

BR10MLG

ES Build(A01)

2011.03.08

				INVENTEC			
DRAWER	Pei, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16	TITLE		
DESIGN	Pei, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16	BR10MLG		
CHECK	Pei, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16			
RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16			
SIZE = 3				VER : X01	SIZE	CODE	DOC. NUMBER
FILE NAME : BR10MLG-6050A2446401-MB-X01-26-BOM					A3	CS	6050A2446401-0-MTRX01
P/N 6050A2446401					SHEET 1 OF 61		

TABLE OF CONTENTS

PAGE

1.COVER PAGE
2.INDEX
3.BLOCK DIAGRAM
4.POWER SEQUENCE BLOCK
5-12.SYSTEM POWER
13.CLOCK GENERATOR
14.PENRYN-1
15.PENRYN-2
16.PENRYN-3
17.PENRYN-4
18.FAN & THERMAL CONTROLLER
19.CANTIGA-1
20.CANTIGA-2
21.CANTIGA-3
22.CANTIGA-4
23.CANTIGA-5
24.CANTIGA-6
25.CANTIGA-7
26.DDR3 DIMM0
27.DDR3 DIMM1
28.BLANK
29.CRT CONN
30.LCM CONN

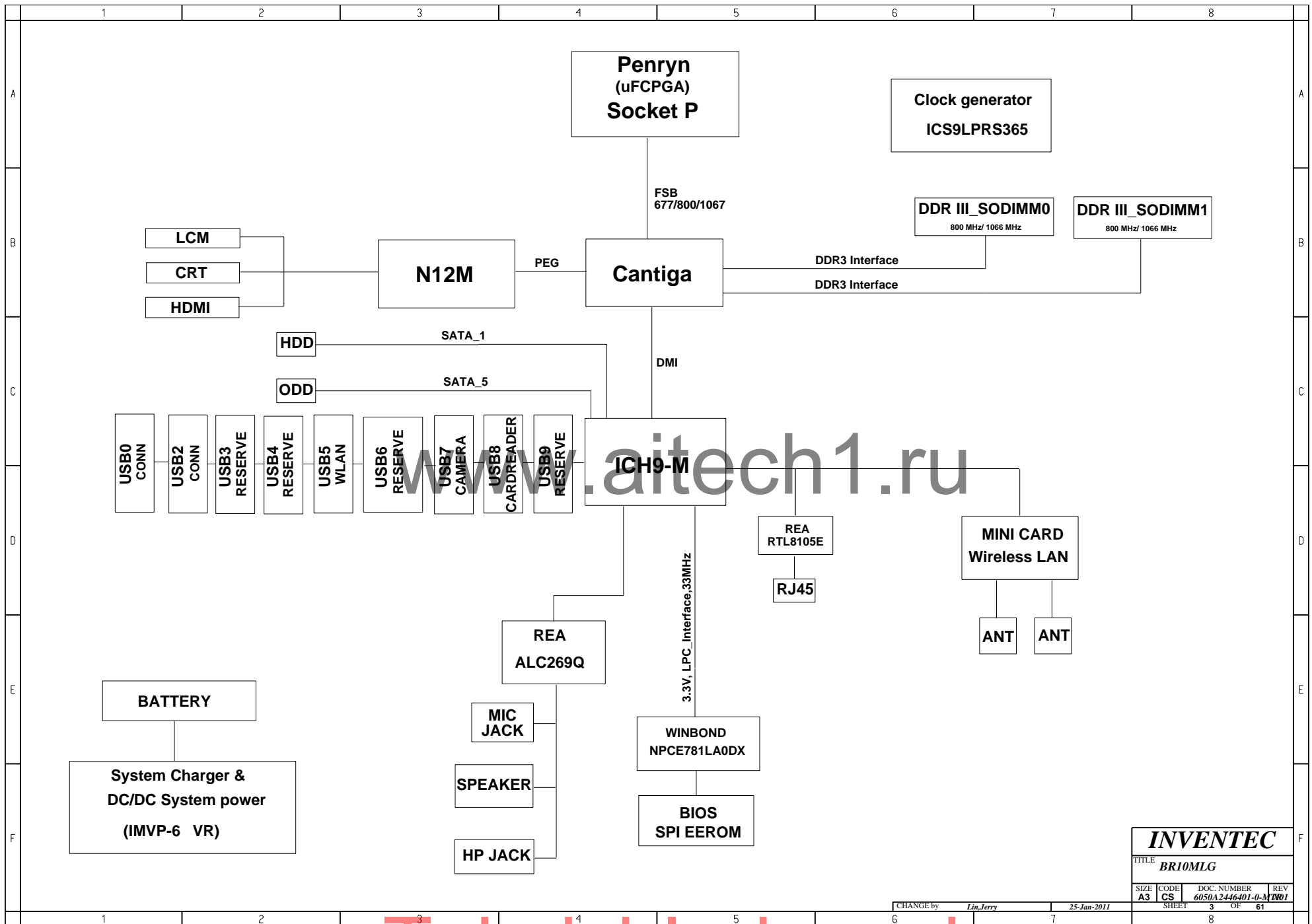
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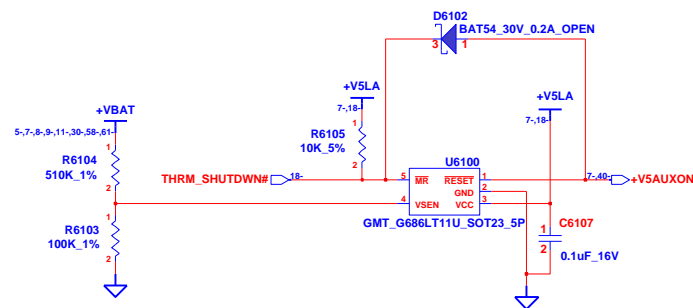
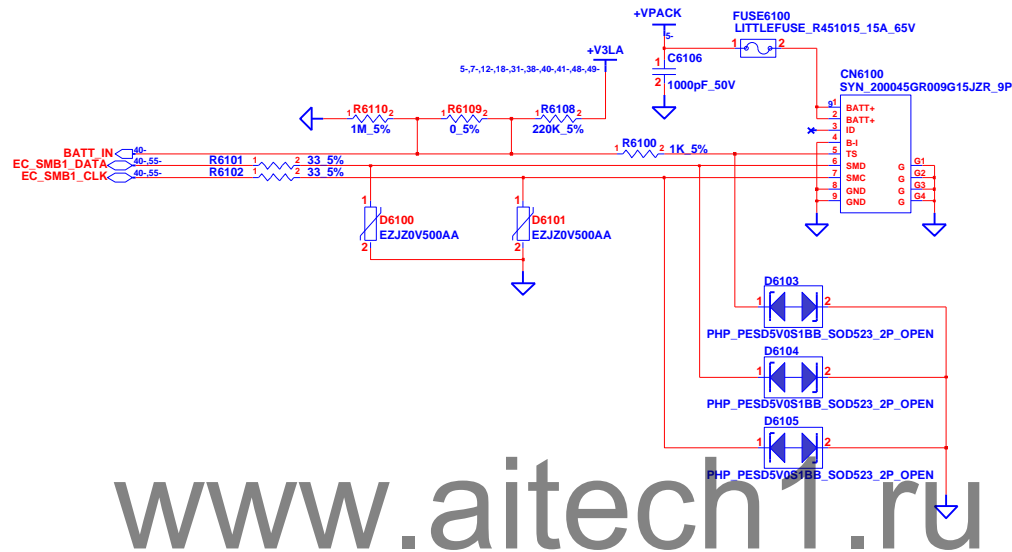
31.ICH9-1
32.ICH9-2
33.ICH9-3
34.ICH9-4
35.ICH9-5
36.SATA HDD CONN
37.ODD CONN
38.USB CONN
39. TOUCHPAD SWITCH BOARD
40.KBC
41. K/B & TP/B CONN
42.Audio Codec
43.Audio AMP/MIC/Speaker
44.LAN CONTROLLER
45.RJ45 & TRANSFORMER
46.USB Card Reader
47.WLAN /Debug
48.LED(M/B) & HOTKEY/B CONN
49.HALL SENSOR
50.Screw
51.HDMI
52. GPU-1
53. GPU-2

PAGE

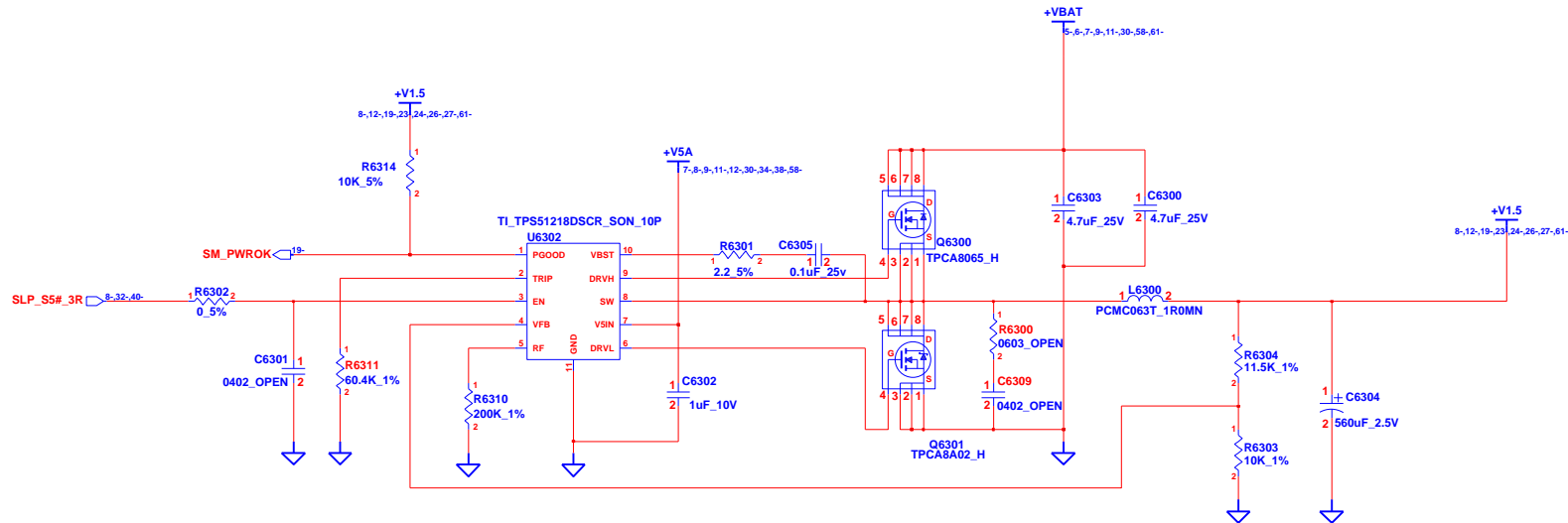
54. GPU-3
55. GPU-4
56. VRAM_DDR3
57. VRAM_DDR3
58. GPU POWER
59. USB BOARD
60. POWER BUTTON
61. EMI

