

# BR10ML

## MP Build(A01)

2011.03.14

DRAWER	EE	DATE	POWER	DATE	<b>INVENTEC</b>
DESIGN					
CHECK					
RESPONSIBLE					
TITLE					<b>BR10ML</b>
SIZE =	VER :				SIZE
FILE NAME :					CODE
P/N					SHEET
					1 OF 52
					8

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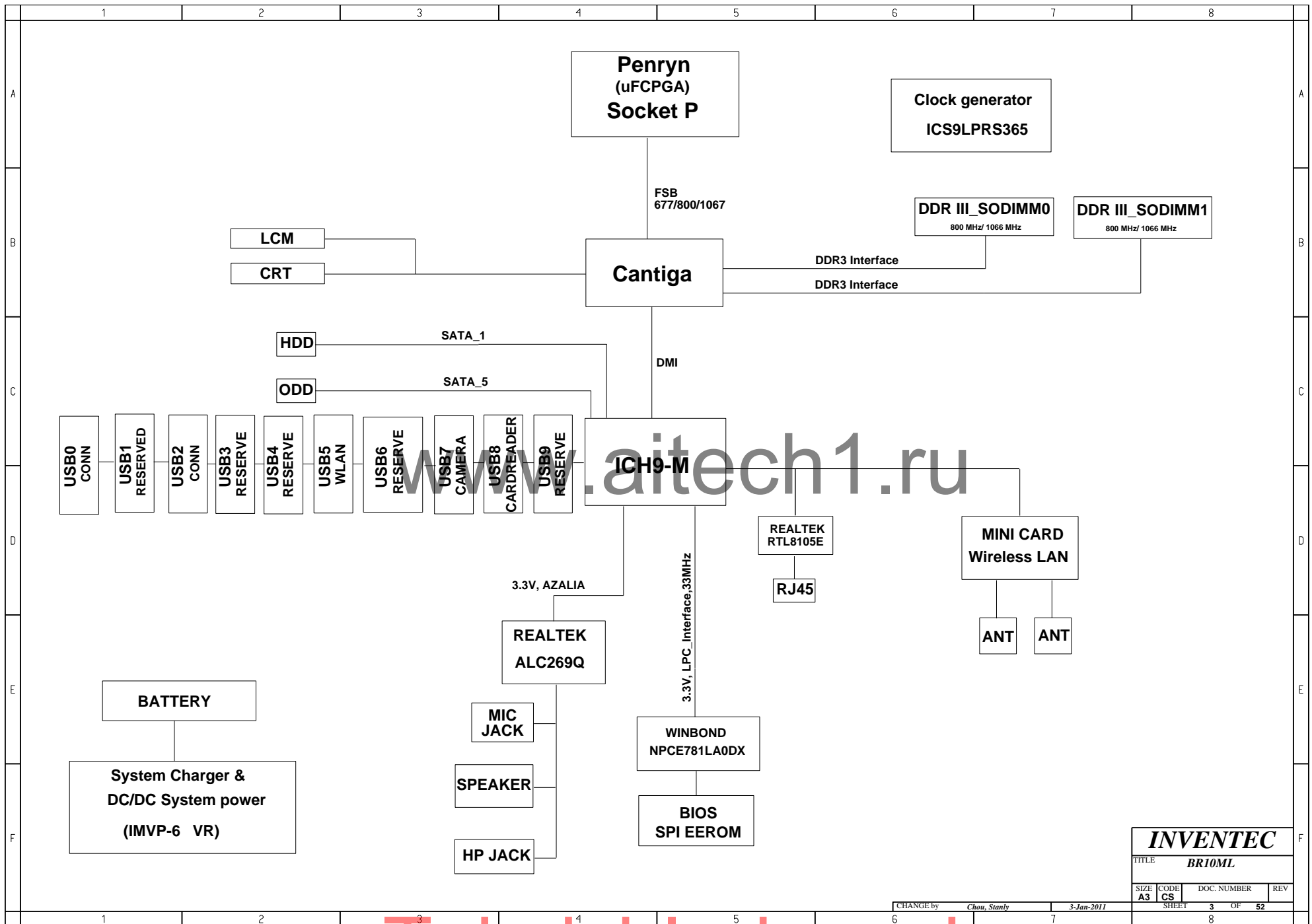
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2.INDEX	32.ICH9-2	
3.BLOCK DIAGRAM	33.ICH9-3	
4.POWER SEQUENCE BLOCK	34.ICH9-4	
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13.CLOCK GENERATOR	36.SATA HDD CONN	
14.PENRYN-1	37.ODD CONN	
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18.FAN & THERMAL CONTROLLER	41.K/B & TP/B CONN	
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**INVENTEC**

TITLE  
**BR10ML**

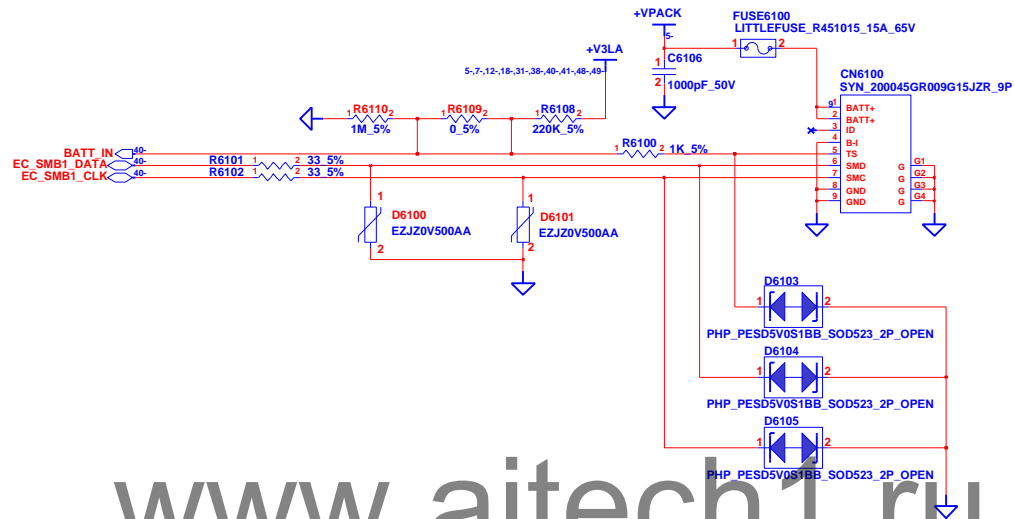
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>2</b>	REV <b>OF 52</b>
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CHANGE by *Chou, Stanley* 24-Dec-2010

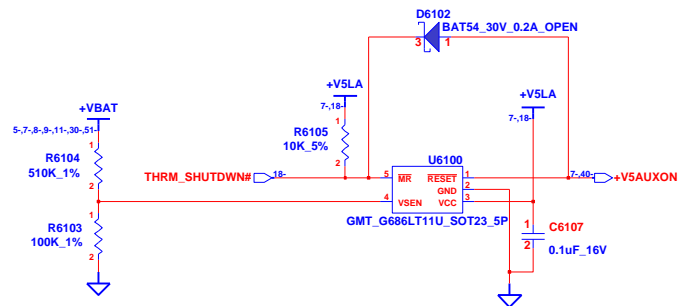








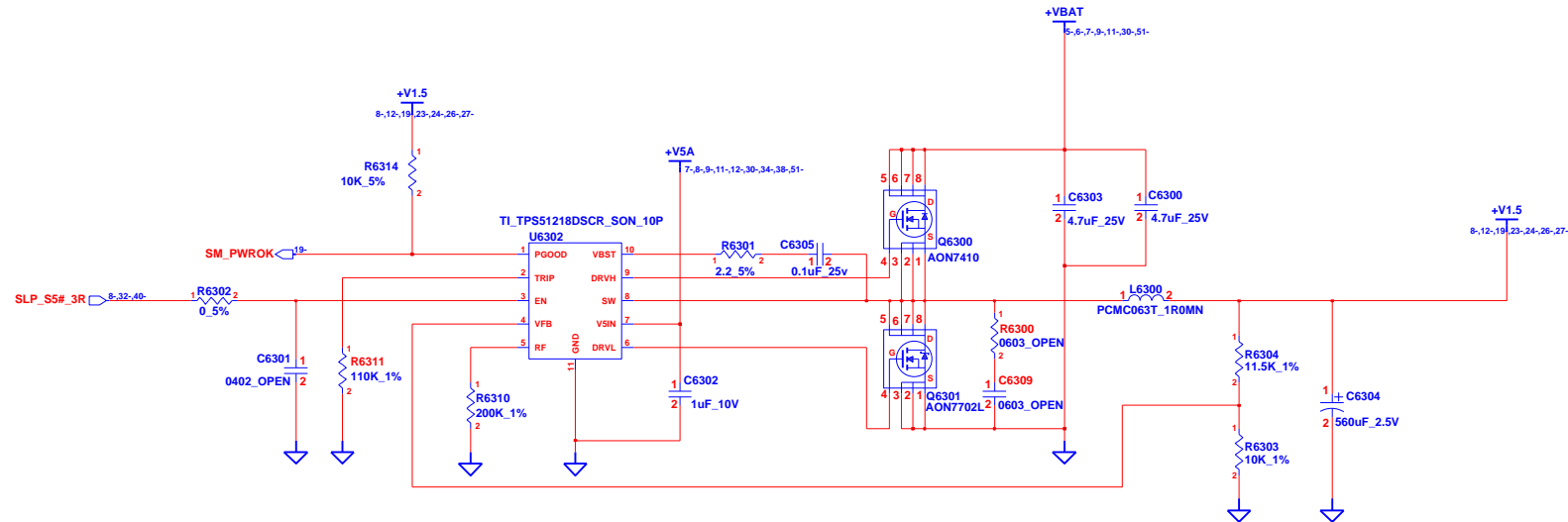
www.aitech1.ru



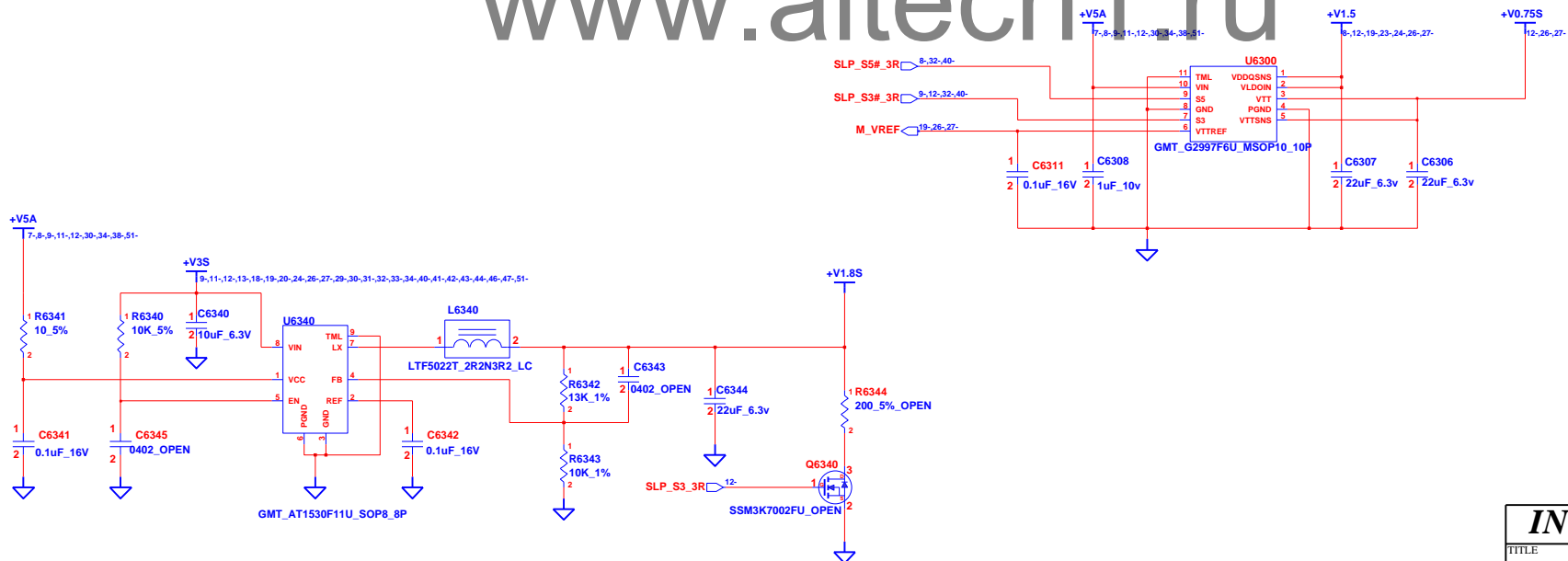
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BR10ML			
SELECT & BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
CHANGE by		9-Dec-2010	
Chou, Stanley			
SHEET		6	OF 52
		8	

