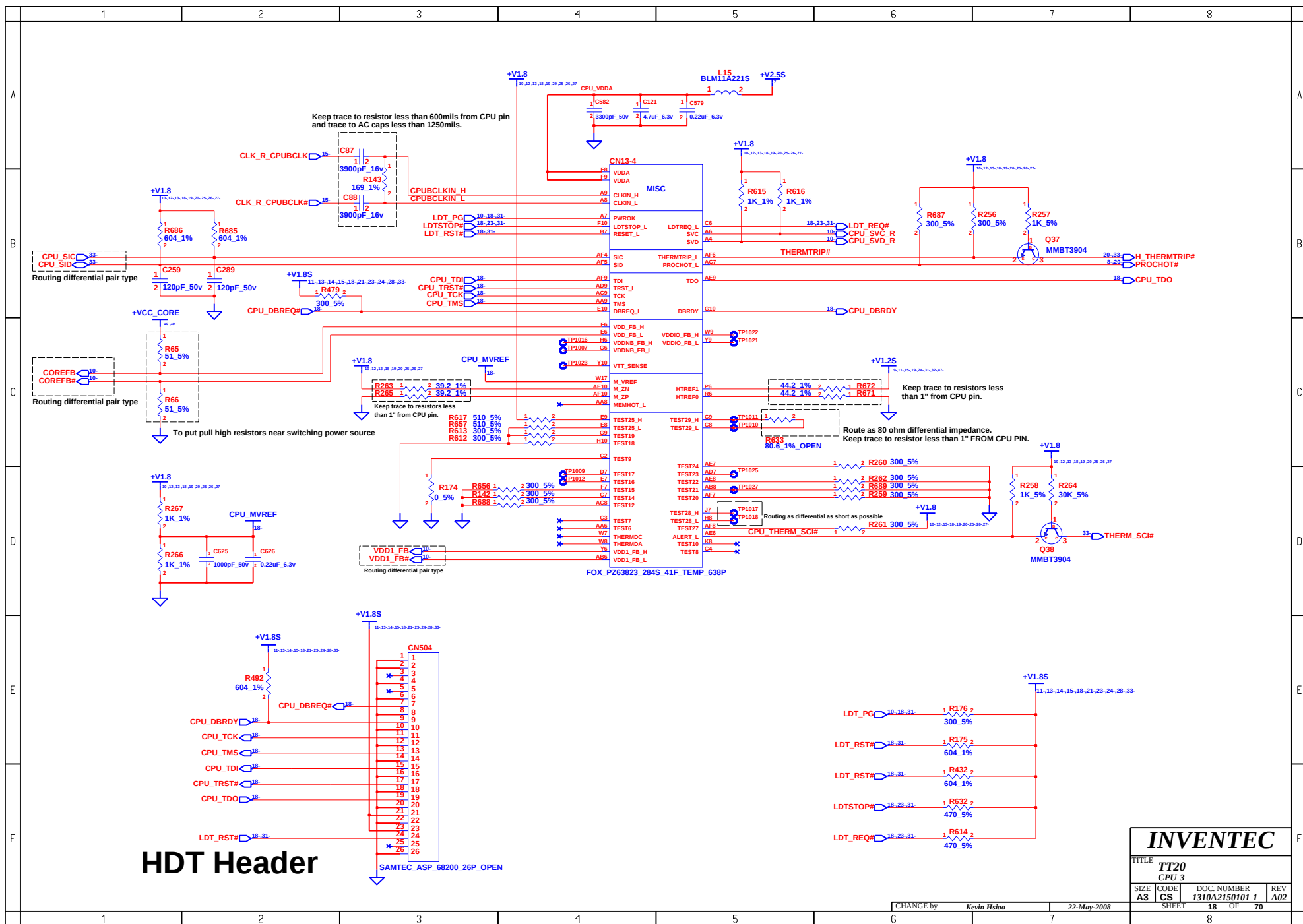
CHANGE by Kevin Hsiao 15-May-2008

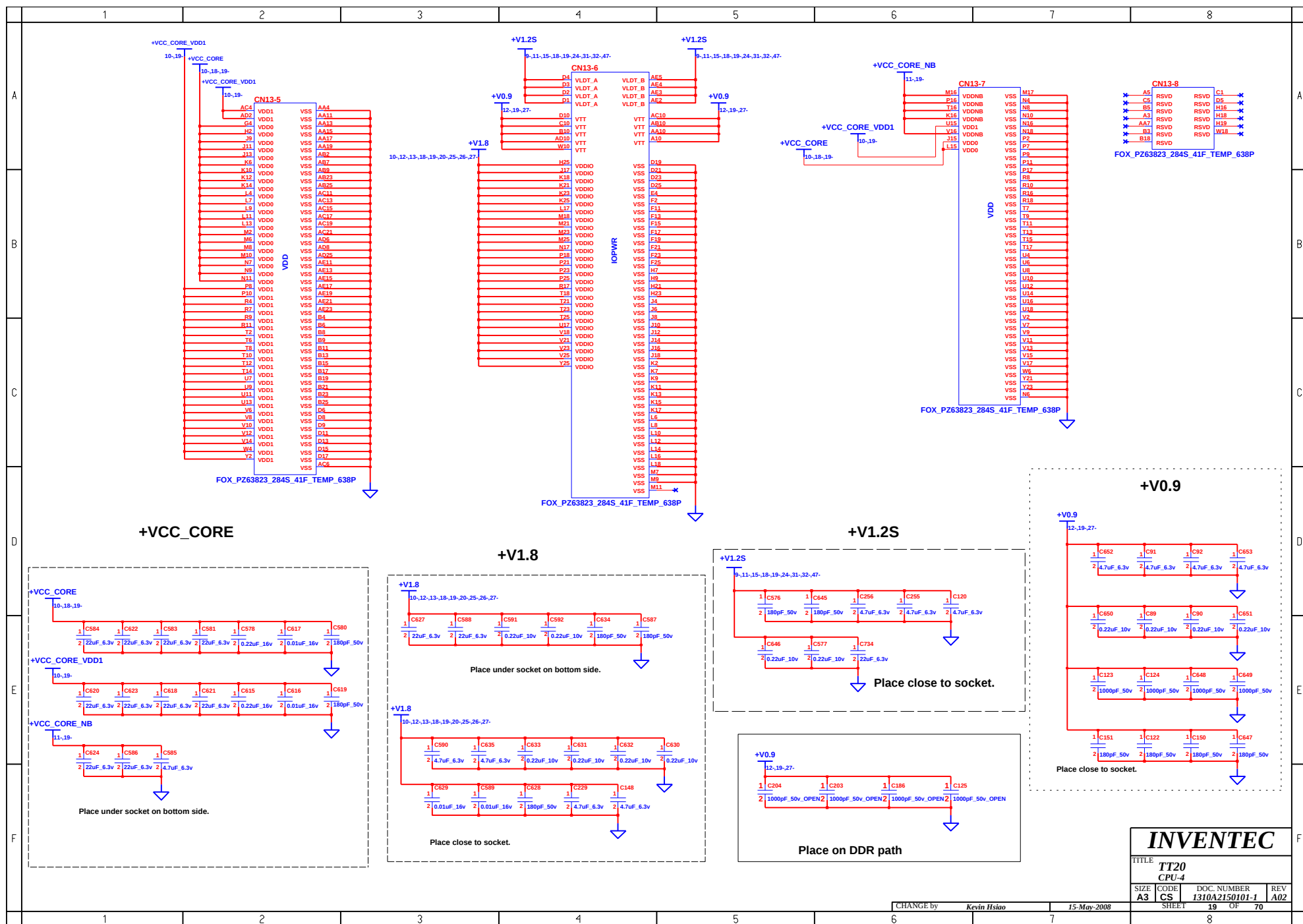


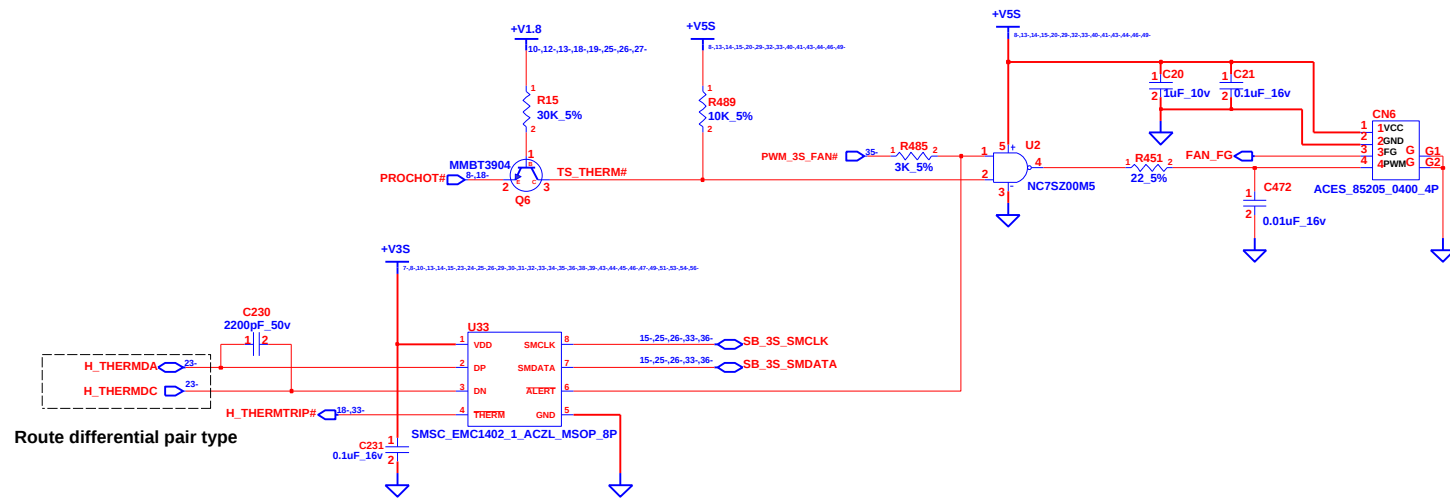


TITLE			
TT20 CPU-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101-1	A02
SHEET		16	OF 70





