

Bremen 10

MP Build (A01)

2010.05.14

INVENTEC			
TITLE <i>Bremen10</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>6050A2338402</i>	REV <i>A01</i>

CHANGE by *Eric Lai* *13-May-2010*

SHEET *1* OF *56*

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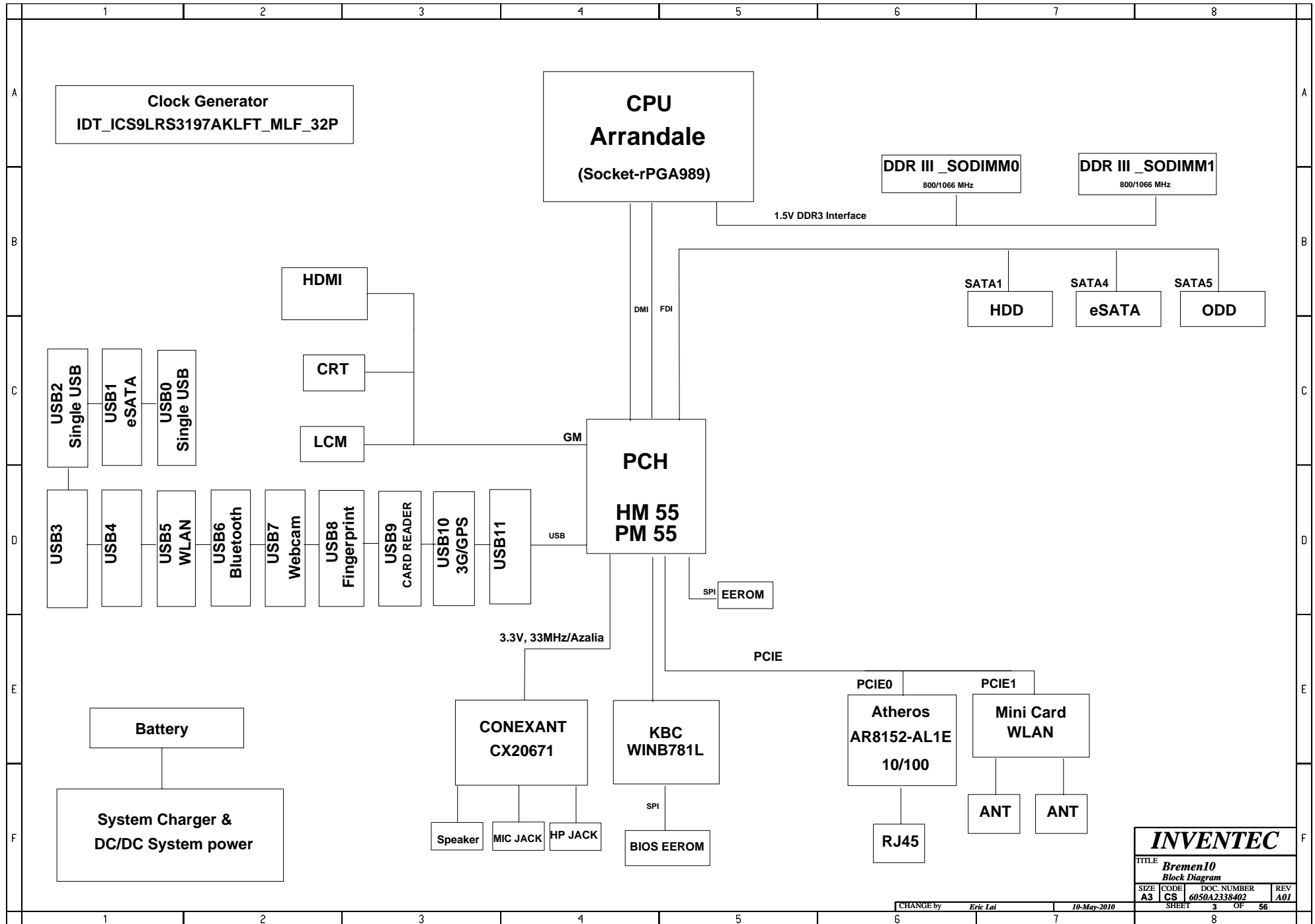
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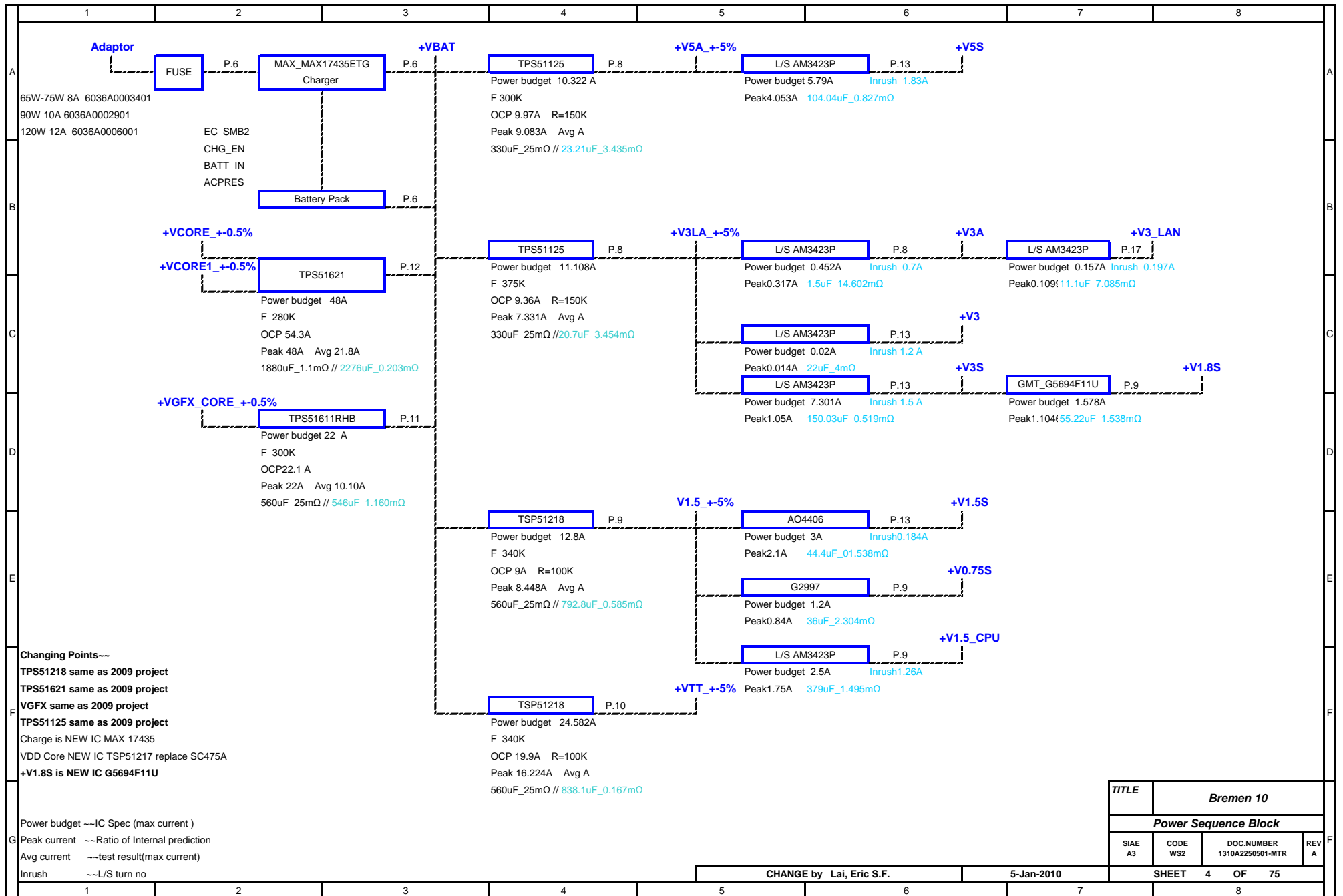
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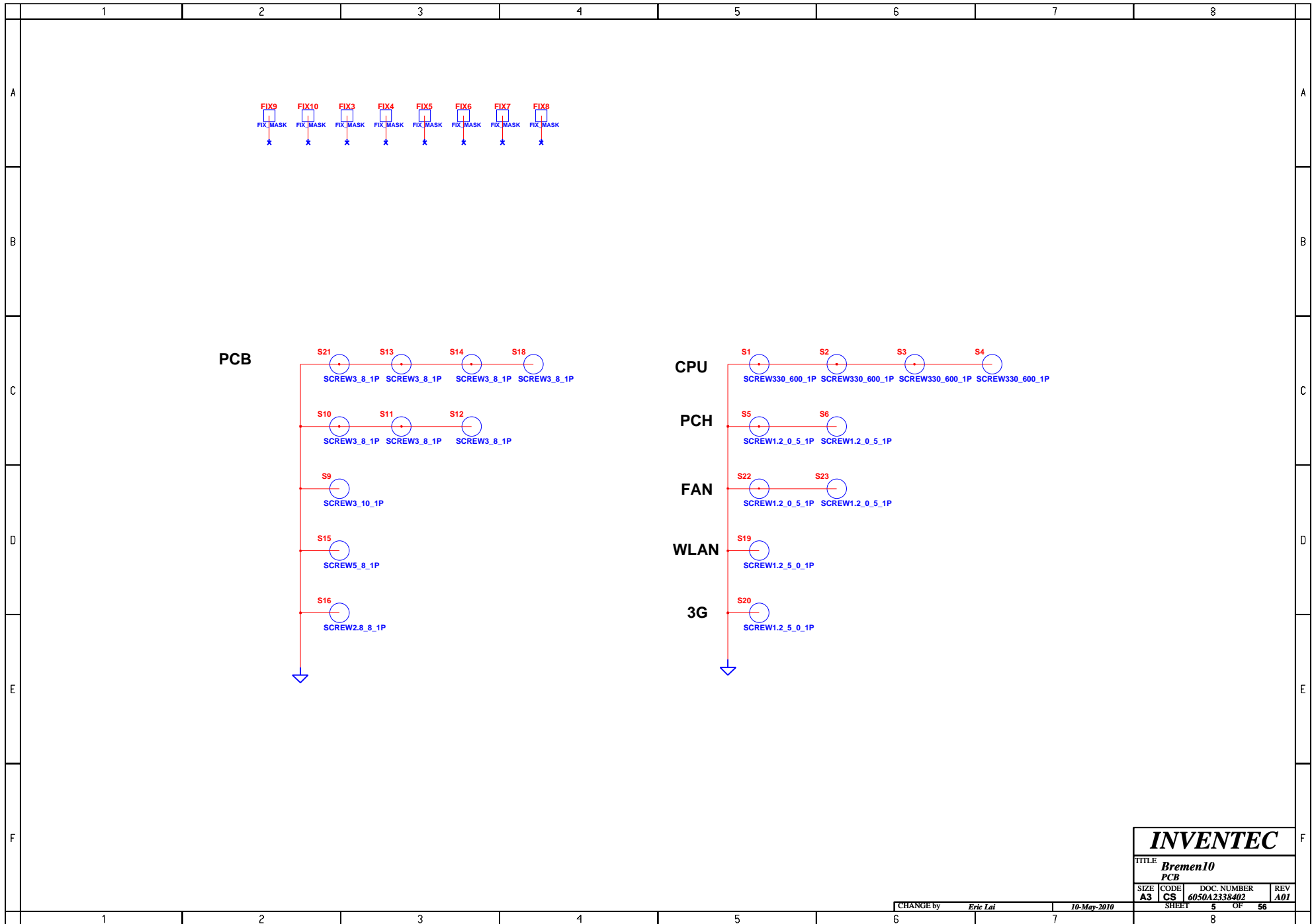
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CHANGE by **Eric Lai** **10-May-2010**



INVENTEC			
TITLE Bremen10 Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by <i>Eric Lai</i>		10-May-2010	
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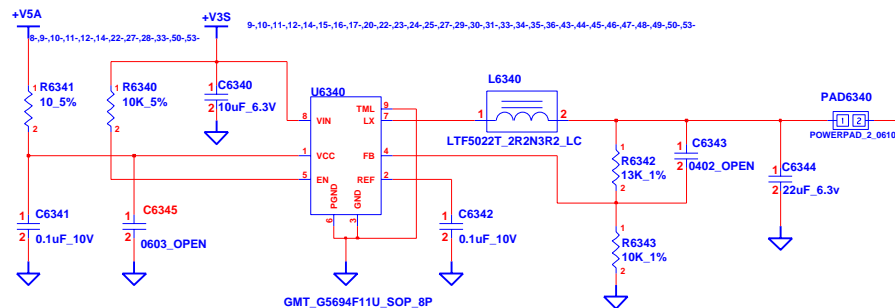
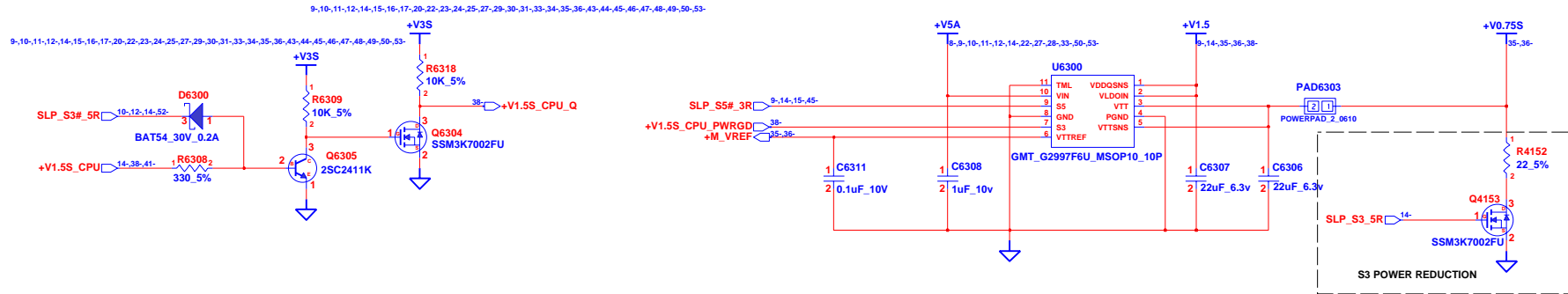
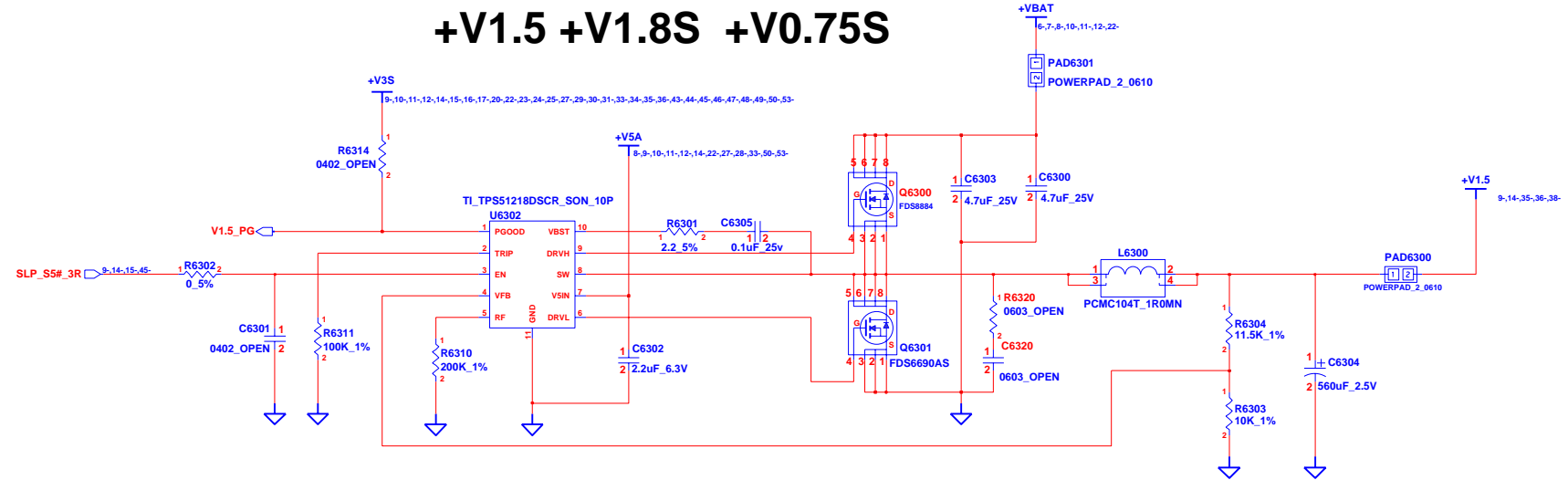