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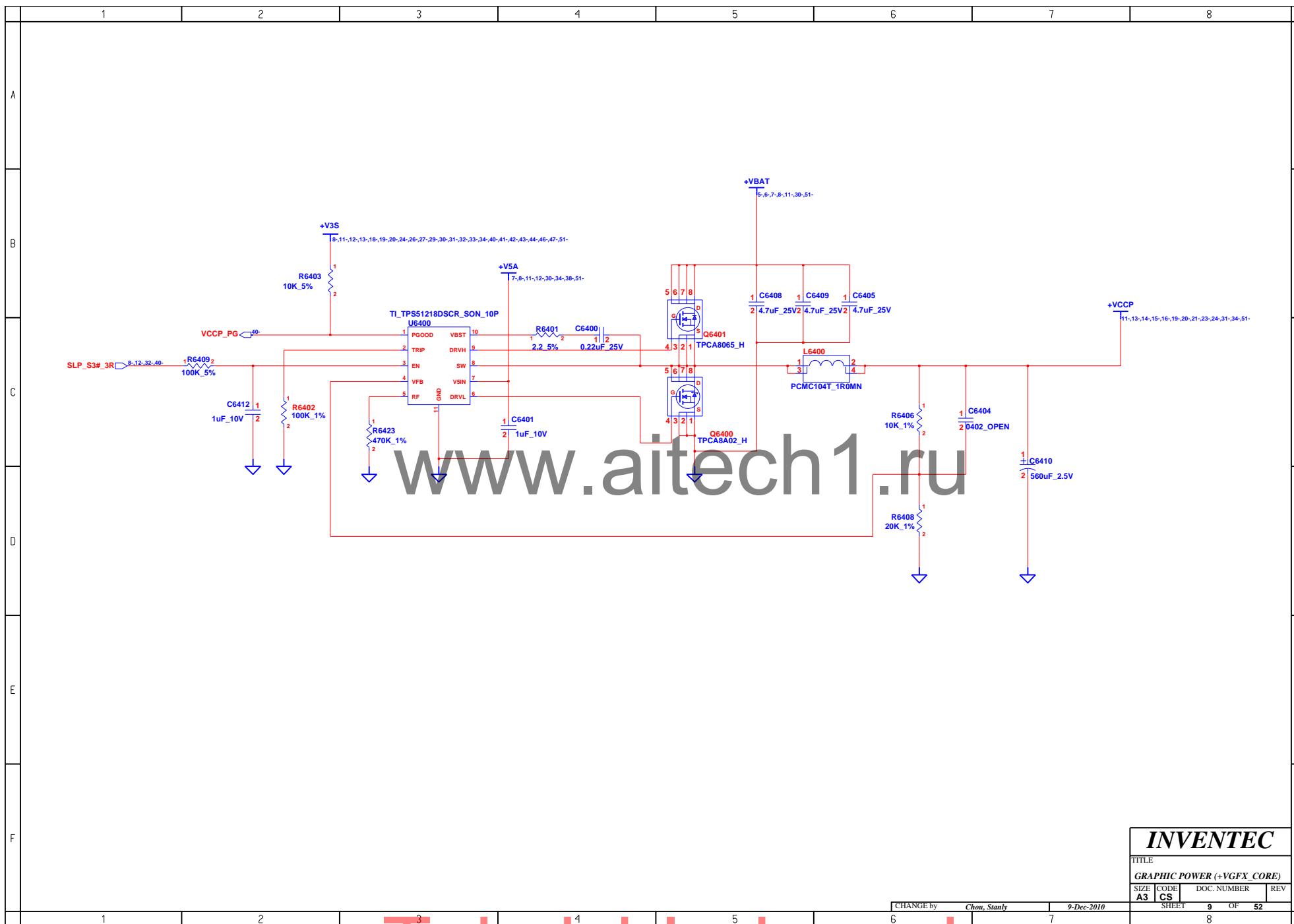
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INVENTEC			
TITLE <b>BR10ML</b>			
SYSTEM POWER(+V1.8/+V1.25S)			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
CHANGE by <i>Chou, Stanley</i>		SHEET <b>8</b>	OF <b>52</b>
9-Dec-2010		8	

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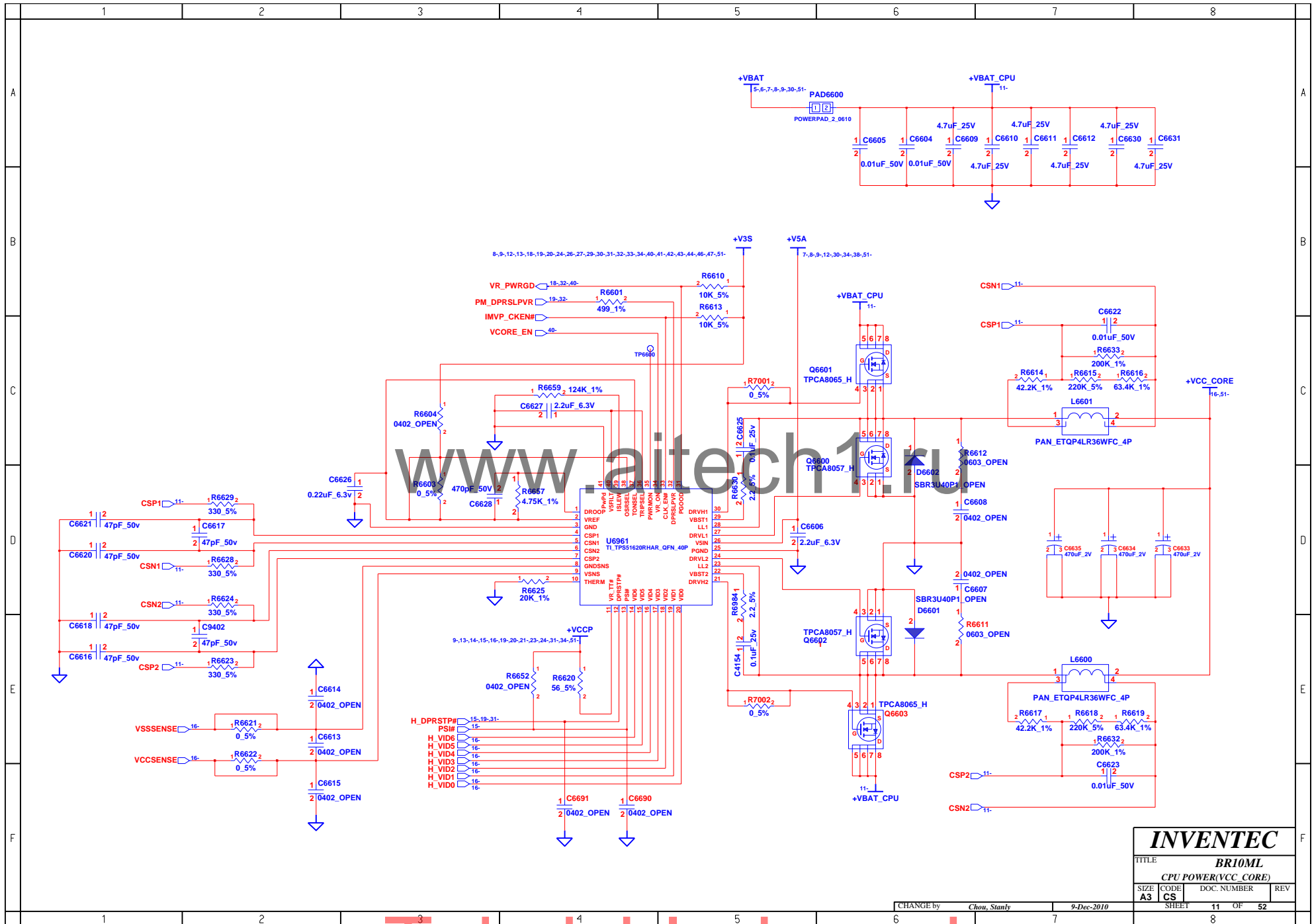


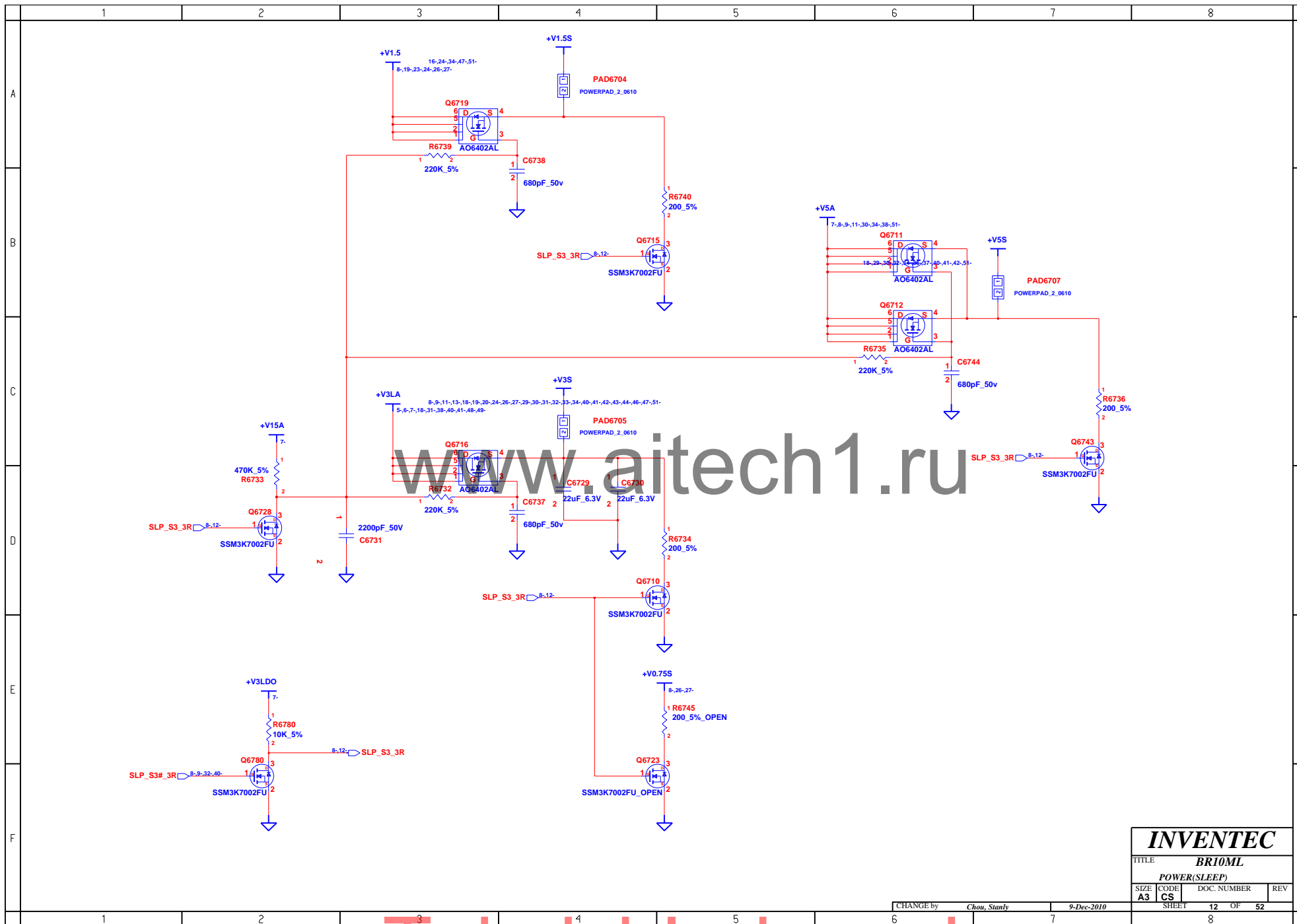
INVENTEC			
TITLE			
GRAPHIC POWER (+VGF_X_CORE)			
SIZE A3	CODE CS	DOC. NUMBER	REV
CHANGE by Chou, Stanley		9-Dec-2010	SHEET 9 OF 52
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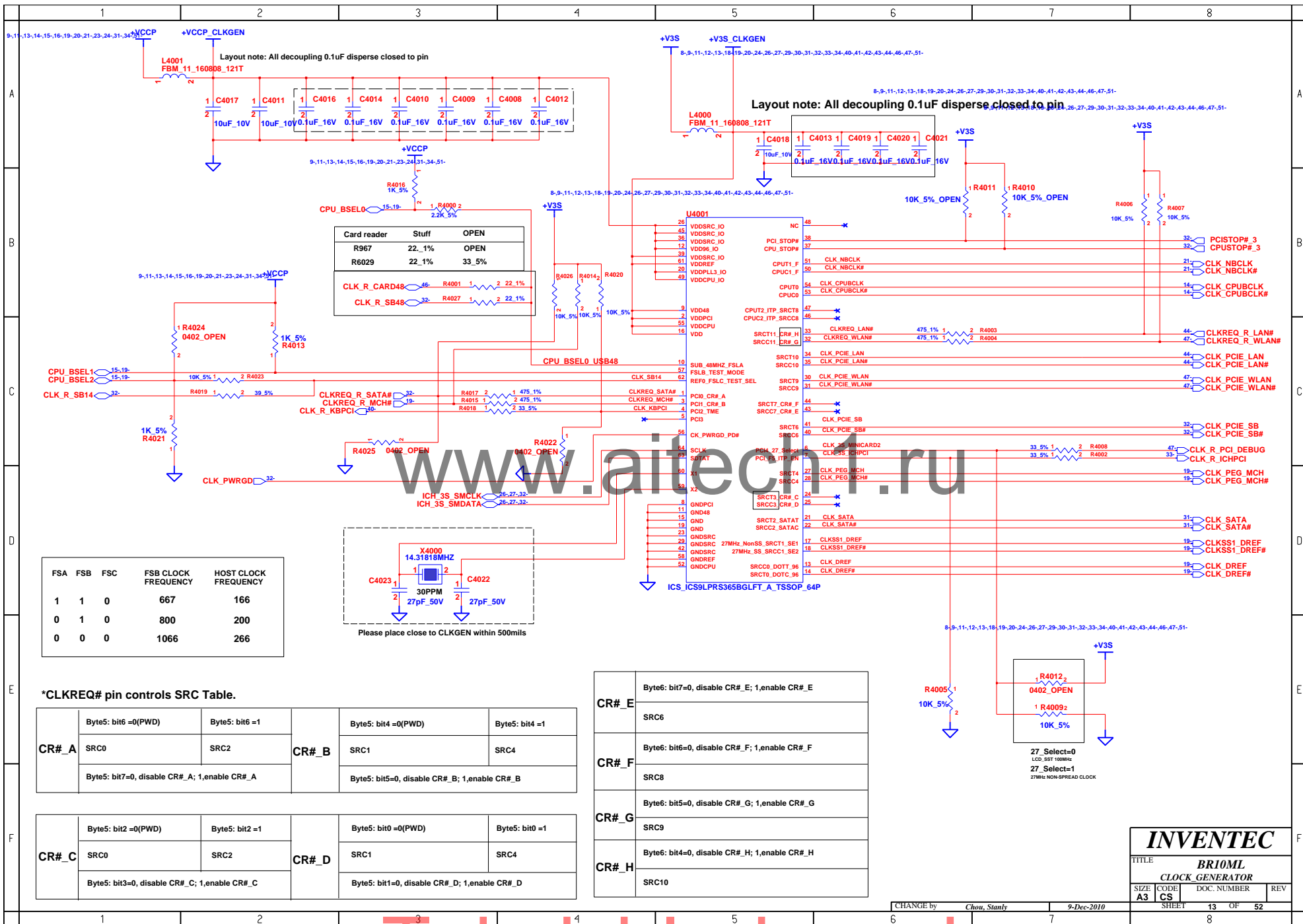
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A									A
B									B
C									C
D									D
E									E
F									F
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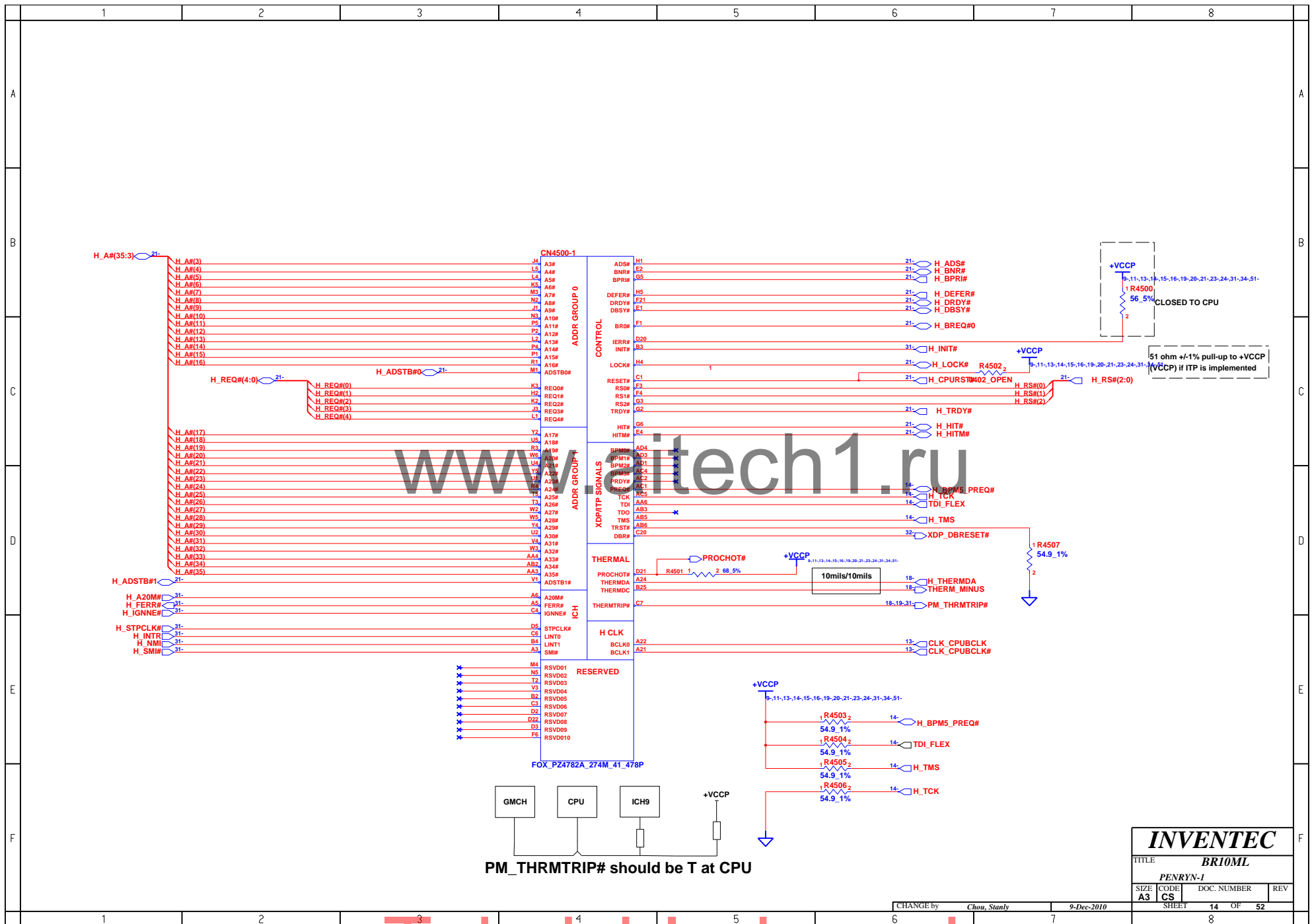
www.**BLANK**ch1.ru