INVENTEC			
TITLE BR10MLG			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 001
CHANGE by <i>Lin Jerry</i>		7-Jan-2011	
SHEET		2	OF 61

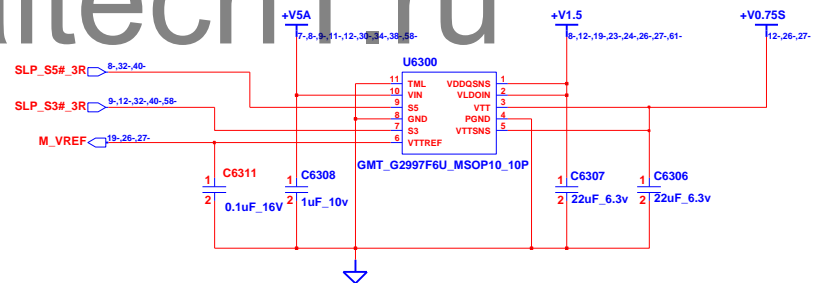




INVENTEC			
TITLE			
SELECT & BATTERY CONN			
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SHEET		6	OF 61



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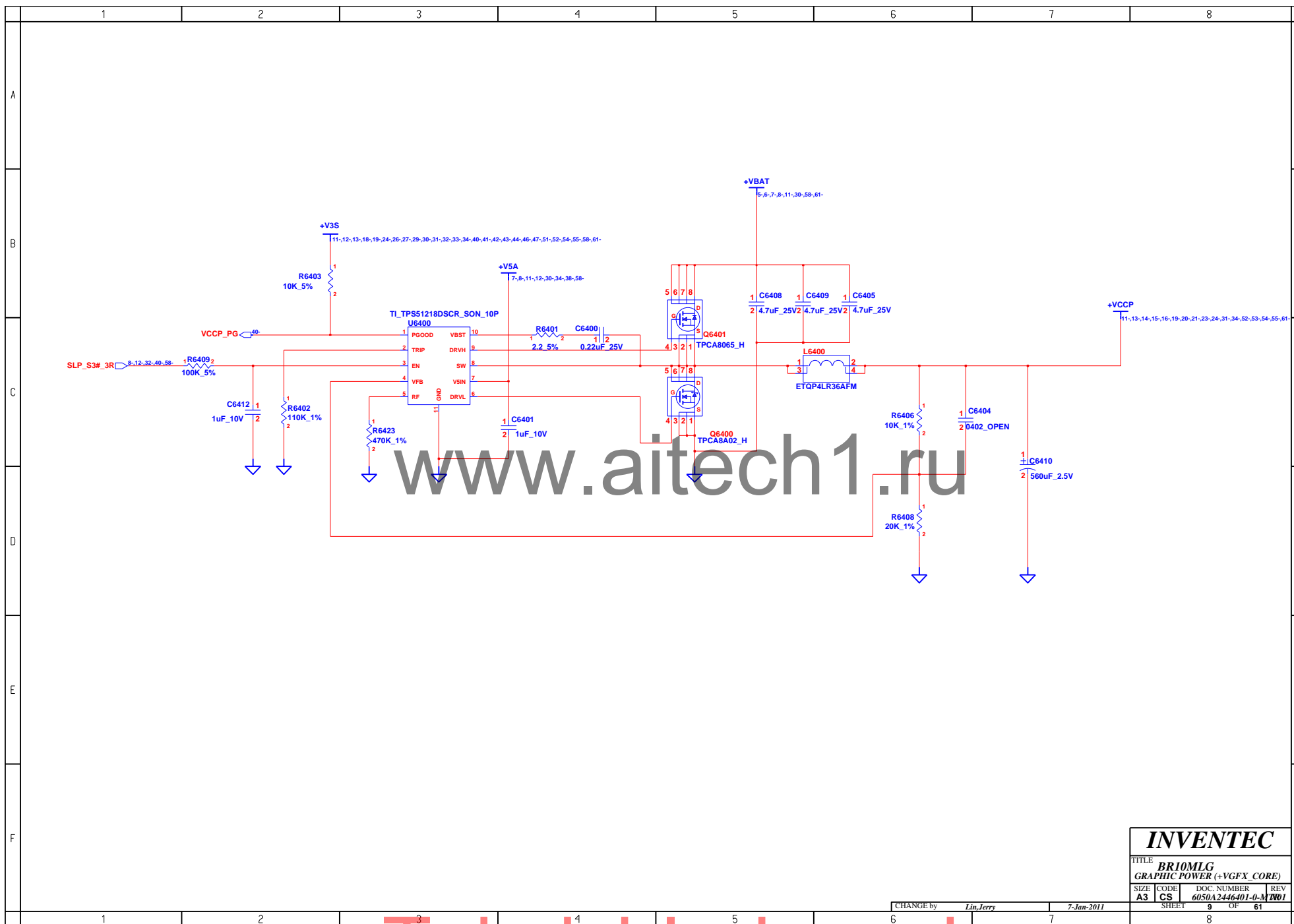
INVENTEC

TITLE			
BRI0MLG			
SYSTEM POWER(+V1.8/+V1.25S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-3	001