INVENTEC

TITLE
Bremen10
PCB

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

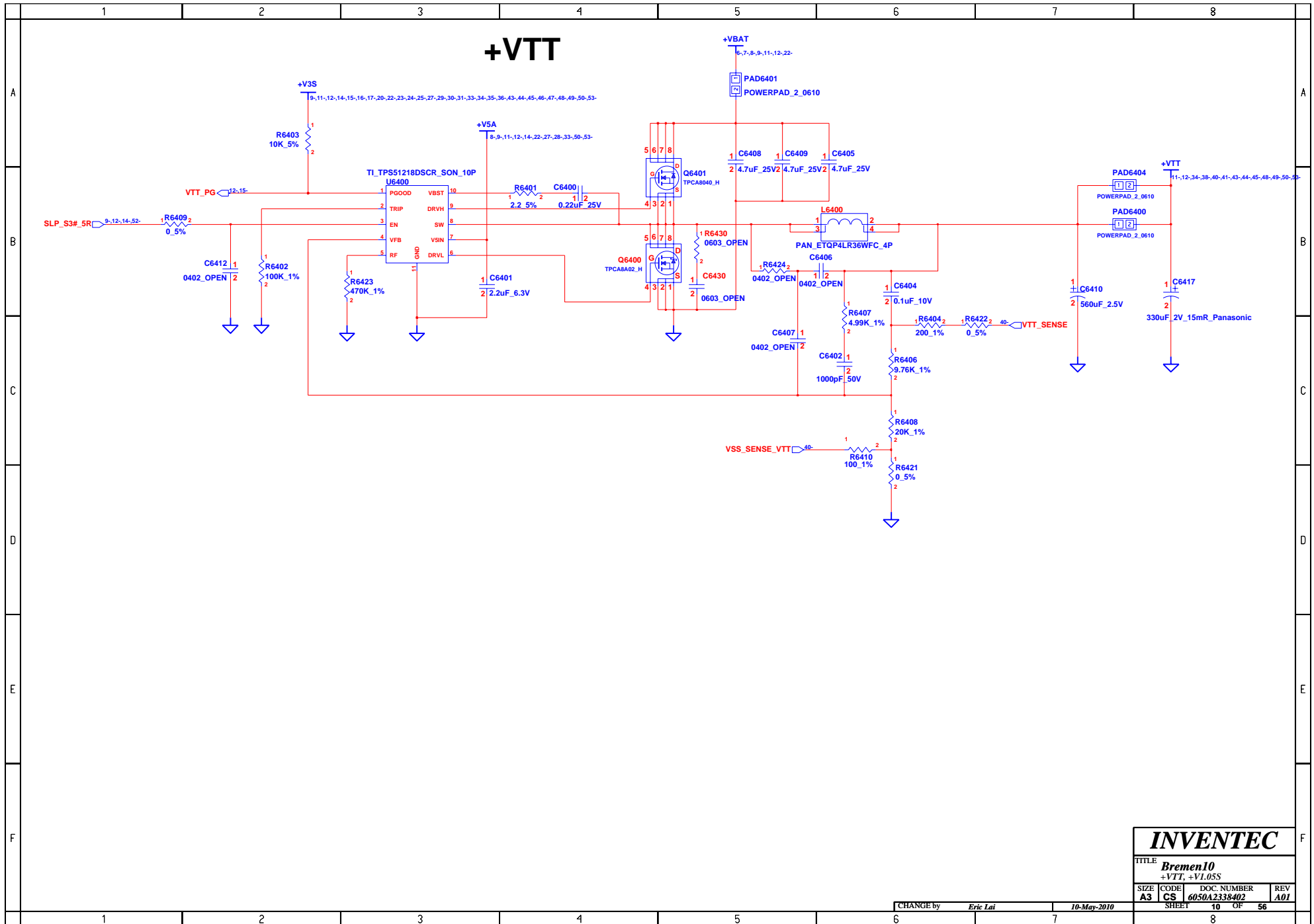
+V1.5 +V1.8S +V0.75S



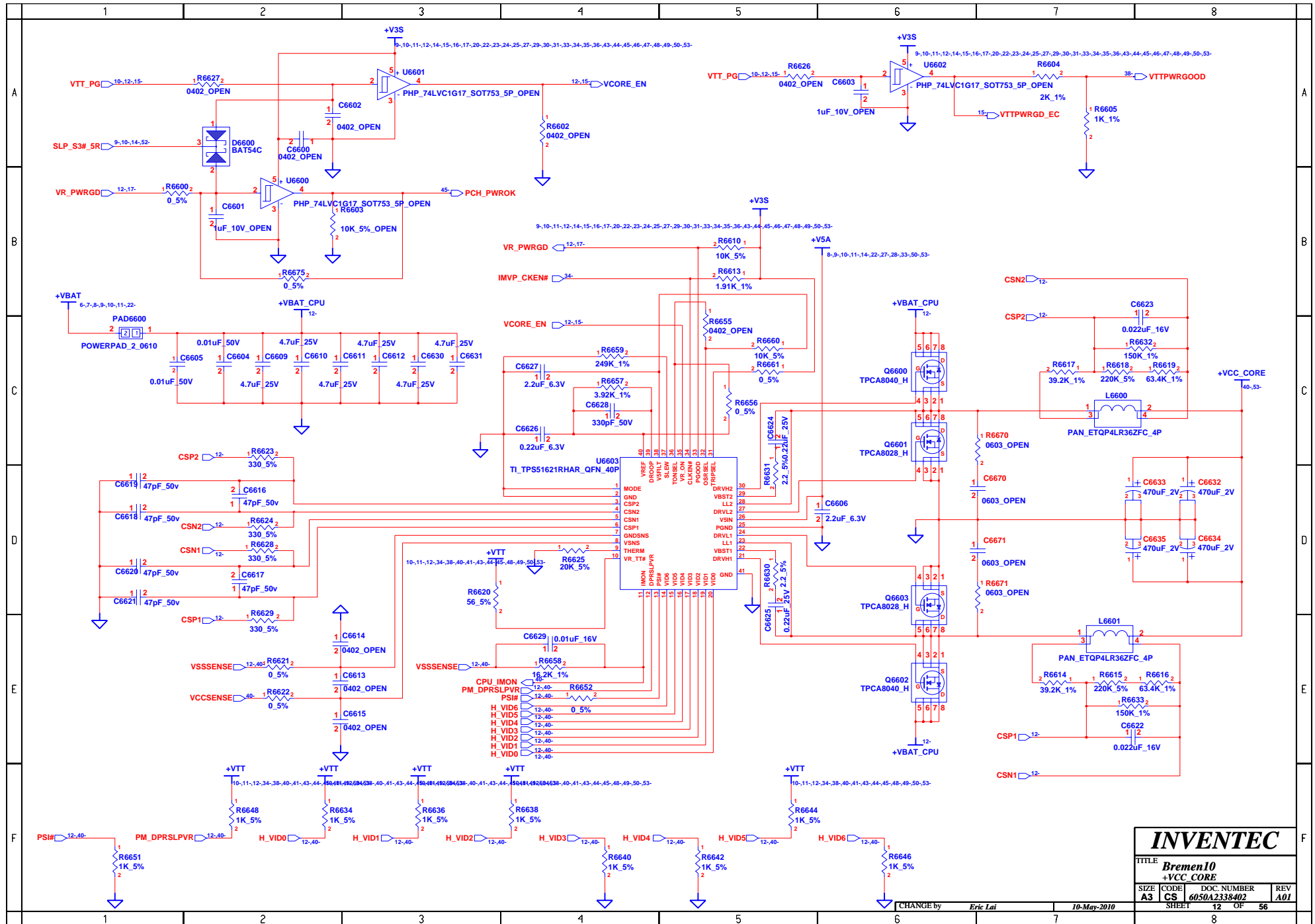
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TITLE Bremen10 +V1.5, +V1.8S, +V0.75S			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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CHANGE by Eric Lai 10-May-2010

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INVENTEC			
TITLE Bremen10 +VTT, +V1.05S			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by <i>Eric Lai</i>		10-May-2010	
SHEET		10	OF 56

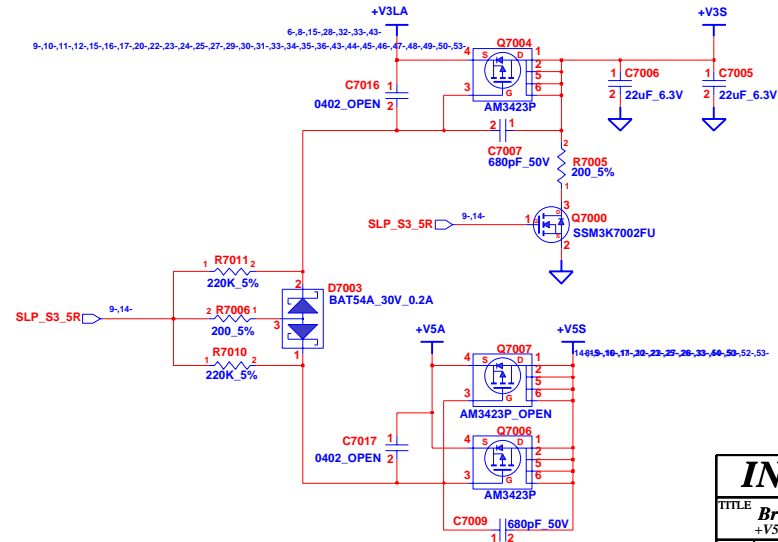
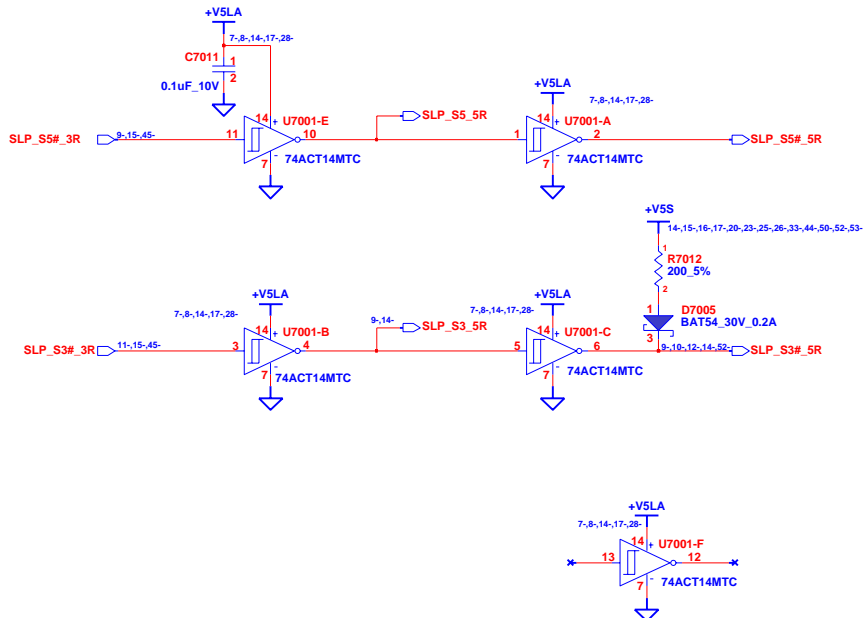
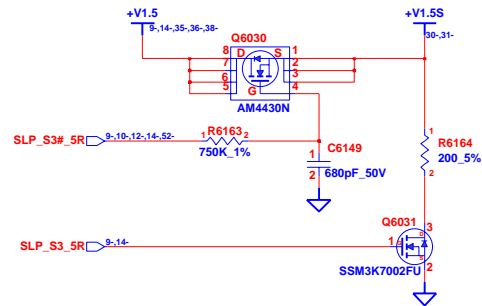
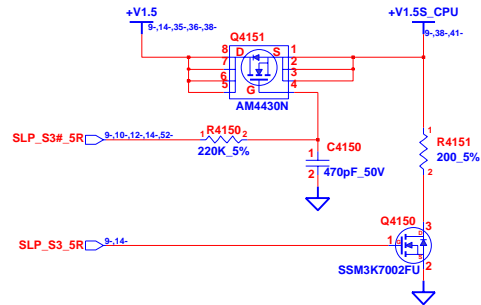


	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>Bremen10</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by <i>Eric Lai</i>		10-May-2010	
SHEET		13	OF 56