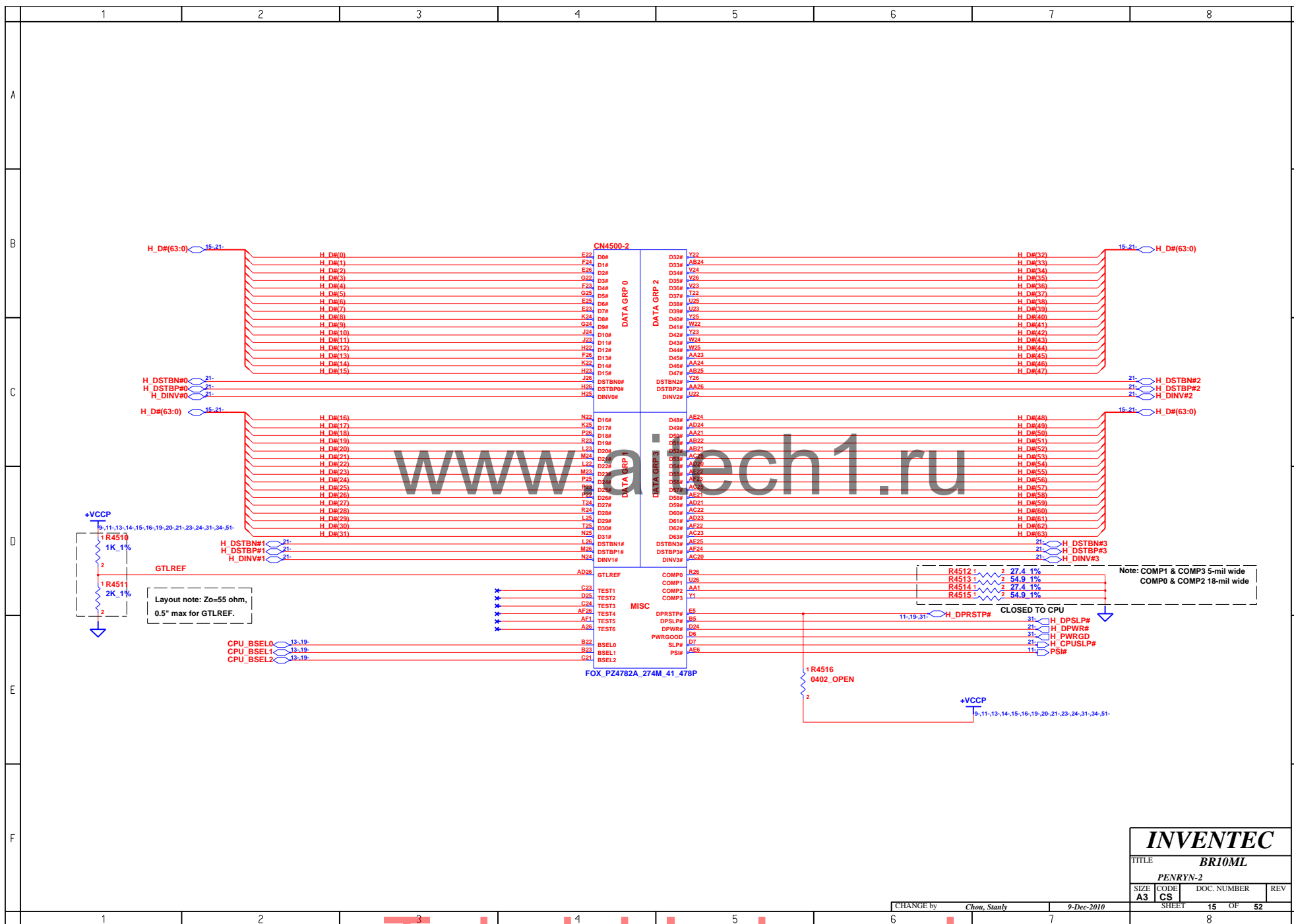
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TITLE <b>BRI0ML</b>			
SYSTEM POWER(+VCCP/+V1.5S)			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET <b>10</b> OF <b>52</b>			