CHANGE by Lin Jerry 7-Jan-2011

SHEET 8 OF 61

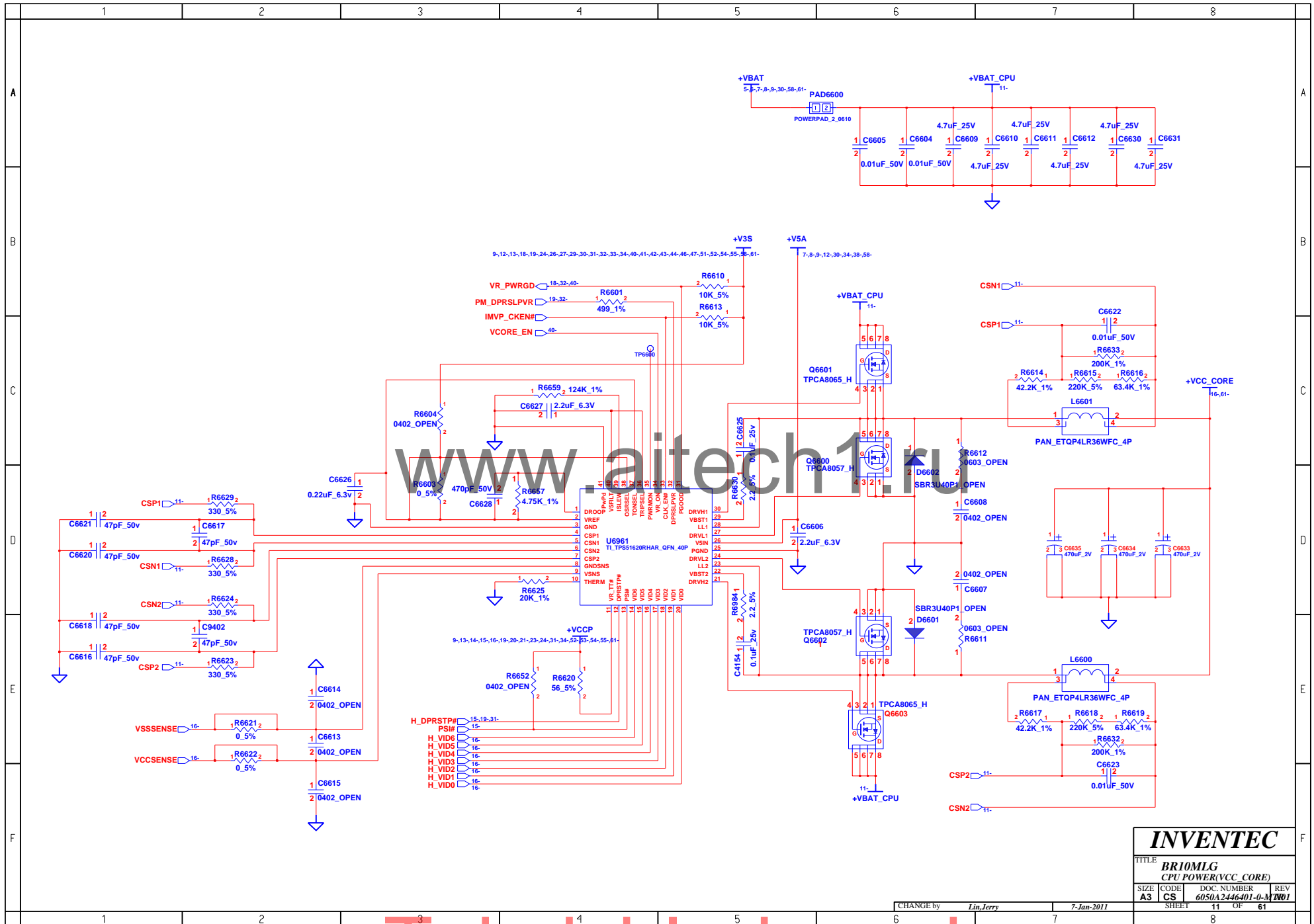
www.Teknisi-Indonesia.com

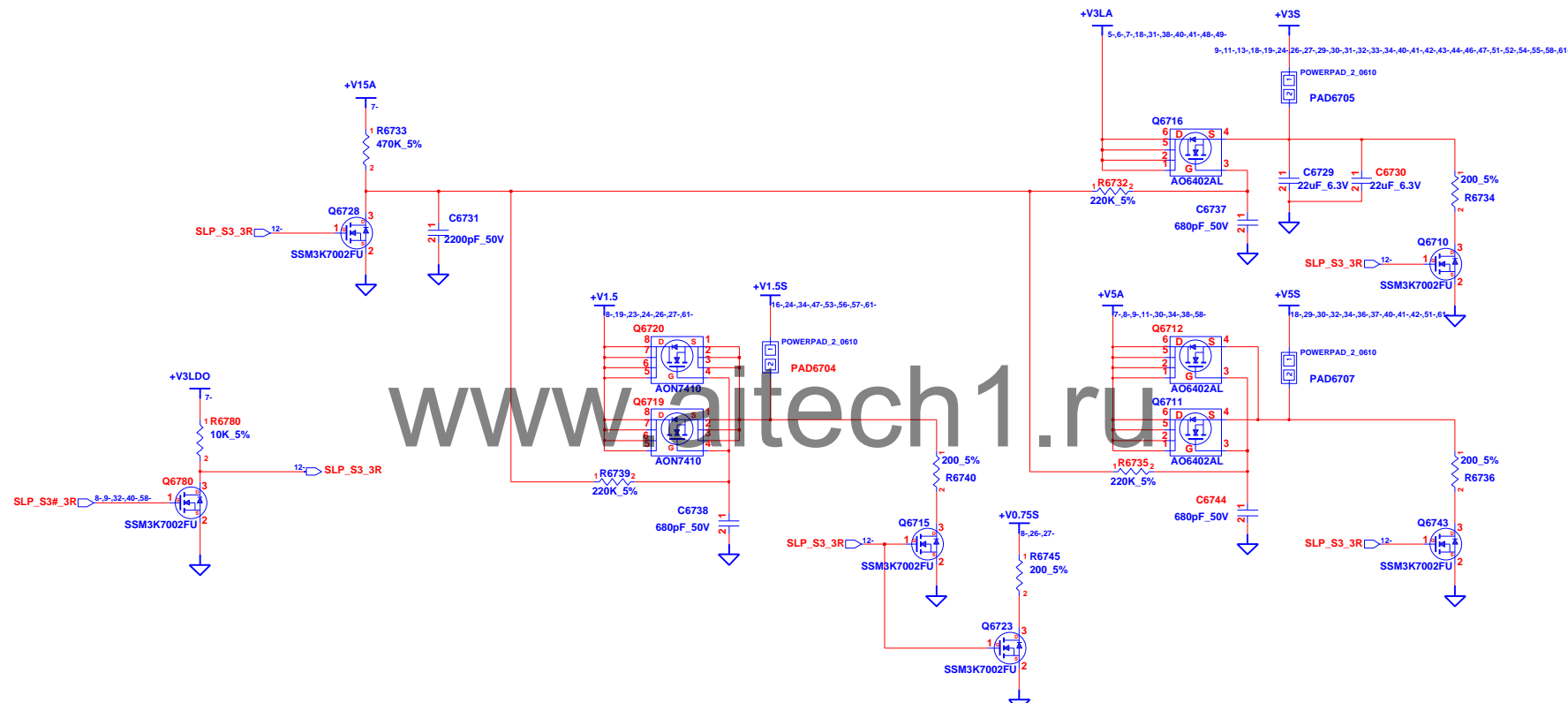


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A									A
B									B
C									C
D									D
E									E
F									F
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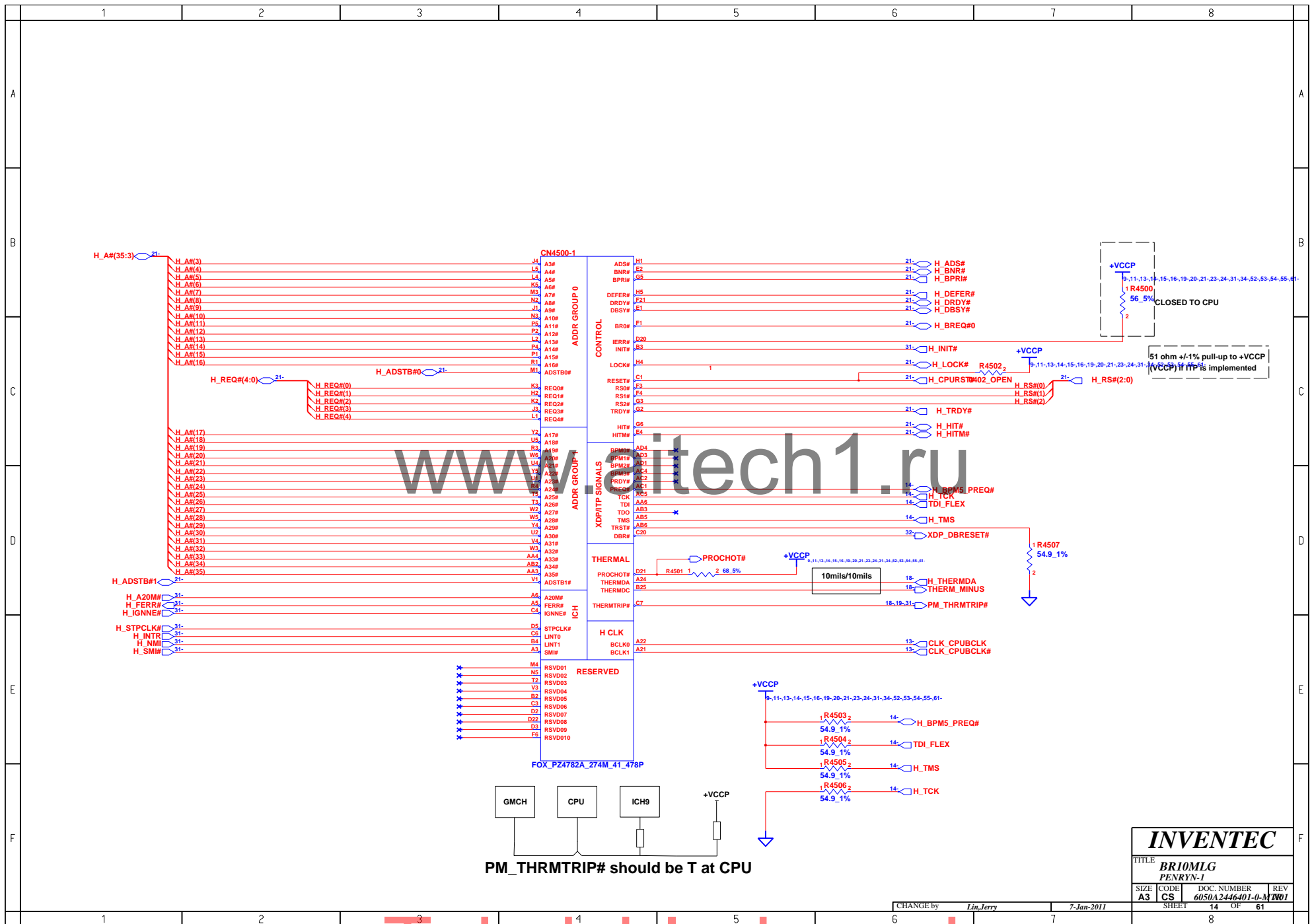
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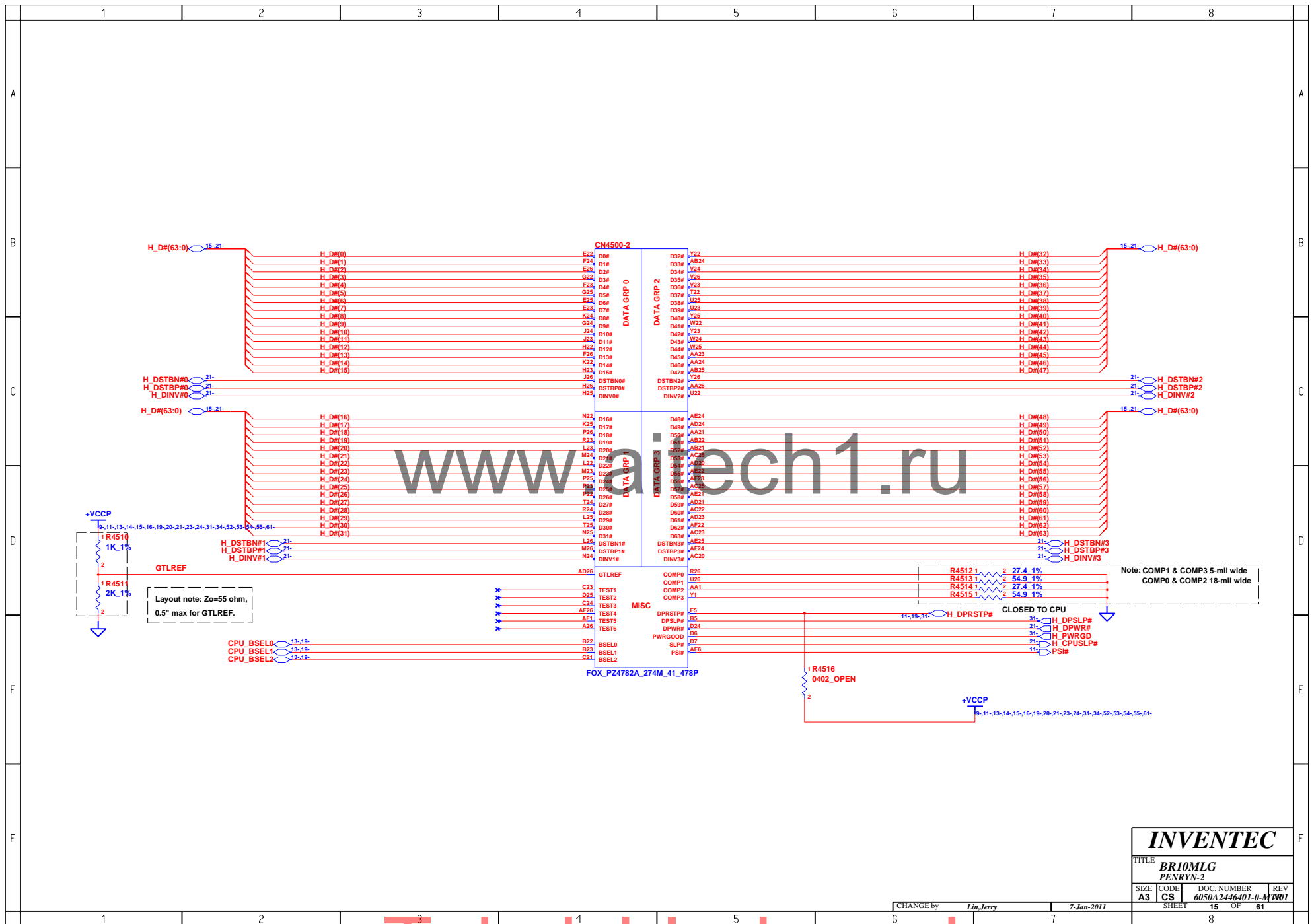
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TITLE BRI0MLG			
SYSTEM POWER(+VCCP/+V1.5S)			
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CHANGE by Lin Jerry		7-Jan-2011	
SHEET		10	OF 61