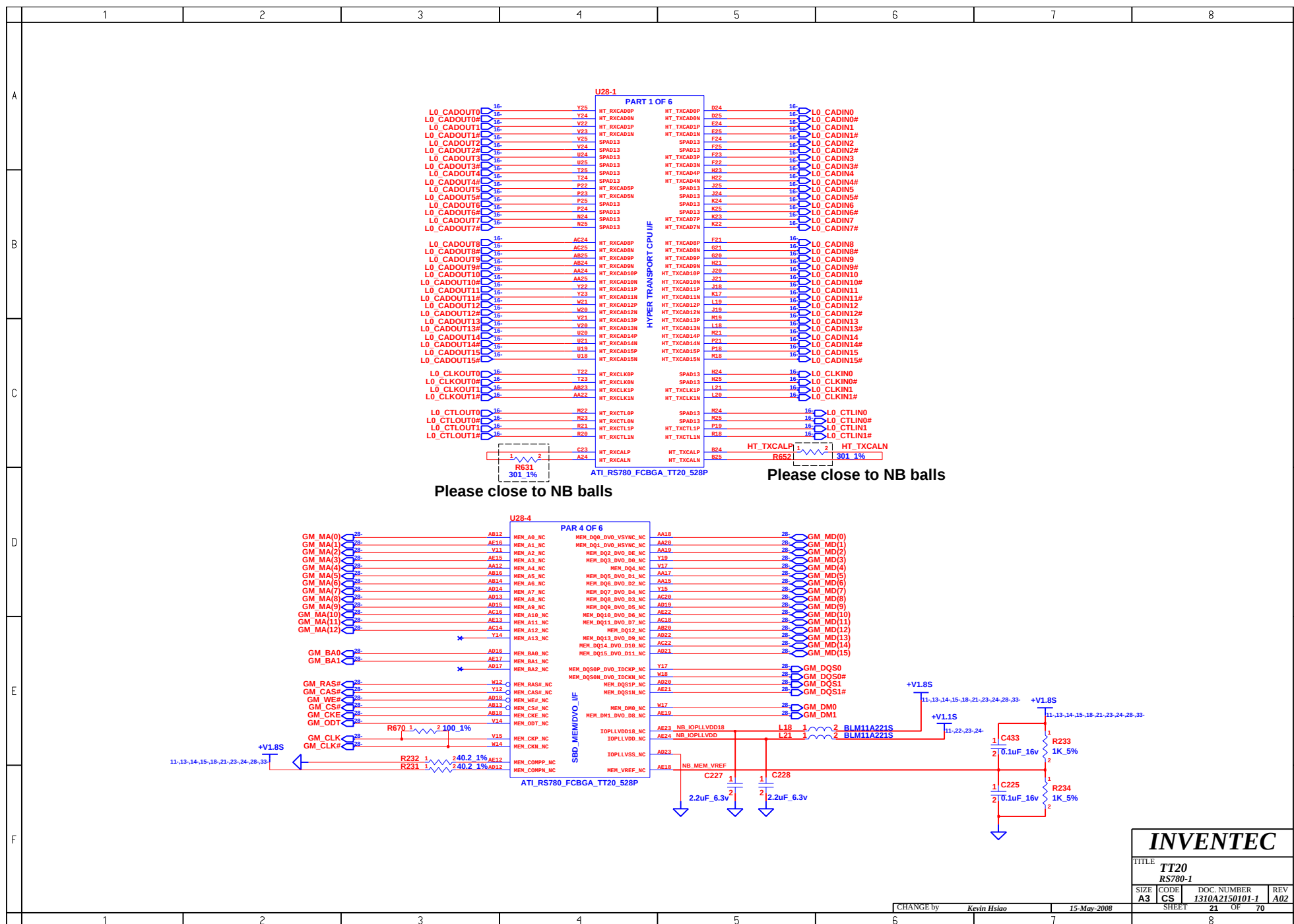


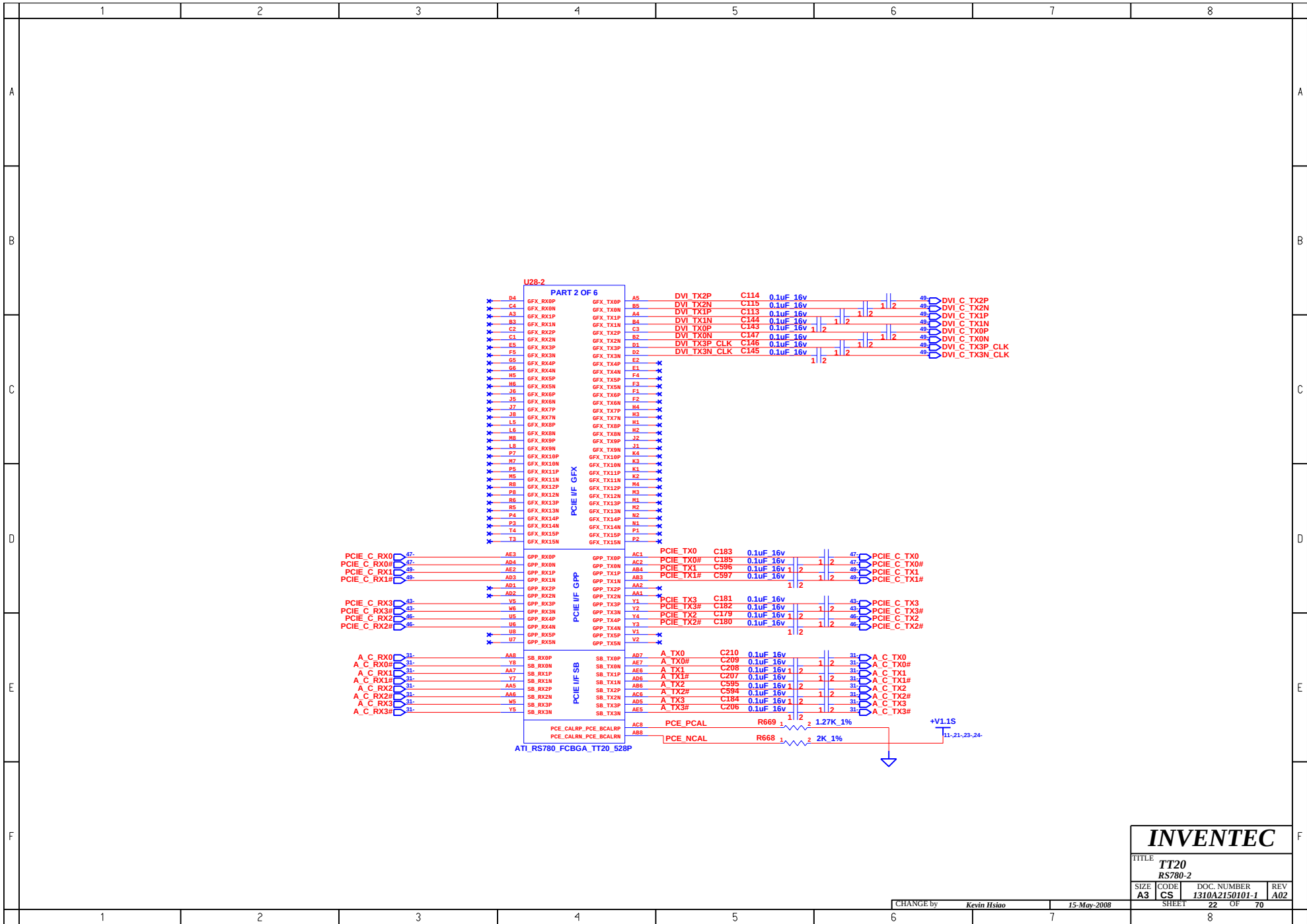


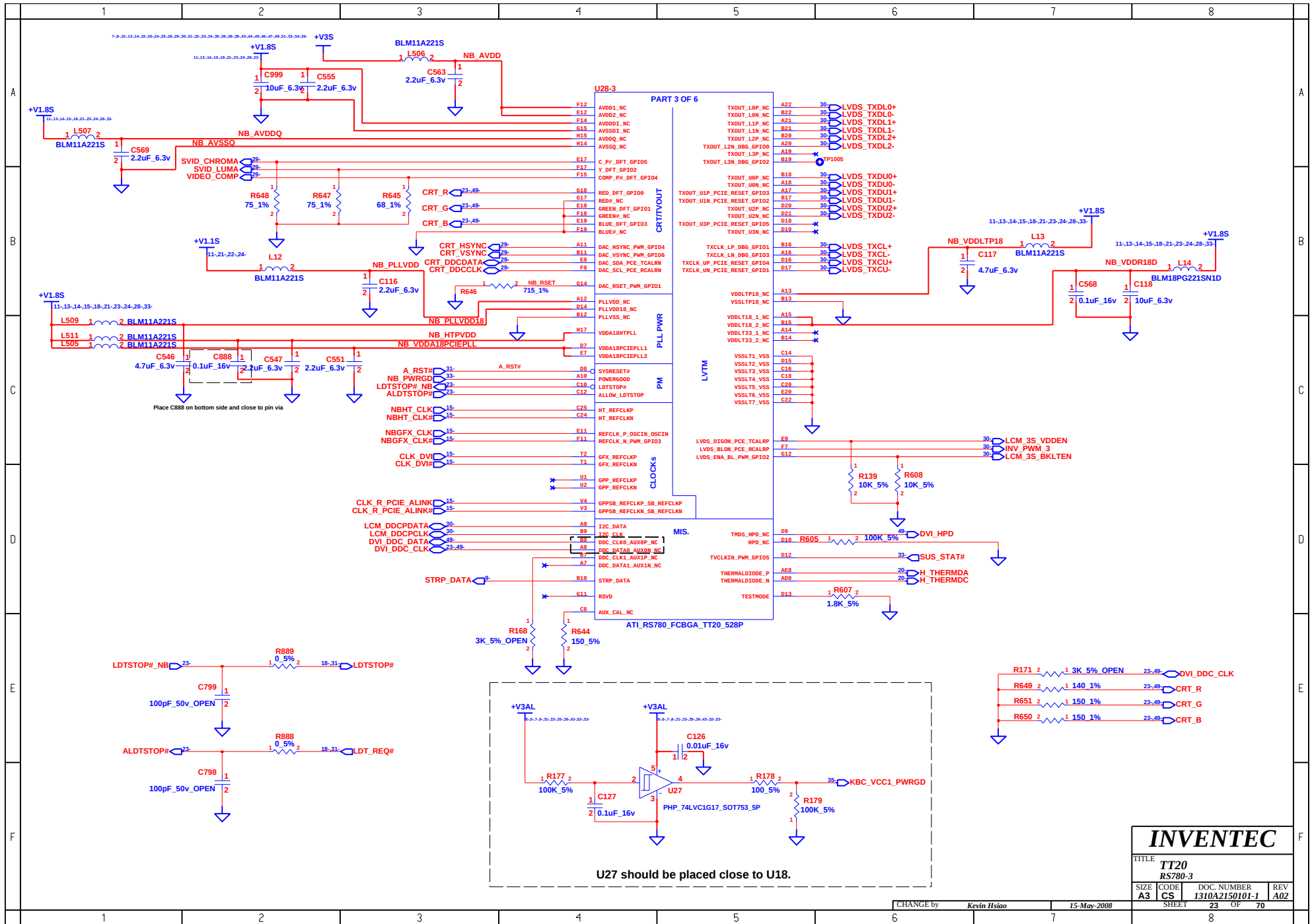
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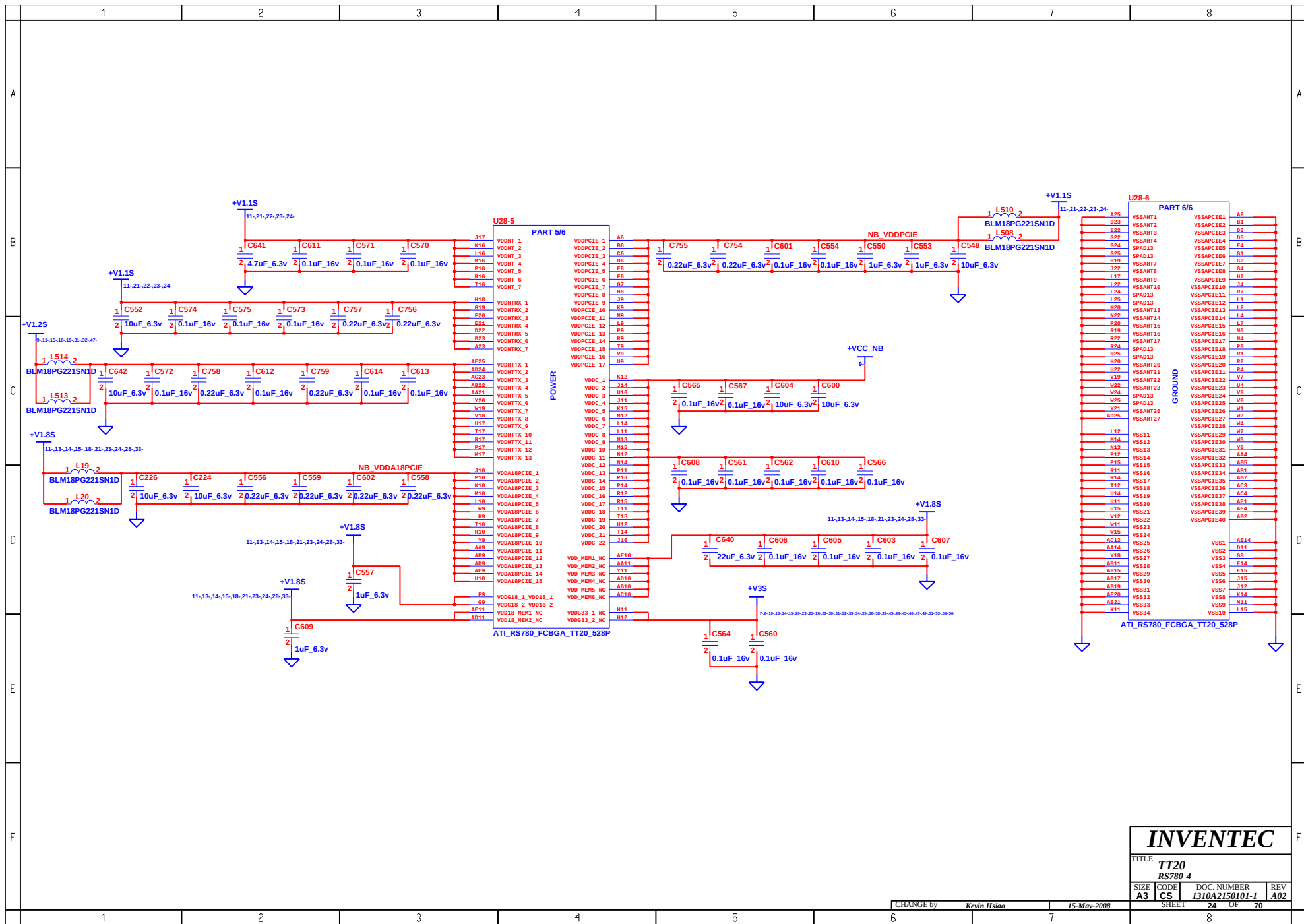
TITLE			
TT20			
THERMAL & FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ150101-1	A02
SHEET		20	OF 70

CHANGE by Kevin Hsiao 22-May-2008





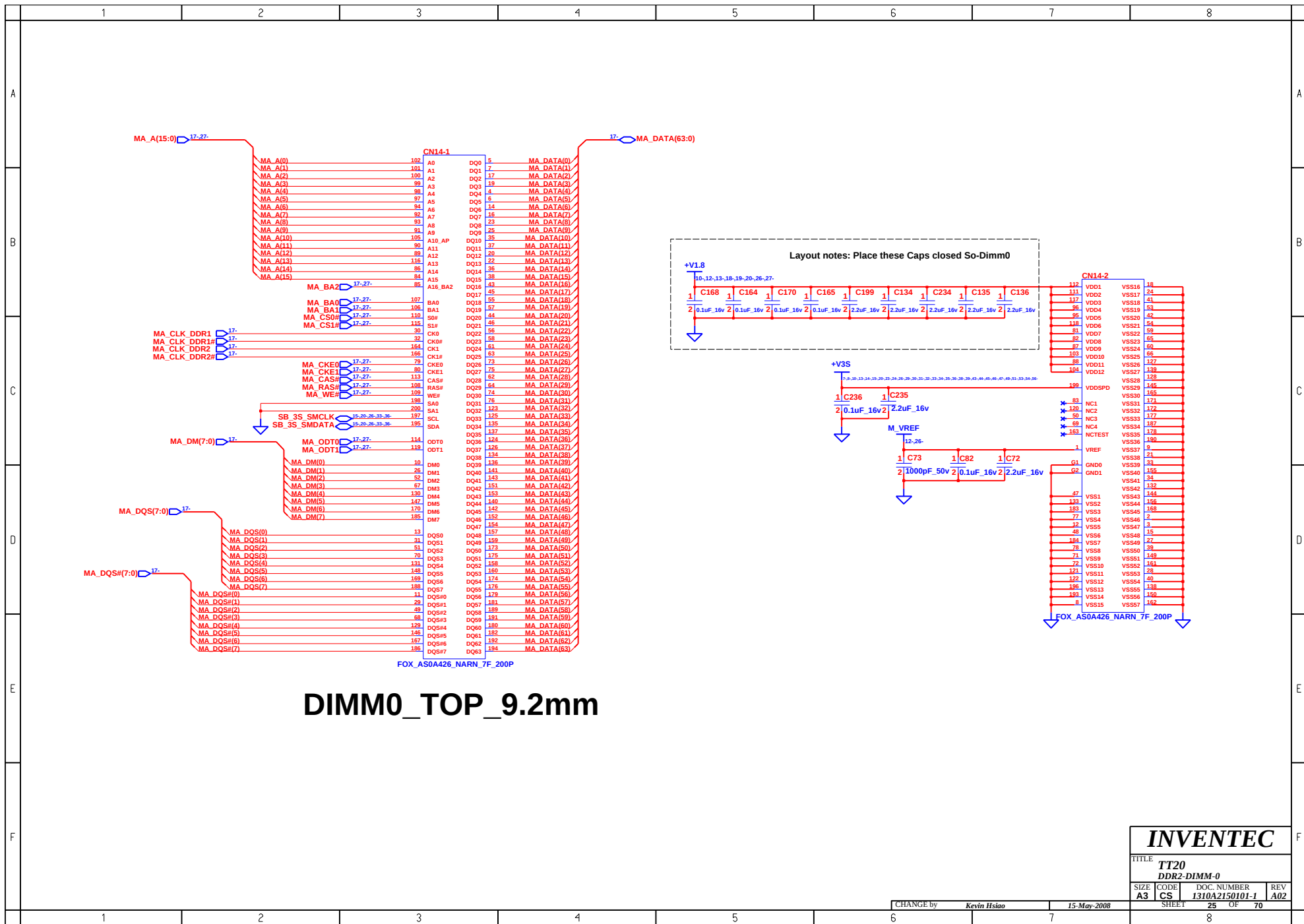




INVENTEC

TITLE			
TT20			
RS780-4			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		24	OF 70

CHANGE by Kevin Hsiao 15-May-2008

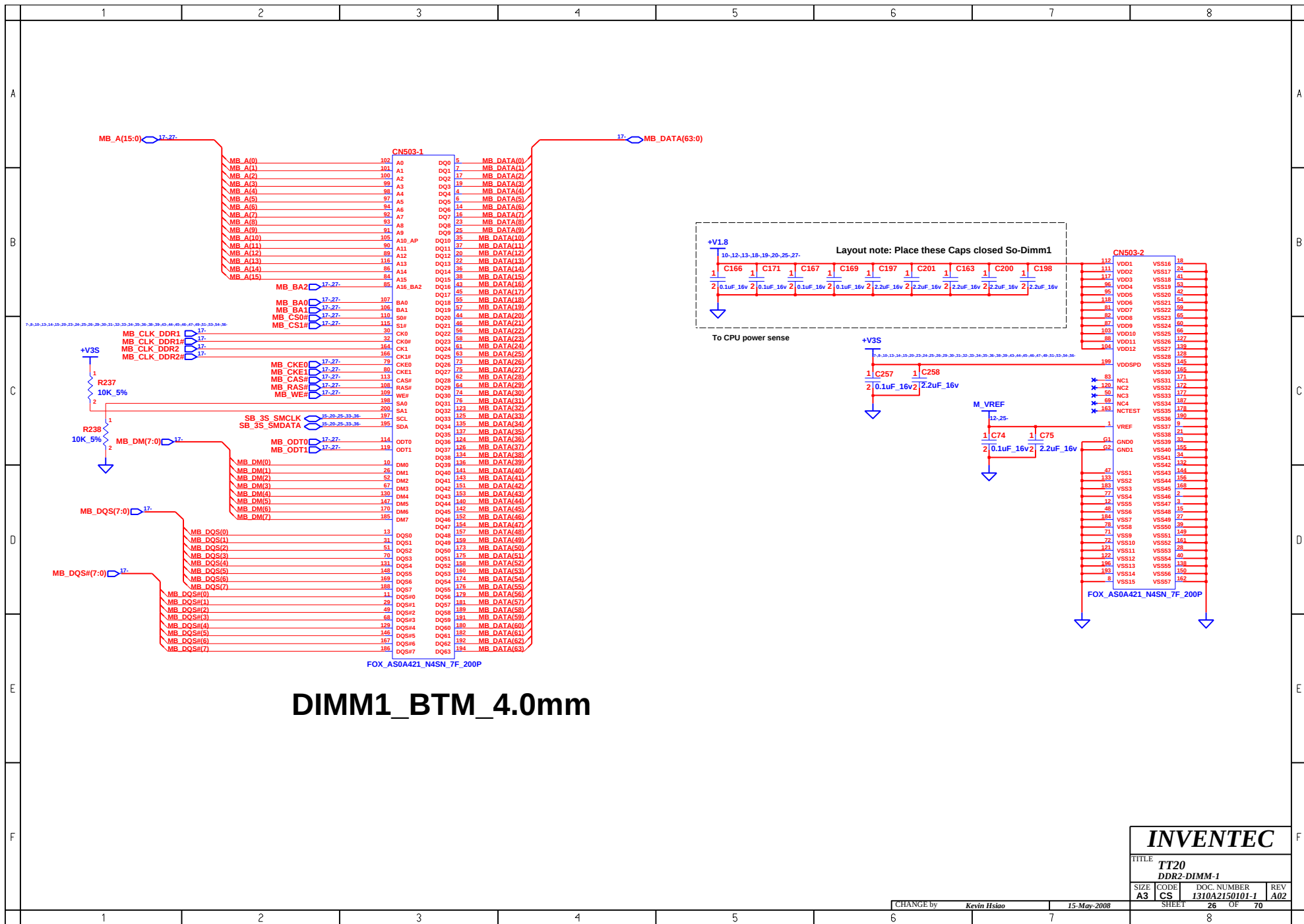


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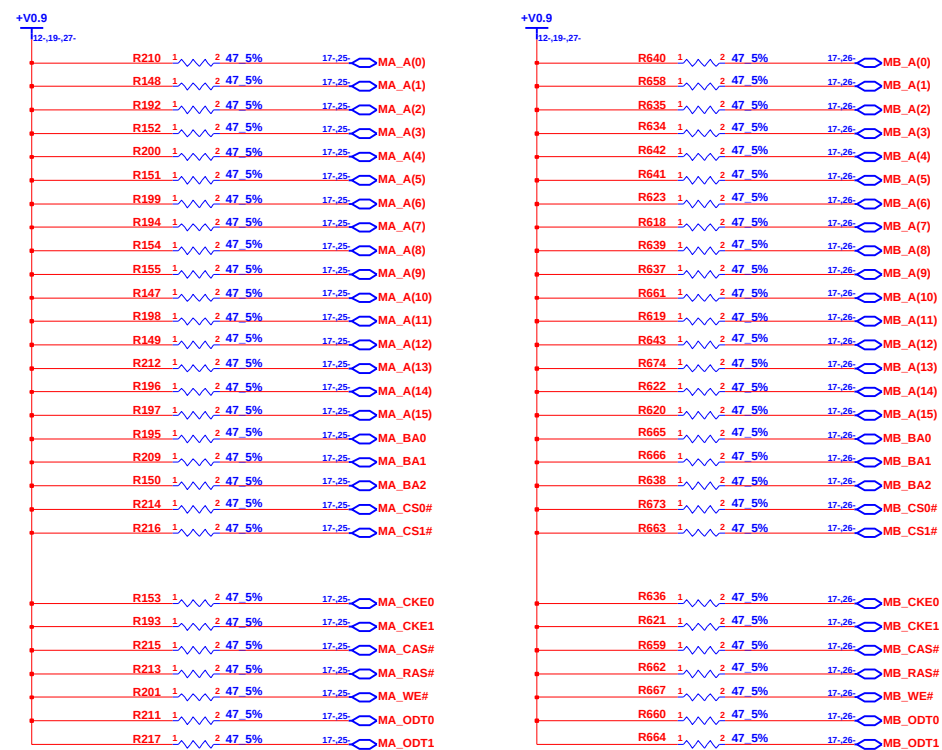
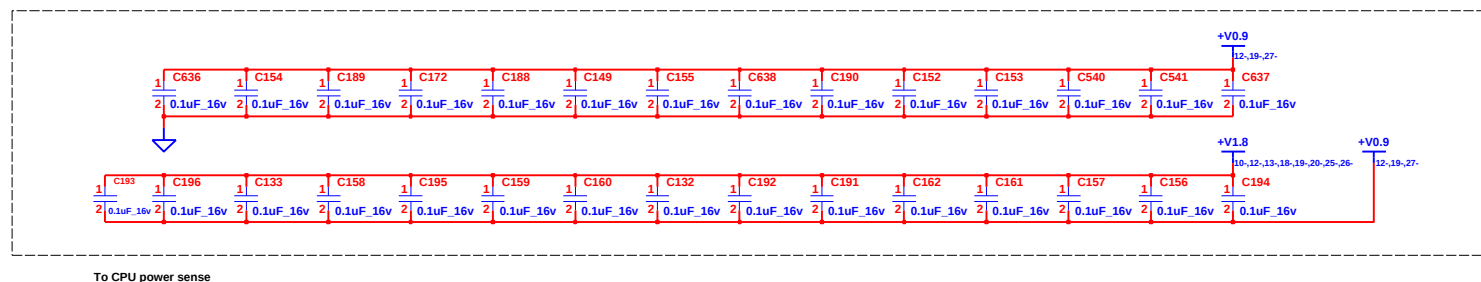
TITLE
TT20
DDR2-DIMM-0