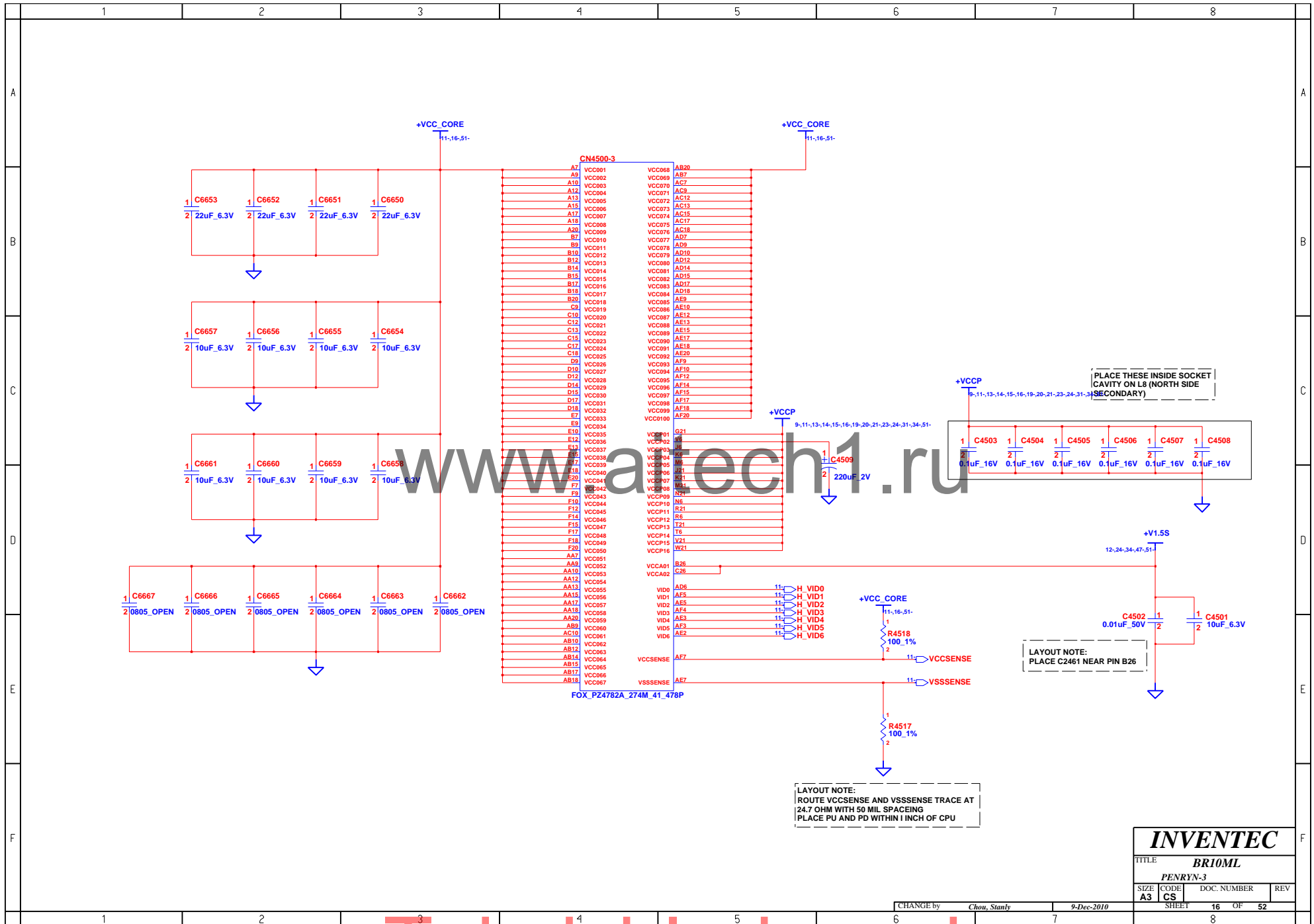






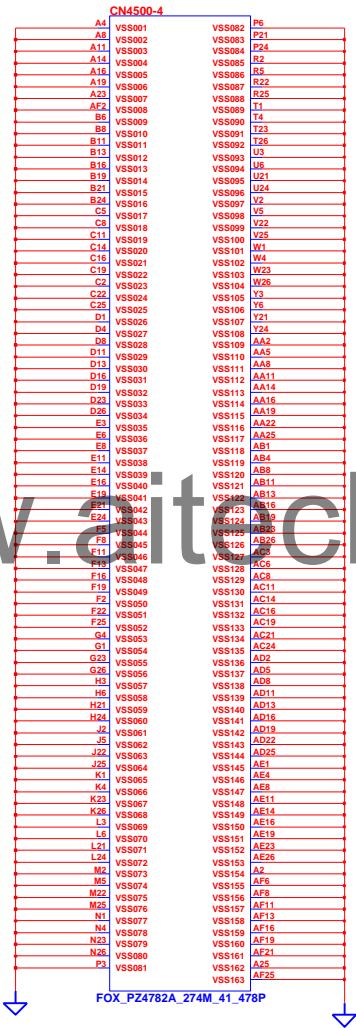






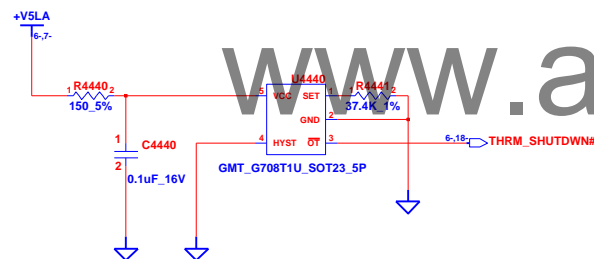


	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

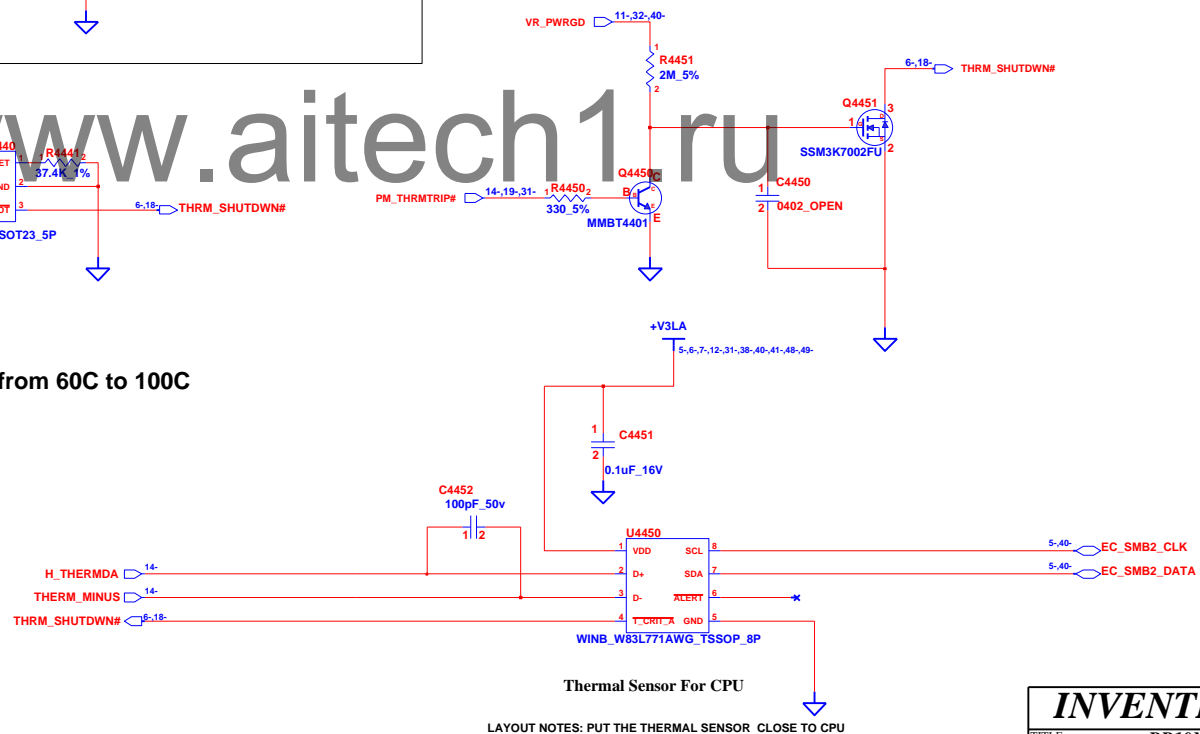


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TITLE <b>BR10ML</b>			
PENRYN-4			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		17	OF 52

CHANGE by *Chou, Stanley* 9-Dec-2010


$$RSET = 0.0012 \cdot T^2 - 0.9308 \cdot T + 96.147$$

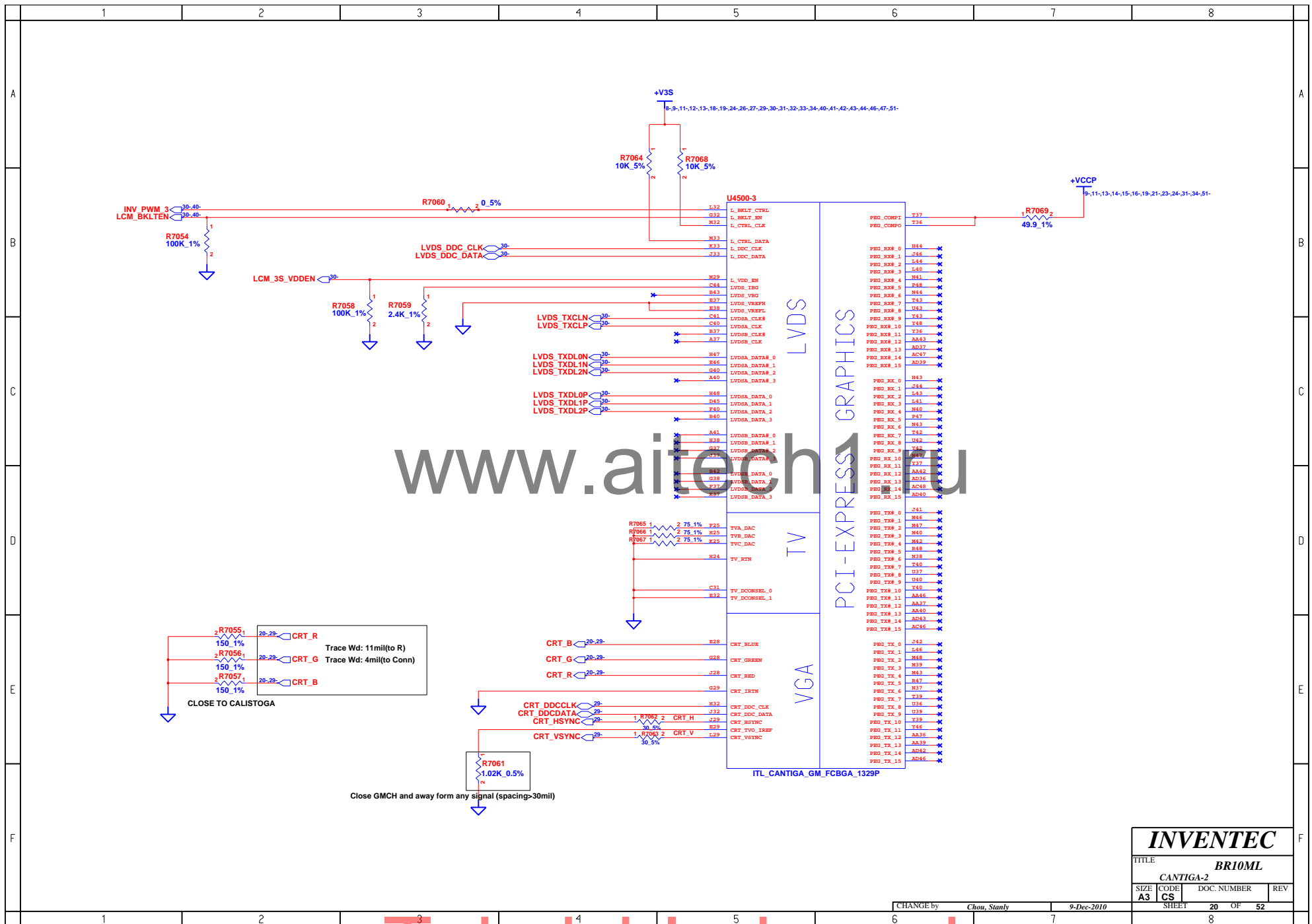
**Hysteresis is 30C**



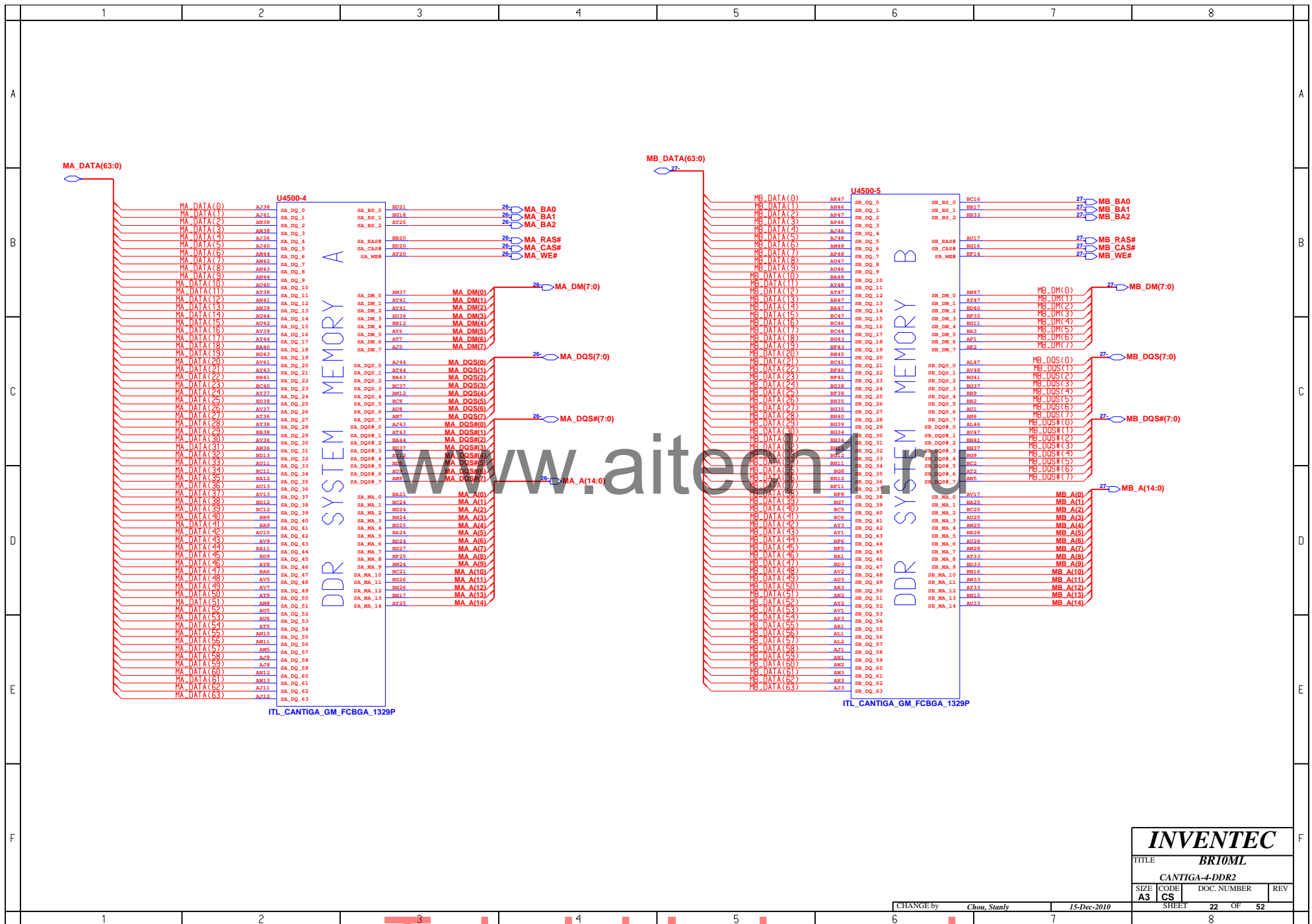
LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

<b>INVENTEC</b>			
TITLE		<b>BR10ML</b>	
<b>THERMAL&amp;FAN CONTROLLER</b>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		18	OF 52
8			