+V5S +V3S +V1.5S +V1.5S_CPU

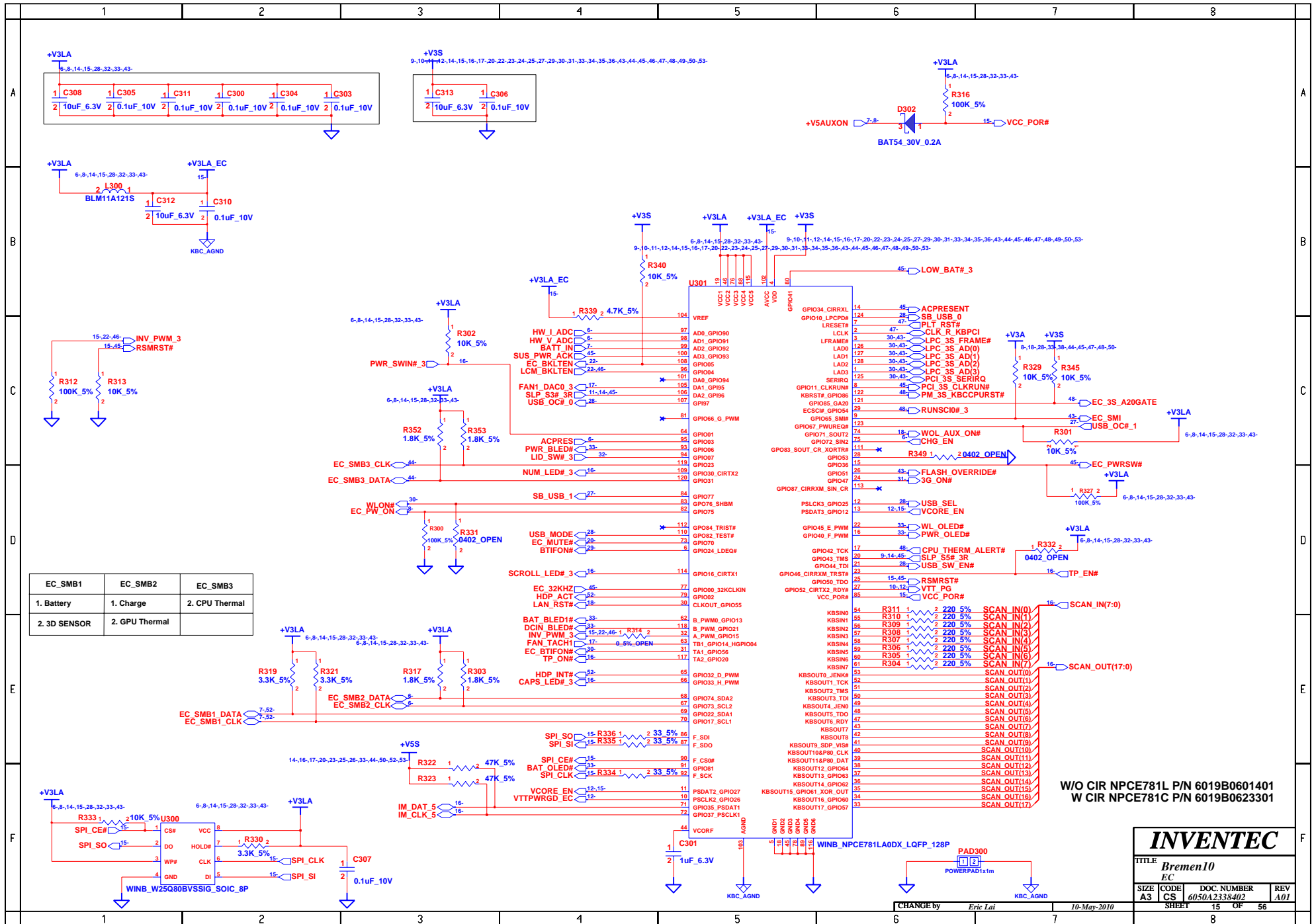
S3 POWER REDUCTION

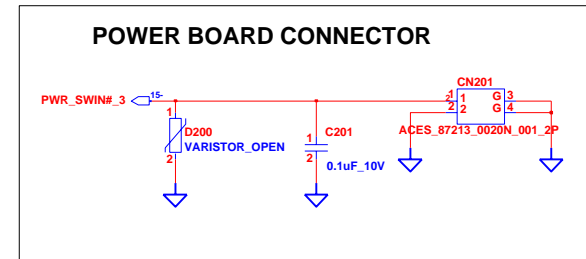
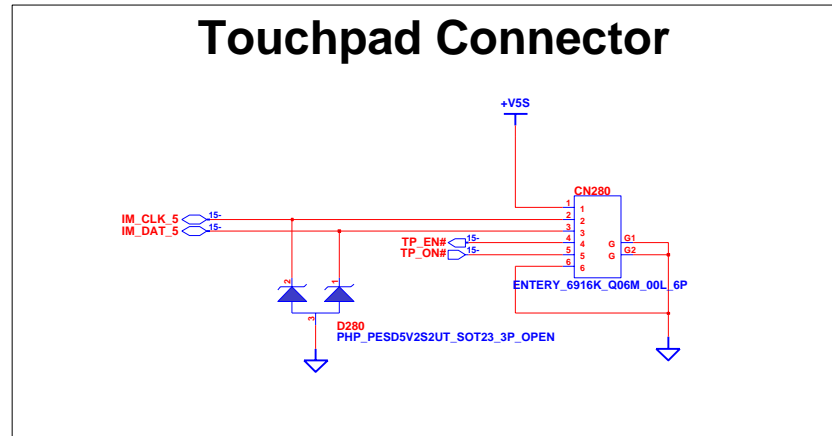
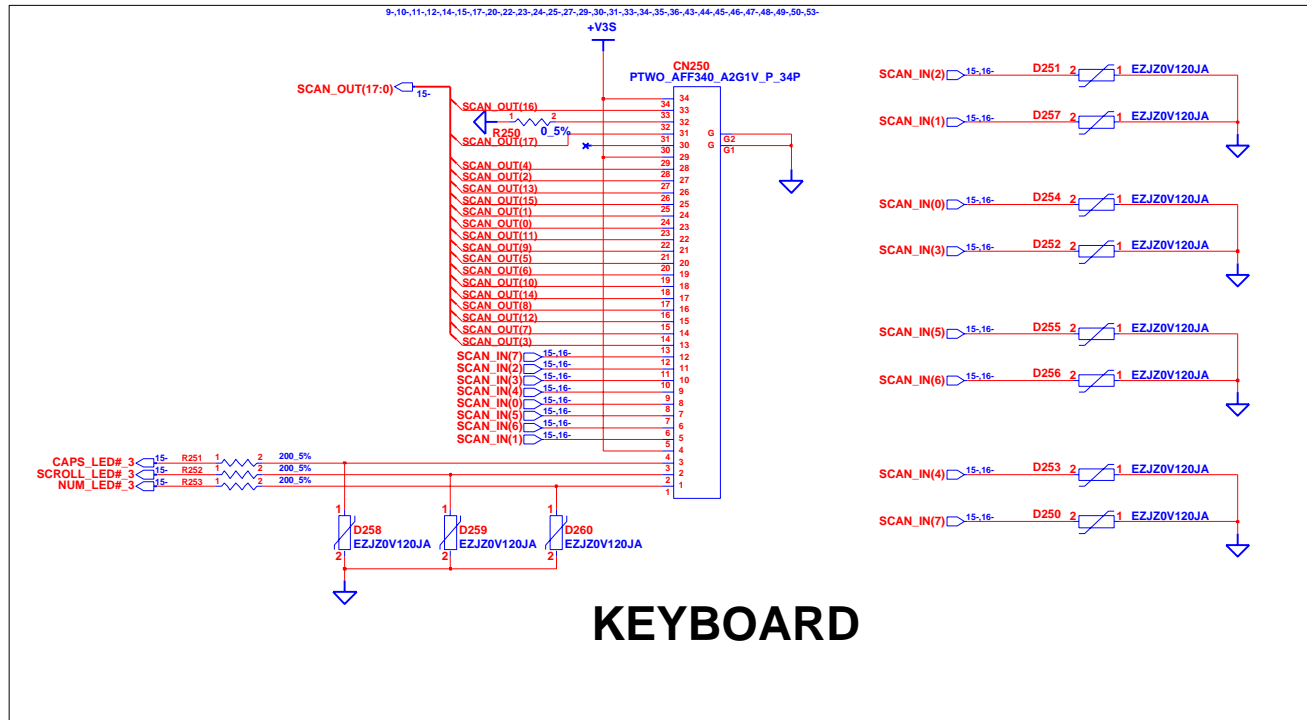


INVENTEC

TITLE			
Bremen10			
+V5S +V3S +V1.5S			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by Eric Lai 10-May-2010





INVENTEC

TITLE Bremen10 Keyboard, Touch PAD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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Thermal shutdown at 87 C° +/- 3 C° from 60 C° to 100 C°

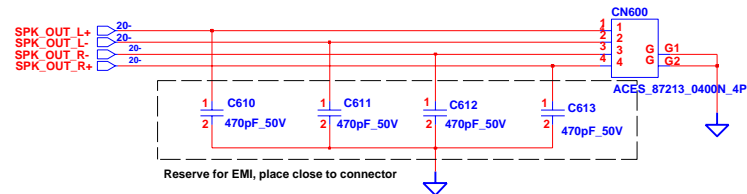
Hysteresis is 30C

INVENTEC

TITLE			
Bremen10 <i>FAN, Thermal controller</i>			
SIZE	CODE	DOC. NUMBER	R
A3	CS	6050A2338402	A

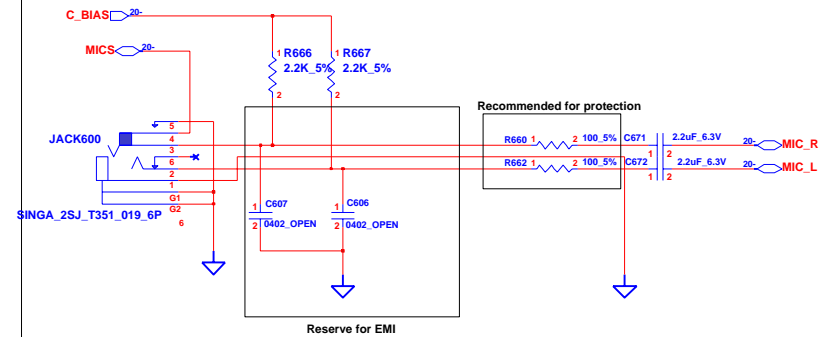
CHANGE by	<i>Eric Lai</i>	<i>10-May-2010</i>
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INTERNAL SPEAKERS

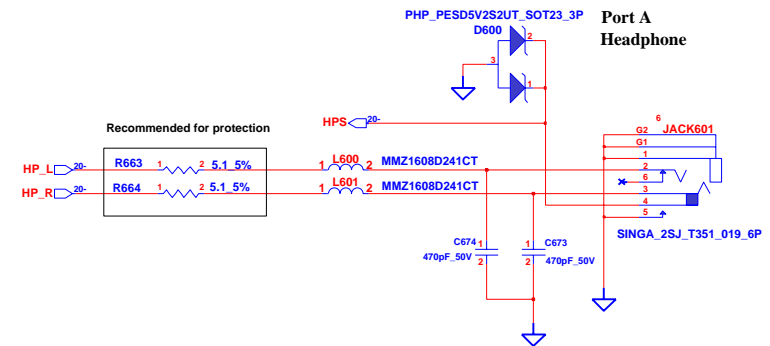


AUDIO JACKS

Port C External microphone



Port A Headphone

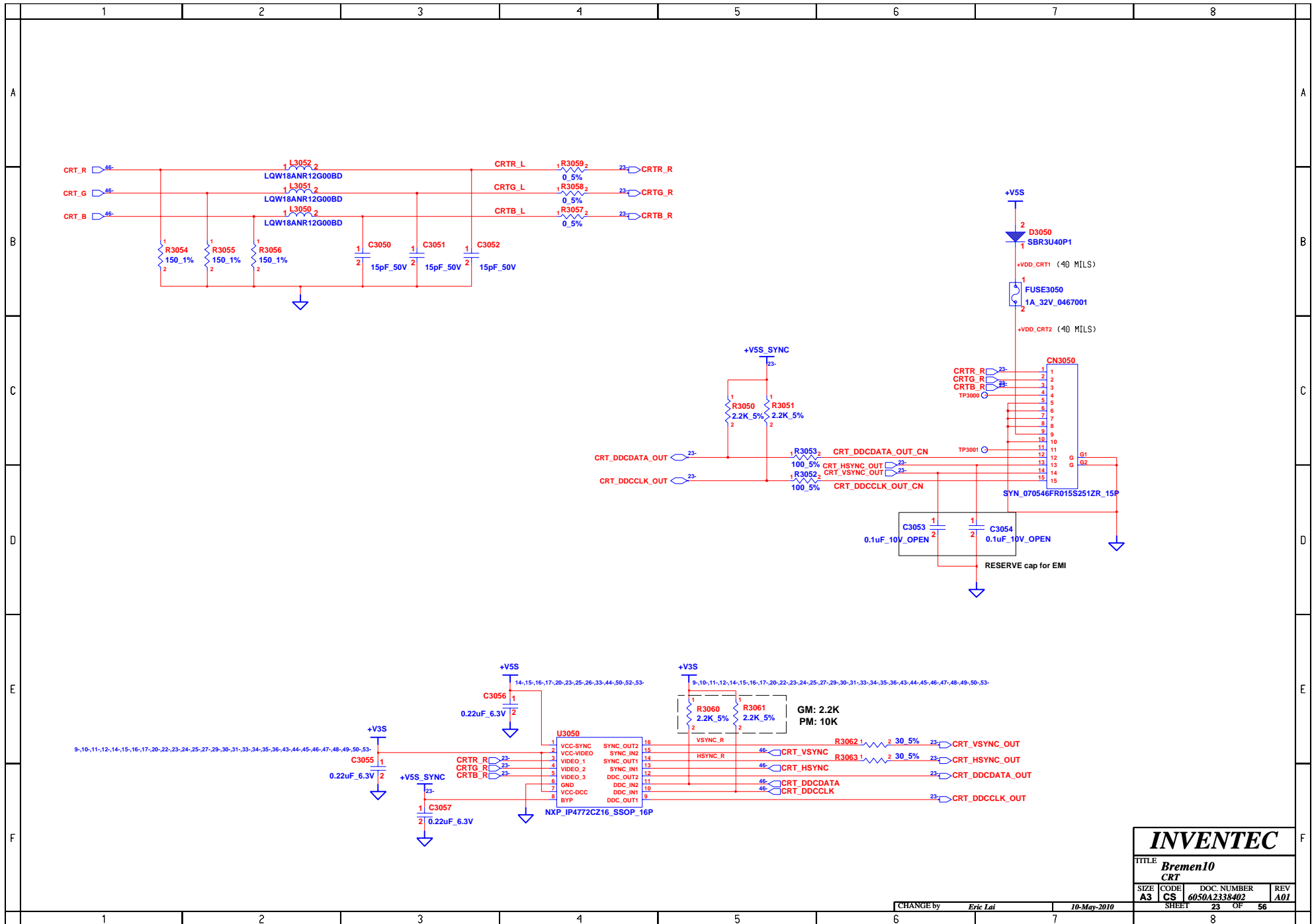


INVENTEC

TITLE			
Bremen10			
AUDIO JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