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by	15-May-2008	SHEET	25	OF	70
Kevin Hsiao					



INVENTEC				
TITLE				
TT20				
DDR2-DIMM-1				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	I310A2150101-1	A02	
CHANGE by		Kevin Hsiao	15-May-2008	
SHEET		26	OF	70



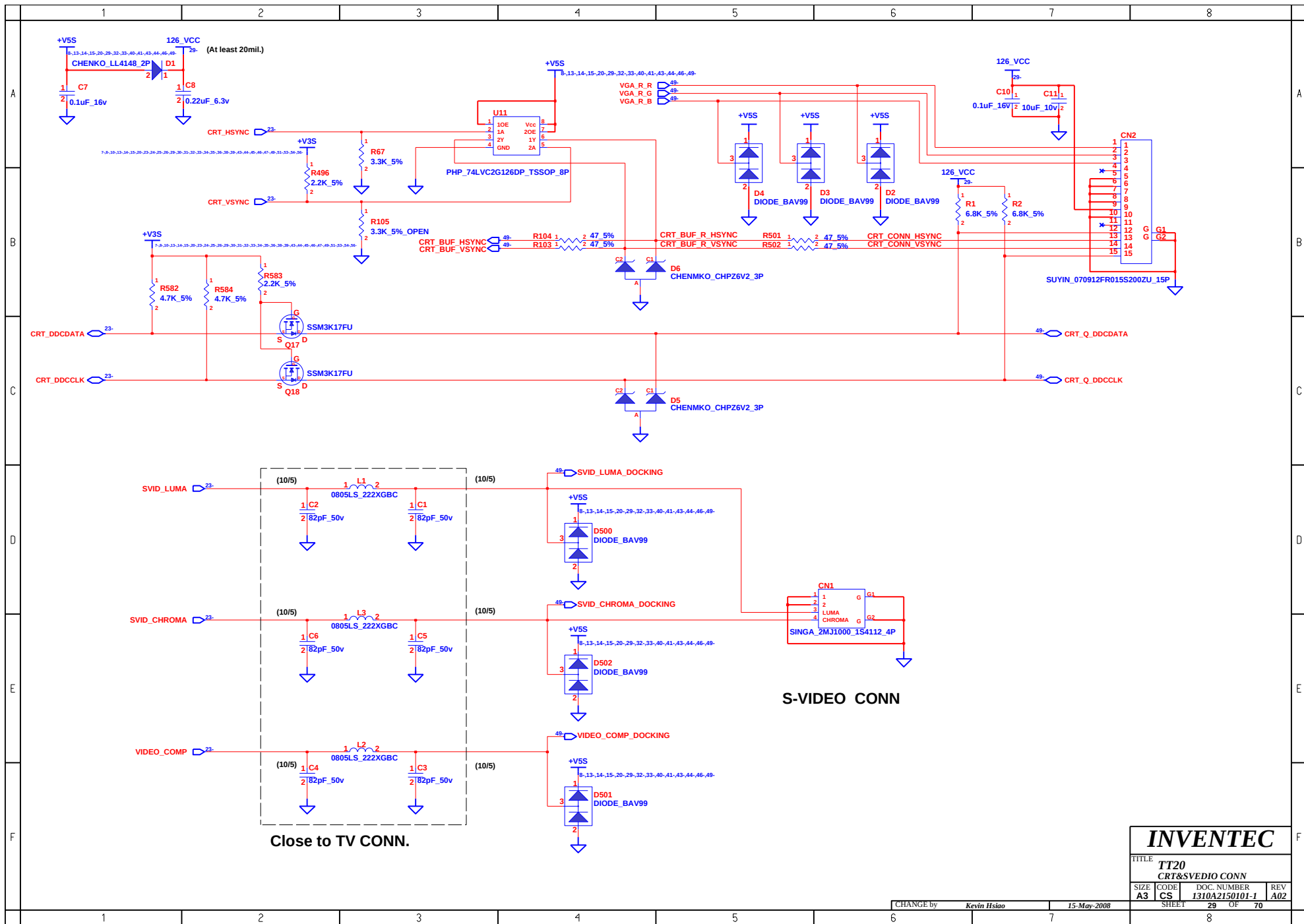
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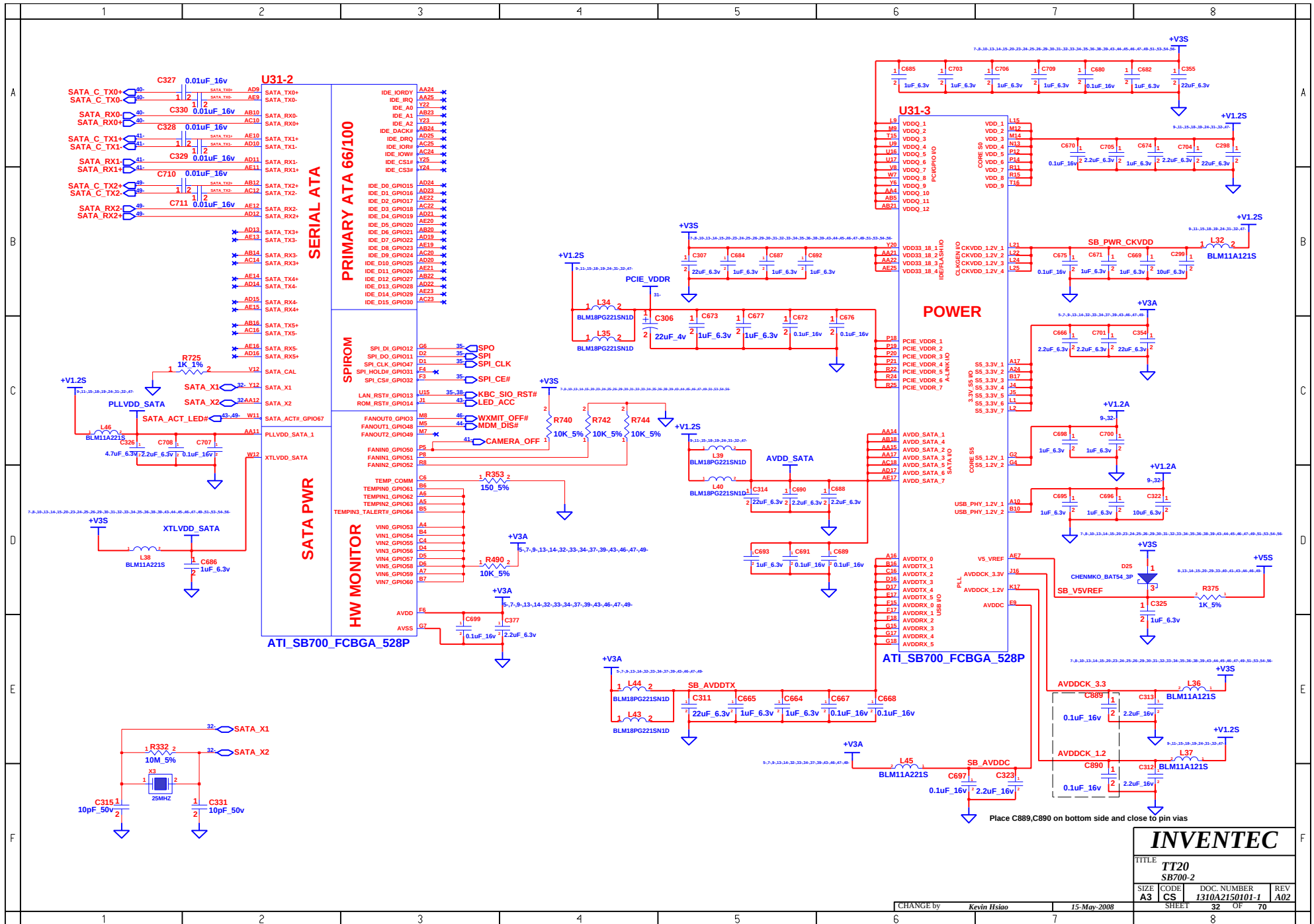
TITLE	<i>TT20</i> <i>DDR2-DAMPING</i>
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SIZE A3	CODE CS	DOC. NUMBER 1310A2150101-1	REV A02
SHEET 27 OF 70			

CHANGE by	Kevin Hsiao	15-May-2008
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CS 1310A2150101-1
SHEET 27 OF 70

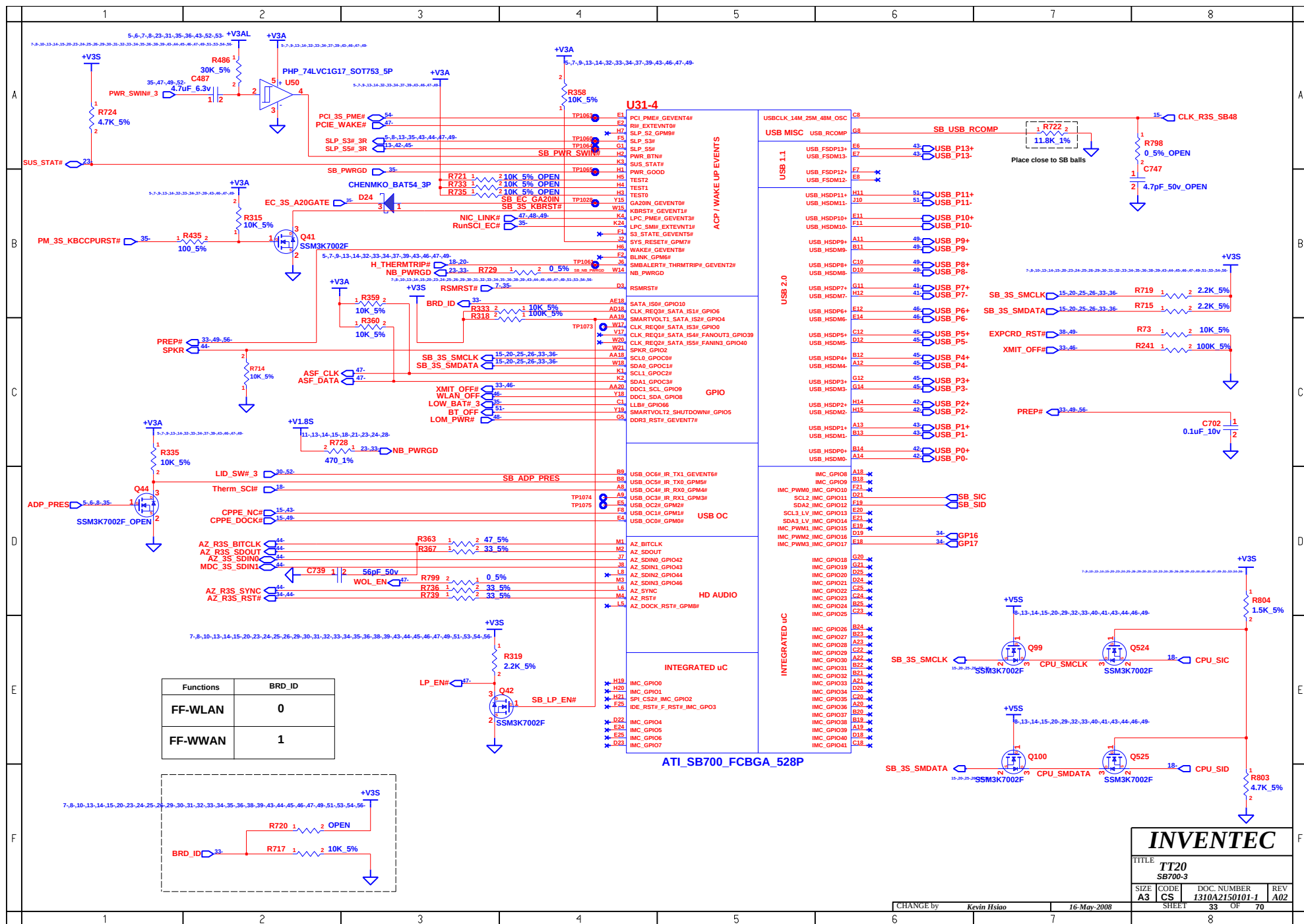


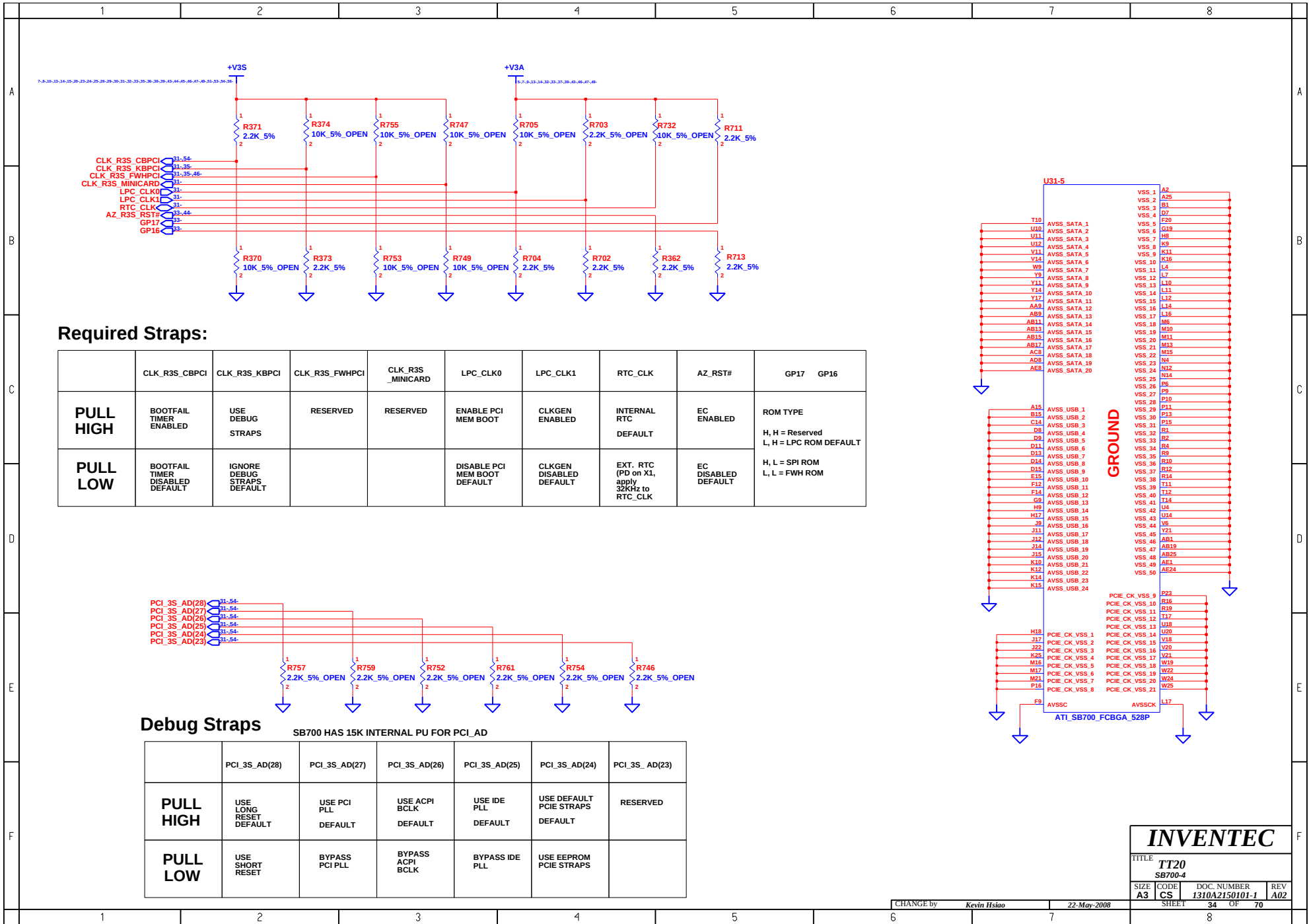


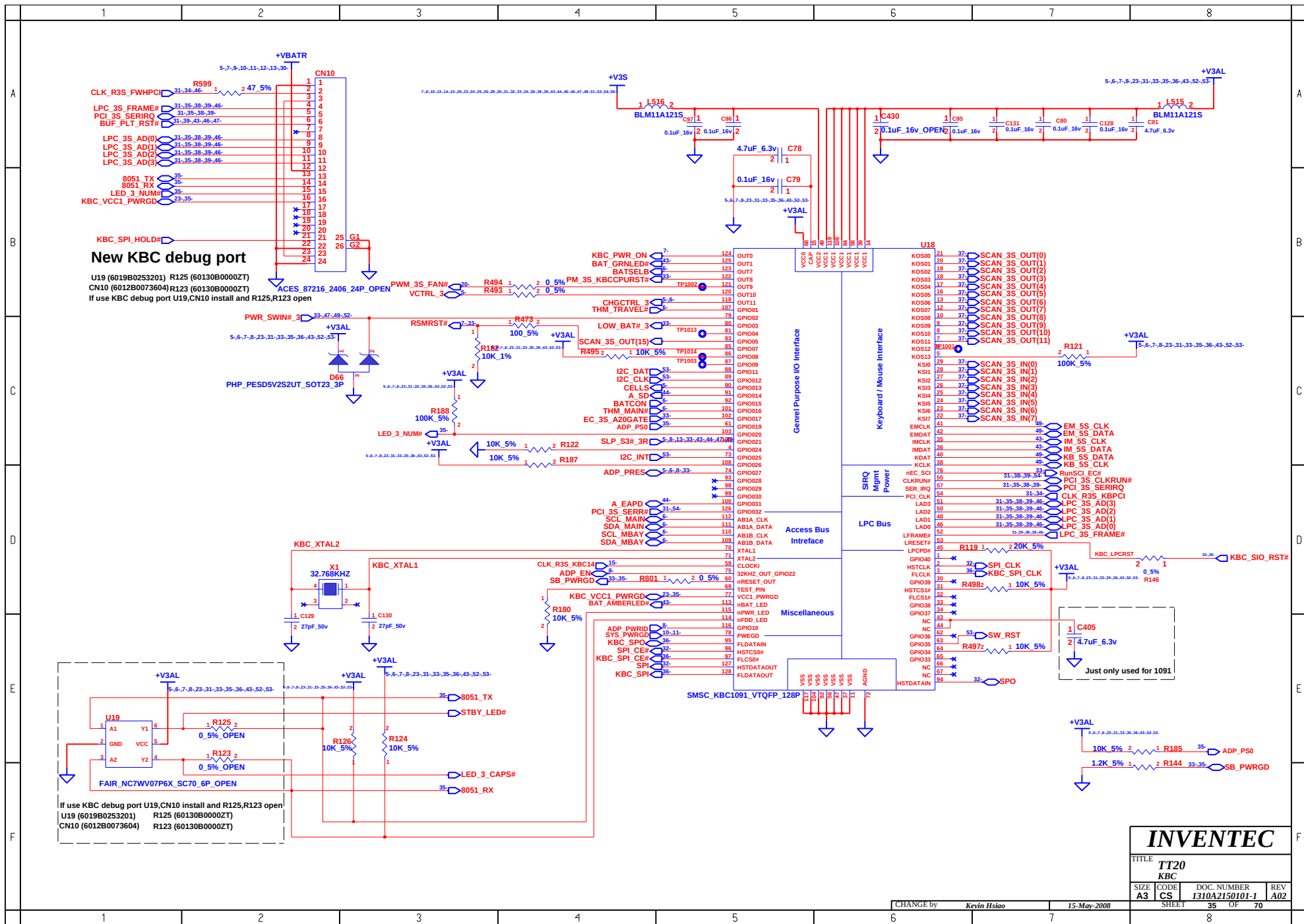
INVENTEC

TITLE TT20 SB700-2			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101-1	REV A02
SHEET 32		OF 70	