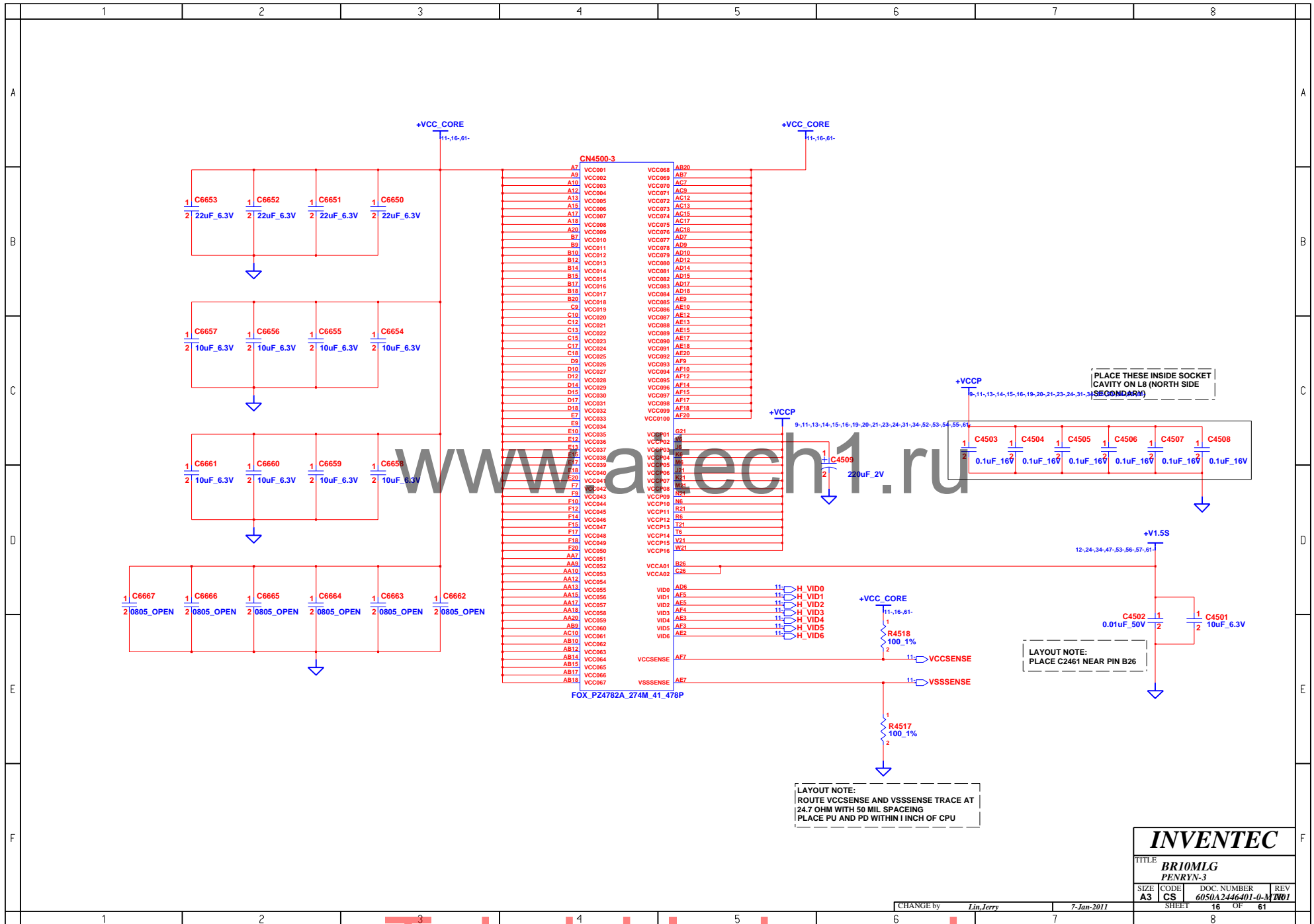




INVENTEC			
TITLE BRI0MLG POWER(SLEEP)			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV 001
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET		12	OF 61



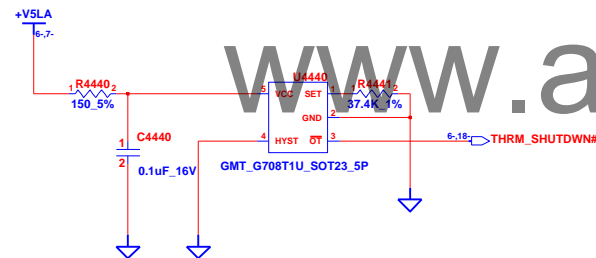
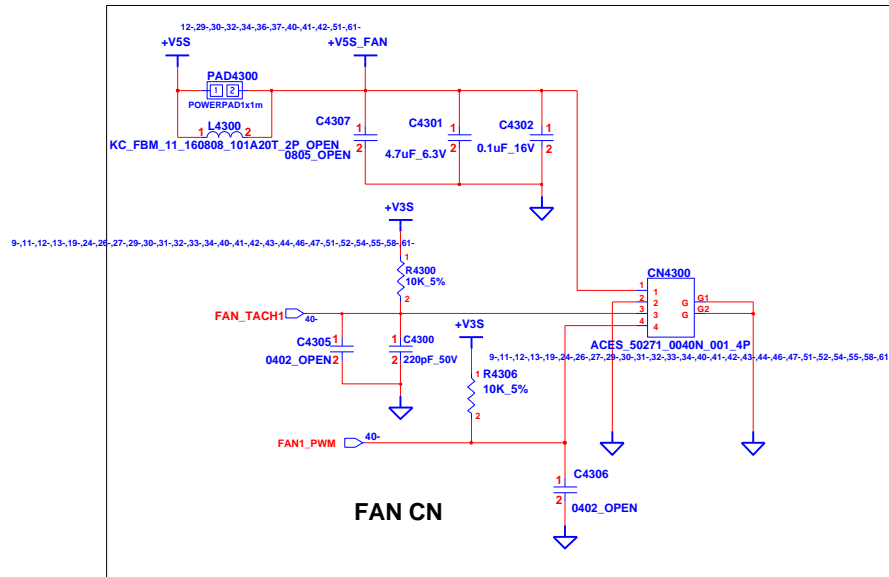




	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	



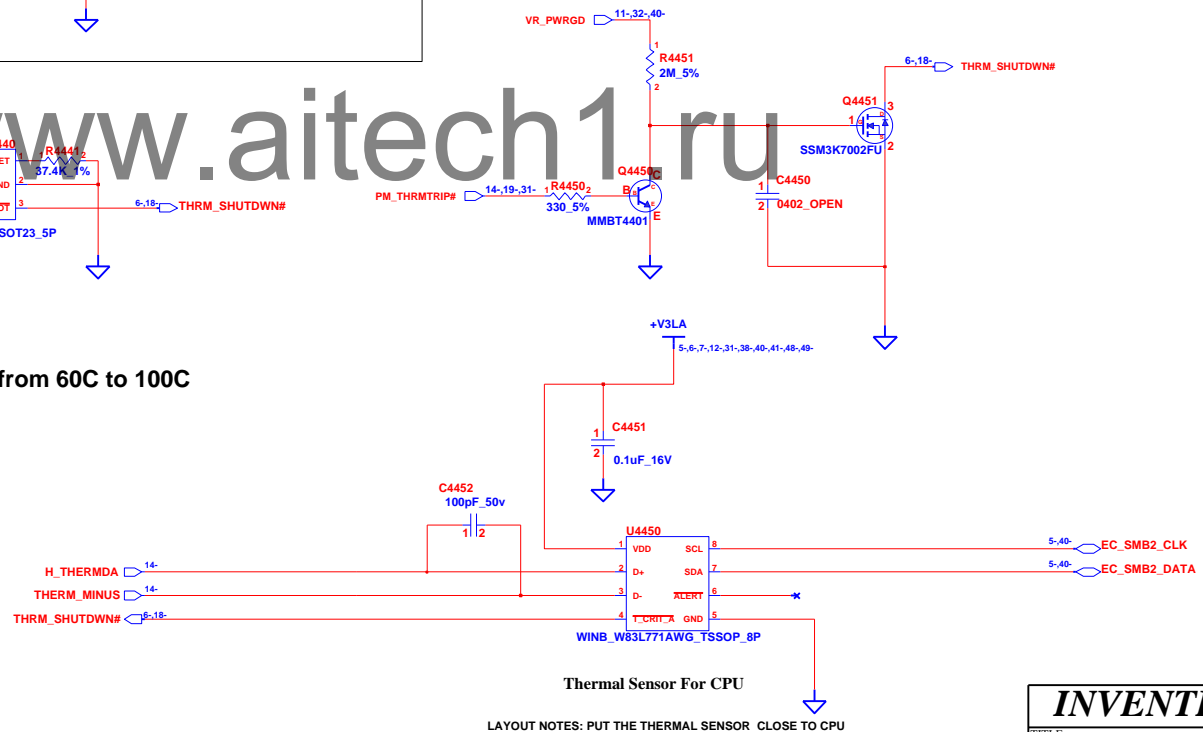
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SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV B01
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET 17		OF 61	



Thermal shutdown at 86.1C +/-3C from 60C to 100C

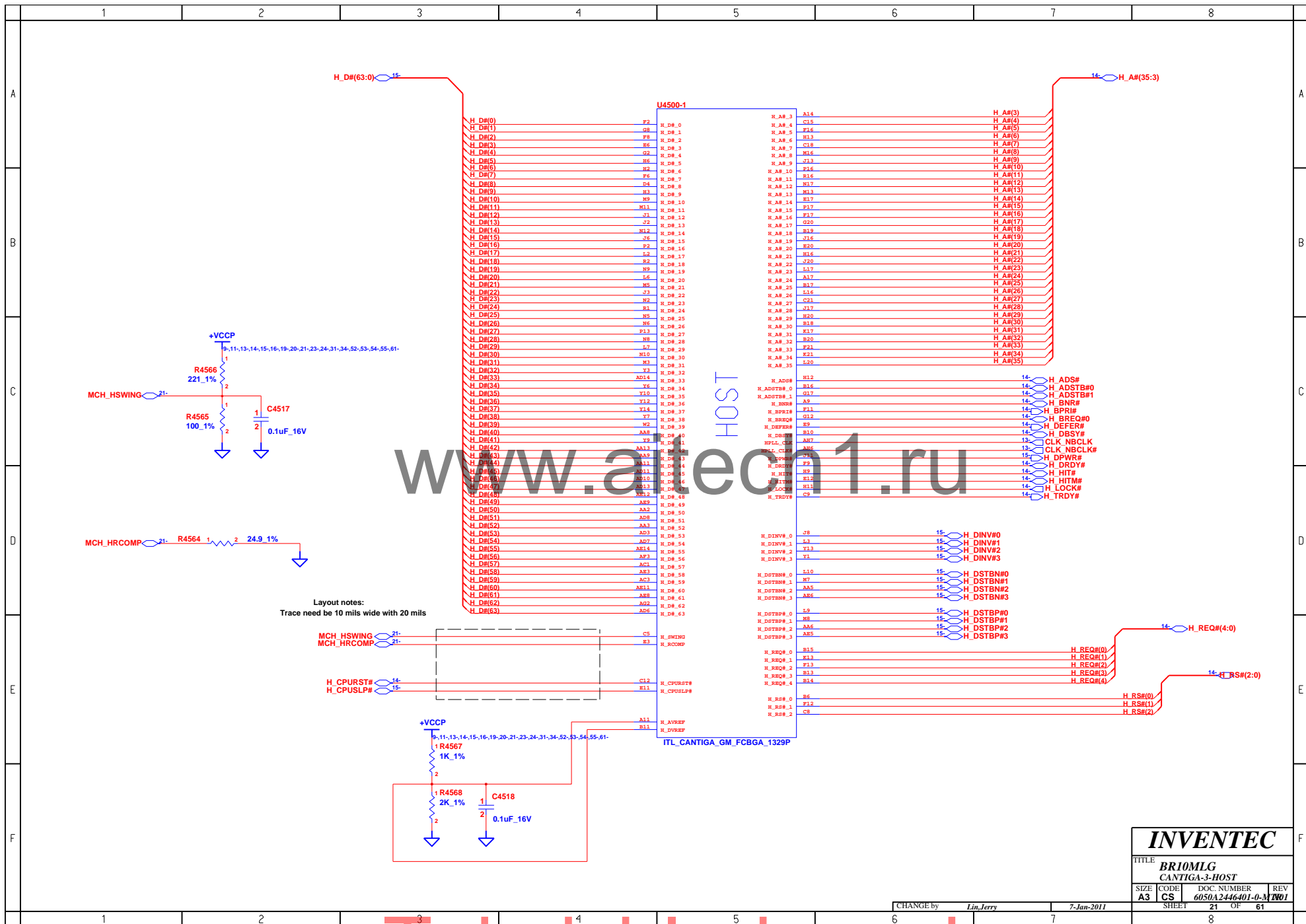
$$RSET = 0.0012 * T^2 - 0.9308 * T + 96.147$$