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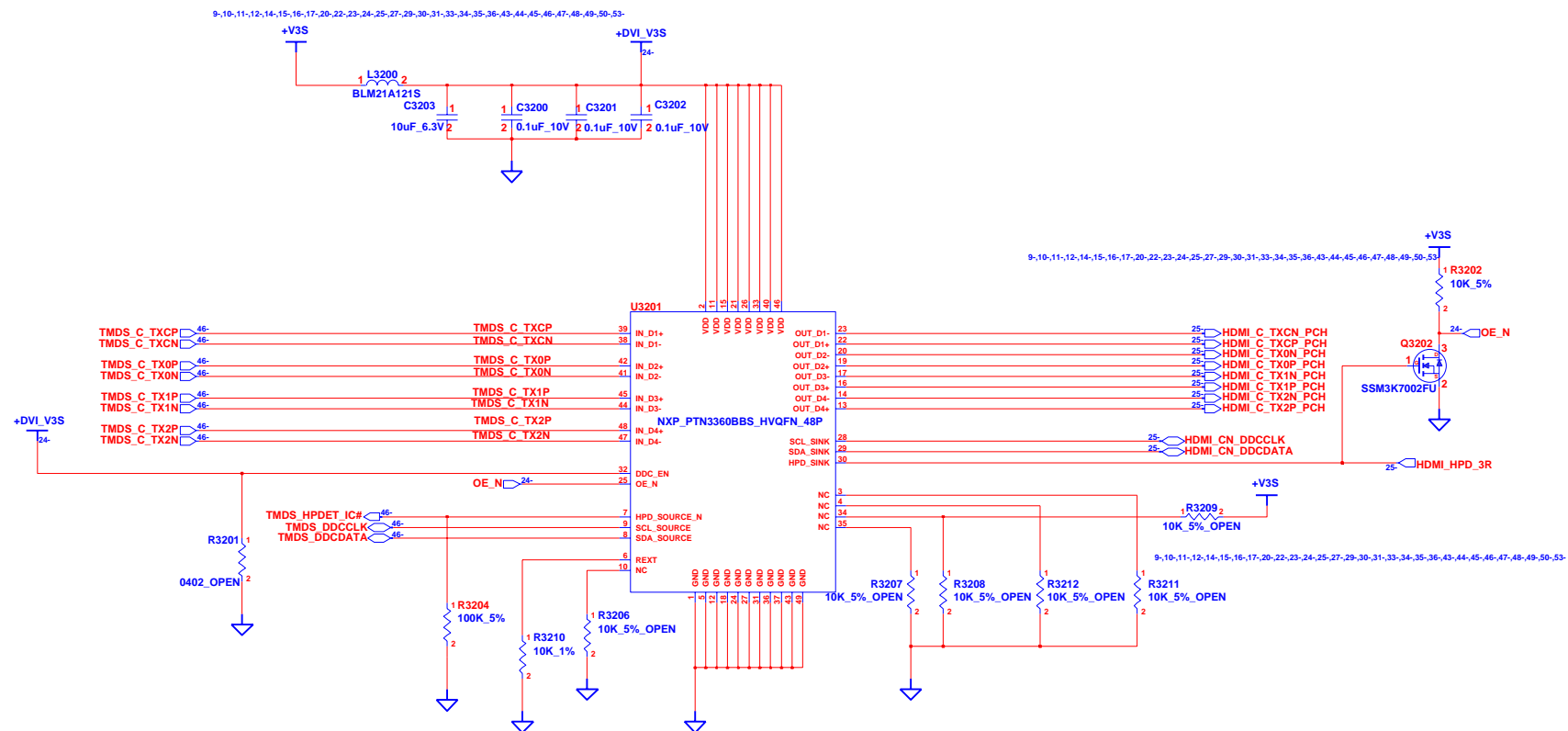
INVENTEC

TITLE
Bremen10
CRT

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

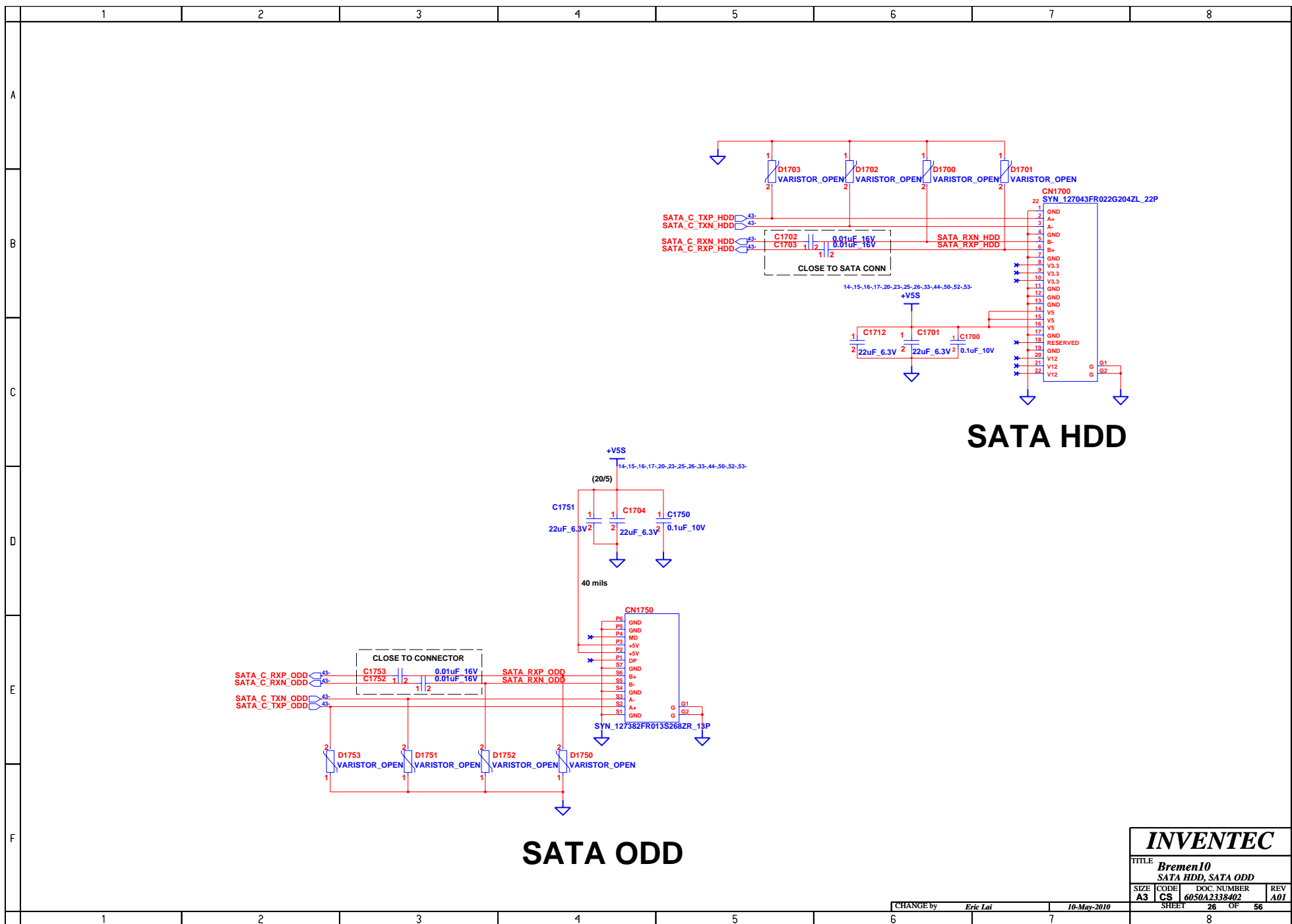
CHANGE by *Eric Lai* 10-May-2010

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INVENTEC

TITLE			
Bremen10			
HDMI LEVEL SHIFTER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01
CHANGE by		Eric Lai	10-May-2010
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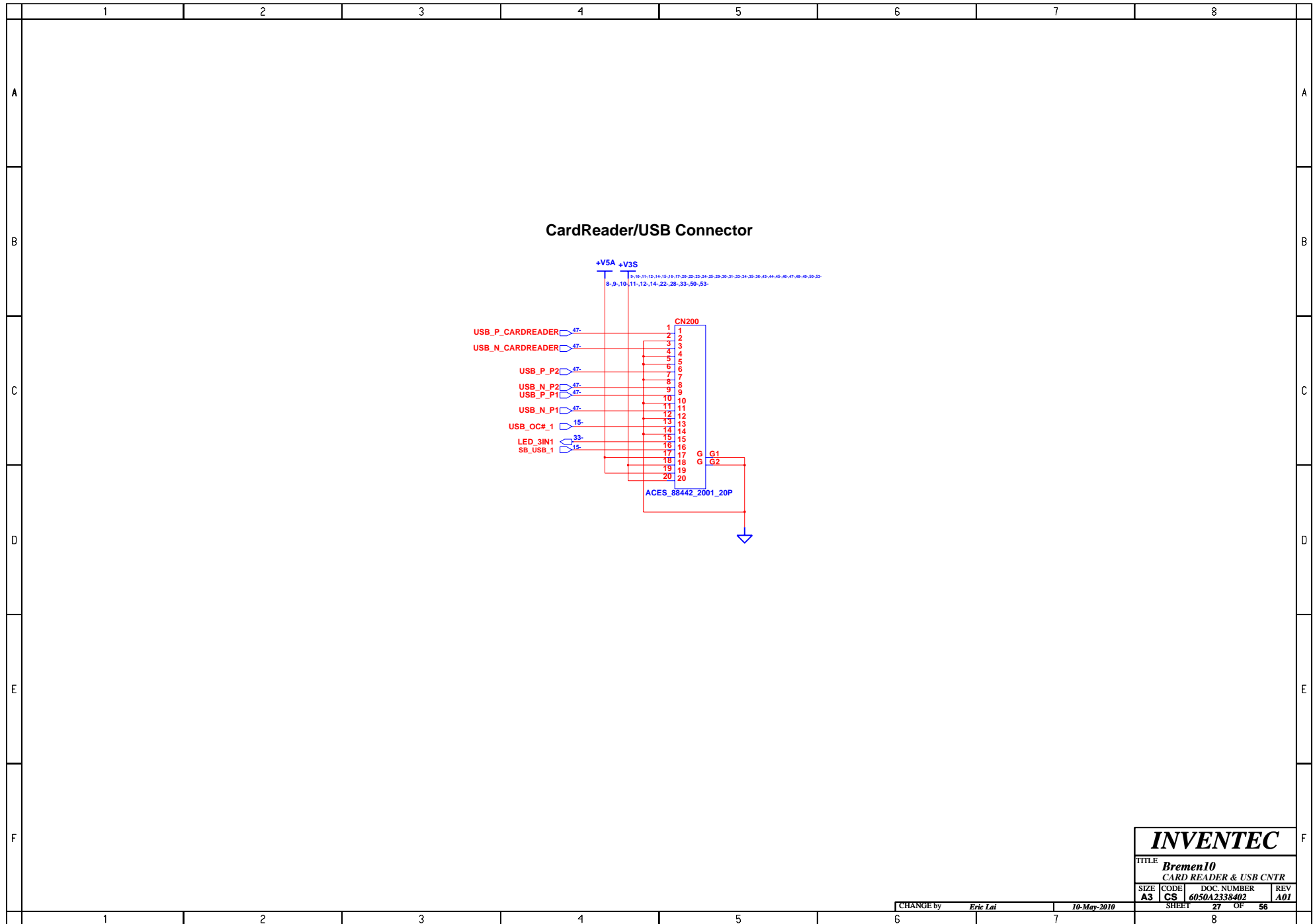


INVENTEC

TITLE			
Bremen10			
SATA HDD, SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

CHANGE by Eric Lai 10-May-2010

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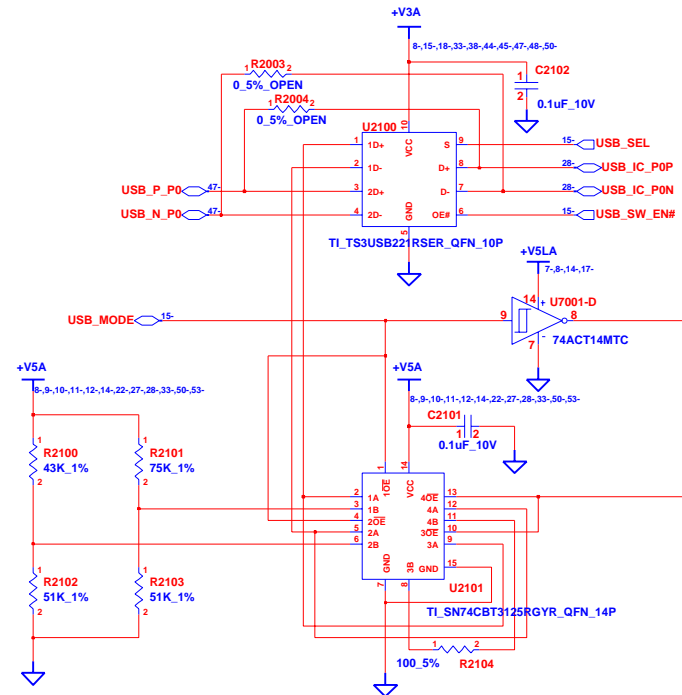
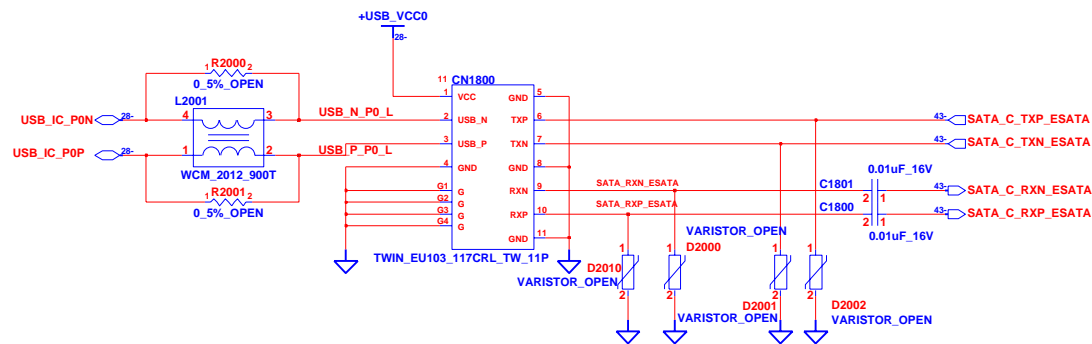
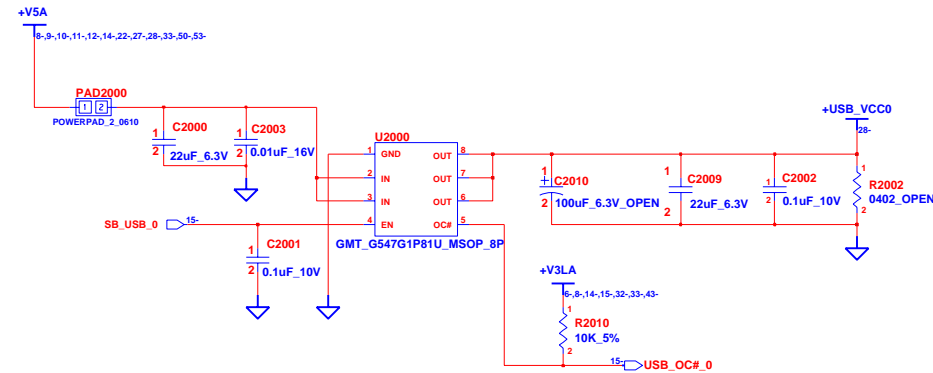