**INVENTEC**

TITLE **BRIOML**

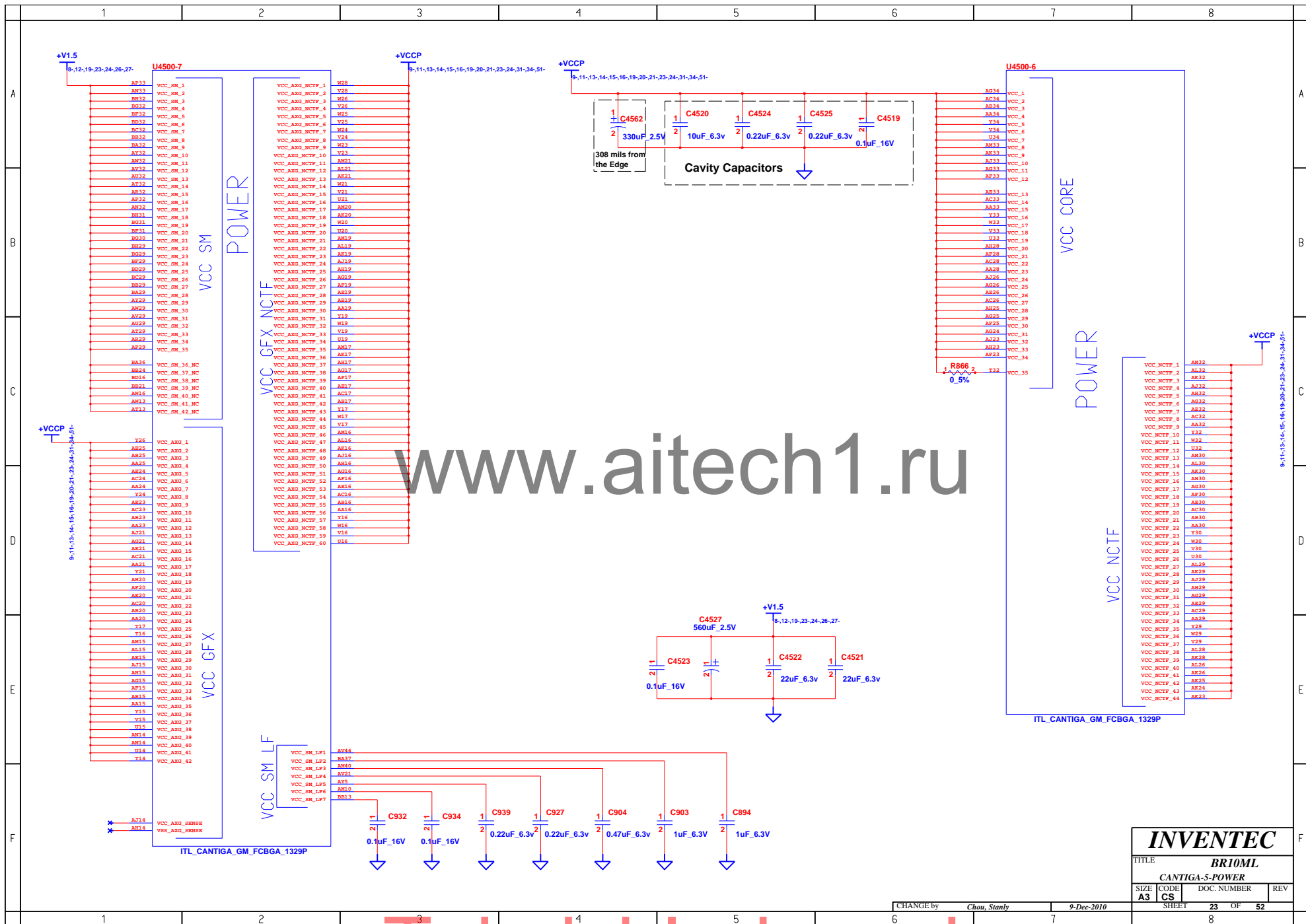
CANTIGA-4-DDR2

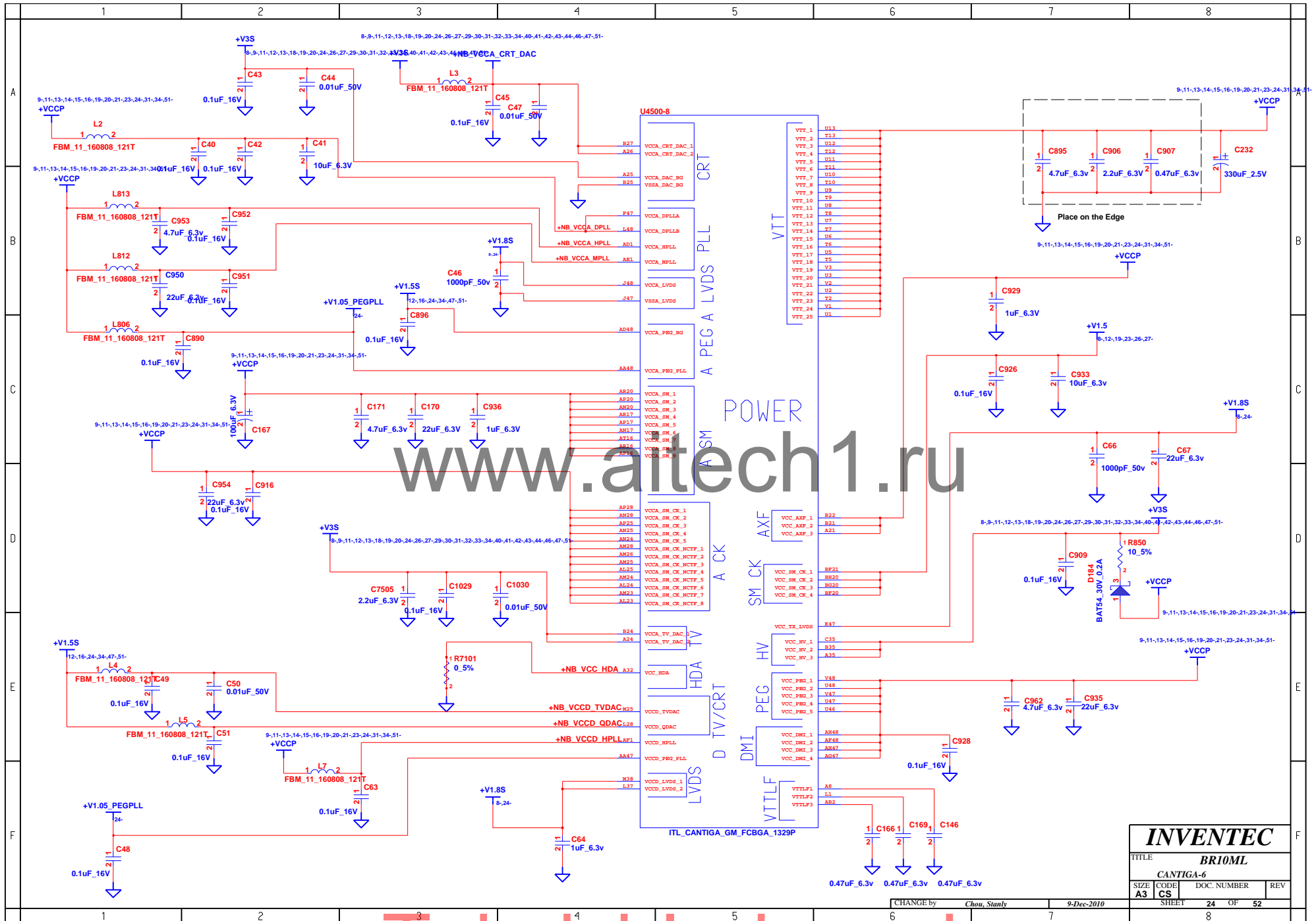
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
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CHANGE by **Chou, Stanley** 15-Dec-2010

SHEET 22 OF 52

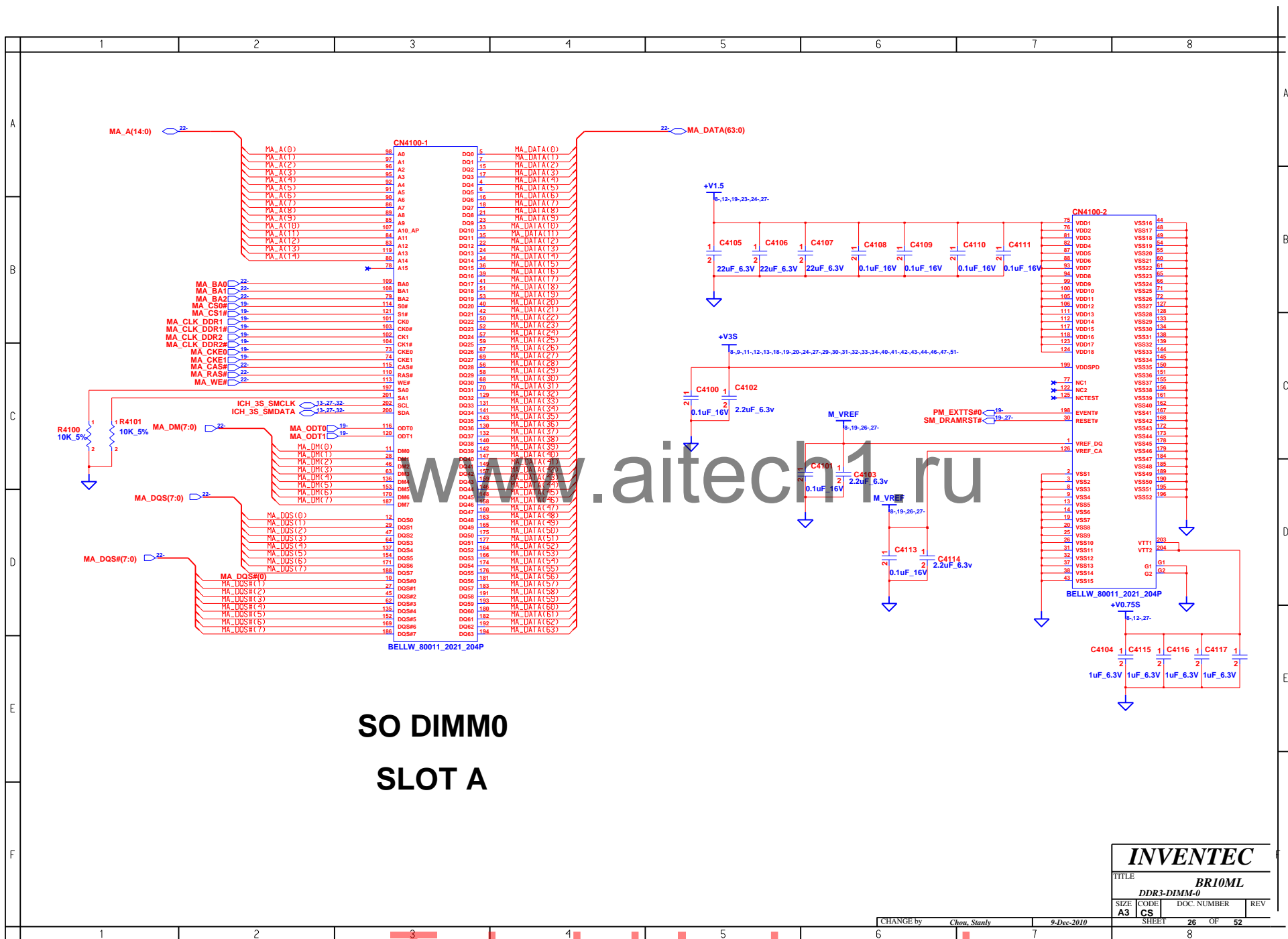
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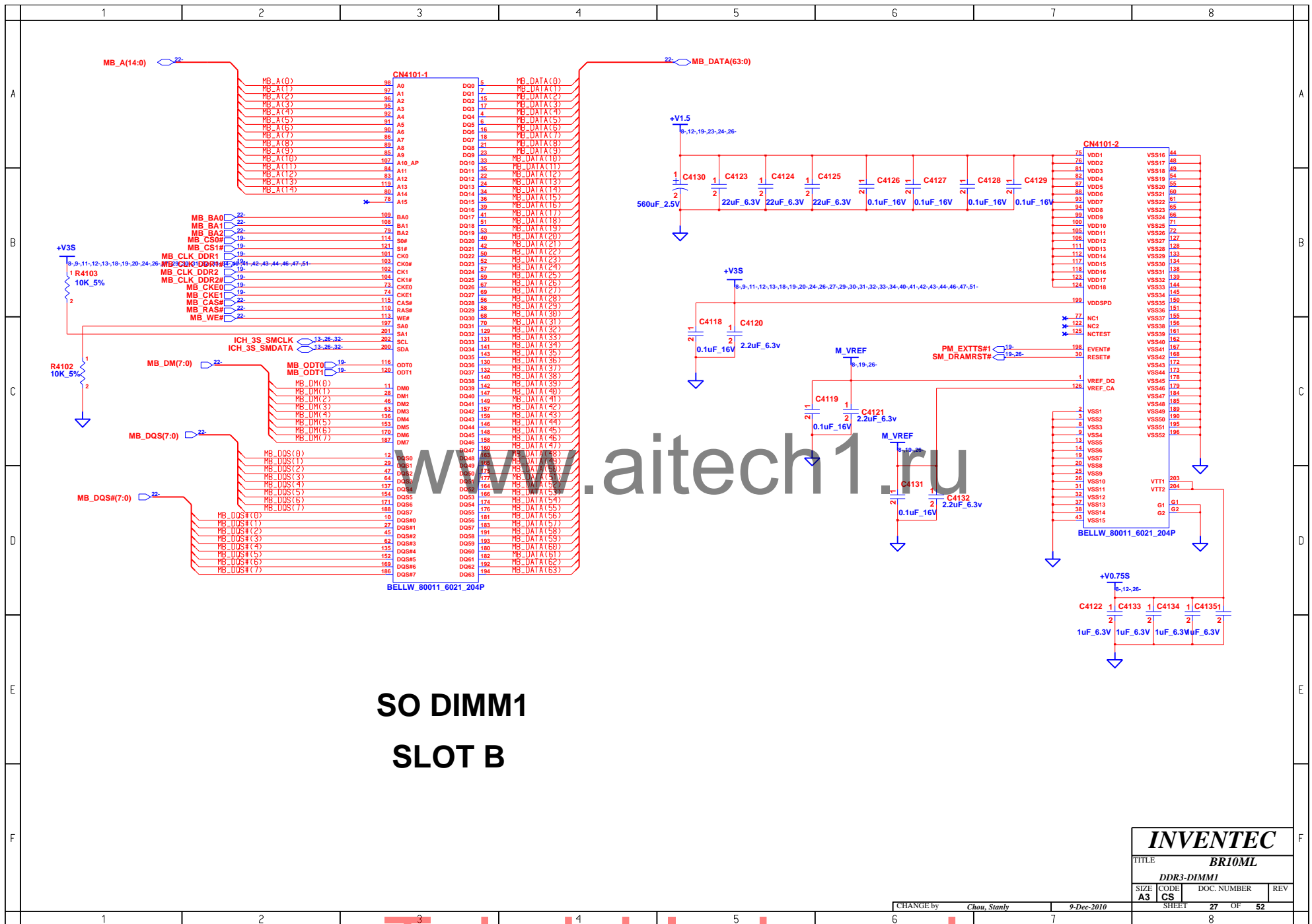