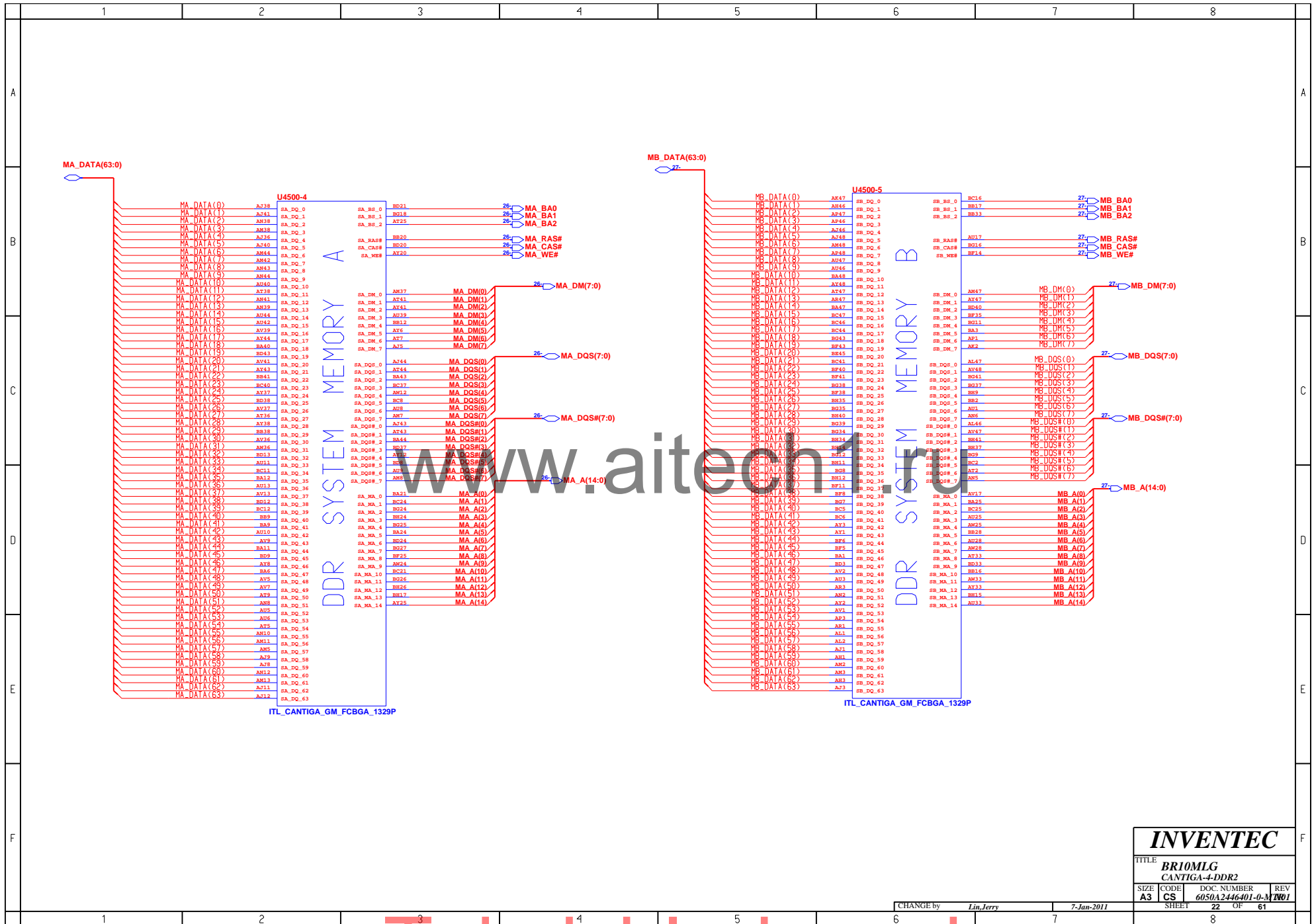
Hysteresis is 30C



Thermal Sensor For CPU
LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

INVENTEC			
TITLE BR10MLG THERMAL&FAN CONTROLLER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV B01
CHANGE by Lin, Jerry		7-Jan-2011	SHEET 18 OF 61

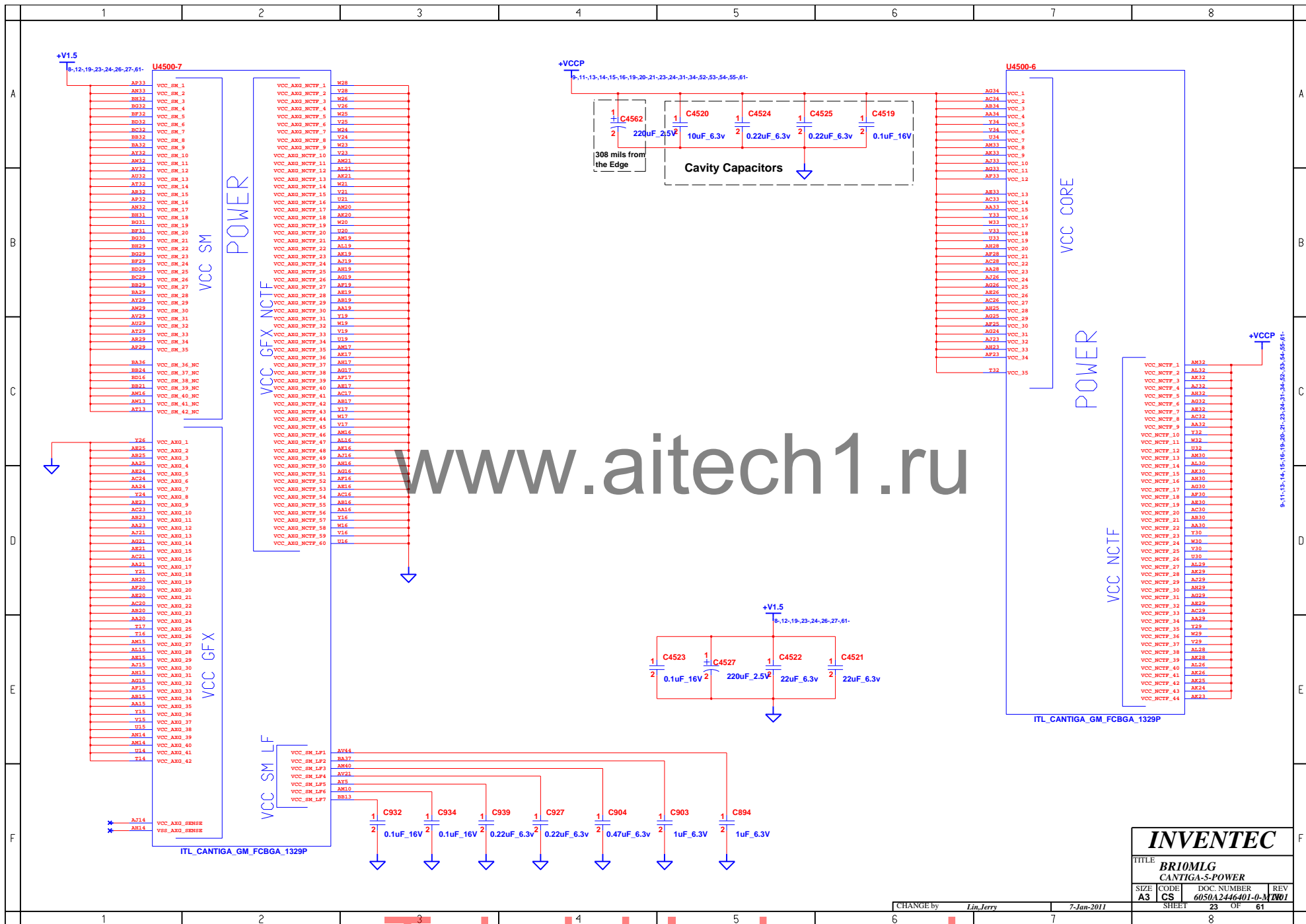




INVENTEC

TITLE BRI0MLG CANTIGA-4-DDR2			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 701
SHEET 22		OF 61	