INVENTEC			
TITLE			
Bremen10			
CARD READER & USB CNTR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01
CHANGE by		10-May-2010	
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USB/eSATA COMBO

EN	D0	D1	FUNCTION
0	X	X	STANDBY
1	0	0	DEFAULT
1	1	0	CH0->5DB
1	0	1	CH1->5DB
1	1	1	CH0,1->5DB

S	OE#	Function
X	H	Disconnect
L	L	D=1D
H	L	D=2D



	1OE#	2OE#	3OE#	4OE#
Mode3	High	High	Low	Low
Mode4	Low	Low	High	High

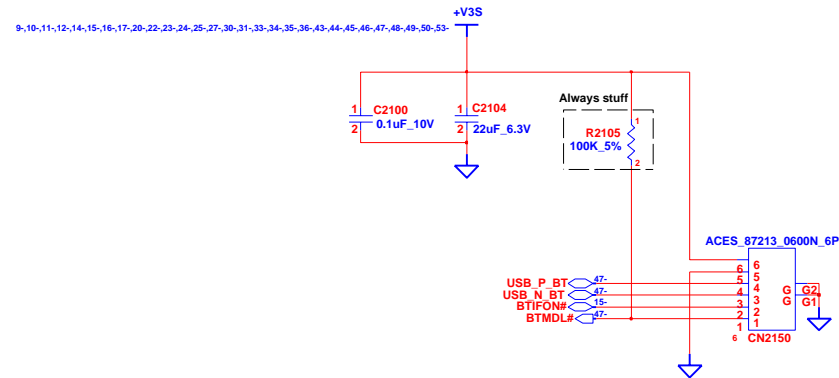
INVENTEC

TITLE Bremen10 USB & eSATA COMBO			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01

CHANGE by **Eric Lai** 10-May-2010

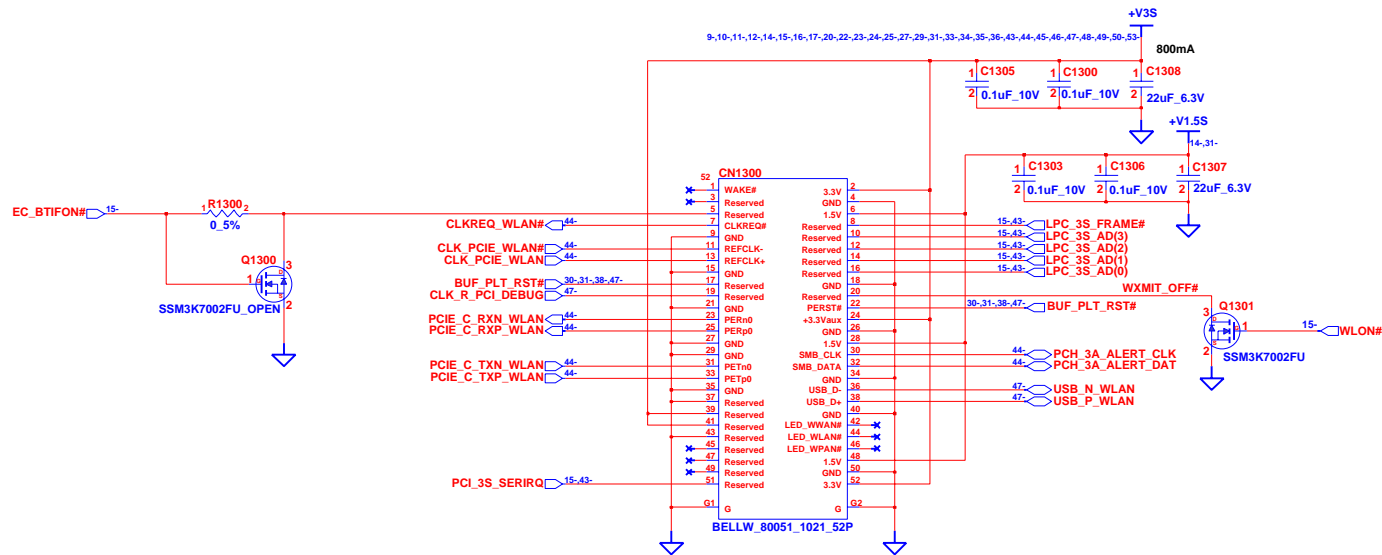
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BLUEBOOTH



INVENTEC			
TITLE Bremen10 <i>BlueTooth</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by <i>Eric Lai</i>		10-May-2010	
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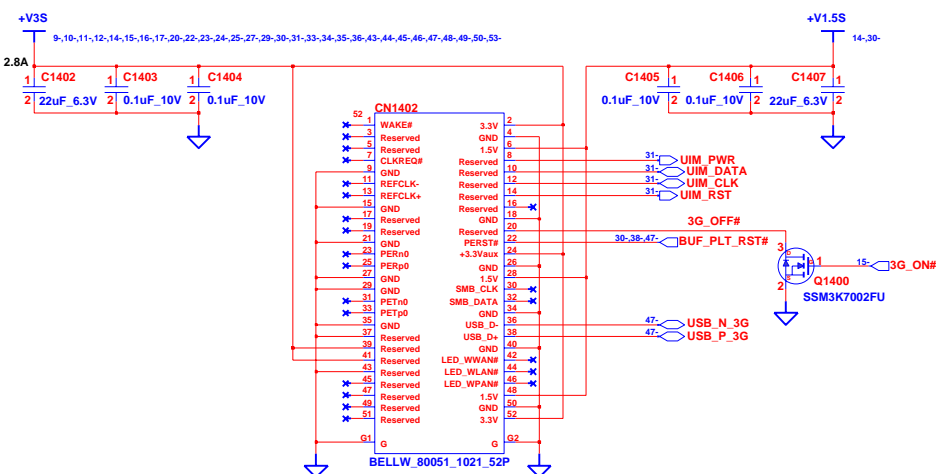
Wireless & Debug card



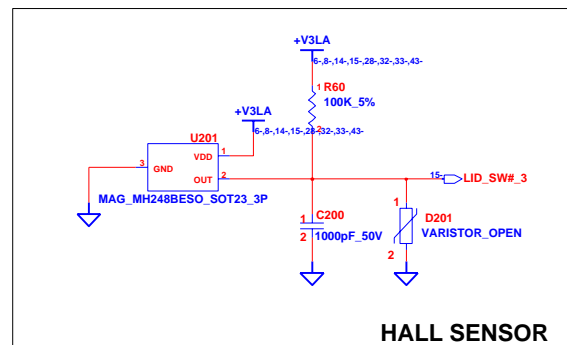
INVENTEC

TITLE			
Bremen10			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01
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CHANGE by Eric Lai 10-May-2010



TITLE Bremen10			
3G			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01
SHEET		31	OF 56



HALL SENSOR

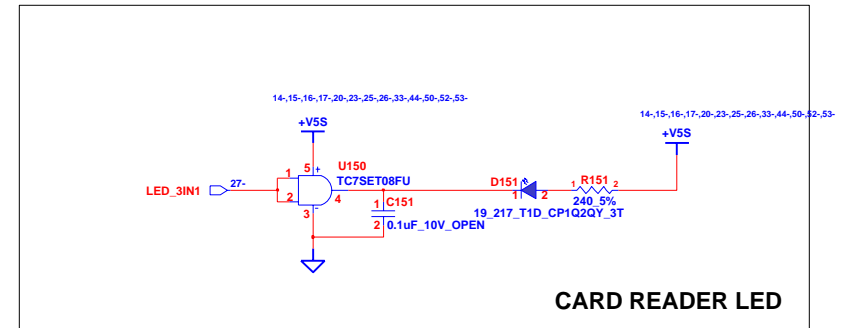
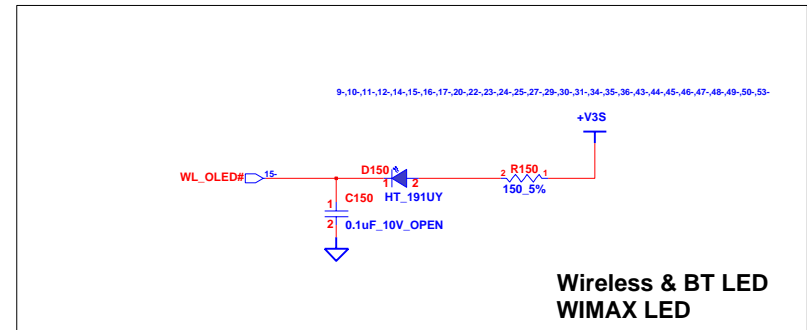
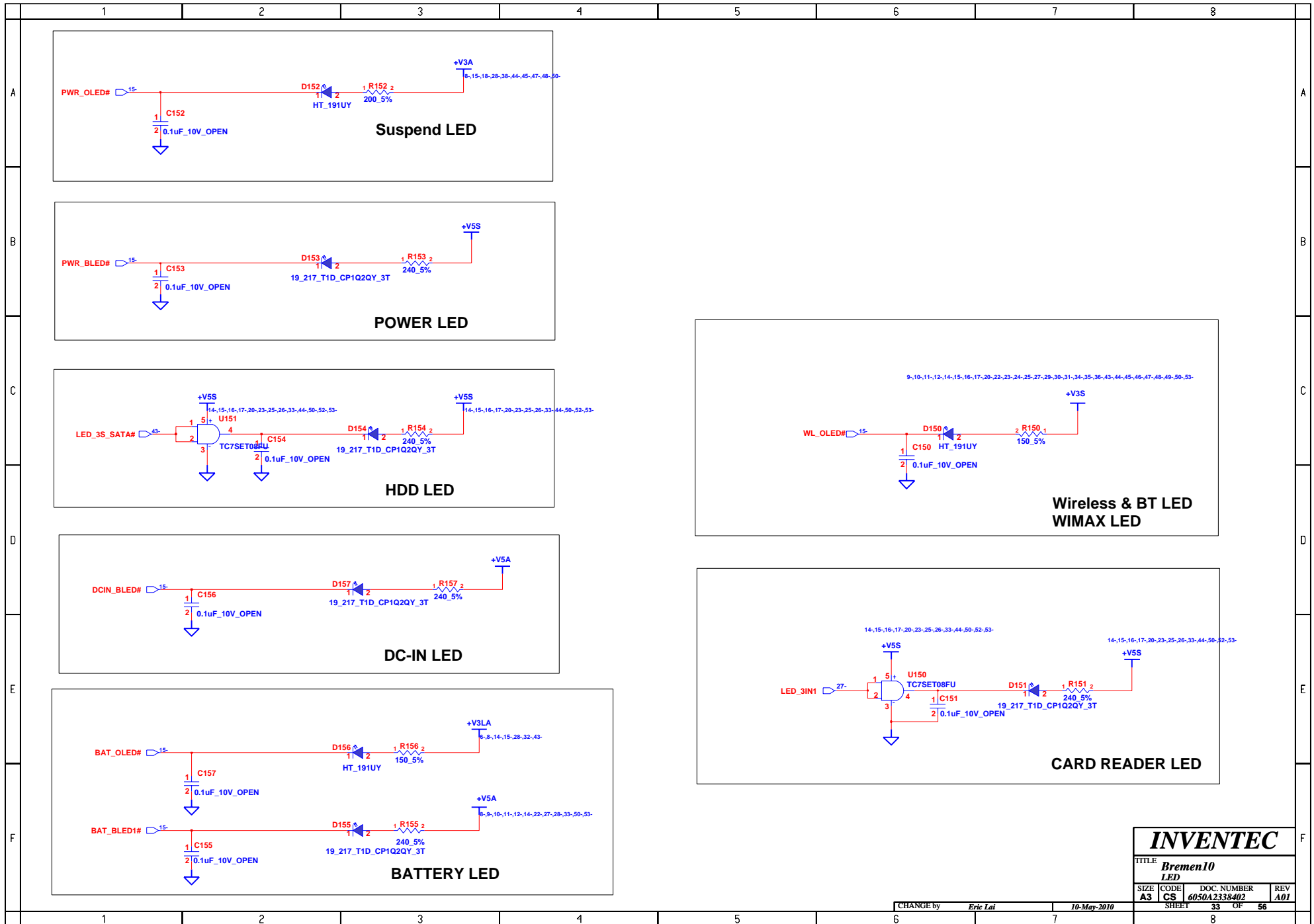
INVENTEC

TITLE
Bremen10
Hall Sensor

SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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CHANGE by *Eric Lai* 10-May-2010