CHANGE by Kevin Hsiao 15-May-2008







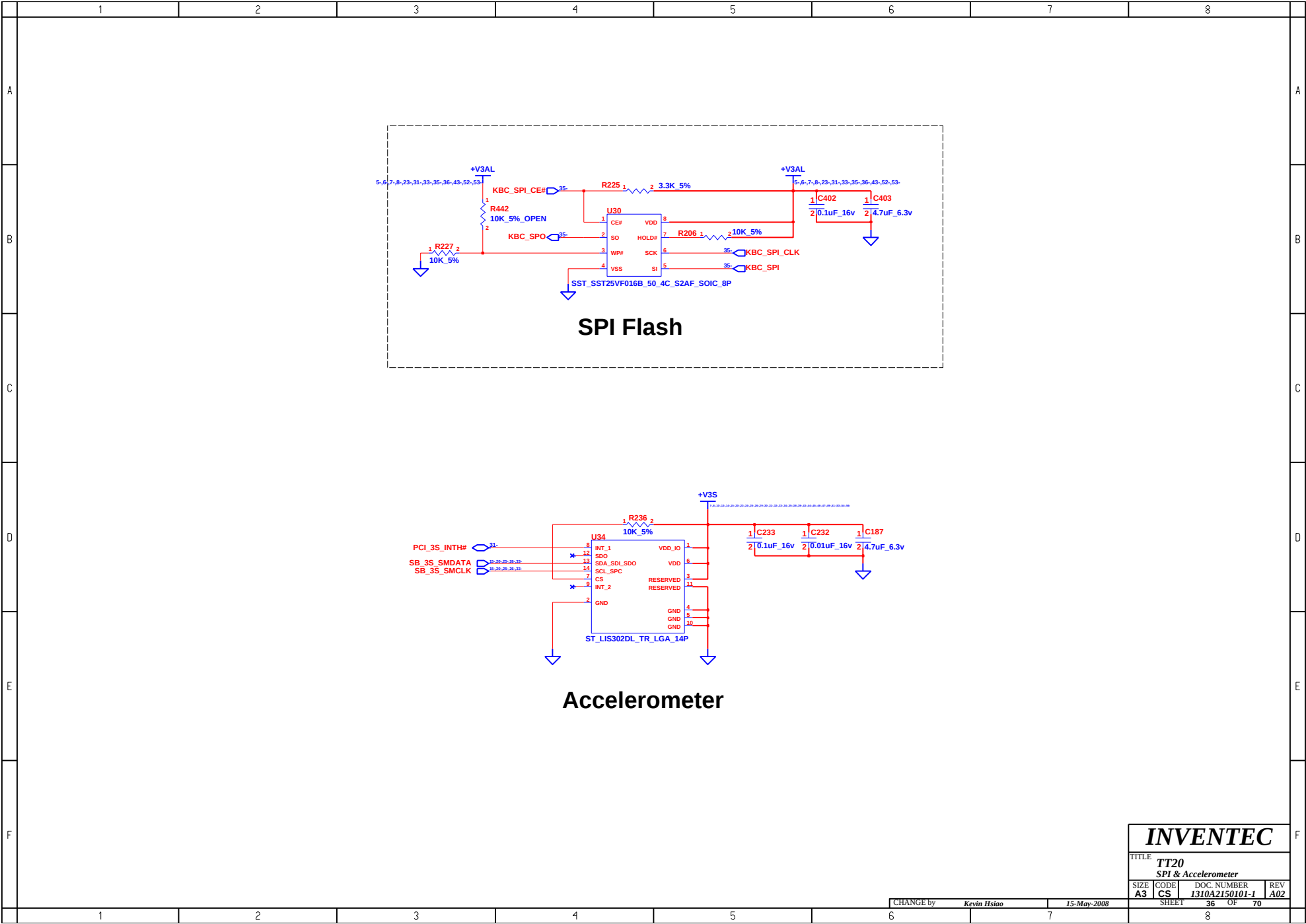
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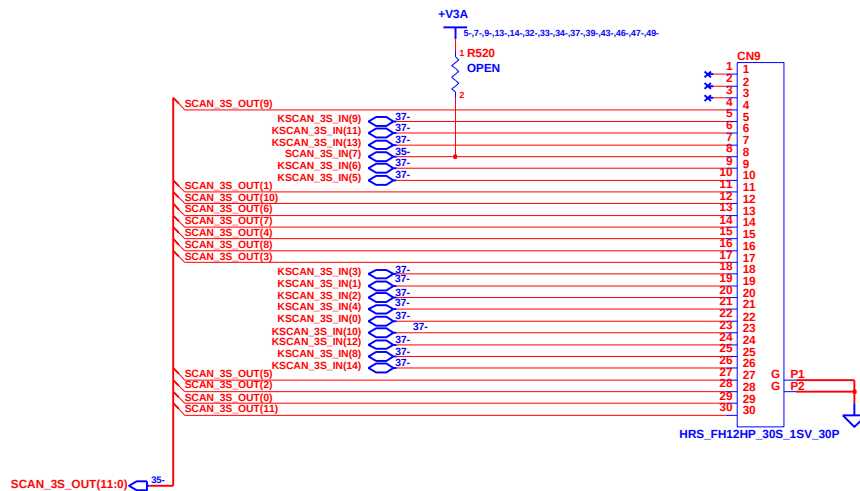
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SIZE	CODE	DOC. NUMBER	REV
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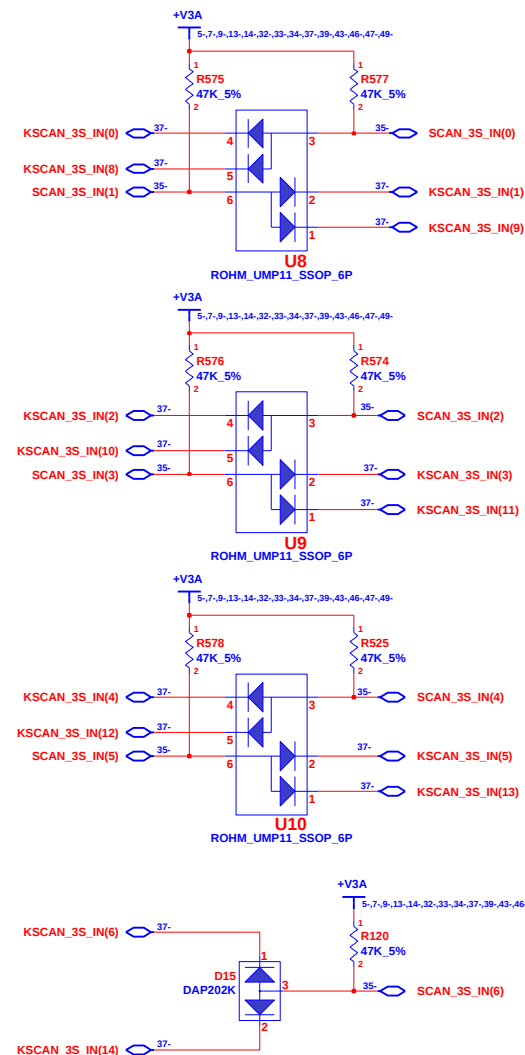
SHEET 35 OF 70

CHANGE by Kevin Hsiao 15-May-2008



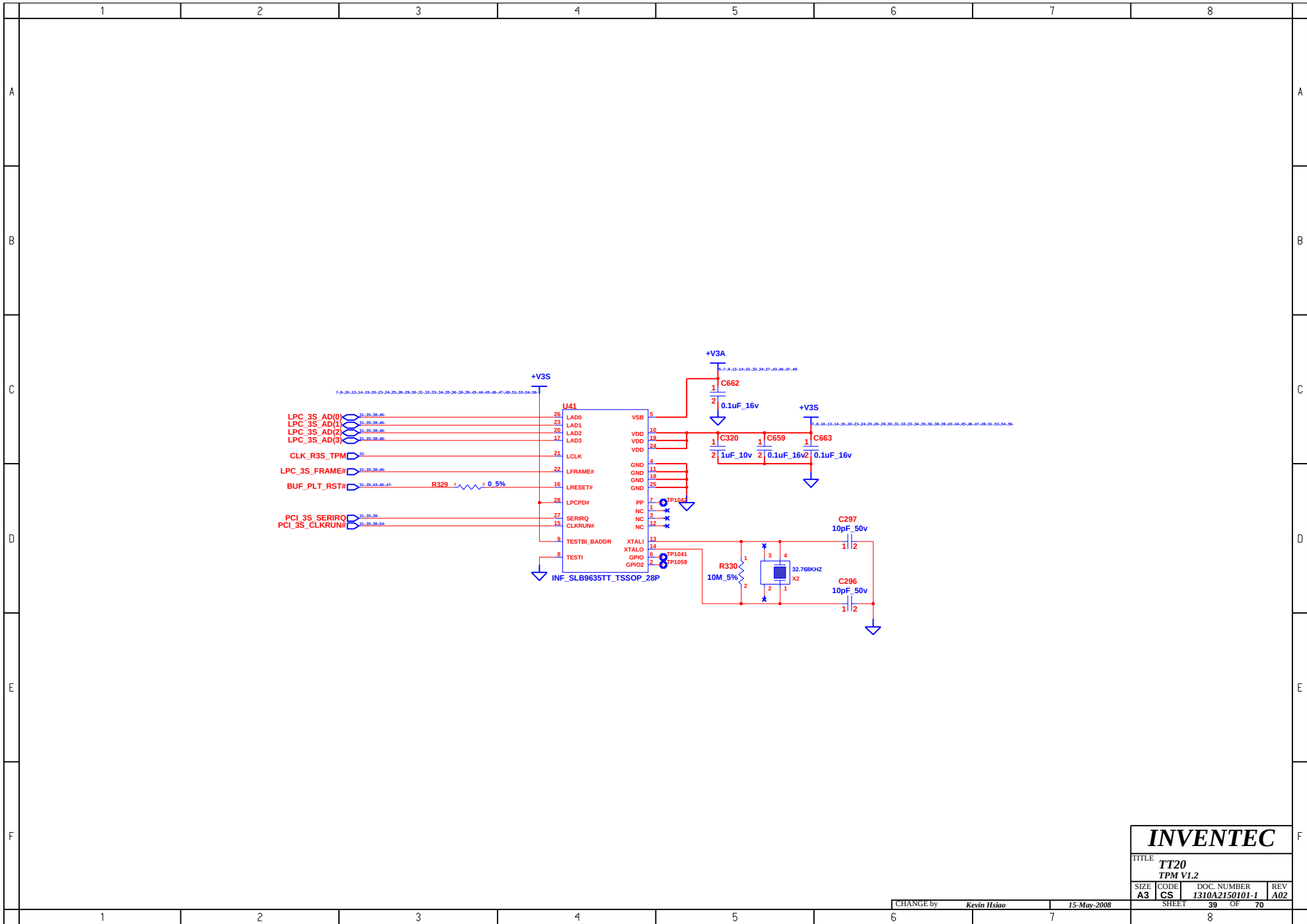


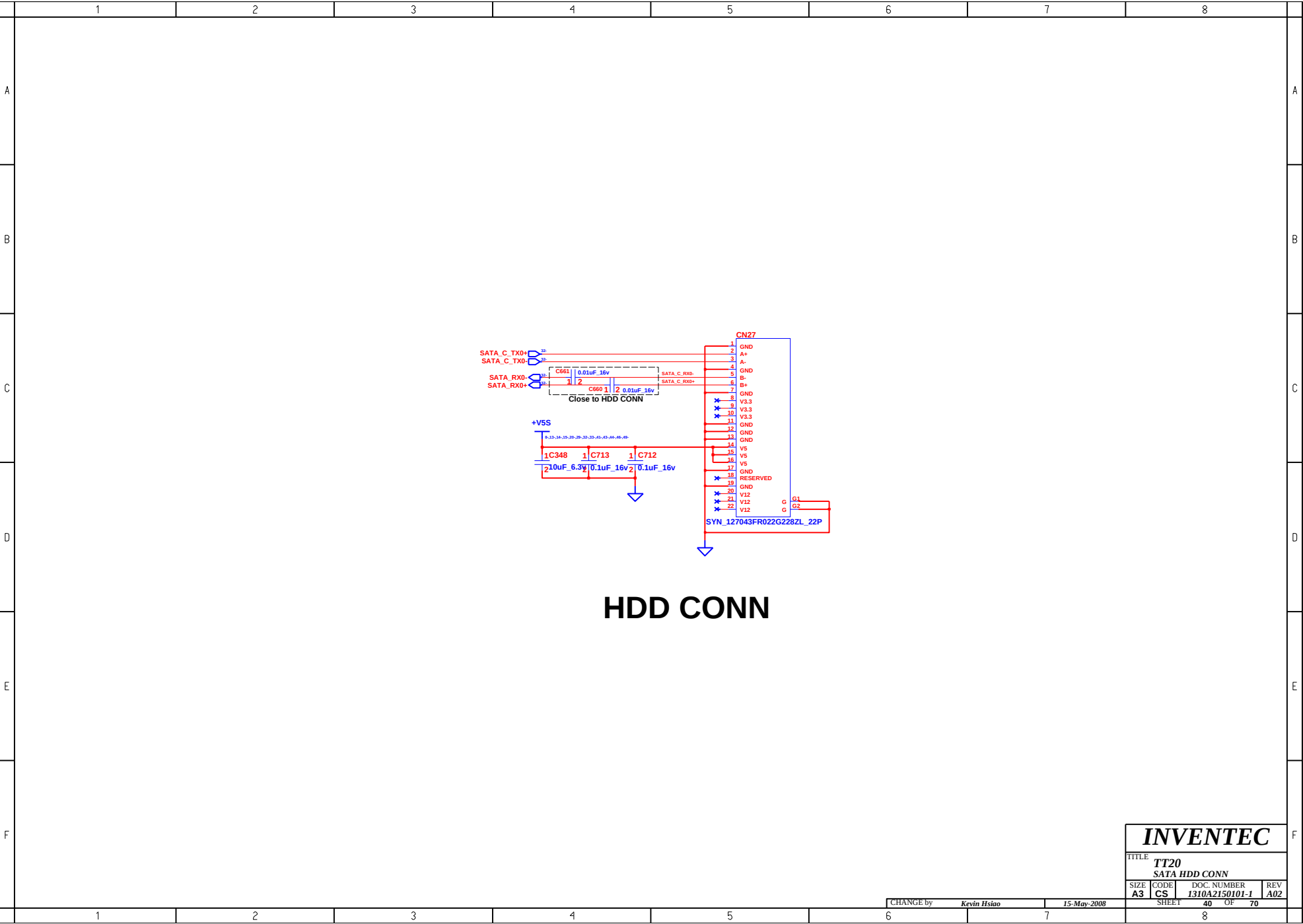
Keyboard CONN



INVENTEC

TITLE TT20 INT.KBC/POINT DEVICES			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101-1	REV A02
CHANGE by <i>Kevin Hsiao</i>		15-May-2008	
SHEET 37		OF 70	