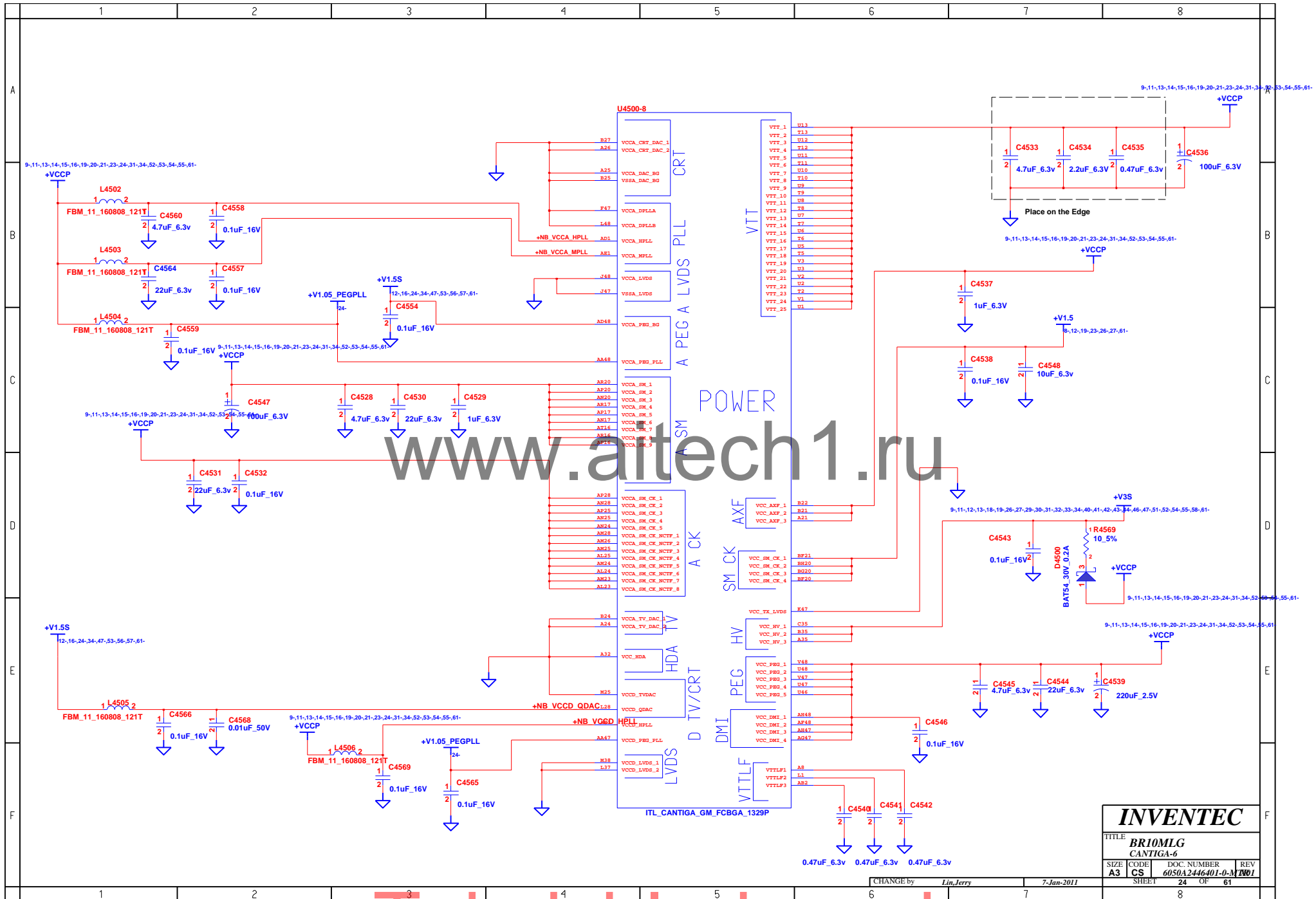
CHANGE by Lin Jerry 7-Jan-2011



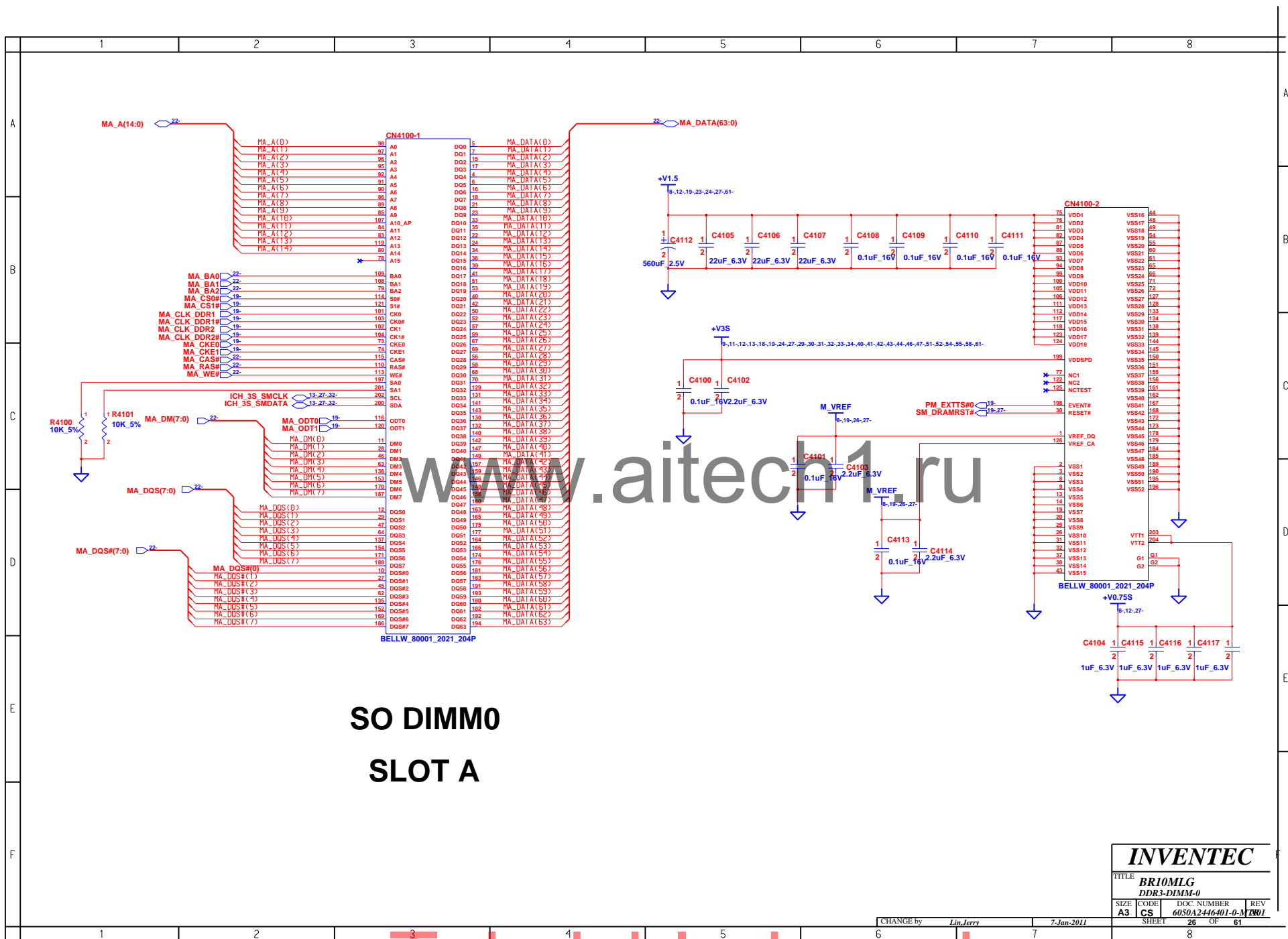
www.aitech1.ru

www.Teknisi-Indonesia.com

INVENTEC			
TITLE BRI0MLG CANTIGA-5-POWER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-3	REV B01
CHANGE by Lin, Jerry		7-Jan-2011	
SHEET 23		OF 61	