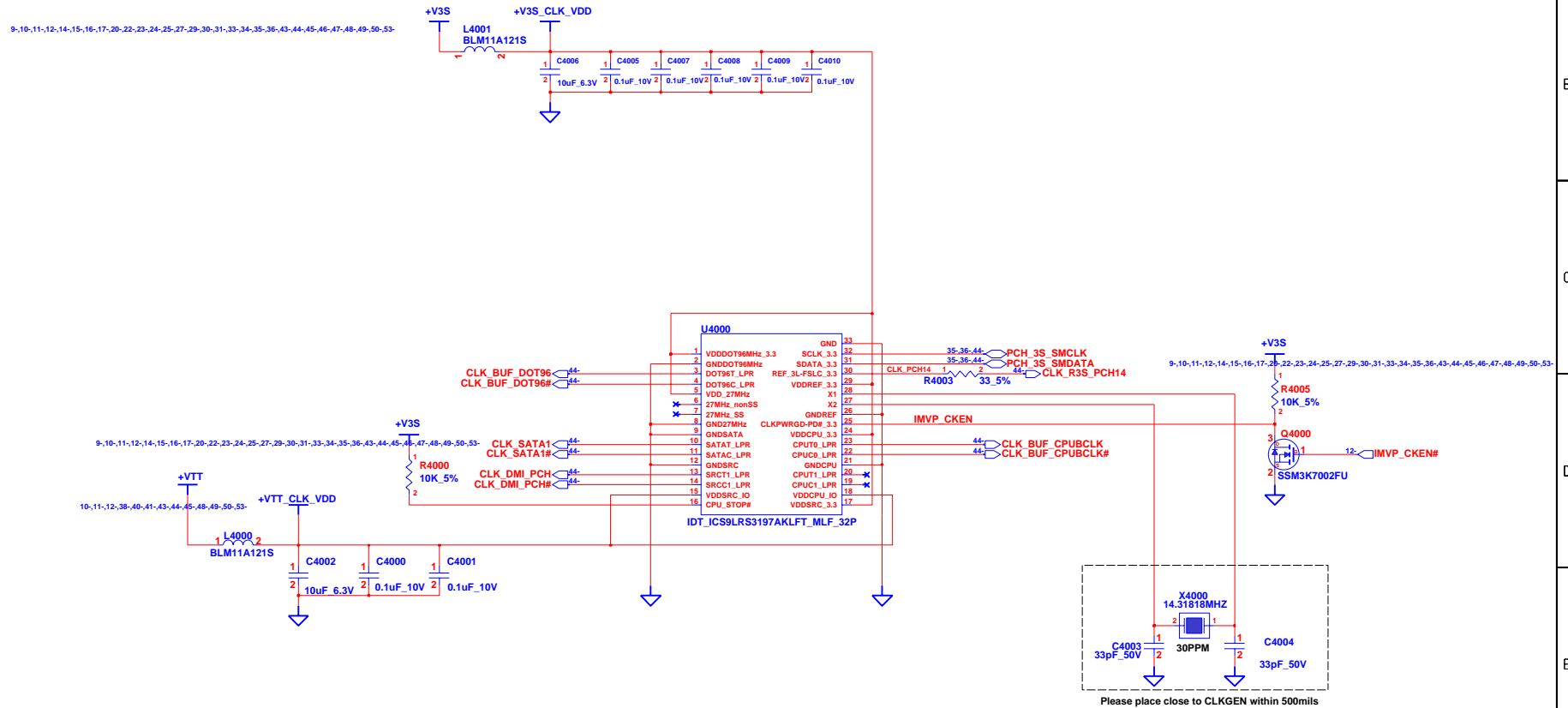
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INVENTEC

TITLE Bremen10 LED			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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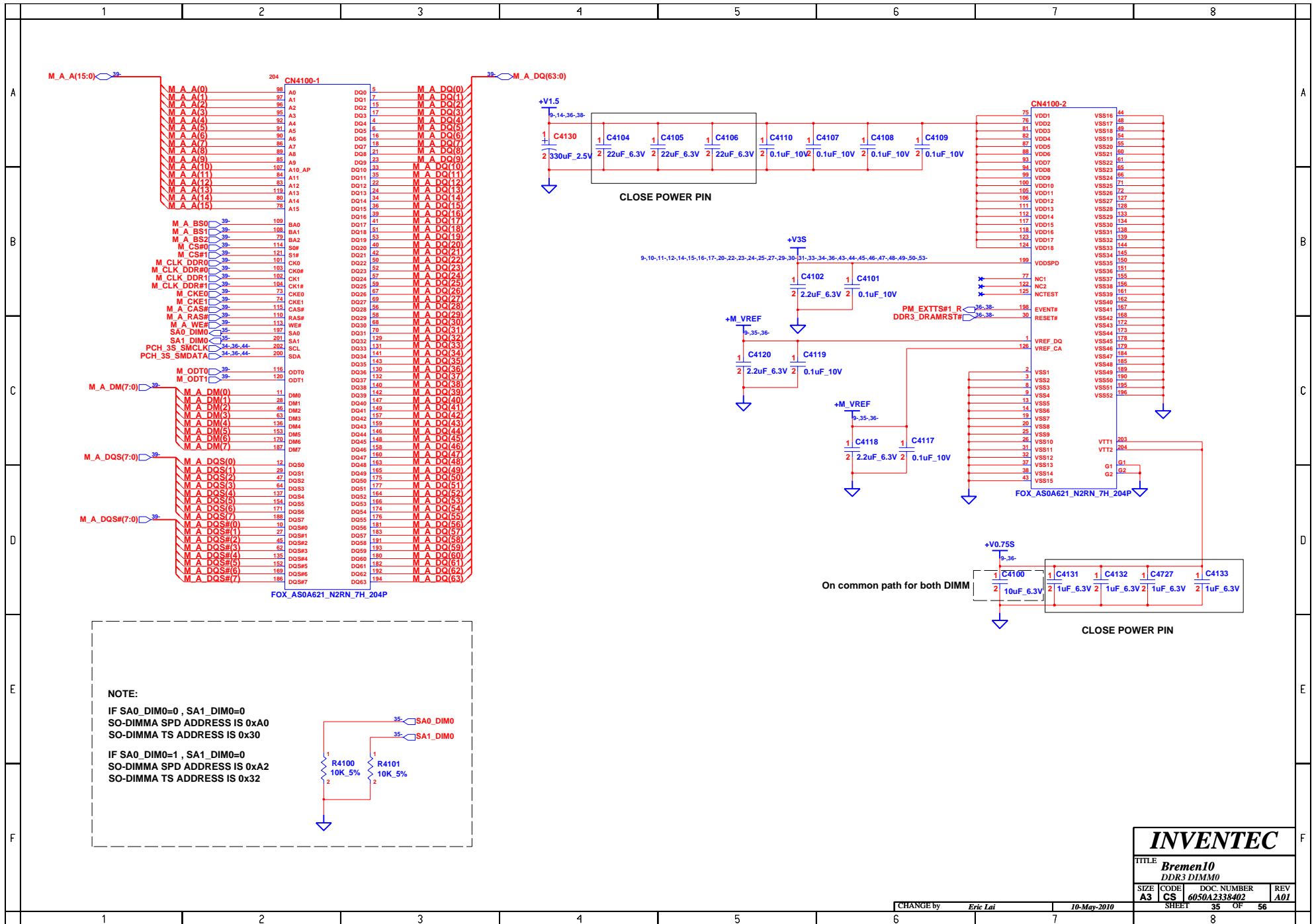
CHANGE by **Eric Lai** **10-May-2010**



INVENTEC

TITLE Bremen10 Clock Generator			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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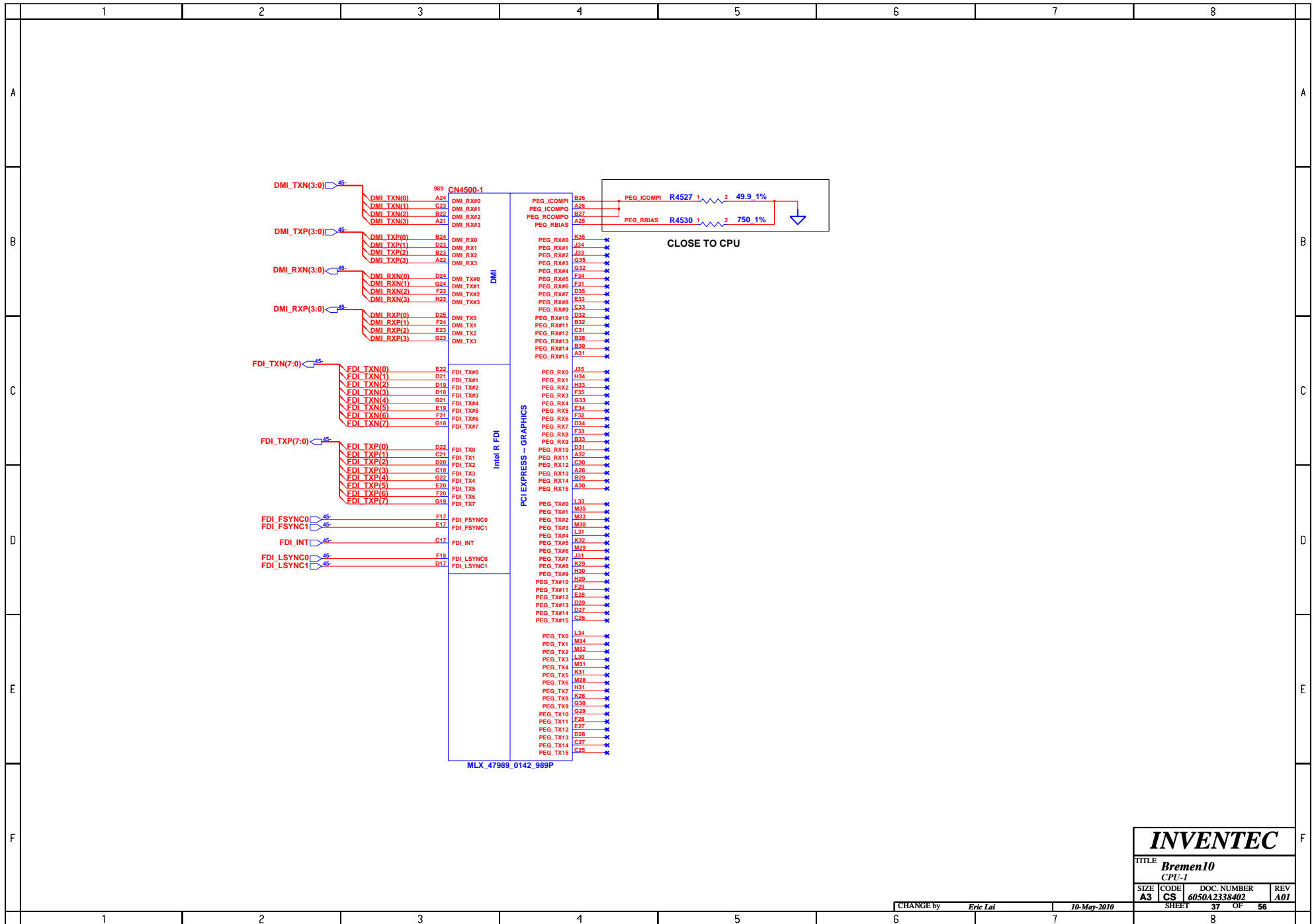
CHANGE by *Eric Lai* 10-May-2010



INVENTEC

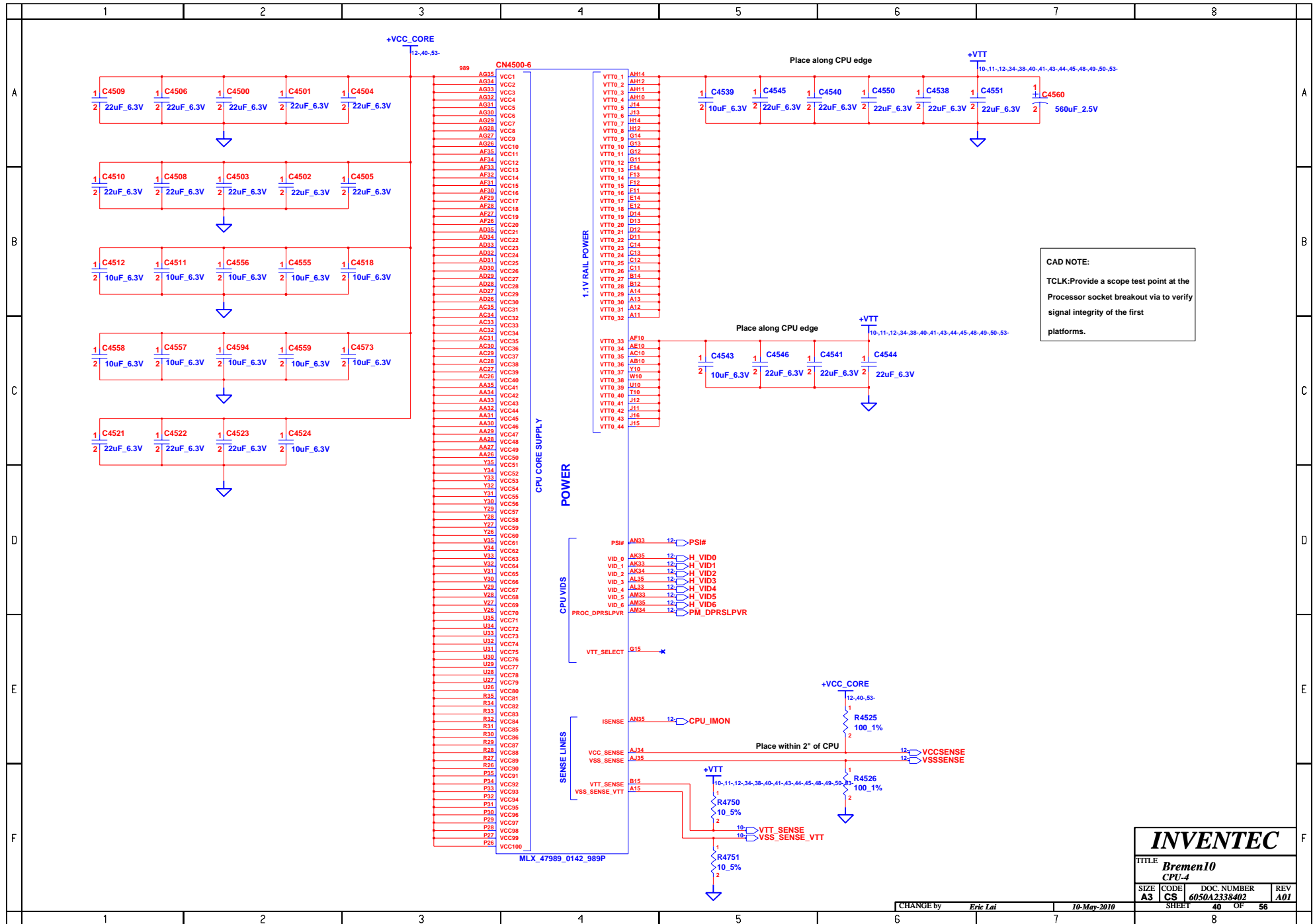
TITLE Bremen10 DDR3 DIMM0			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
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CHANGE by **Eric Lai** 10-May-2010



INVENTEC			
TITLE			
Bremen10			
CPU-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01
SHEET		37	OF 56