INVENTEC

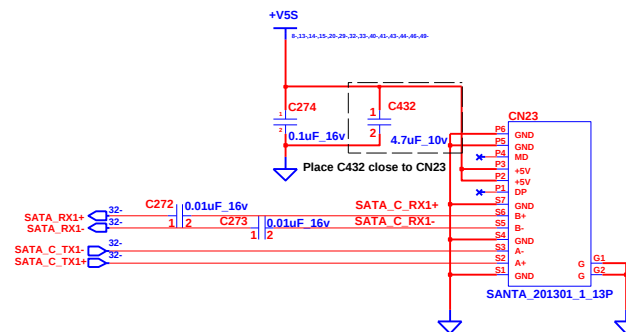
TITLE
TT20
SATA HDD CONN

SIZE CODE DOC. NUMBER REV

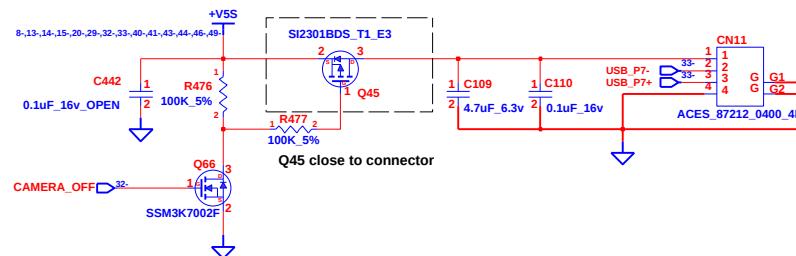
A3 CS 1310A2150101-1 A02

CHANGE by Kevin Hsiao 15-May-2008

SHEET 40 OF 70

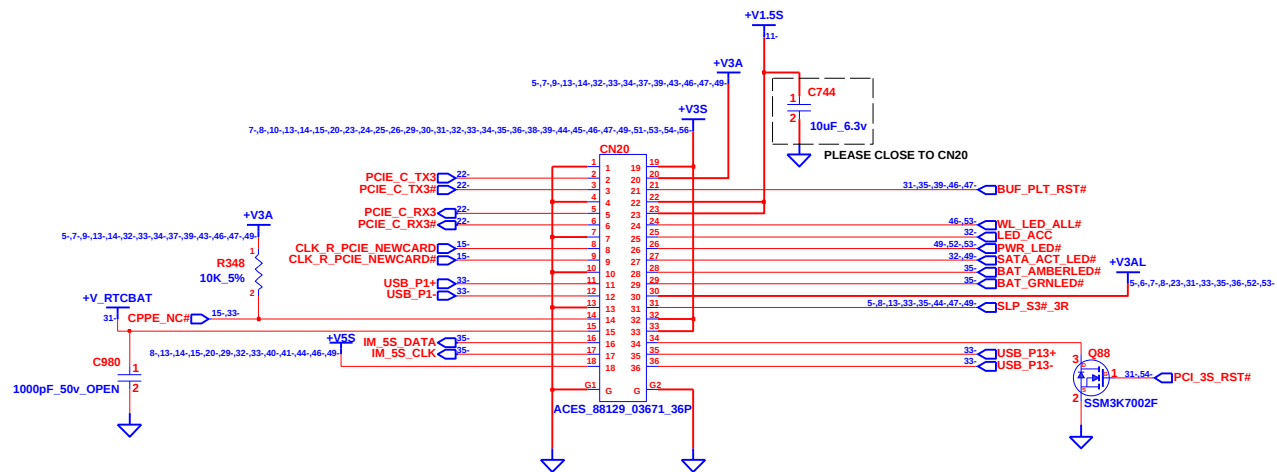


ODD SATA CONNECTOR



USB WEBCAM CONNECTOR

INVENTEC			
TITLE TT20 SATA ODD & USB WEBCAM			
SIZE A3	CODE CS	DOC. NUMBER I310AZ150101-1	REV A02
CHANGE by Kevin Hsiao		15-May-2008	
SHEET 41		OF 70	



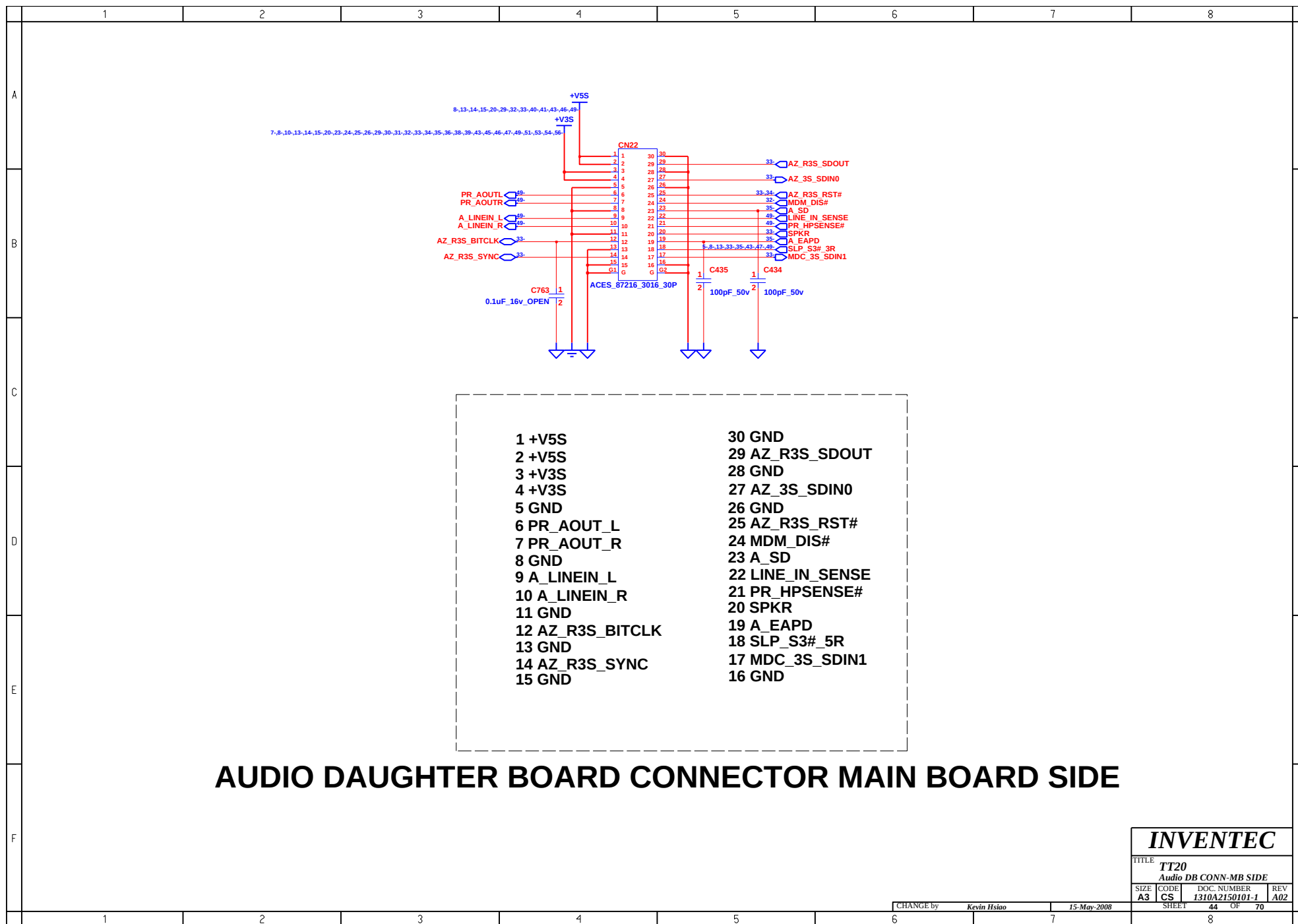
1 GND	19 +V3S
2 PCIE_C_TXP	20 +V3A
3 PCIE_C_TXN	21 PLT_RST#
4 GND	22 +V1.5S
5 PCIE_C_RXP	23 +V1.5S
6 PCIE_C_RXN	24 WL_LED_ALL#
7 GND	25 ACC_LED#
8 CLK_R_PCIE_NEWCARD	26 STBY_LED#
9 CLK_R_PCIE_NEWCARD#	27 LED_3S_SATA#
10 GND	28 BAT_AMBER_LED#
11 USB_P+	29 BAT_GRN_LED#
12 USB_P-	30 +V3AL
13 GND	31 SLP_S3#_3R
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-

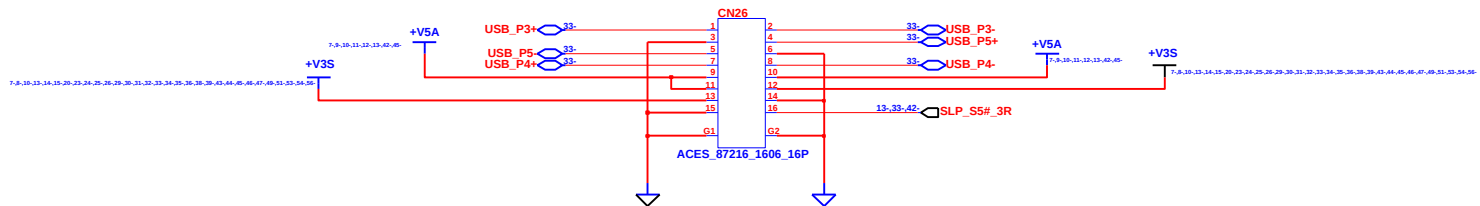
EXPRESSCARD DAUGHTER BOARD CONNECTOR MAIN SIDE

INVENTEC

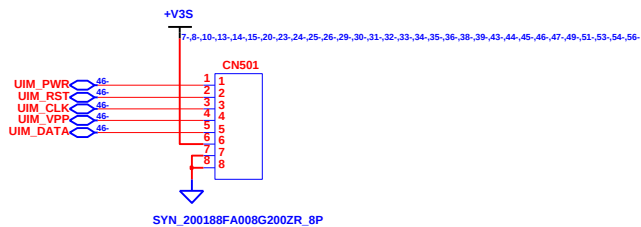
TITLE			
TT20			
Express DB CONN-MB SIDE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02
SHEET		43	OF 70

CHANGE by Kevin Hsiao 15-May-2008





7 IN 1 daughter board connector MB SIDE



SIM card daughter board connector MB SIDE

INVENTEC			
TITLE			
TT20 7 IN 1 & SIM DB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02
CHANGE by		SHEET	
Kevin Hsiao		45 OF 70	
15-May-2008		8	

MINICARD CONN 1 BOTTOM (WLAN)

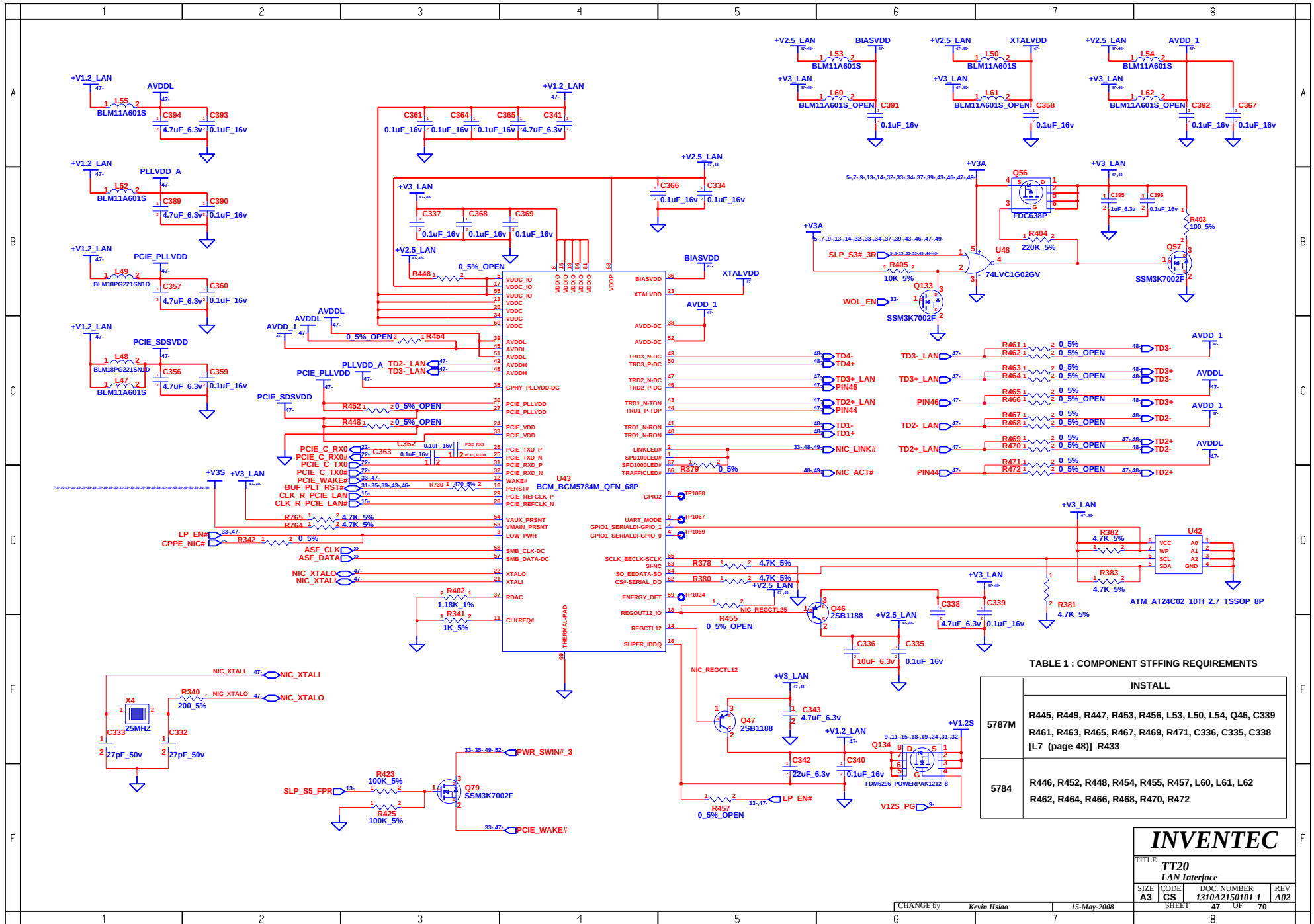
MINICARD CONN2 TOP TOP (WWAN)

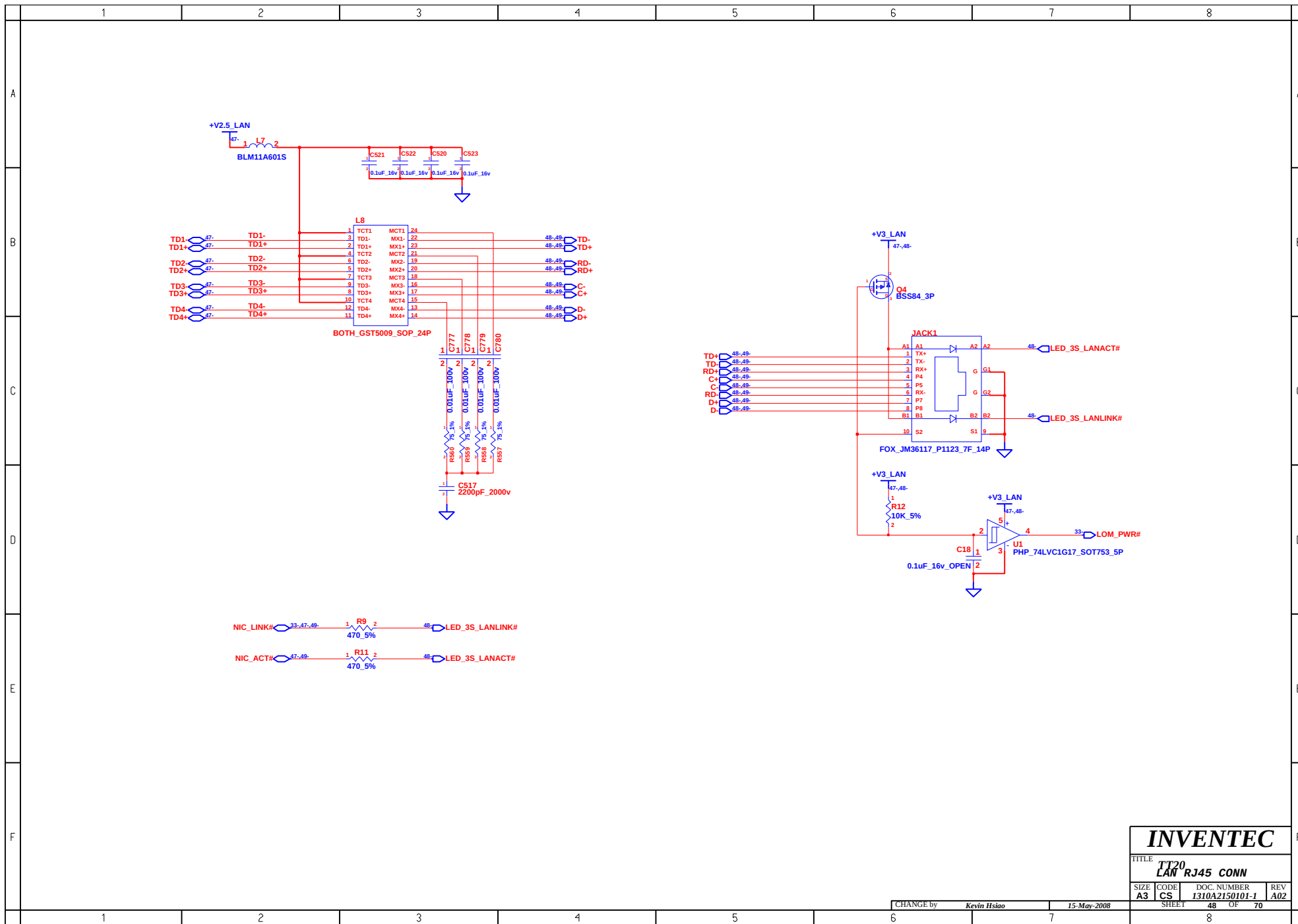
Wireless_Bluetooth LED

INVENTEC

TITLE			
TT20			
MINICARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02
SHEET		46	OF 70