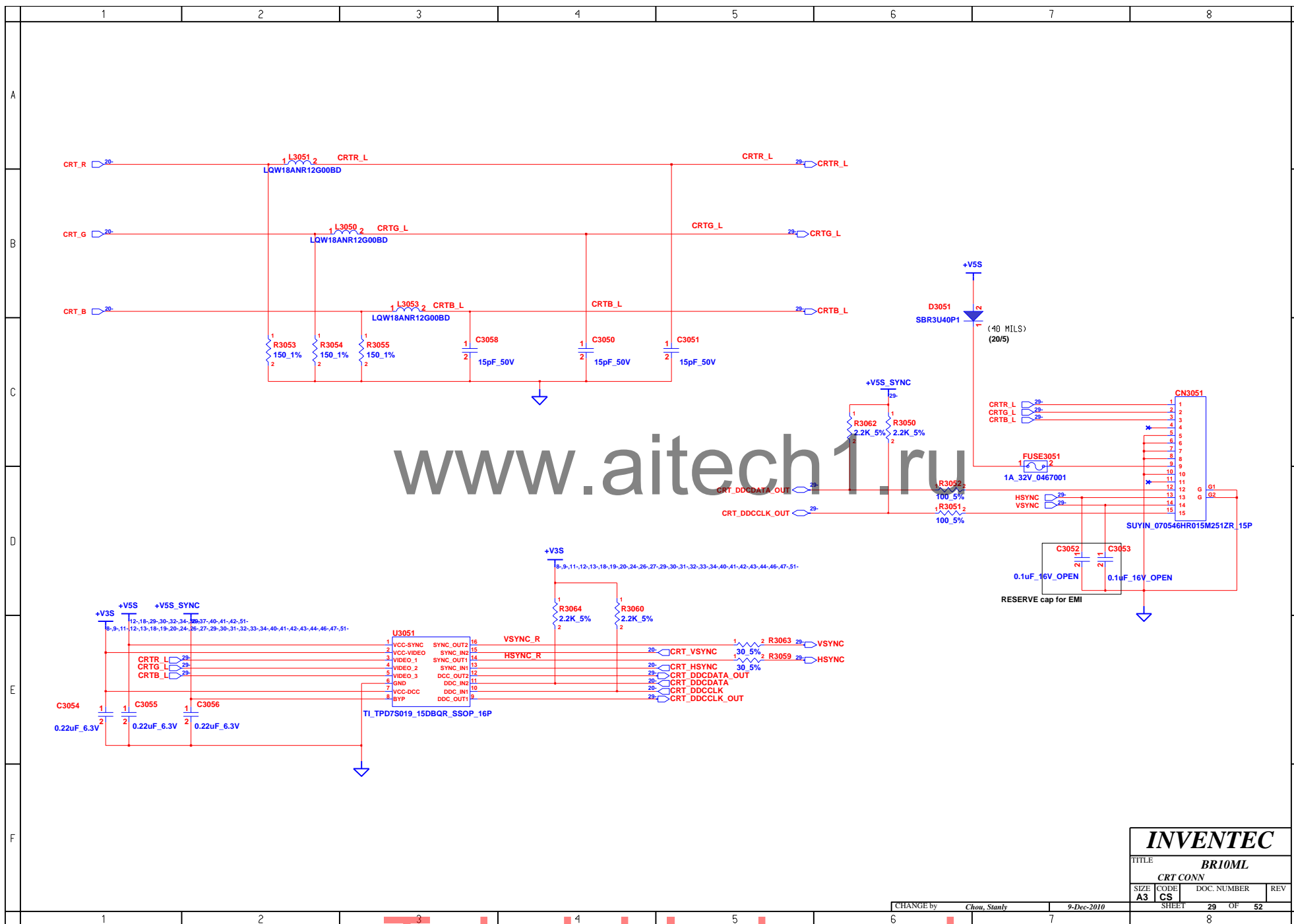
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A									A
B									B
C									C
D									D
E									E
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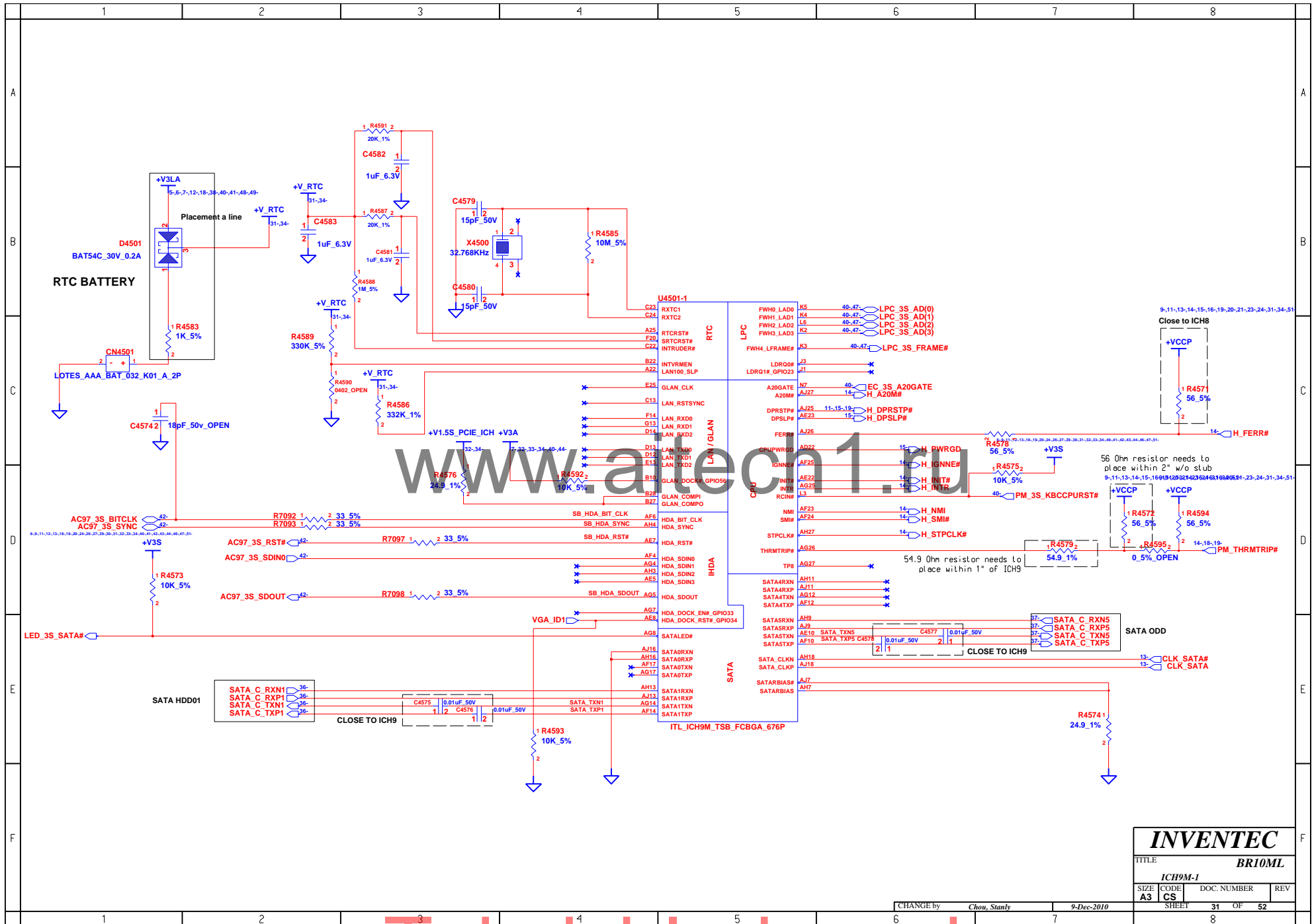
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TITLE <i>Calcutta 10ML</i>			
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SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		28	OF 52

CHANGE by *Chou, Stanley* 27-Sep-2003



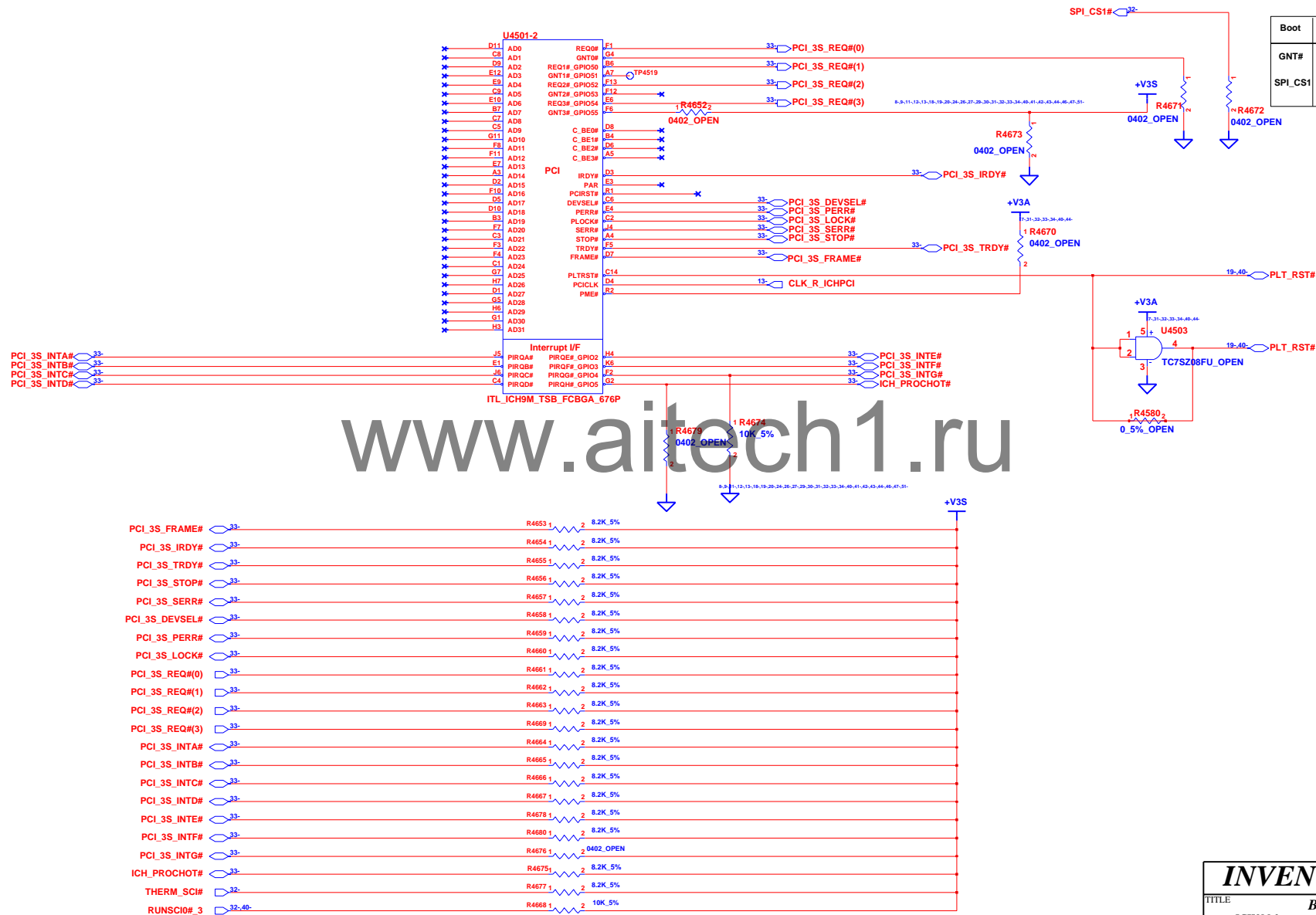
INVENTEC			
TITLE BR10ML			
CRT CONN			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET		29	OF 52











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INVENTEC			
TITLE BR10ML			
ICH9M-3			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET		33	OF 52

CHANGE by Chou, Stanley 9-Dec-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