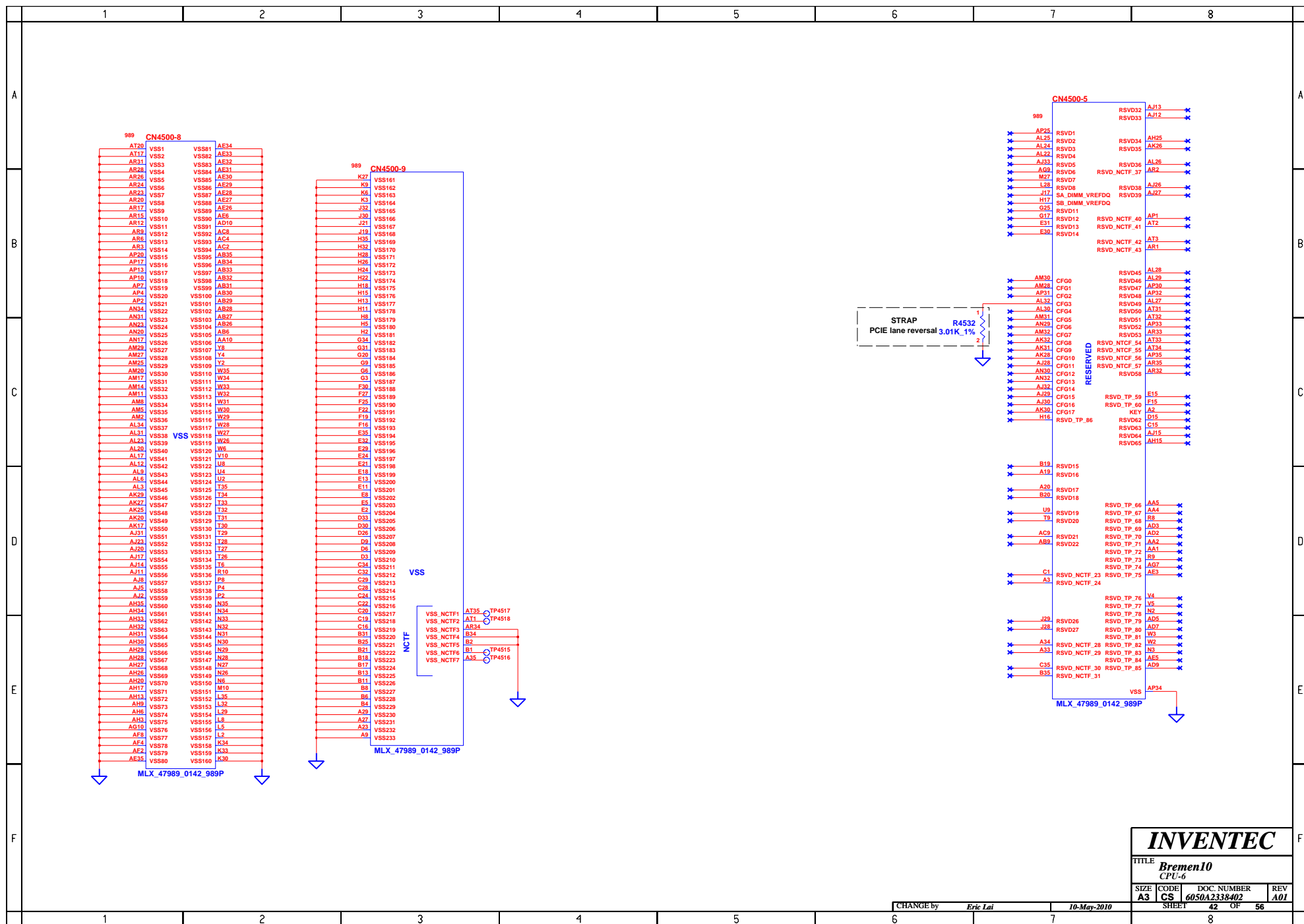
CHANGE by Eric Lai 10-May-2010



INVENTEC

TITLE Bremen10 CPU-4			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
SHEET 40		OF 56	

CHANGE by **Eric Lai** 10-May-2010



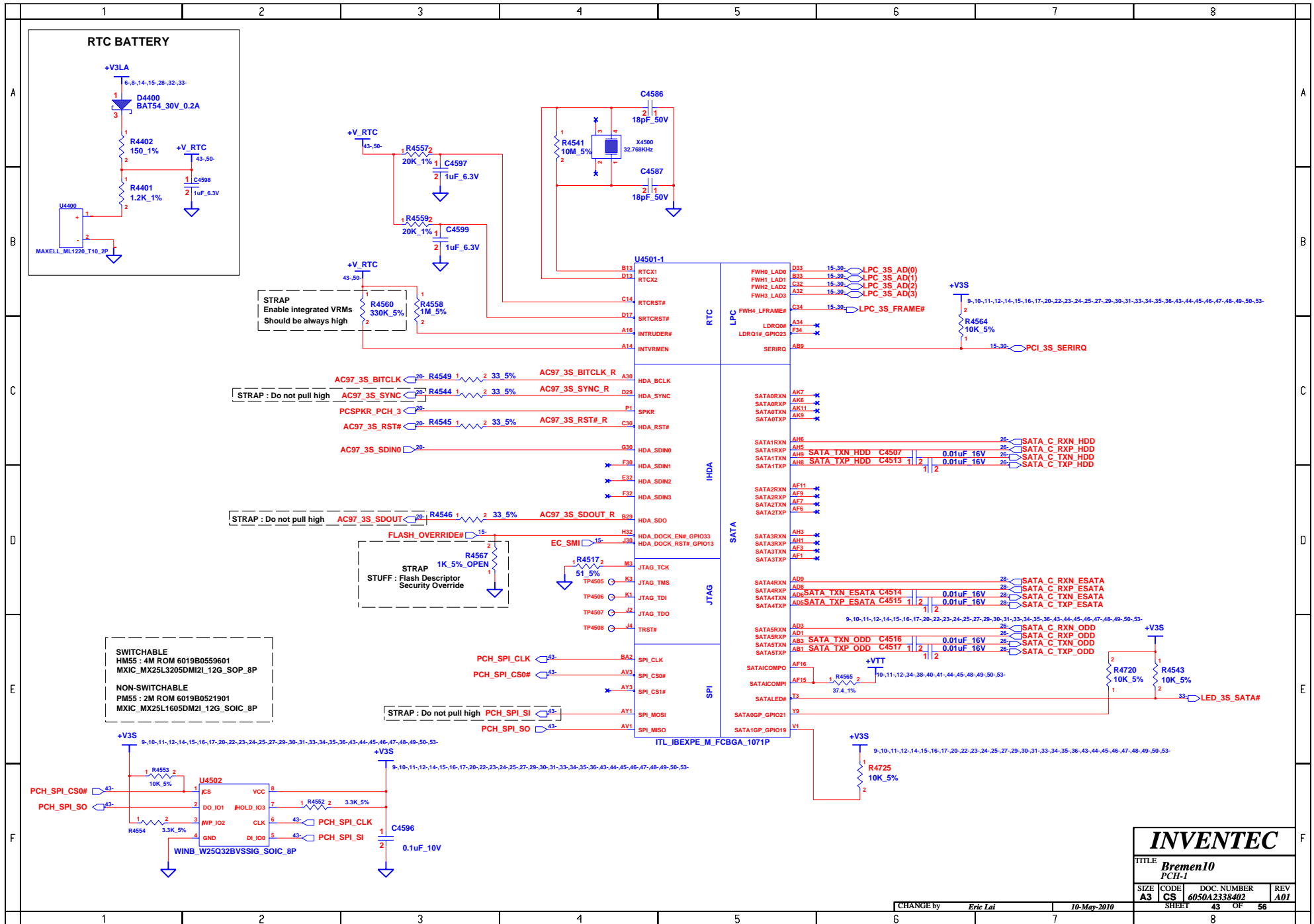
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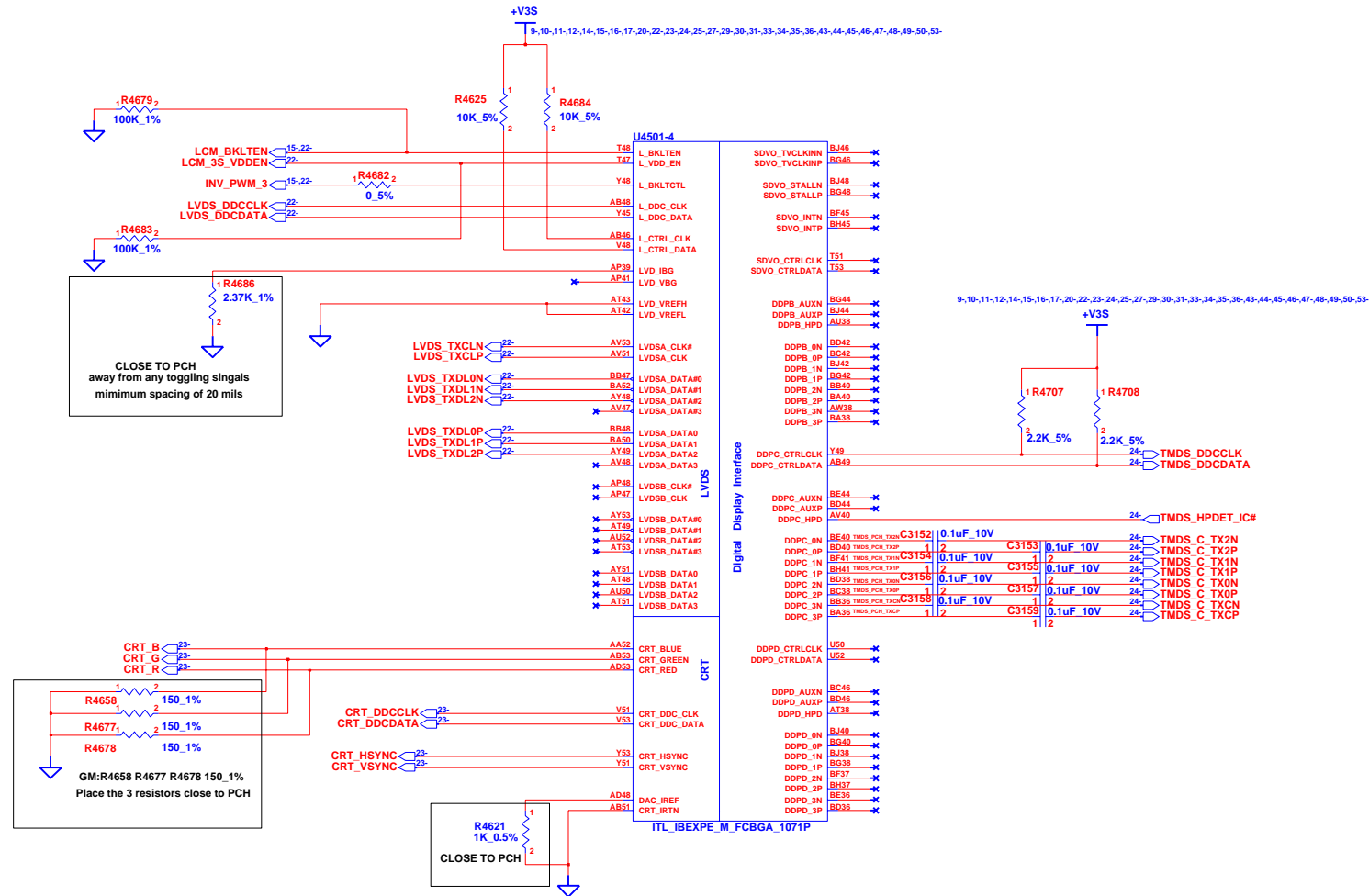
TITLE
Bremen10
CPU-6

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

CHANGE by **Eric Lai** 10-May-2010

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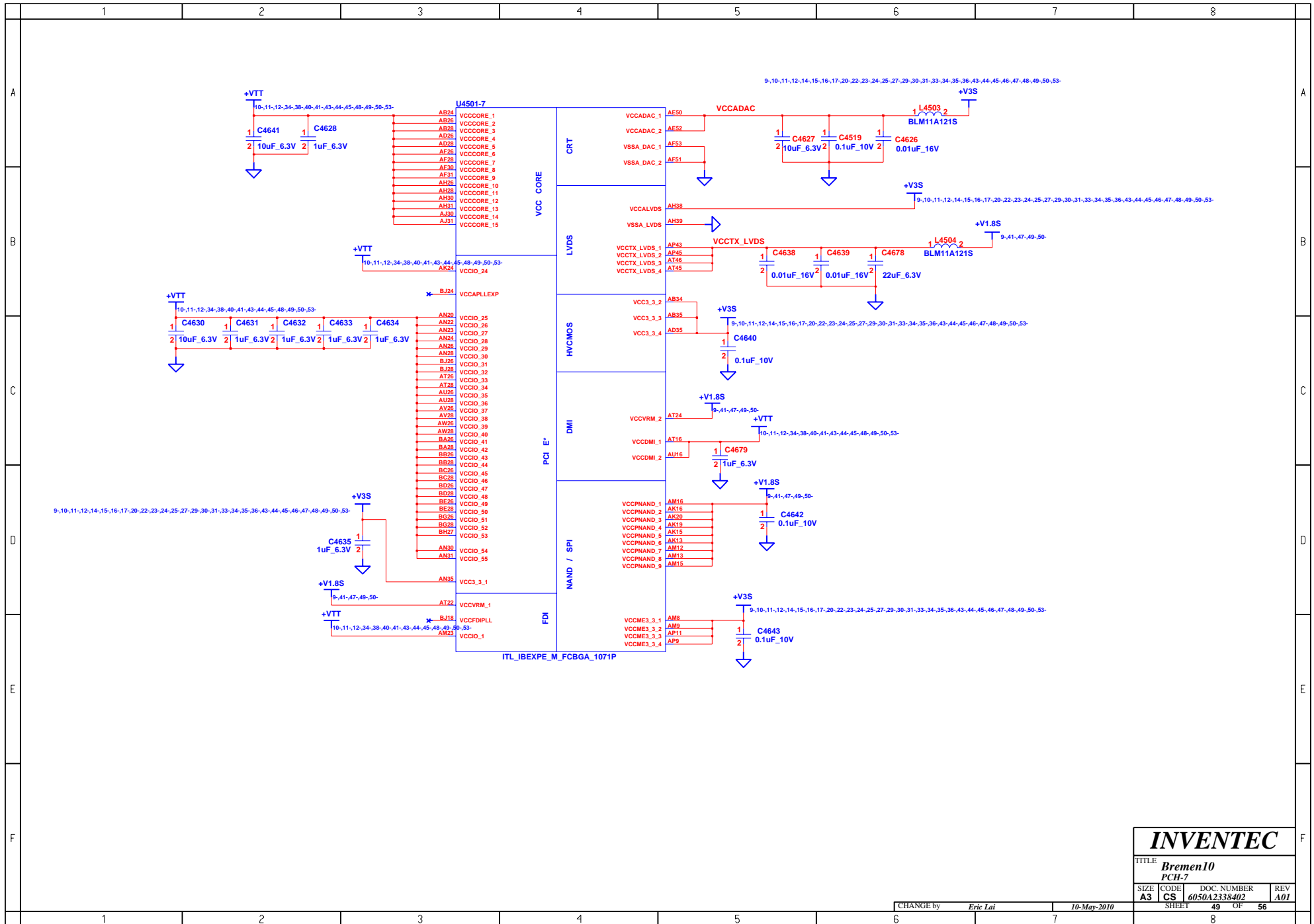
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TITLE
Bremen10
PCH-4