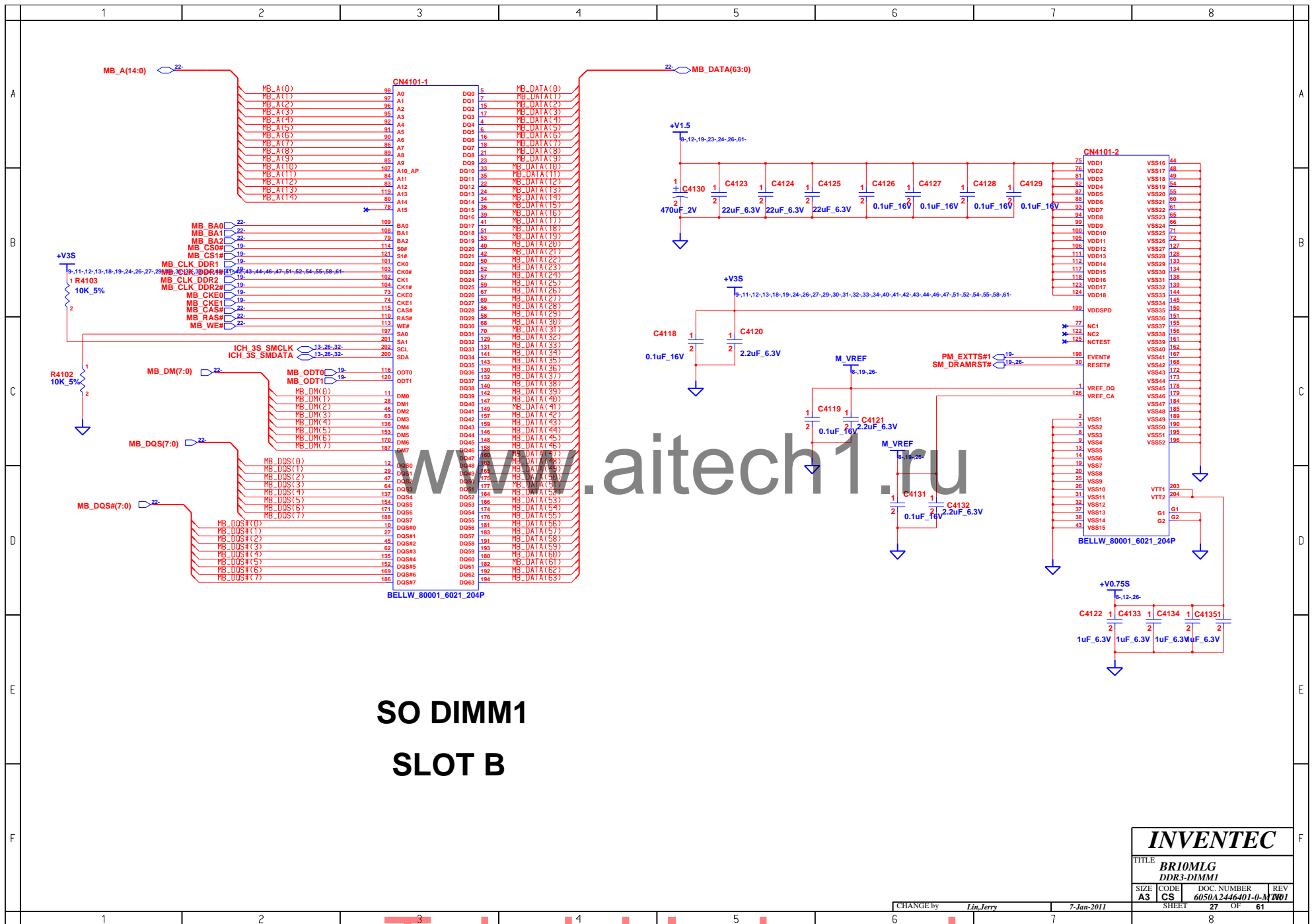


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A		<p>U4500-9</p> <p>AN48 VSS_1 VSS_100 AM16</p> <p>AN48 VSS_2 VSS_101 AE16</p> <p>AN48 VSS_3 VSS_102 P36</p> <p>BN47 VSS_4 VSS_103 L46</p> <p>AN47 VSS_5 VSS_104 J36</p> <p>AN47 VSS_6 VSS_105 F36</p> <p>AN47 VSS_7 VSS_106 AN35</p> <p>AN47 VSS_8 VSS_107 AN35</p> <p>AD47 VSS_9 VSS_108 AB35</p> <p>AN47 VSS_10 VSS_109 Y35</p> <p>Y47 VSS_11 VSS_110 Y35</p> <p>Y47 VSS_12 VSS_111 Y35</p> <p>H47 VSS_13 VSS_112 BF34</p> <p>L47 VSS_14 VSS_113 AN14</p> <p>AN47 VSS_15 VSS_114 AN20</p> <p>BD46 VSS_16 VSS_115 AN20</p> <p>BA46 VSS_17 VSS_116 AT20</p> <p>AT46 VSS_18 VSS_117 AT20</p> <p>AT46 VSS_19 VSS_118 AT20</p> <p>AN46 VSS_20 VSS_119 AT20</p> <p>AN46 VSS_21 VSS_120 RG33</p> <p>V46 VSS_22 VSS_121 BC33</p> <p>R46 VSS_23 VSS_122 BA33</p> <p>P46 VSS_24 VSS_123 AV33</p> <p>R46 VSS_25 VSS_124 AB33</p> <p>F46 VSS_26 VSS_125 AB33</p> <p>BF44 VSS_27 VSS_126 AB33</p> <p>AN44 VSS_28 VSS_127 AB33</p> <p>AD44 VSS_29 VSS_128 F33</p> <p>AN44 VSS_30 VSS_129 H33</p> <p>V44 VSS_31 VSS_130 H33</p> <p>H44 VSS_32 VSS_131 H33</p> <p>V44 VSS_33 VSS_132 K32</p> <p>AN44 VSS_34 VSS_133 K32</p> <p>F44 VSS_35 VSS_134 C32</p> <p>BC43 VSS_36 VSS_135 A31</p> <p>AN43 VSS_37 VSS_136 AN29</p> <p>AN43 VSS_38 VSS_137 T29</p> <p>AN43 VSS_39 VSS_138 H29</p> <p>J43 VSS_40 VSS_139 K29</p> <p>C43 VSS_41 VSS_140 H29</p> <p>BD42 VSS_42 VSS_141 F29</p> <p>AT42 VSS_43 VSS_142 A29</p> <p>AT42 VSS_44 VSS_143 RG28</p> <p>AN42 VSS_45 VSS_144 BD28</p> <p>AN42 VSS_46 VSS_145 BA28</p> <p>AN42 VSS_47 VSS_146 AV28</p> <p>R42 VSS_48 VSS_147 AT28</p> <p>L42 VSS_49 VSS_148 AN28</p> <p>AN41 VSS_50 VSS_149 AN28</p> <p>AN41 VSS_51 VSS_150 AG28</p> <p>AN41 VSS_52 VSS_151 AE28</p> <p>AN41 VSS_53 VSS_152 AE28</p> <p>AD41 VSS_54 VSS_153 Y28</p> <p>AN41 VSS_55 VSS_154 F28</p> <p>Y41 VSS_56 VSS_155 K28</p> <p>Y41 VSS_57 VSS_156 F28</p> <p>Y41 VSS_58 VSS_157 F28</p> <p>H41 VSS_59 VSS_158 C28</p> <p>AN41 VSS_60 VSS_159 RP26</p> <p>AN41 VSS_61 VSS_160 AN16</p> <p>AN41 VSS_62 VSS_161 AF26</p> <p>BN40 VSS_63 VSS_162 AN16</p> <p>AN40 VSS_64 VSS_163 AN16</p> <p>AN40 VSS_65 VSS_164 C26</p> <p>AN40 VSS_66 VSS_165 B26</p> <p>K40 VSS_67 VSS_166 BN45</p> <p>AT39 VSS_68 VSS_167 BD45</p> <p>AN39 VSS_69 VSS_168 BD45</p> <p>AT39 VSS_70 VSS_169 AV25</p> <p>AN39 VSS_71 VSS_170 AN25</p> <p>R39 VSS_72 VSS_171 AT25</p> <p>L39 VSS_73 VSS_172 AC25</p> <p>R39 VSS_74 VSS_173 Y25</p> <p>BN38 VSS_75 VSS_174 N25</p> <p>BC38 VSS_76 VSS_175 L25</p> <p>BA38 VSS_77 VSS_176 G25</p> <p>AN38 VSS_78 VSS_177 G25</p> <p>AN38 VSS_79 VSS_178 R25</p> <p>AN38 VSS_80 VSS_179 BF24</p> <p>VSS_81 VSS_180 AD32</p> <p>Y38 VSS_82 VSS_181 AV24</p> <p>V38 VSS_83 VSS_182 AT24</p> <p>Y38 VSS_84 VSS_183 AT24</p> <p>J38 VSS_85 VSS_184 AN24</p> <p>F38 VSS_86 VSS_185 AN24</p> <p>C38 VSS_87 VSS_186 AN24</p> <p>BD37 VSS_88 VSS_187 L24</p> <p>BD37 VSS_89 VSS_188 AN2</p> <p>AN27 VSS_90 VSS_189 K24</p> <p>AT27 VSS_91 VSS_190 G24</p> <p>AN27 VSS_92 VSS_191 G24</p> <p>AT27 VSS_93 VSS_192 F24</p> <p>R27 VSS_94 VSS_193 R24</p> <p>C27 VSS_95 VSS_194 BA44</p> <p>BD36 VSS_96 VSS_195 AG23</p> <p>BD36 VSS_97 VSS_196 Y23</p> <p>AN15 VSS_98 VSS_197 R23</p> <p>AN36 VSS_99 VSS_198 A23</p> <p>ITL_CANTIGA_GM_FCBGA_1329P</p>	<p>U4500-10</p> <p>RG21 VSS_199 VSS_297 AN8</p> <p>L12 VSS_200 VSS_298 Y8</p> <p>AN21 VSS_201 VSS_299 L8</p> <p>L12 VSS_202 VSS_300 B8</p> <p>AP21 VSS_203 VSS_301 B8</p> <p>AN21 VSS_204 VSS_302 AY7</p> <p>AN21 VSS_205 VSS_303 AN7</p> <p>AN21 VSS_206 VSS_304 AN7</p> <p>AN21 VSS_207 VSS_305 AN7</p> <p>R21 VSS_208 VSS_306 AN7</p> <p>R21 VSS_209 VSS_307 AN7</p> <p>R21 VSS_210 VSS_308 AN7</p> <p>G21 VSS_211 VSS_309 J7</p> <p>BC20 VSS_212 VSS_310 B06</p> <p>AN20 VSS_213 VSS_311 B06</p> <p>AN20 VSS_214 VSS_312 AV6</p> <p>AT20 VSS_215 VSS_313 AT6</p> <p>AT20 VSS_216 VSS_314 AN6</p> <p>R20 VSS_217 VSS_315 M6</p> <p>AT20 VSS_218 VSS_316 C6</p> <p>R20 VSS_219 VSS_317 BA5</p> <p>K20 VSS_220 VSS_318 AN5</p> <p>BA33 VSS_221 VSS_319 AD5</p> <p>C20 VSS_222 VSS_320 Y5</p> <p>AB33 VSS_223 VSS_321 L5</p> <p>AB33 VSS_224 VSS_322 G5</p> <p>AN33 VSS_225 VSS_323 B5</p> 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INVENTEC			
TITLE			
BR10MLG			
DDR3-DIMM-0			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		26	OF 61

CHANGE by Lin Jerry 7-Jan-2011

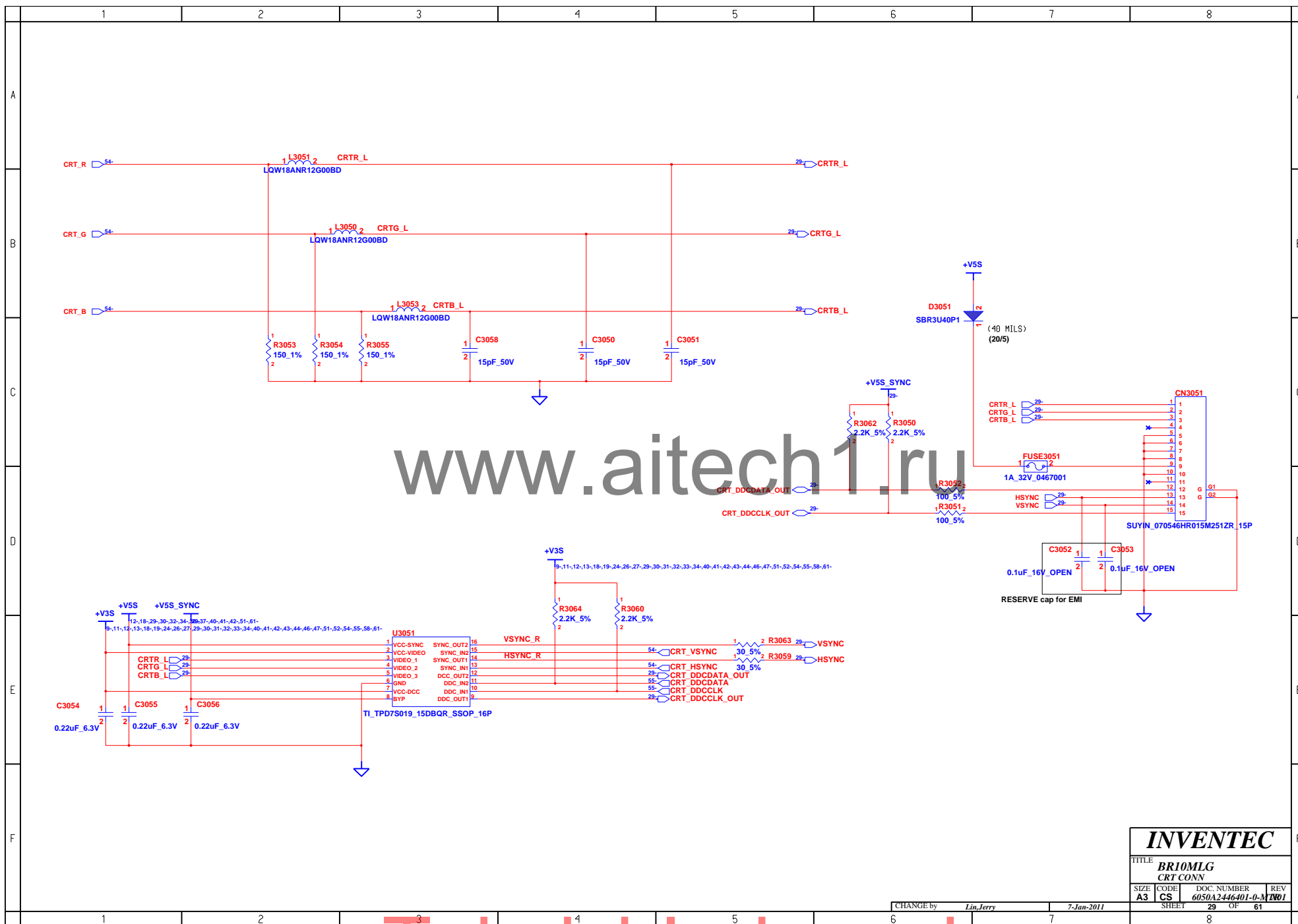


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A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

www.citech1.ru

INVENTEC			
TITLE BR10MLG			
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SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 01
SHEET 28		OF 61	

CHANGE by Lin Jerry 27-Sep-2003



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INVENTEC

TITLE
**BRI0MLG
CRT CONN**

SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 01
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CHANGE by **Lin, Jerry** 7-Jan-2011

SHEET 29 OF 61

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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

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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