U4501-5

AA26 VSS001

AA27 VSS002

AA28 VSS003

AA29 VSS004

AB1 VSS005

AA23 VSS006

AB26 VSS007

AB25 VSS008

AB4 VSS009

AB5 VSS010

AC17 VSS011

AC25 VSS012

AC27 VSS013

AC3 VSS014

AD1 VSS015

AD10 VSS016

AD12 VSS017

AD13 VSS018

AD14 VSS019

AD17 VSS020

AD18 VSS021

AD21 VSS022

AD25 VSS023

AD23 VSS024

AD4 VSS025

AD5 VSS026

AD6 VSS027

AD7 VSS028

AD9 VSS029

AE13 VSS030

AE13 VSS031

AE14 VSS032

AE16 VSS033

AE17 VSS034

AE3 VSS035

AE20 VSS036

AE24 VSS037

AE3 VSS038

AE4 VSS039

AE5 VSS040

AE9 VSS041

AF13 VSS042

AF16 VSS043

AF18 VSS044

AF24 VSS045

AH26 VSS046

AF28 VSS047

AF27 VSS048

AF3 VSS049

AF7 VSS050

AF9 VSS051

AG13 VSS052

AG14 VSS053

AG15 VSS054

AG20 VSS055

AG23 VSS056

AG3 VSS057

AG5 VSS058

AG9 VSS059

AH12 VSS060

AH14 VSS061

AH17 VSS062

AH19 VSS063

AH2 VSS064

AH22 VSS065

AH23 VSS066

AH28 VSS067

AH5 VSS068

AH6 VSS069

AJ12 VSS070

AJ14 VSS071

AJ17 VSS072

AJ8 VSS073

B11 VSS074

B14 VSS075

B17 VSS076

B5 VSS077

B20 VSS078

B23 VSS079

B5 VSS080

B5 VSS081

C26 VSS082

C27 VSS083

E11 VSS084

E14 VSS085

E18 VSS086

E2 VSS087

E21 VSS088

E24 VSS089

E5 VSS090

EA VSS091

F16 VSS092

F28 VSS093

F29 VSS094

G12 VSS095

G14 VSS096

G19 VSS097

G21 VSS098

G24 VSS099

G25 VSS100

G27 VSS101

H3 VSS102

H28 VSS103

H28 VSS104

H28 VSS105

H28 VSS106

VSS107 H5

VSS108 J23

VSS109 J26

VSS110 J27

VSS111 AC22

VSS112 K28

VSS113 K29

VSS114 L13

VSS115 L15

VSS116 L2

VSS117 L26

VSS118 L27

VSS119 L5

VSS120 L7

VSS121 M12

VSS122 M13

VSS123 M14

VSS124 M15

VSS125 M16

VSS126 M17

VSS127 M23

VSS128 M28

VSS129 M29

VSS130 N11

VSS131 N12

VSS132 N13

VSS133 N14

VSS134 N15

VSS135 N16

VSS136 N17

VSS137 N18

VSS138 N26

VSS139 N27

VSS140 P12

VSS141 P13

VSS142 P14

VSS143 P15

VSS144 P16

VSS145 P17

VSS146 P2

VSS147 P23

VSS148 P28

VSS149 P29

VSS150 P4

VSS151 P7

VSS152 R11

VSS153 R12

VSS154 R13

VSS155 R14

VSS156 R15

VSS157 R16

VSS158 R17

VSS159 R26

VSS160 R28

VSS161 T12

VSS162 T13

VSS163 T14

VSS164 T15

VSS165 T16

VSS166 T17

VSS167 T23

VSS168 B26

VSS169 U12

VSS170 U13

VSS171 U14

VSS172 U15

VSS173 U16

VSS174 U17

VSS175 AD23

VSS176 U26

VSS177 U27

VSS178 U3

VSS179 V1

VSS180 V13

VSS181 V15

VSS182 V23

VSS183 V28

VSS184 V29

VSS185 V4

VSS186 V5

VSS187 W26

VSS188 W27

VSS189 W3

VSS190 Y1

VSS191 Y28

VSS192 Y29

VSS193 Y4

VSS194 Y5

VSS195 AG28

VSS196 AH6

VSS197 AF2

VSS198 B28

VSS\_NCTF1 A1

VSS\_NCTF2 A2

VSS\_NCTF3 A28

VSS\_NCTF4 A29

VSS\_NCTF5 AH1

VSS\_NCTF6 AH28

VSS\_NCTF7 AJ1

VSS\_NCTF8 AJ2

VSS\_NCTF9 AJ28

VSS\_NCTF10 B1

VSS\_NCTF11 AJ29

VSS\_NCTF12 B29

ITL ICH9M\_TSB\_FCBGA\_676P

CHANGE by

Chou, Stanley

9-Dec-2010

SIZE

A3

CODE

CS

DOC. NUMBER

SHEET

35

OF

52

REV

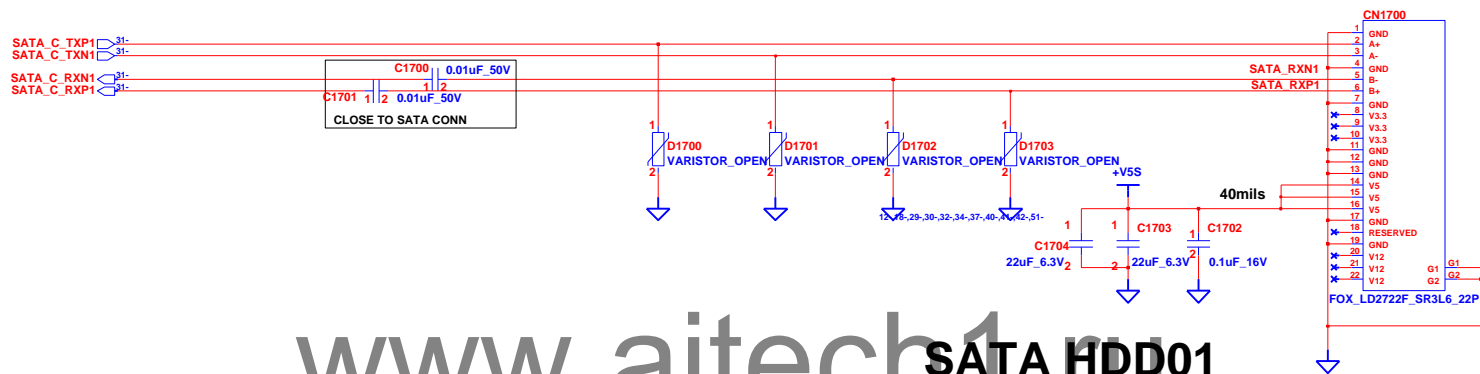
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INVENTEC

TITLE

BR10ML

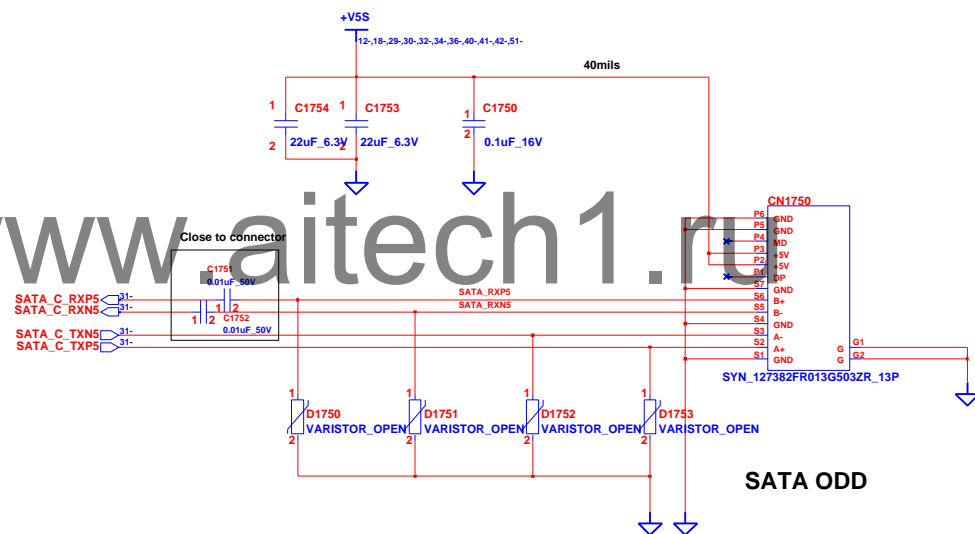
ICH9M-5



www.aitech1.ru SATA HDD01

INVENTEC			
TITLE			
HDD CONN BR10ML			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 36 OF 52	

CHANGE by Chou, Stanley 9-Dec-2010



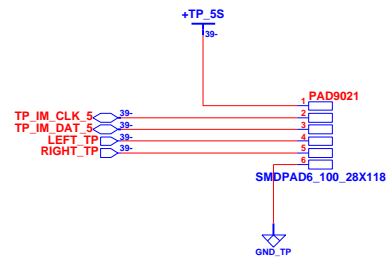
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TITLE <b>SATA ODD</b> <b>BR10ML</b>			
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SHEET		37	OF 52



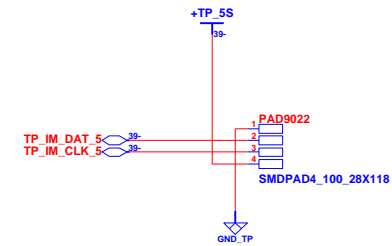
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# TOUCHPAD SWITCH BOARD

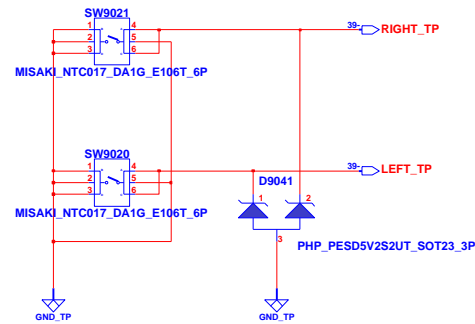
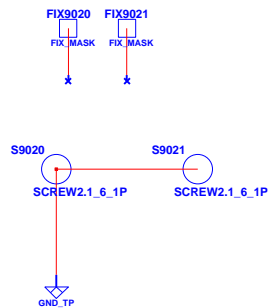
Connect to Touchpad Module



Connect to Mainboard's TP connector



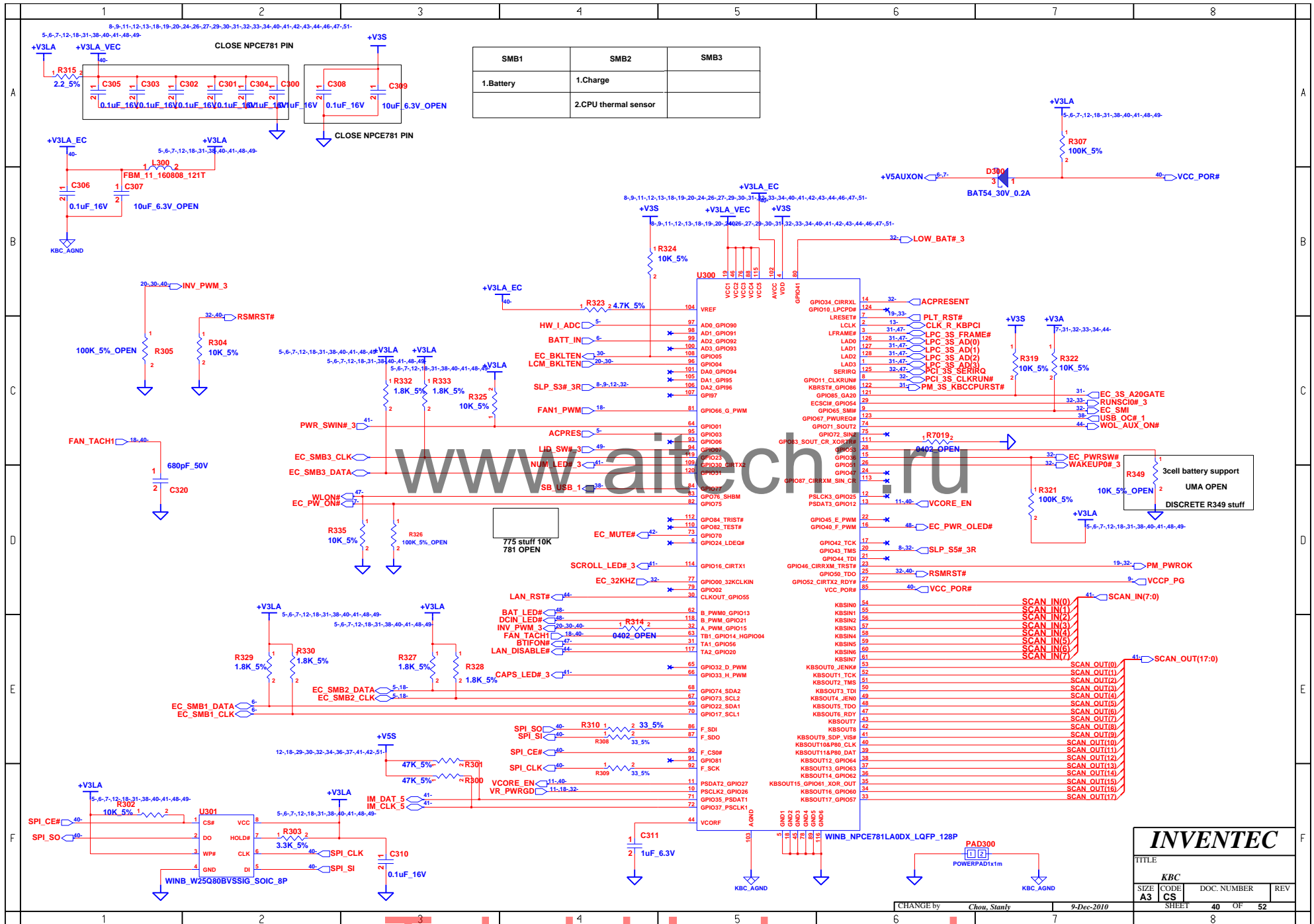
www.aitech1.ru



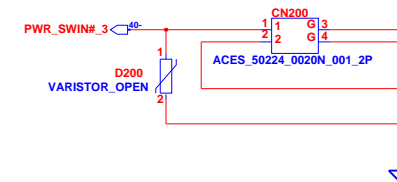
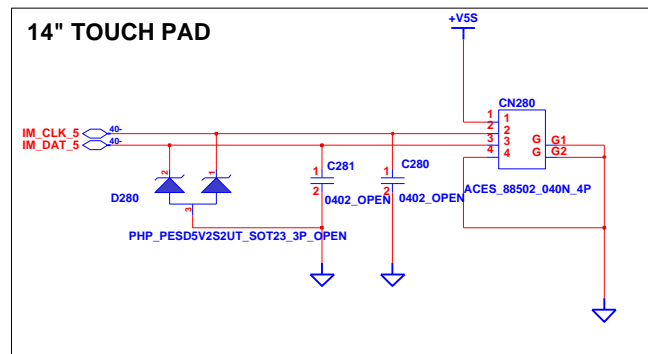
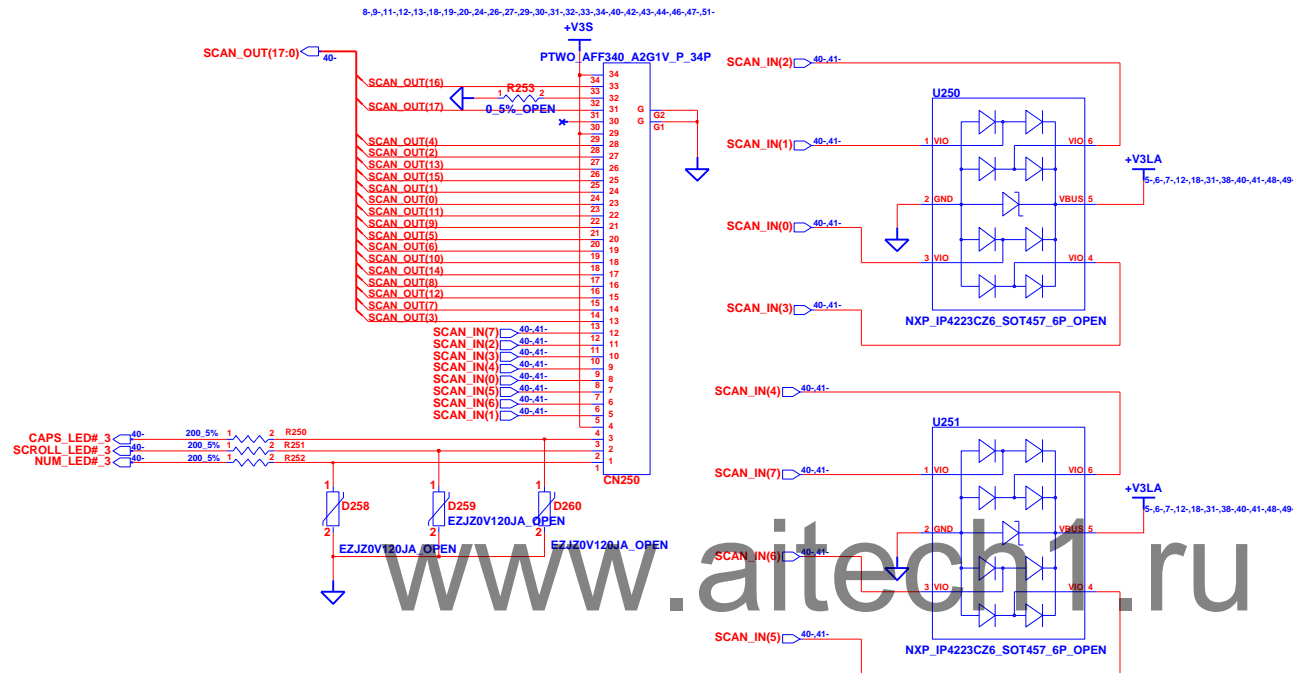
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TITLE			
Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	39 OF 52	8