CHANGE by Kevin Hsiao 15-May-2008





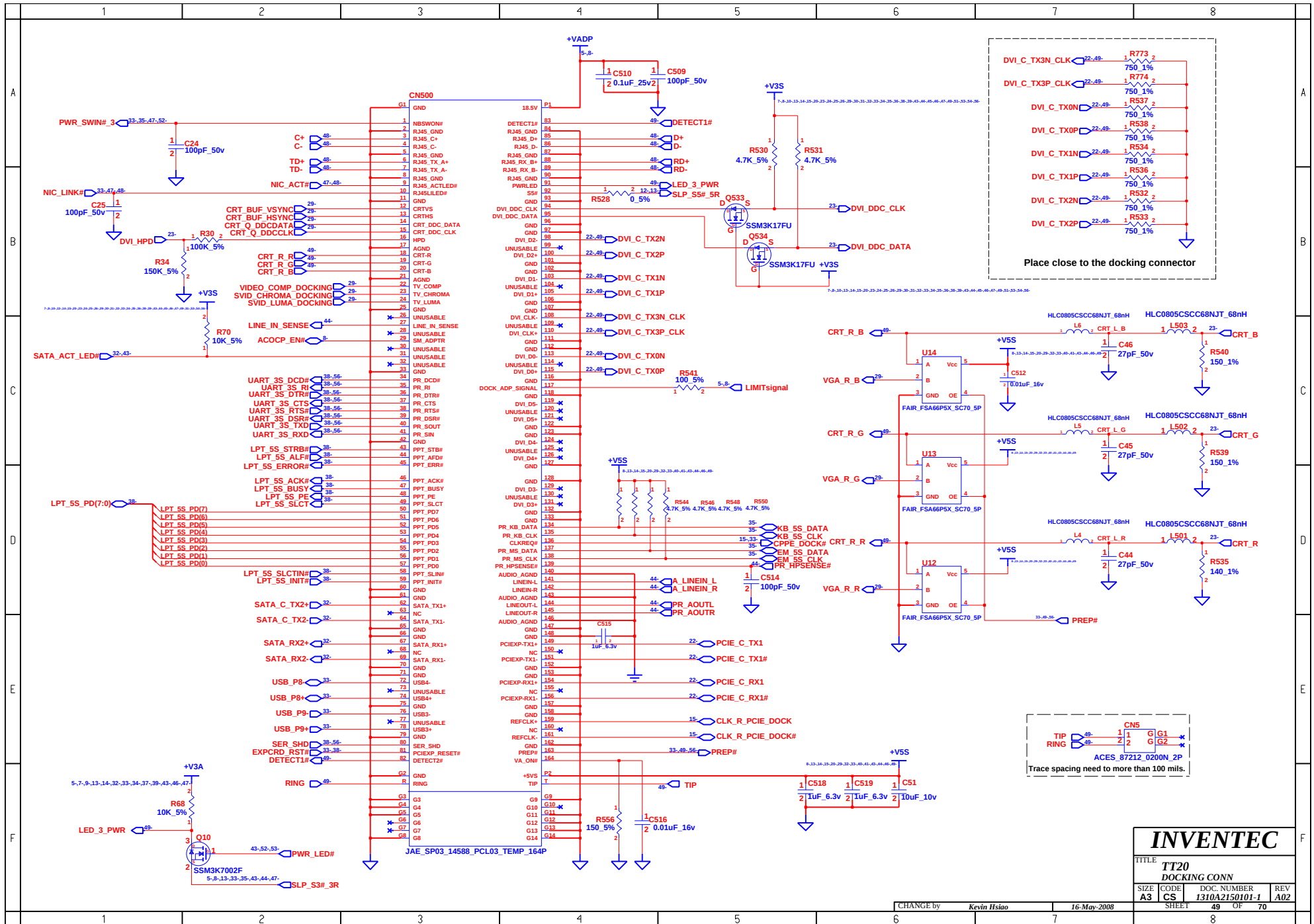
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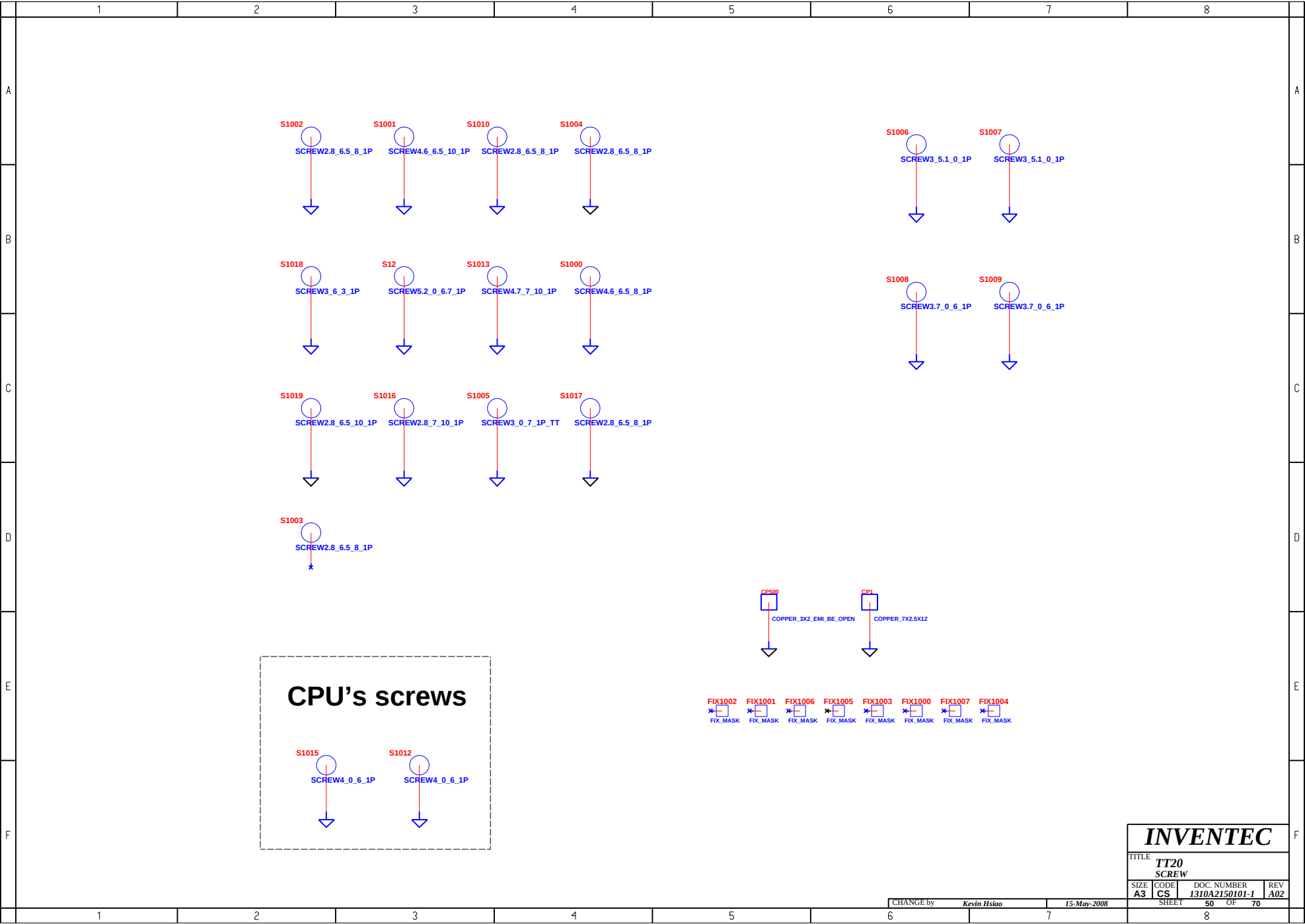
TIT20
LAN RJ45 CONN

SIZE A3	CODE CS	DOC. NUMBER I310A2150101-1	REV A02
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CHANGE by Kevin Hsiao 15-May-2008

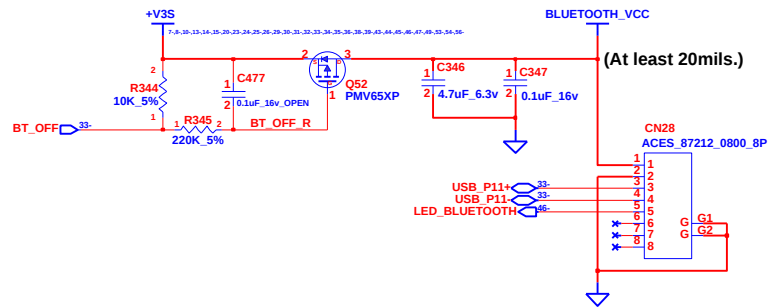
SHEET 48 OF 70



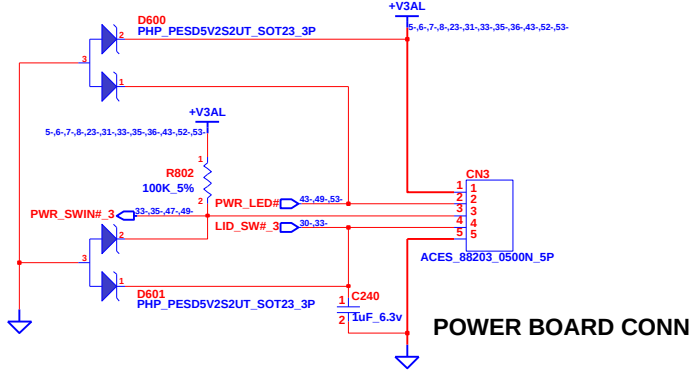


INVENTEC			
TITLE TT20 SCREW			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101-1	REV A02
SHEET		50	OF 70

CHANGE by Kevin Hsiao 15-May-2008



INVENTEC			
TITLE			
TT20			
BLUETOOTH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02
CHANGE by		SHEET	
Kevin Hsiao		51 OF 70	
15-May-2008		8	



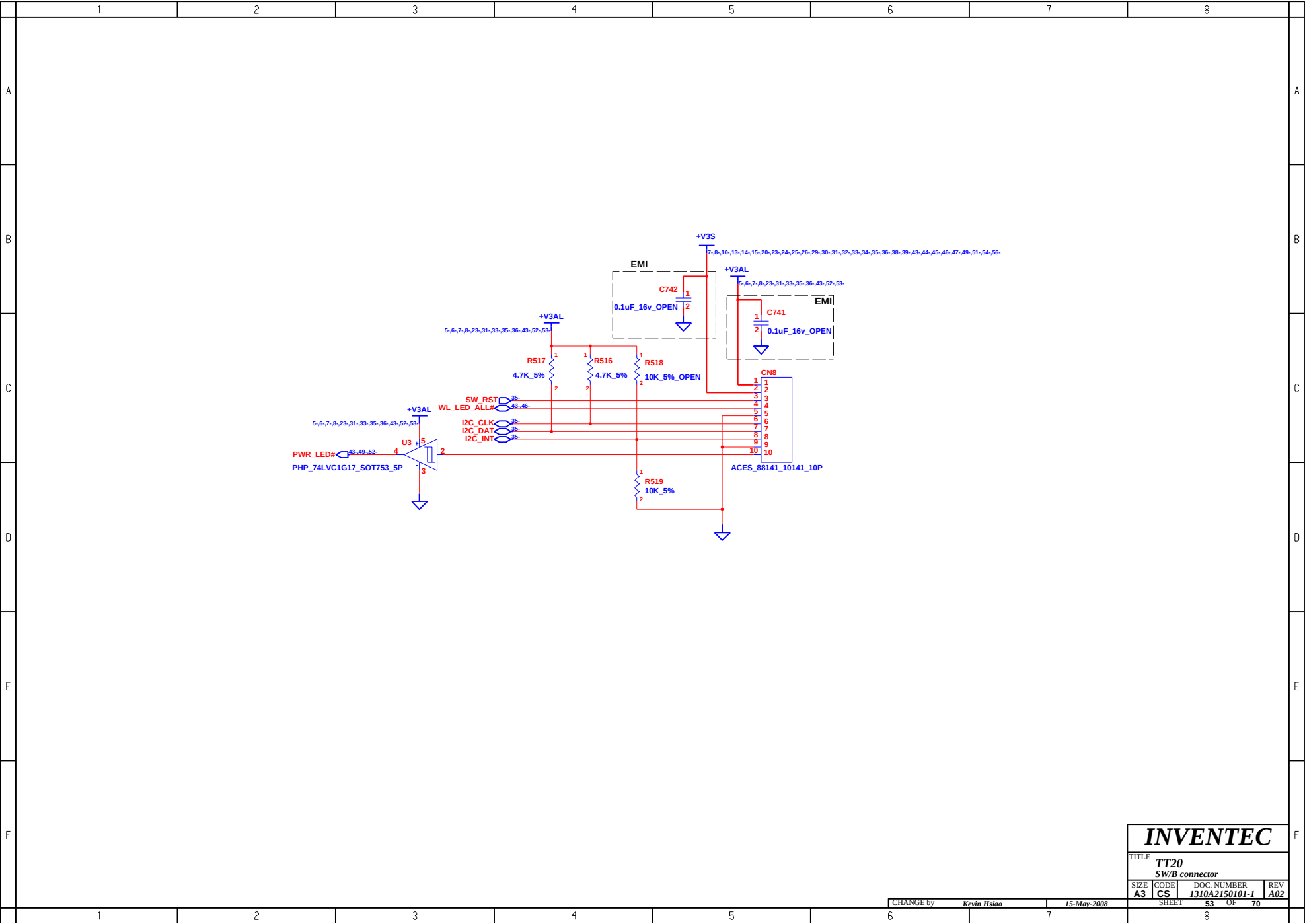
C240, D600 & D601 are using for ESD solution

INVENTEC

TITLE			
TT20			
LED/POWER SWITCH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

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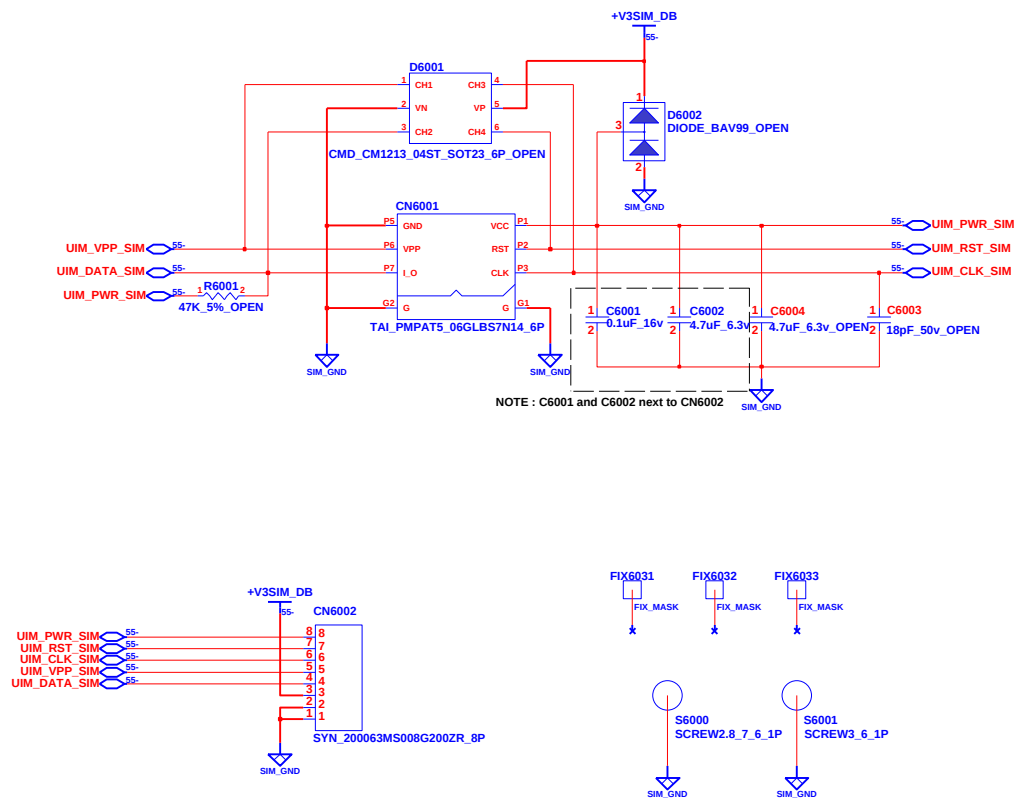
INVENTEC

TITLE			
TT20			
SW/B connector			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

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SIM CARD Daughter Board



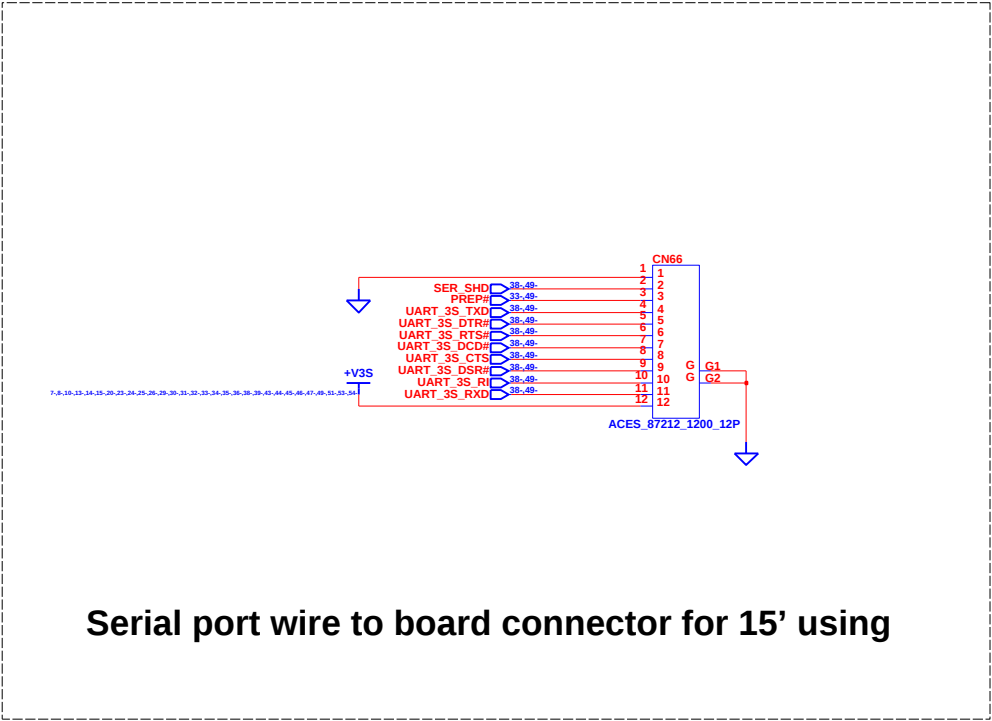
INVENTEC

TITLE			
TT20			
SIM CARD Daughter Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	