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2338402	A01

CHANGE by **Eric Lai** 10-May-2010

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INVENTEC			
TITLE Bremen10 PCH-7			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by Eric Lai		10-May-2010	
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	1	2	3	4	5	6	7	8		
A										A
B										B
C										C
D										D
E										E
F										F

U4501-9

AB16

VSS_0

AA19

VSS_1

AA20

VSS_2

AA22

VSS_3

AM19

VSS_4

AA24

VSS_5

AA26

VSS_6

AA28

VSS_7

AA30

VSS_8

AA31

VSS_9

AA32

VSS_10

AB11

VSS_11

AB15

VSS_12

AB23

VSS_13

AB30

VSS_14

AB31

VSS_15

AB32

VSS_16

AB39

VSS_17

AB43

VSS_18

AB47

VSS_19

AB5

VSS_20

AB8

VSS_21

AC2

VSS_22

AC52

VSS_23

AD11

VSS_24

AD12

VSS_25

AD16

VSS_26

AD23

VSS_27

AD30

VSS_28

AD31

VSS_29

AD32

VSS_30

AD34

VSS_31

AU22

VSS_32

AD42

VSS_33

AD46

VSS_34

AD49

VSS_35

AD7

VSS_36

AE2

VSS_37

AE4

VSS_38

AF12

VSS_39

Y13

VSS_40

AH49

VSS_41

AU4

VSS_42

AF35

VSS_43

AP13

VSS_44

ANG4

VSS_45

AF45

VSS_46

AF46

VSS_47

AF49

VSS_48

AF5

VSS_49

AF8

VSS_50

AG2

VSS_51

AG52

VSS_52

AH11

VSS_53

AH15

VSS_54

AH16

VSS_55

AH24

VSS_56

AH32

VSS_57

AV18

VSS_58

AH43

VSS_59

AH7

VSS_60

AH7

VSS_61

AJ19

VSS_62

AJ2

VSS_63

AJ20

VSS_64

AJ22

VSS_65

AJ23

VSS_66

AJ26

VSS_67

AJ28

VSS_68

AJ32

VSS_69

AJ34

VSS_70

AT5

VSS_71

AJ4

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AM41

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AM19

VSS_75

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AW52

AY11

AY43

AY47

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AT7

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VSS_160

VSS_161

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VSS_163

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VSS_856

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VSS_859

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VSS_864

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VSS_869

ITL_IBEXPE_M_FCBGA_1071P

ITL_IBEXPE_M_FCBGA_1071P

INVENTEC

TITLE

Bremen10

PCH-9

SIZE

A3

CODE

CS

DOC. NUMBER

6050A2338402

REV

A01

SHEET

51

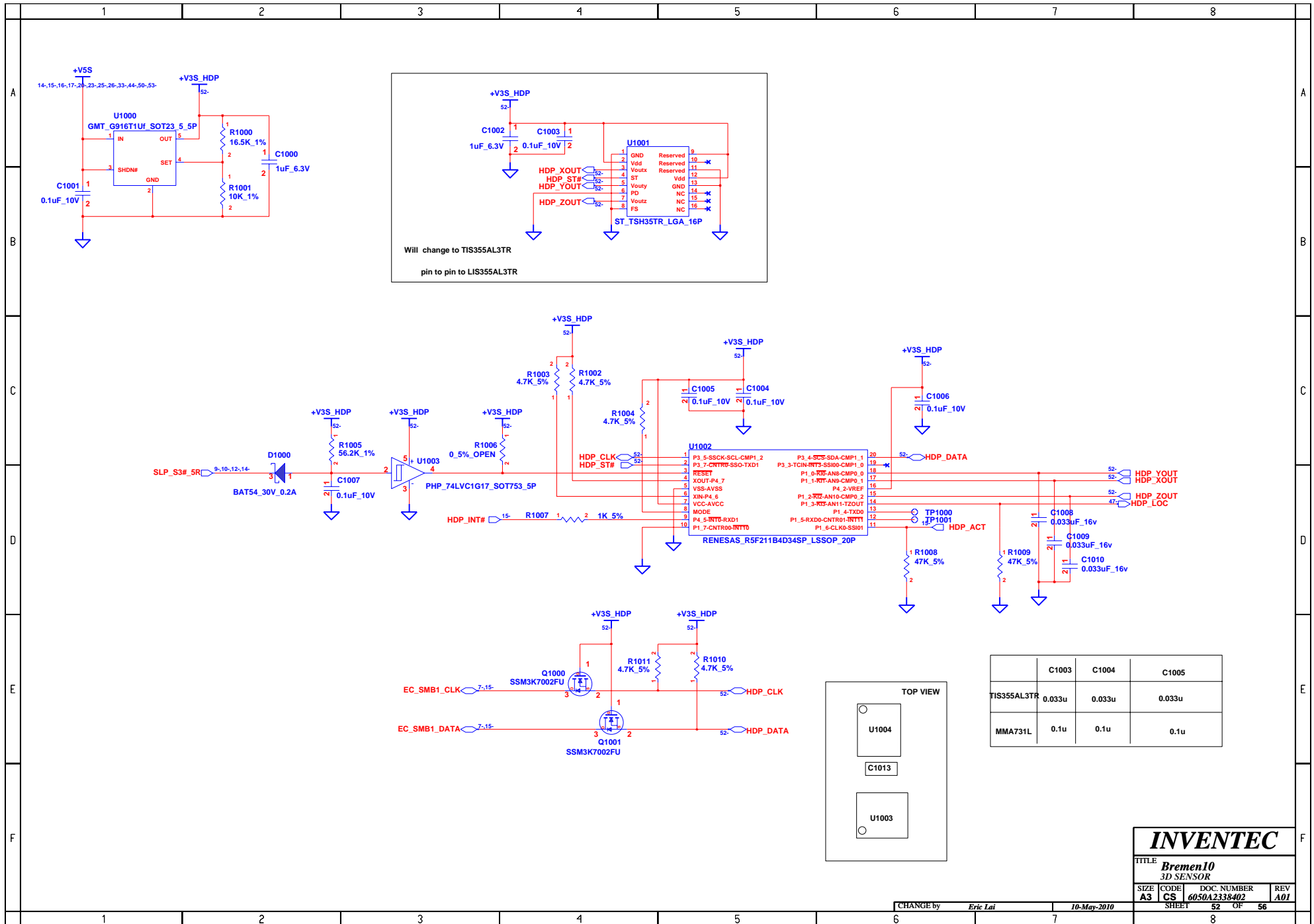
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56

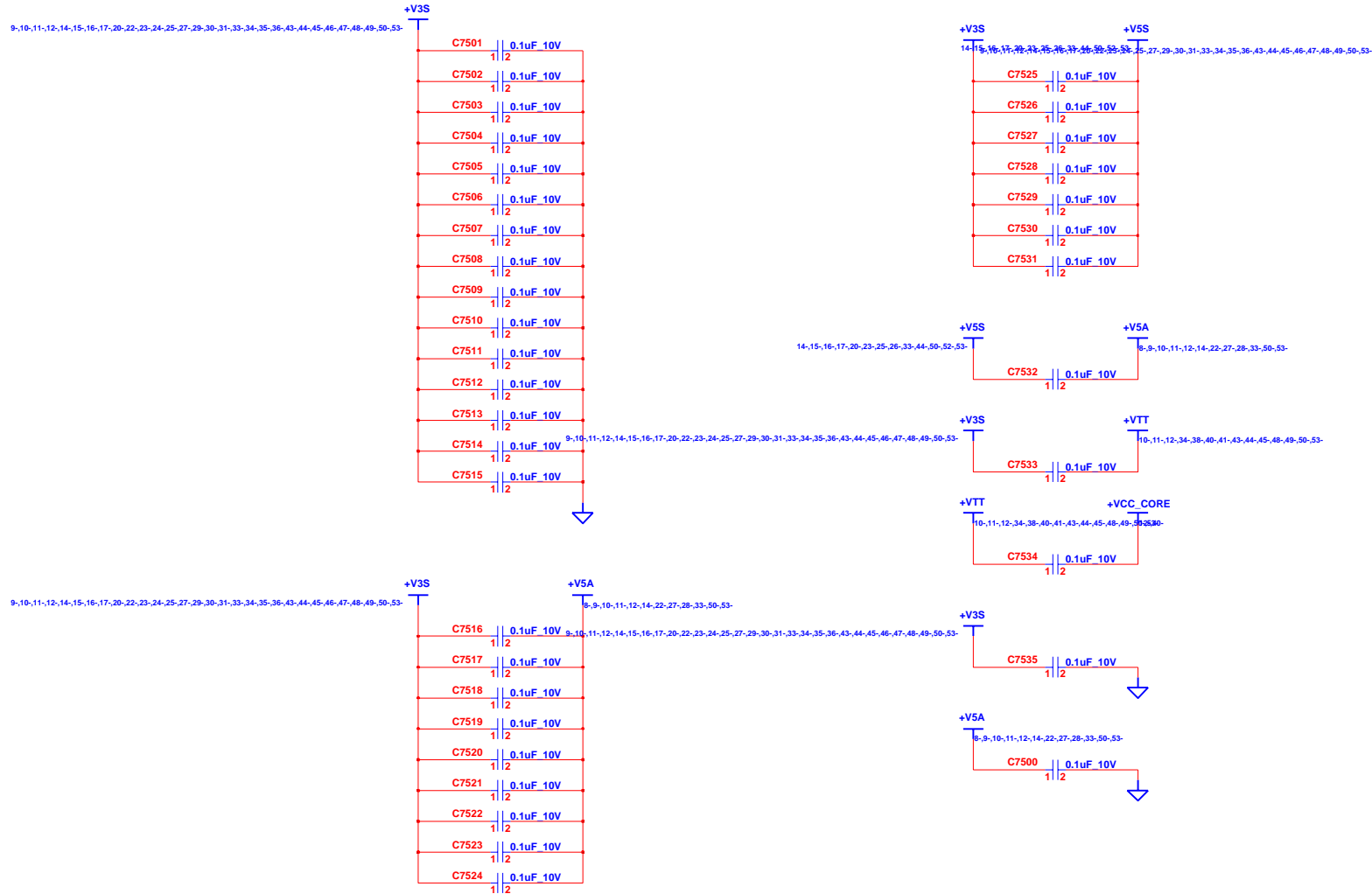
10-May-2010

Eric Lai

CHANGE by

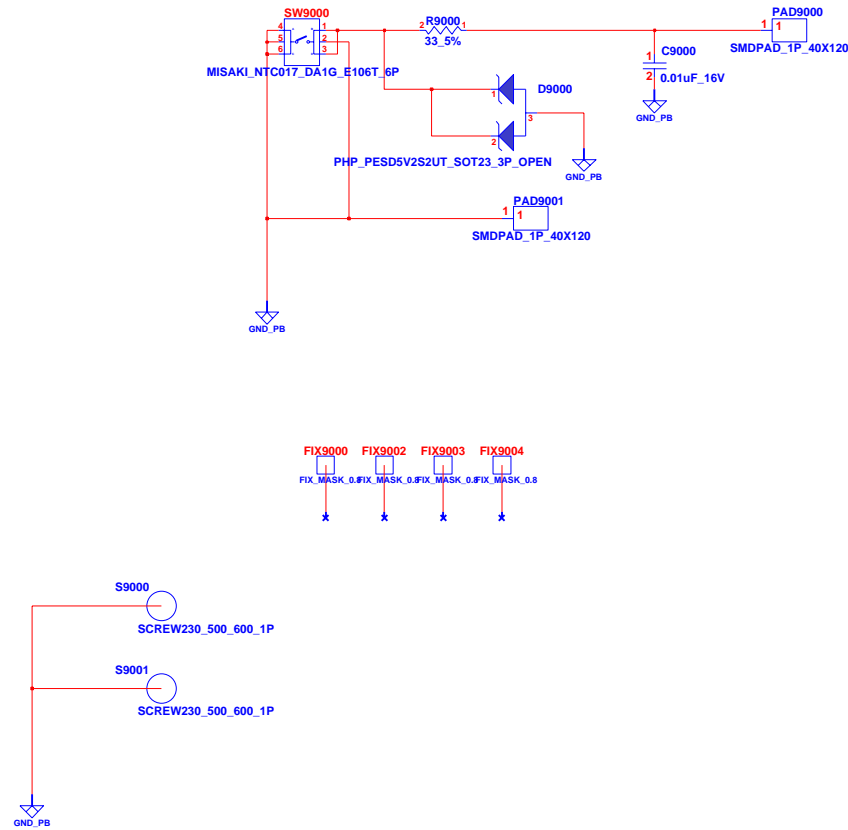


EMI



INVENTEC			
TITLE Bremen10 EMI			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by Eric Lai		10-May-2010	
SHEET		53	OF 56

TOUCH PAD SWITCH BOARD



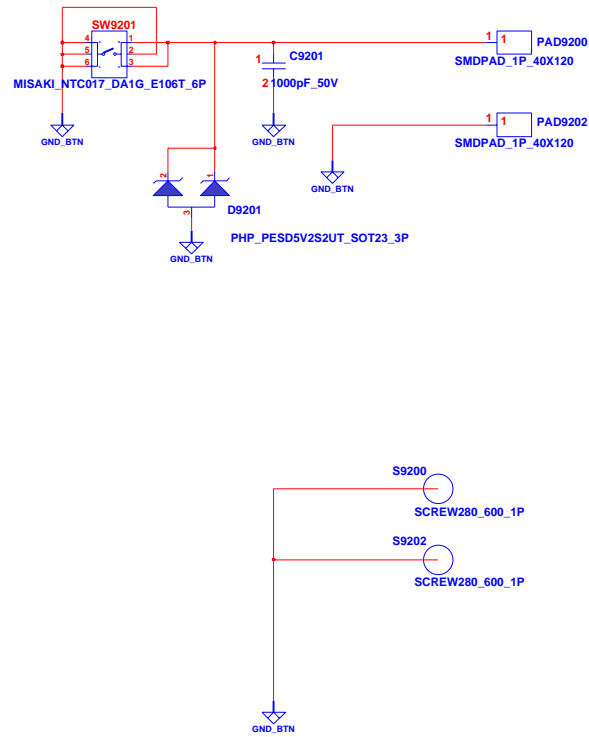
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TITLE Bremen10 TP SWITCH BOARD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
SHEET 54		OF 56	

CHANGE by *Eric Lai* 10-May-2010

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POWER BOARD



INVENTEC

TITLE Bremen10 POWER BOARD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2338402	REV A01
CHANGE by <i>Eric Lai</i>		10-May-2010	
SHEET 55		OF 56	

CARD READER/USB BOARD