CHANGE by Chou, Stanley 15-Dec-2010

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**INVENTEC**

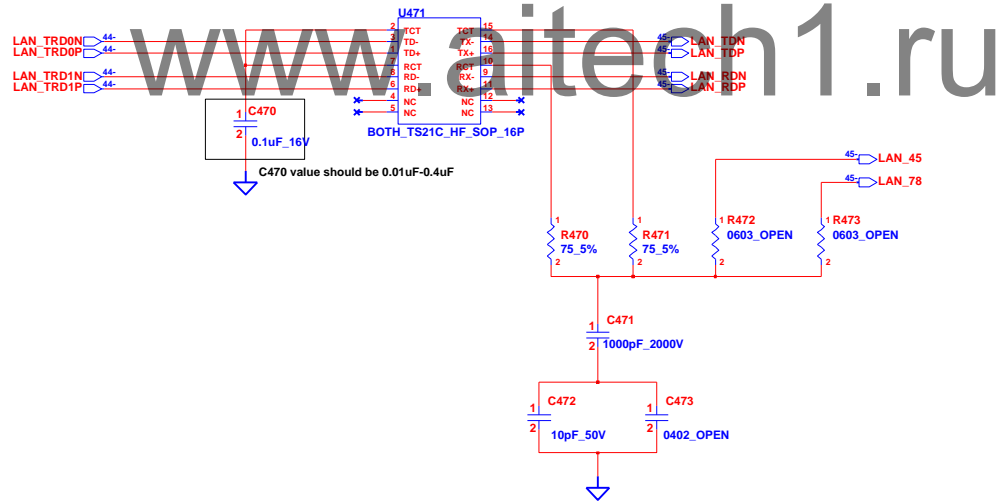
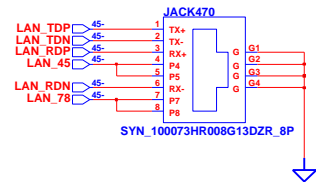
TITLE			
K/B & TP/B CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		

CHANGE by	Chou, Stanley	9-Dec-2010	
SHEET	41	OF	52
	8		

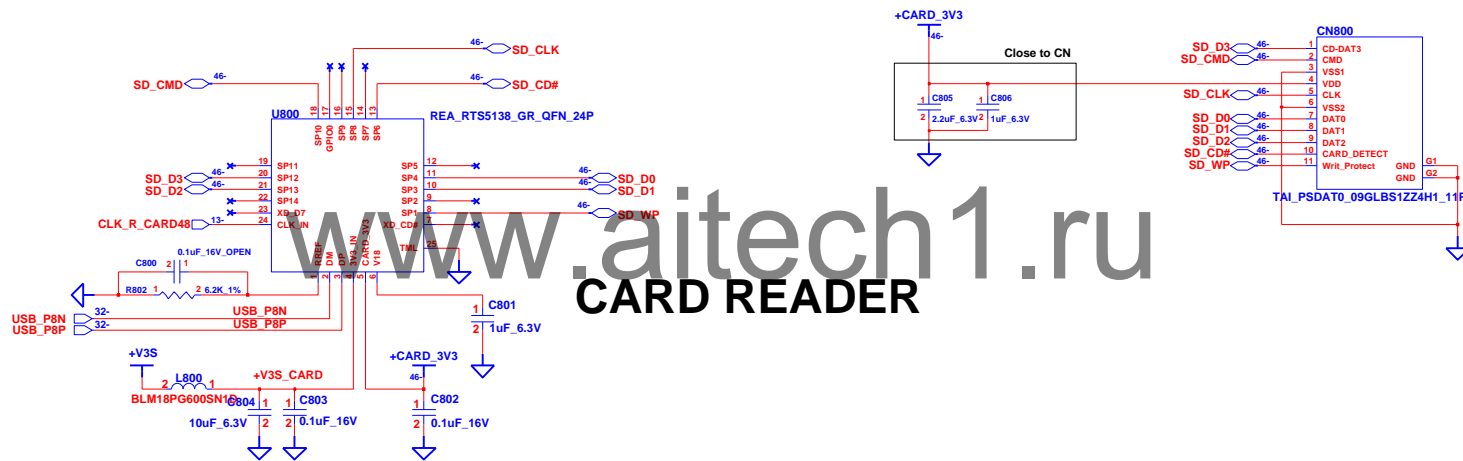








INVENTEC			
TITLE BRT0ML			
Transformer&RJ45			
SIZE A3	CODE CS	DOC. NUMBER 45	REV 52
SHEET 1		OF 8	



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CARD READER

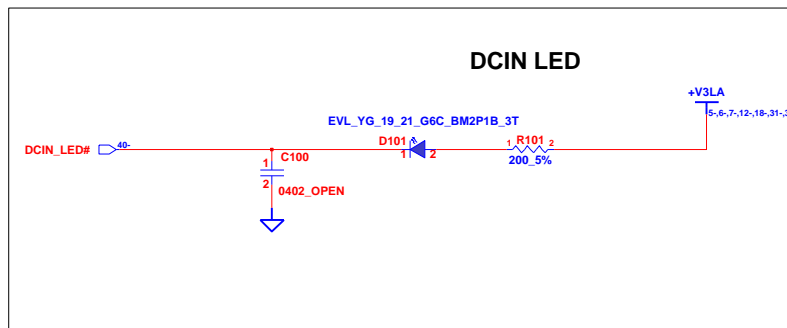
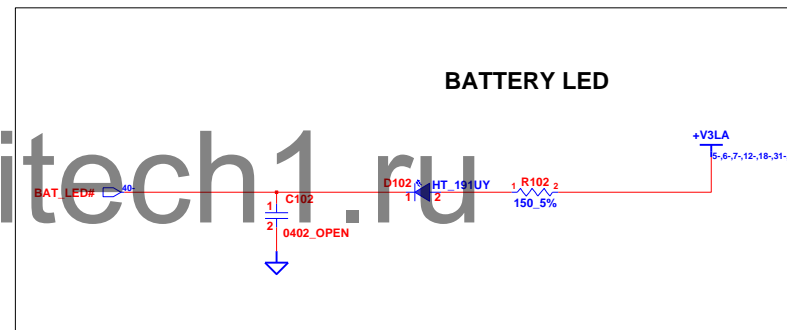
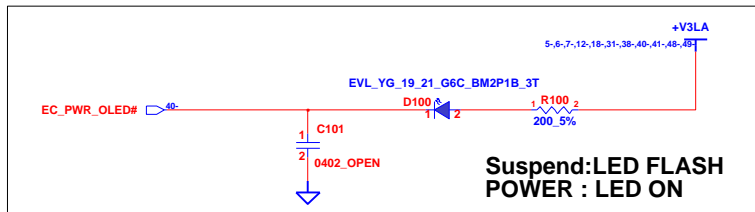
INVENTEC			
TITLE			
USB Card Reader			
SIZE A3	CODE CS	DOC. NUMBER 46	REV 52

CHANGE by Chou, Stanley 9-Dec-2010

[illegible]

Note:		
	Peak(max)mA	Normal(max)mA
3.3V	2,750mA	1,100mA

<b><i>INVENTEC</i></b>			
TITLE			
<i>Wireless &amp; debug card</i>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>		
SHEET		47	OF 52

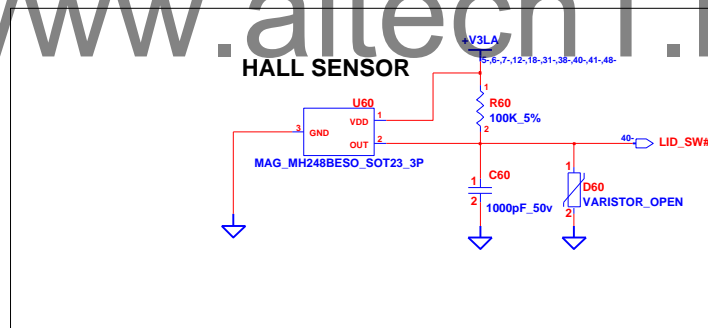


INVENTEC			
TITLE			
LED & Hotkey CONN			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET		48	OF 52

CHANGE by Chou, Stanley 9-Dec-2010



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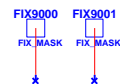
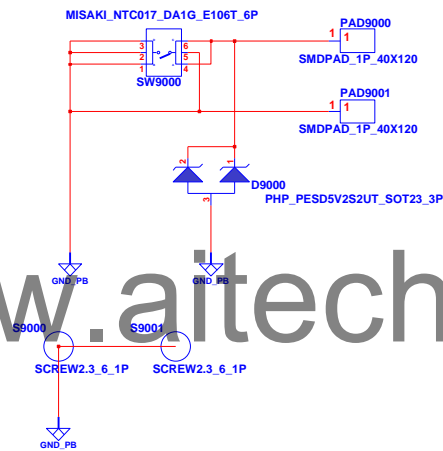
**INVENTEC**

TITLE			
Kill Swich & Hall Sensor			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET		49	OF 52

CHANGE by Chou, Stanley 9-Dec-2010

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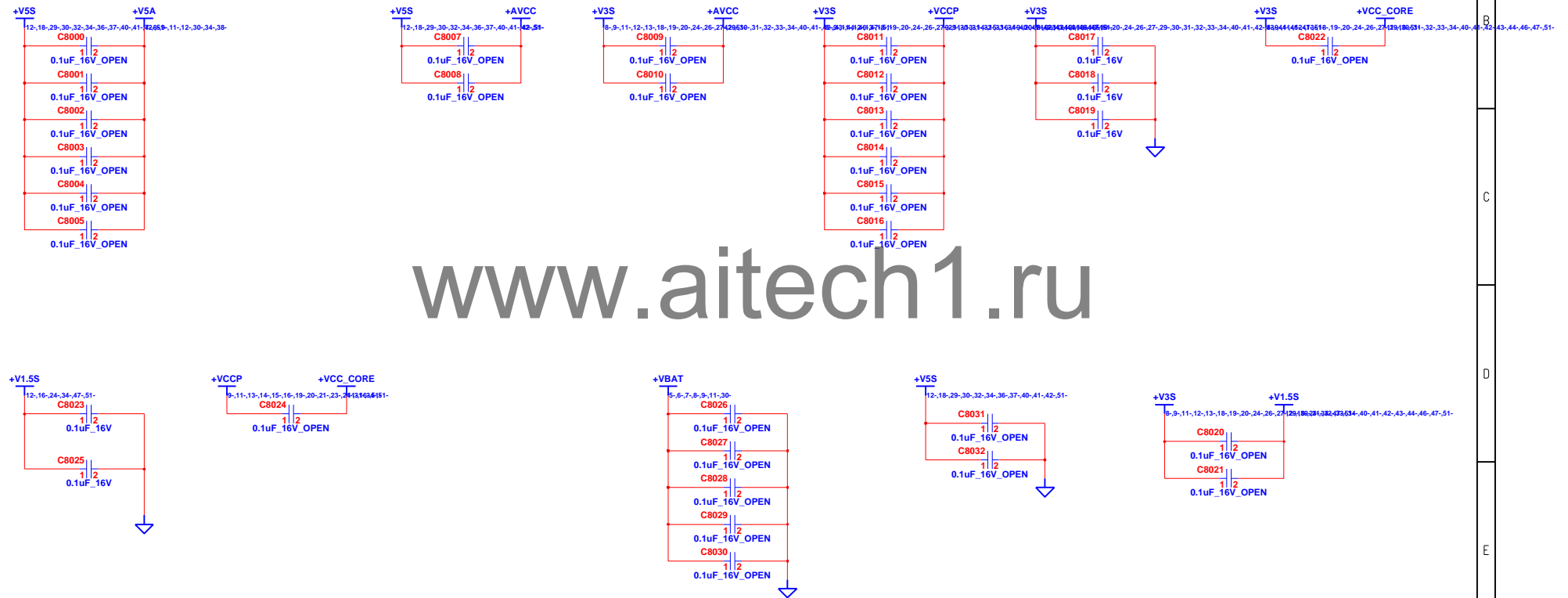
# POWER BUTTON



INVENTEC			
TITLE <b>BR10ML</b>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		50	OF 52
8			

CHANGE by *Chou, Stanley* 21-Jan-2011

# EMI



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**INVENTEC**

TITLE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	51 OF 52	

CHANGE by Chou, Stanley 9-Dec-2010

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