INVENTEC

TITLE TT20 BLANK			
SIZE A3	CODE CS	DOC. NUMBER I310AZ150101-1	REV A02
SHEET 56		OF 70	

CHANGE by **Kevin Hsiao** **15-May-2008**

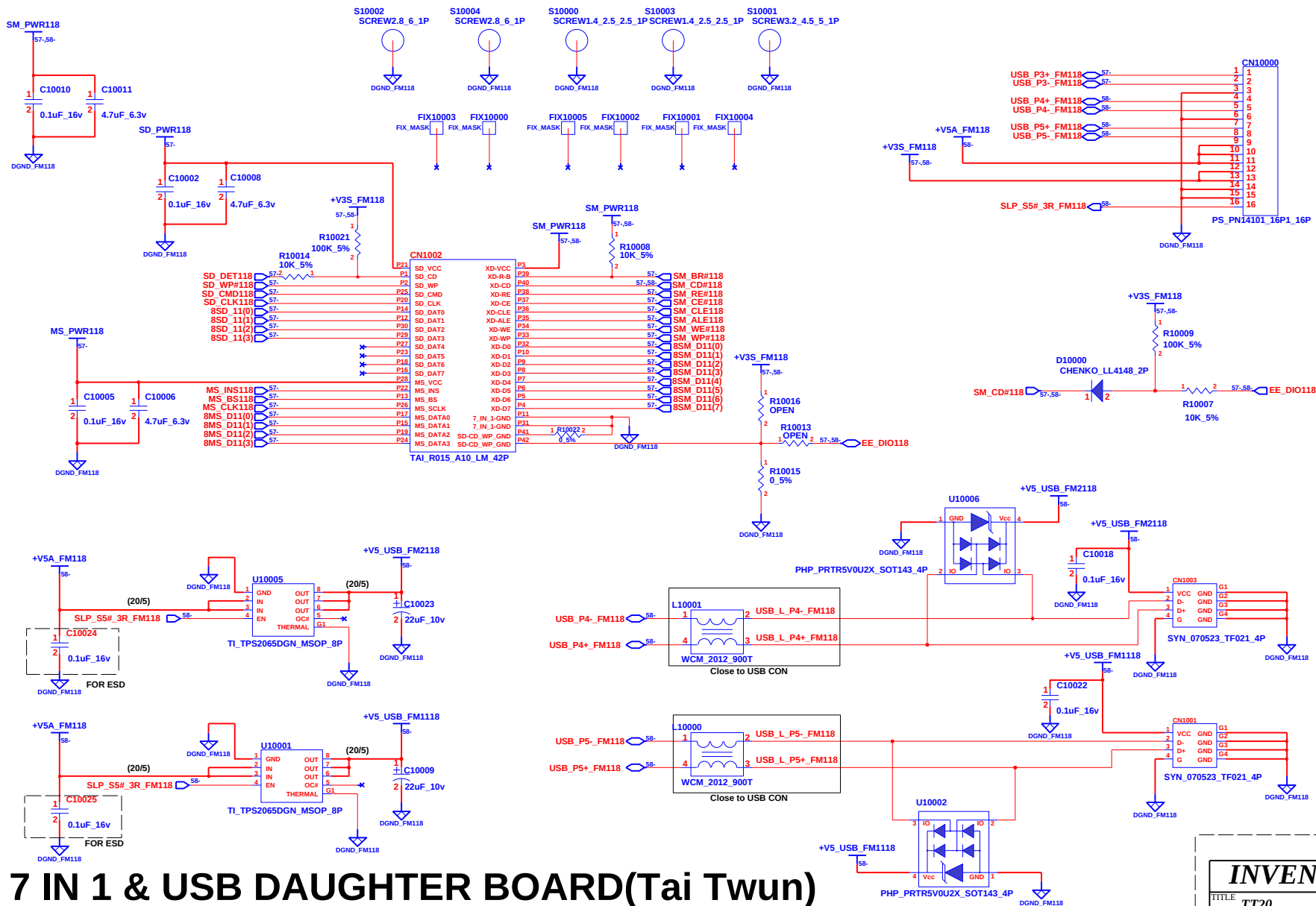
7 IN 1 & USB DAUGHTER BOARD(Tai Twun)

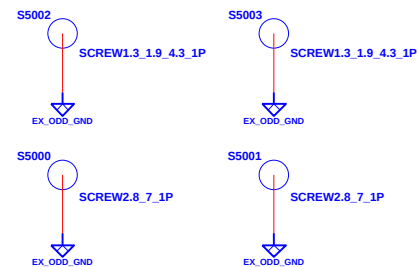
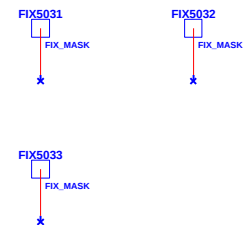
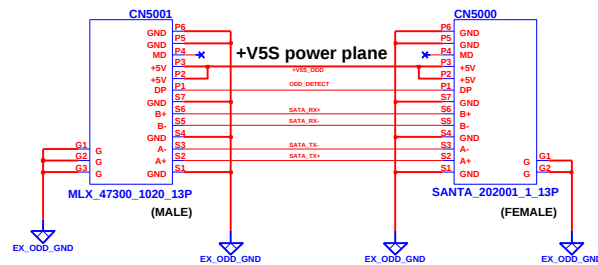
INVENTEC

TITLE			
TT20			
7 IN 1 & USB Daughter Board (TT)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

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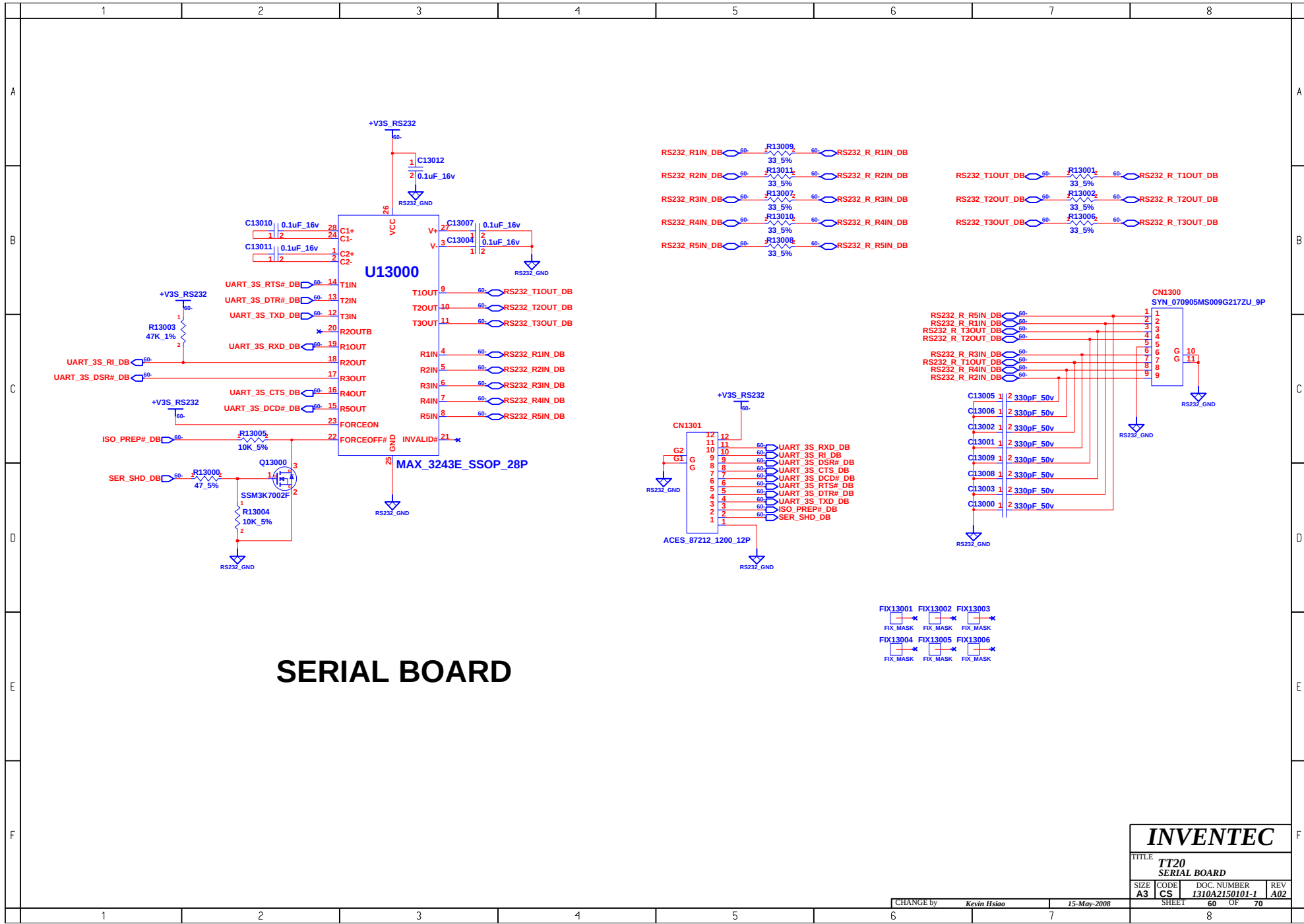




15" only

ODD Extension Board

INVENTEC			
TITLE TT20			
ODD Extension Board			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101-1	REV A02
CHANGE by Kevin Hsiao		15-May-2008	
SHEET 59		OF 70	



SERIAL BOARD

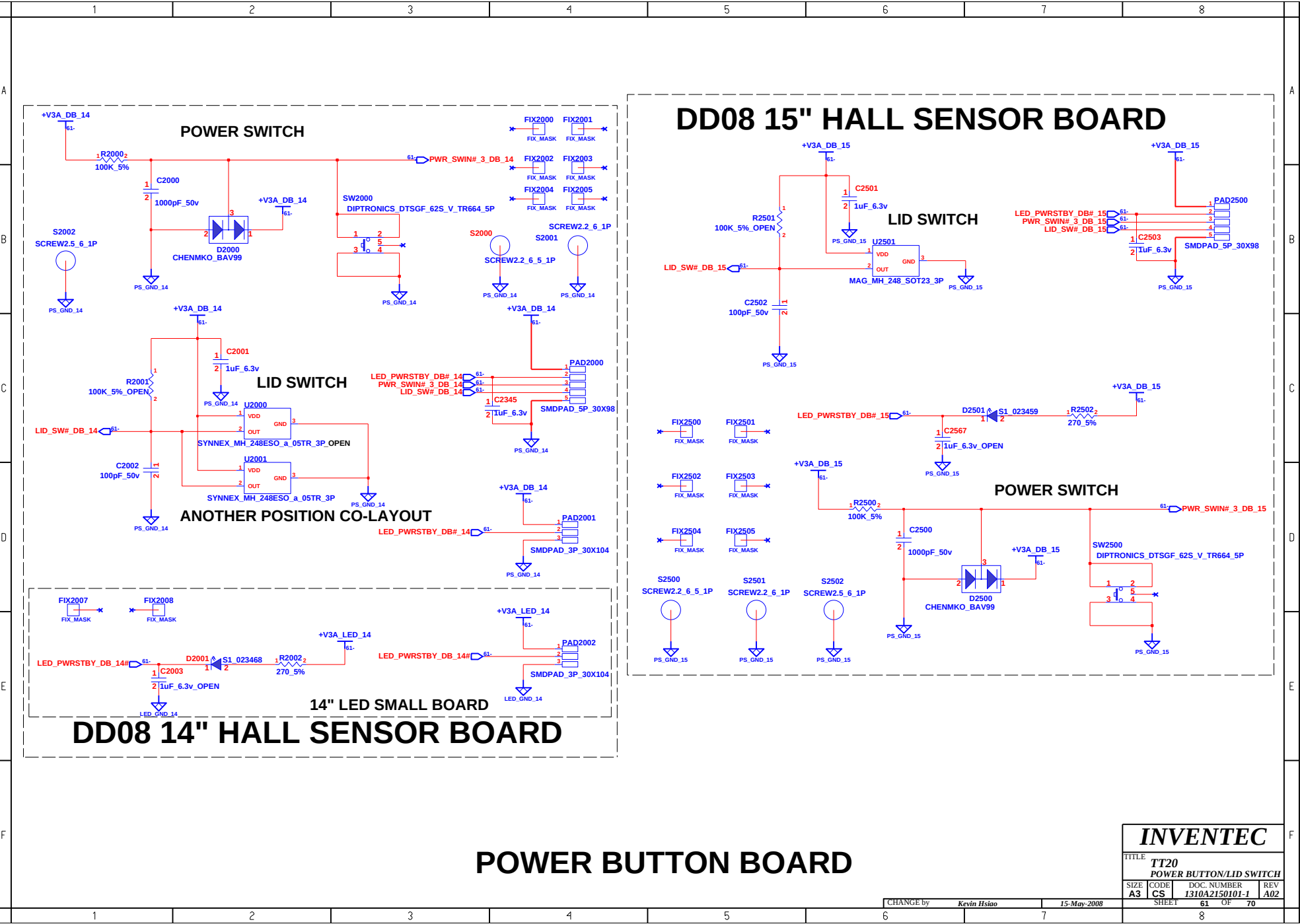
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FIX_MASK	FIX_MASK	FIX_MASK
FIX13004	FIX13005	FIX13006
FIX_MASK	FIX_MASK	FIX_MASK

INVENTEC

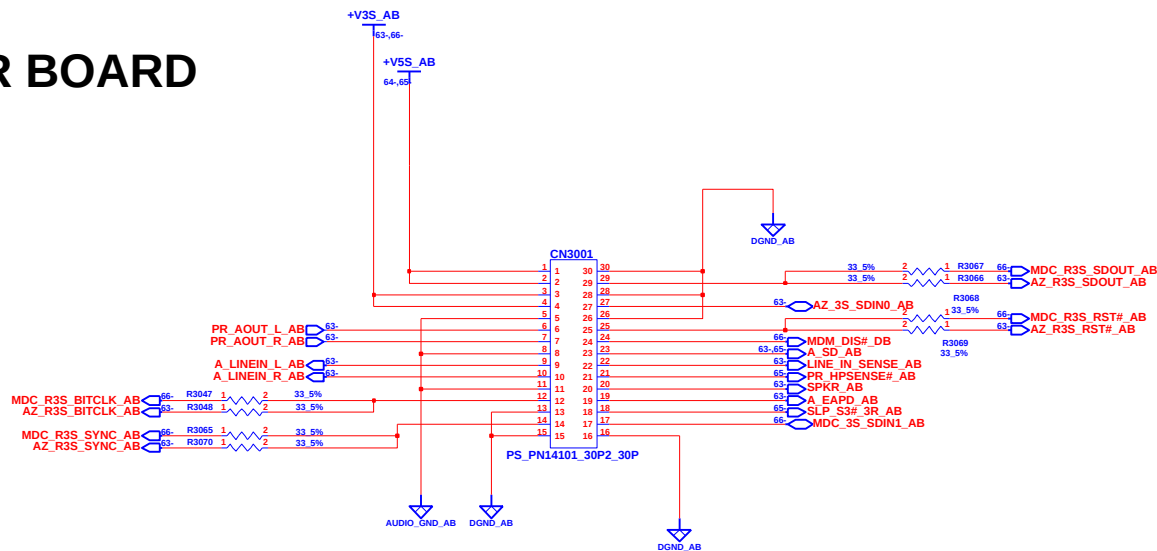
TITLE			
TT20 SERIAL BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

SHEET 60 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 TT20 AUDIO CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER I310AZ150101-1	REV A02
CHANGE by Kevin Hsiao		15-May-2008	
SHEET 62		OF 70	

AUDIO DAUGHTER BOARD

TITLE			
<i>TT20</i> <i>AUDIO DAUGHTER BOARD</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101-1	A02
SHEET		63	OF 70

CHANGE by	<i>Kevin Hsiao</i>	<i>15-May-2008</i>
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AUDIO DAUGHTER BOARD

MIC Jack

Earphone Jack

EXT. MIC

INT. MIC

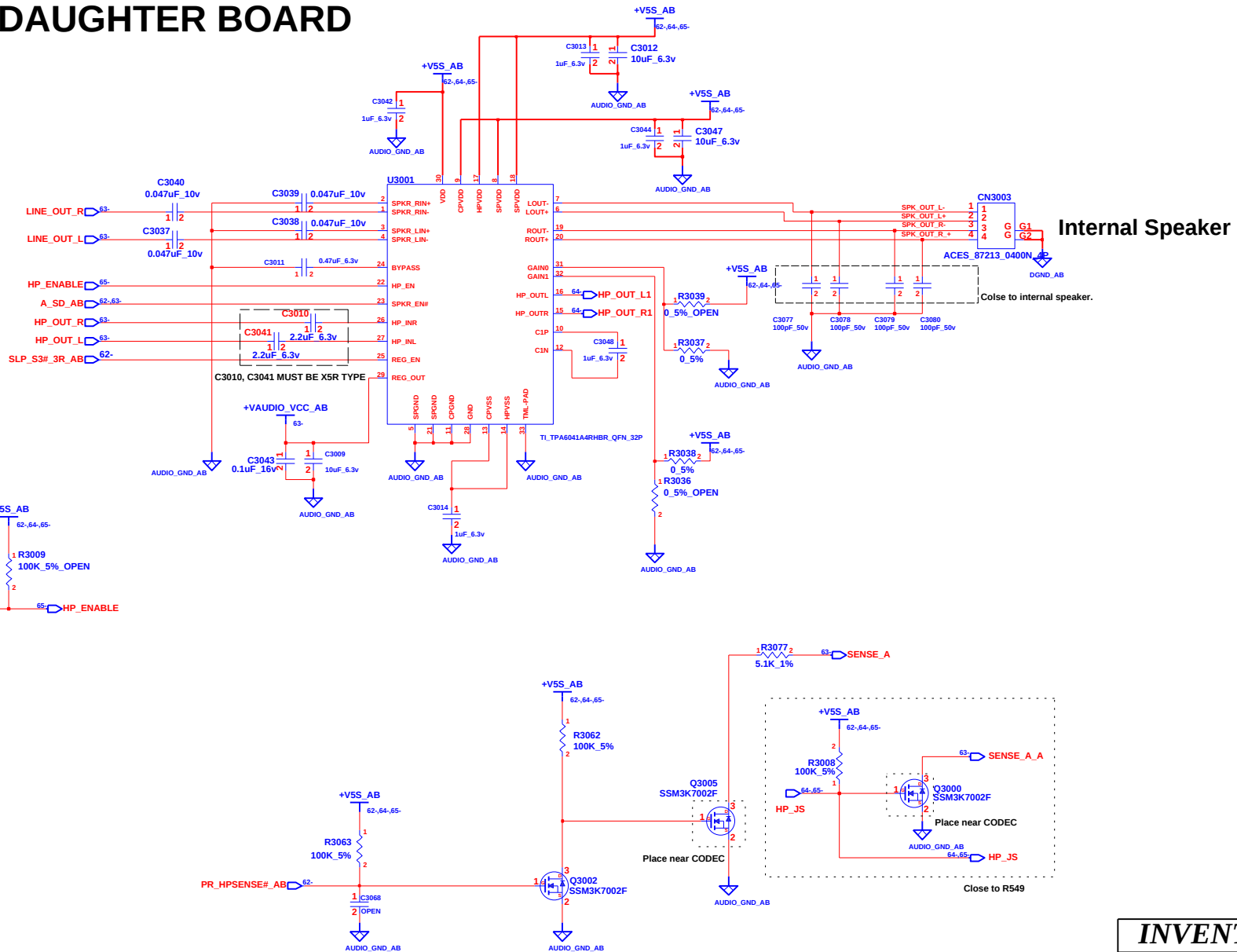
Component Callouts:

- MIC_BIAS_B**: 3.9K_5%
- R3019**: 3.9K_5%
- R3020**: 3.9K_5%
- R3021**: 0.47uF_6.3v
- R3022**: 0.5%
- R3023**: 10K_5%
- R3024**: 10K_5%
- R3025**: 10K_5%
- R3026**: 10K_5%
- R3027**: 10K_5%
- R3028**: 68pF_50v
- R3029**: 10K_5%
- R3030**: 0.5%_OPEN
- R3031**: 0.5%
- R3032**: 47K_5%
- R3033**: 47K_5%
- R3034**: 47K_5%
- R3035**: 47K_5%
- R3036**: 150K_1%
- R3037**: 150K_1%
- R3038**: 150K_1%
- R3039**: 150K_1%
- R3040**: 150K_1%
- R3041**: 47K_5%
- R3042**: 10K_5%
- R3043**: 10K_5%
- R3044**: 10K_5%
- R3045**: 10K_5%
- R3046**: 10K_5%
- R3047**: 10K_5%
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- R3199**: 10K_5%
- R3200**: 10K_5%
- R3201**: 10K_5%
- R3202**: 10K_5%
- R3203**: 10K_5%
- R3204**: 10K_5%
- R3205**:

TITLE			
<i>TT20</i> EARPHONE & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2150101-1	A02
SHEET		64	OF 70

CHANGE by	<i>Kevin Hsiao</i>	<i>15-May-2008</i>
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AUDIO DAUGHTER BOARD



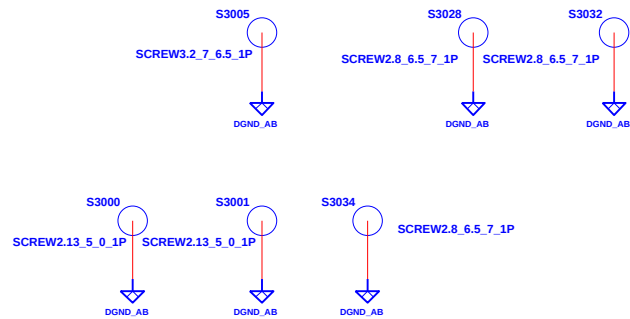
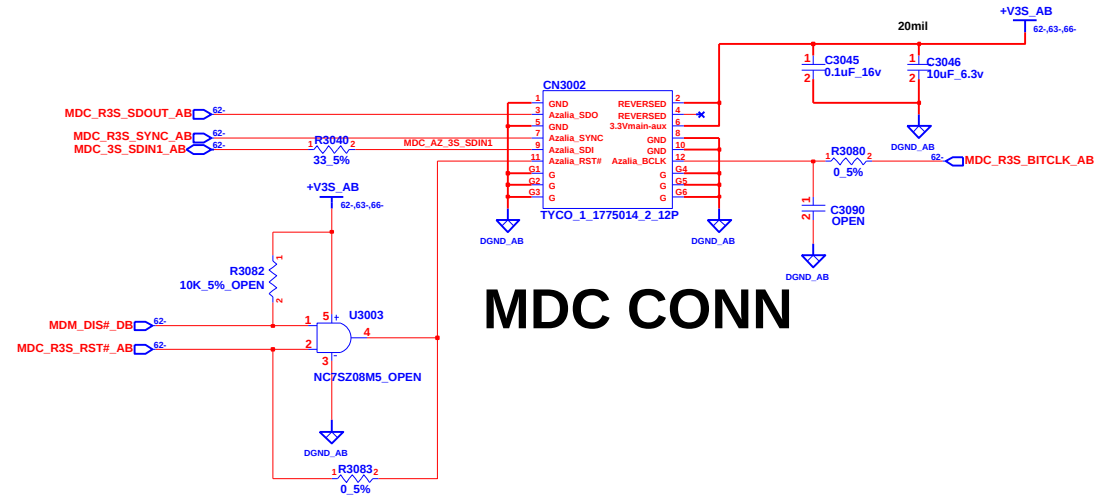
INVENTEC

TITLE			
TT20			
AUDIO AMP & INT SPEAKER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02

CHANGE by Kevin Hsiao 15-May-2008

SHEET 65 OF 70

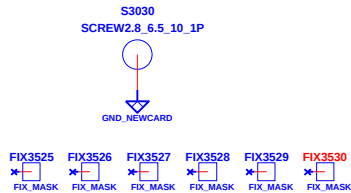
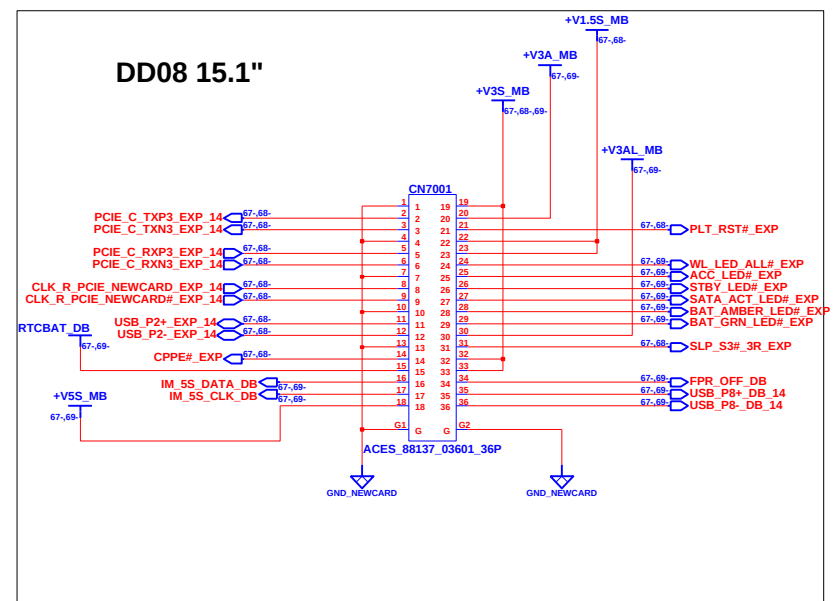
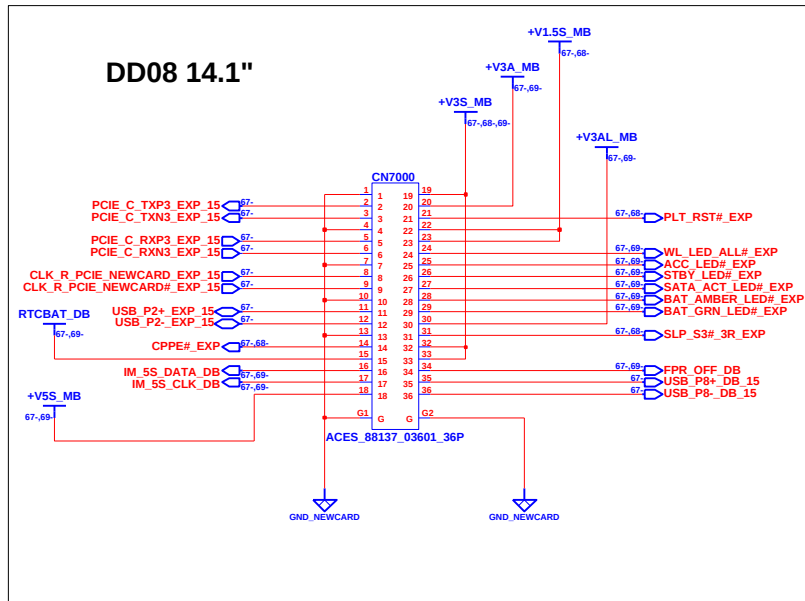
AUDIO DAUGHTER BOARD



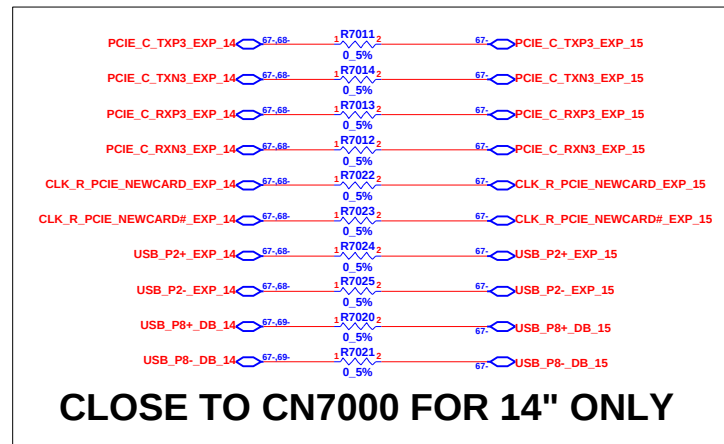
INVENTEC

TITLE TT20			
MDC CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER I310A2150101-1	REV A02
SHEET 66		OF 70	

CHANGE by **Kevin Hsiao** 15-May-2008



- | | |
|-----------------------|------------------|
| 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 +VSS | 36 USB_P8- |



EXPRESS CARD DAUGHTER BOARD

INVENTEC

TITLE TT20			
NEW CARD CONNECTOR			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101-1	REV A02
CHANGE by Kevin Hsiao		26-May-2008	
SHEET 67		OF 70	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

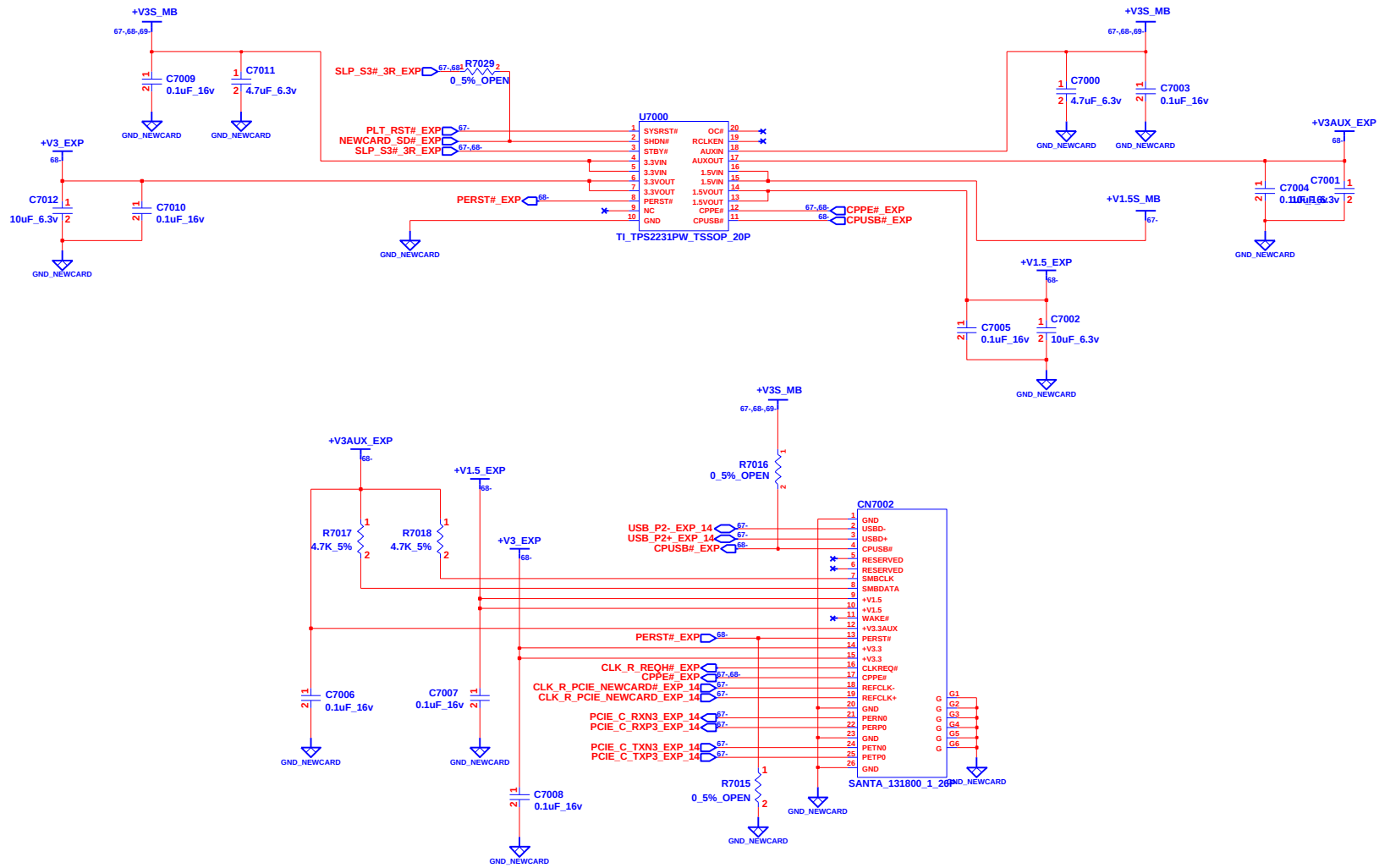
B

C

D

E

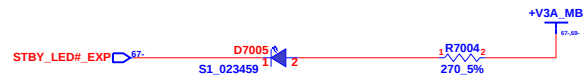
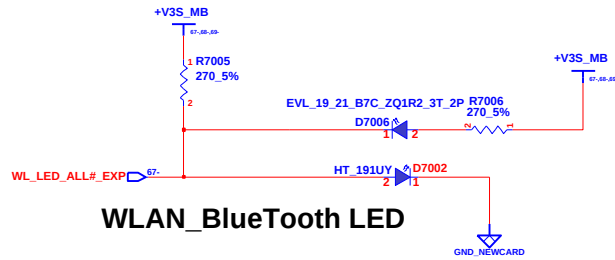
F



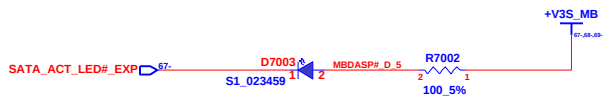
EXPRESS CARD DAUGHTER BOARD

INVENTEC			
TITLE TT20 NEW CARD			
SIZE A3	CODE CS	DOC. NUMBER 1310A2150101-1	REV A02
CHANGE by Kevin Hsiao		15-May-2008	
SHEET		68	OF 70

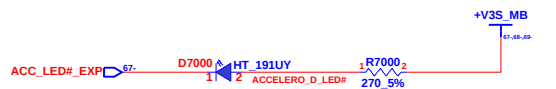
EXPRESS CARD DAUGHTER BOARD



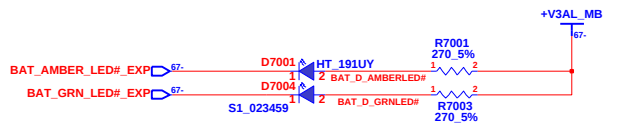
Power / Standby LED



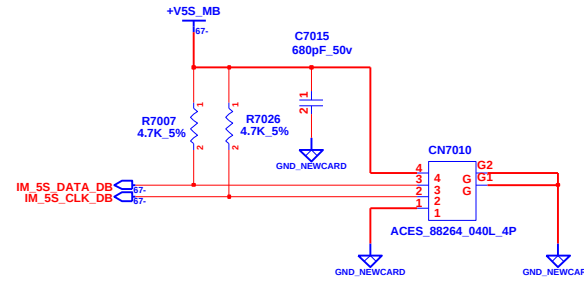
HDD & ODD LED



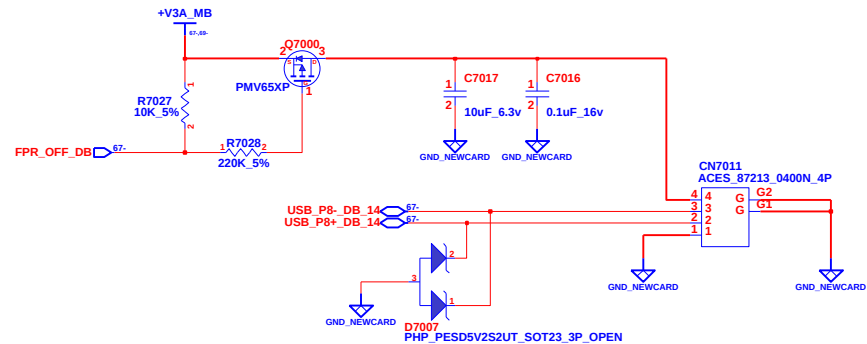
Accelero-Meter LED



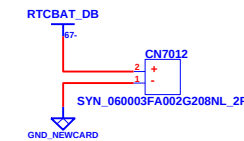
Battery-Charge LED



TOUCH PAD CNTR



FINGER PRINTER CNTR



RTC CNTR

INVENTEC

TITLE			
TT20			
NEW CARD LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2150101-1	A02
SHEET		69	OF 70

CHANGE by Kevin Hsiao 16-May-2008

Layout notes :