AG15 VSS053

AG16 VSS054

AG20 VSS055

AG23 VSS056

AG3 VSS057

AG5 VSS058

AG9 VSS059

AH12 VSS060

AH14 VSS061

AH17 VSS062

AH19 VSS063

AH2 VSS064

AH22 VSS065

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AH28 VSS067

AH5 VSS068

AH6 VSS069

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B5 VSS081

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G25 VSS100

G27 VSS101

H3 VSS102

H25 VSS103

H25 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

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VSS120 L7

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VSS158 R17

VSS159 R26

VSS160 R28

VSS161 T12

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VSS163 T14

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VSS165 T16

VSS166 T17

VSS167 T23

VSS168 B26

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VSS170 U13

VSS171 U14

VSS172 U15

VSS173 U16

VSS174 U17

VSS175 AD23

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VSS177 U27

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VSS184 V29

VSS185 V4

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VSS189 W3

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VSS191 Y28

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VSS193 Y4

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VSS_NCTF5 AH1

VSS_NCTF6 AH28

VSS_NCTF7 AJ1

VSS_NCTF8 AJ2

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CHANGE by Lin, Jerry

7-Jan-2011

SIZE A3

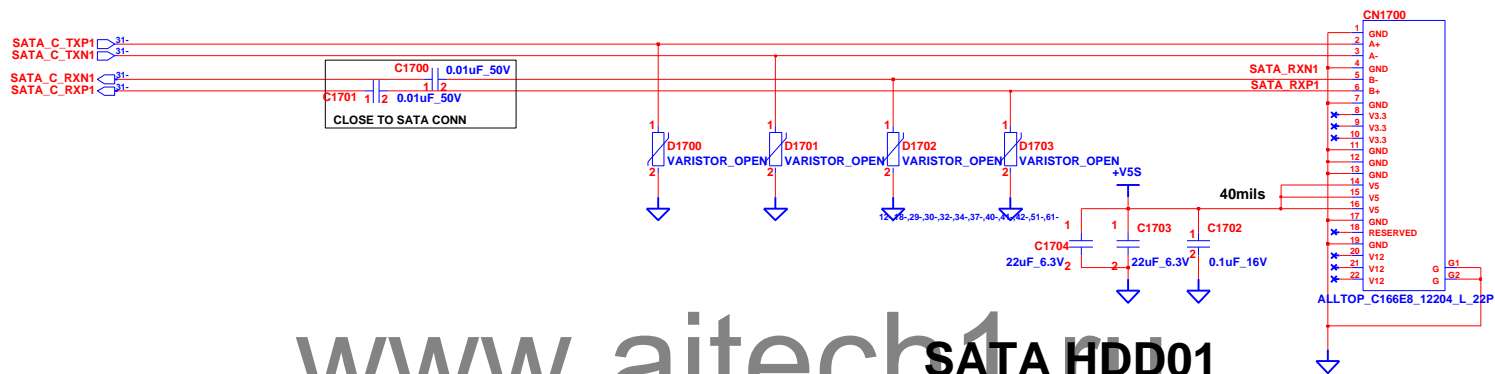
CODE CS

DOC. NUMBER 6050A2446401-0-M

REV 701

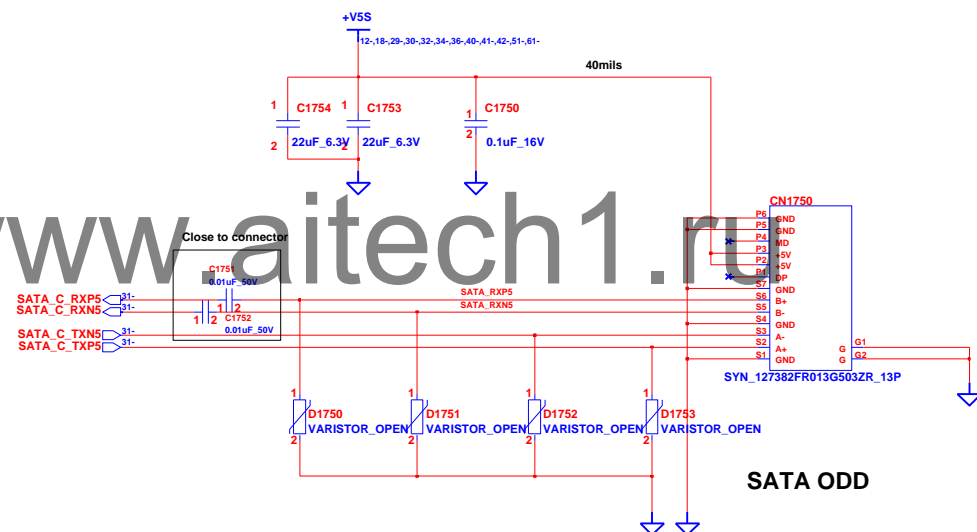
SHEET 35

OF 61



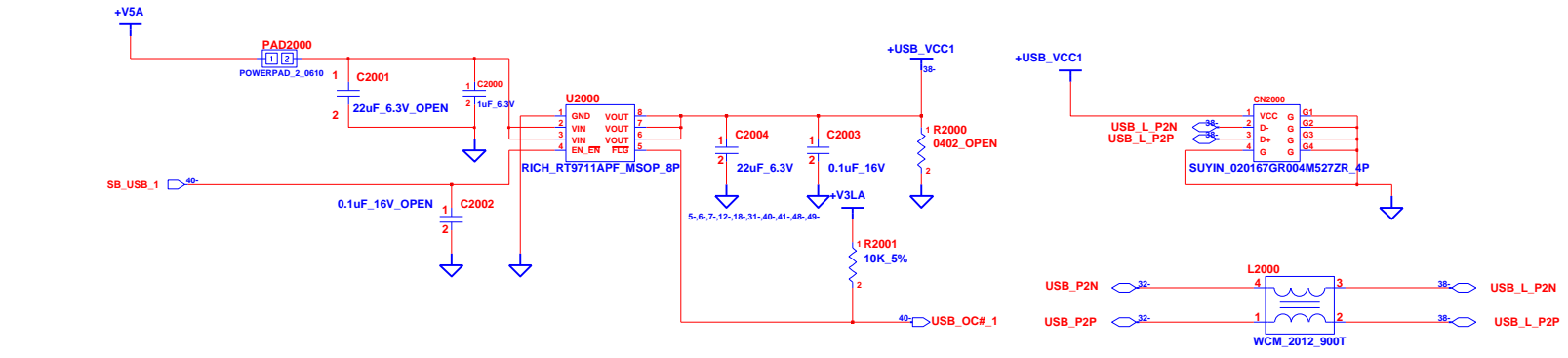
www.aitech1.ru

SATA HDD01



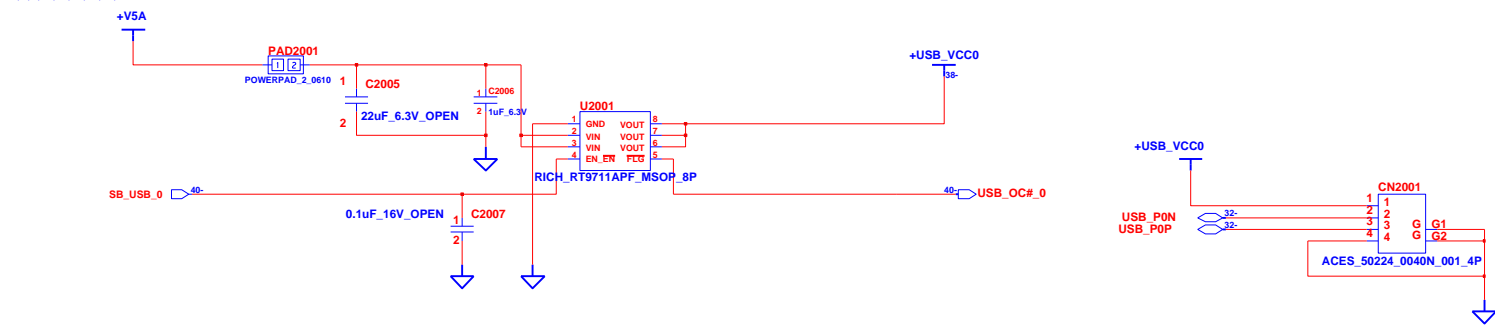
<i>INVENTEC</i>			
TITLE <i>BR10MLG</i> <i>SATA ODD</i>			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-MTR01	REV
SHEET 37		OF 61	

7-8-9-11-12-30-34-38-58-



www.aitech1.ru

7-8-9-11-12-30-34-38-58-



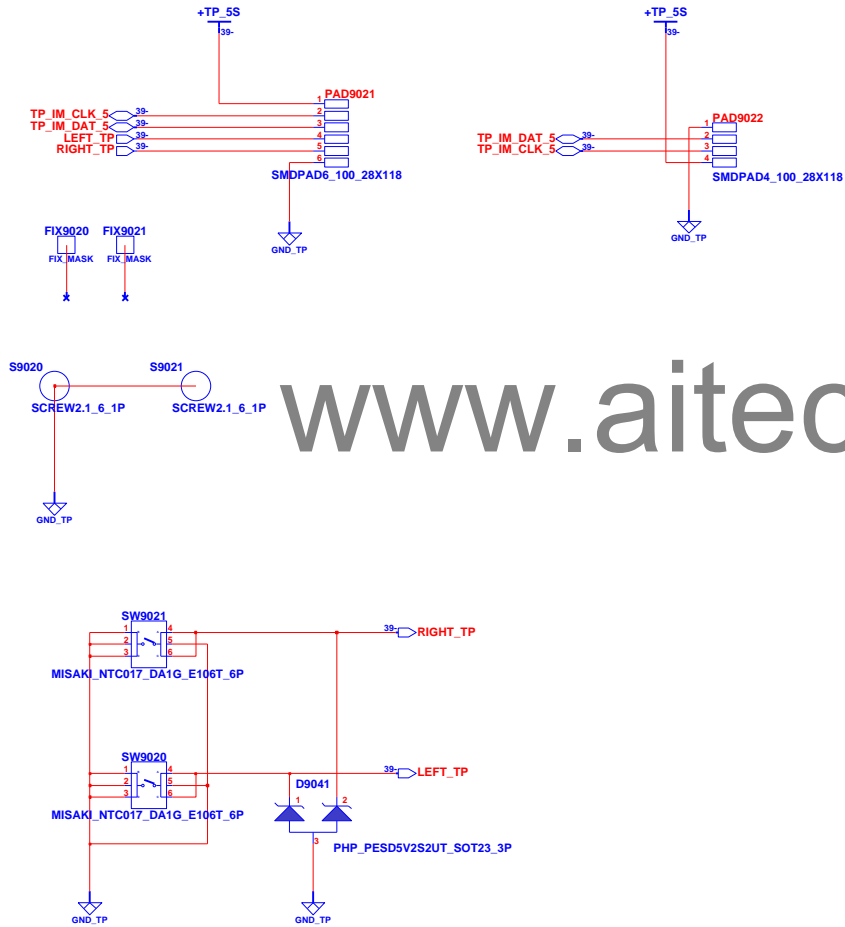
INVENTEC			
TITLE			
BRI0MLG			
USB CONN/USB(DB)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-3	101
CHANGE by		Lin.Jerry	7-Jan-2011
SHEET		38	OF 61

www.Teknisi-Indonesia.com

TOUCHPAD SWITCH BOARD

Connect to Touchpad Module

Connect to Mainboard's TP connector



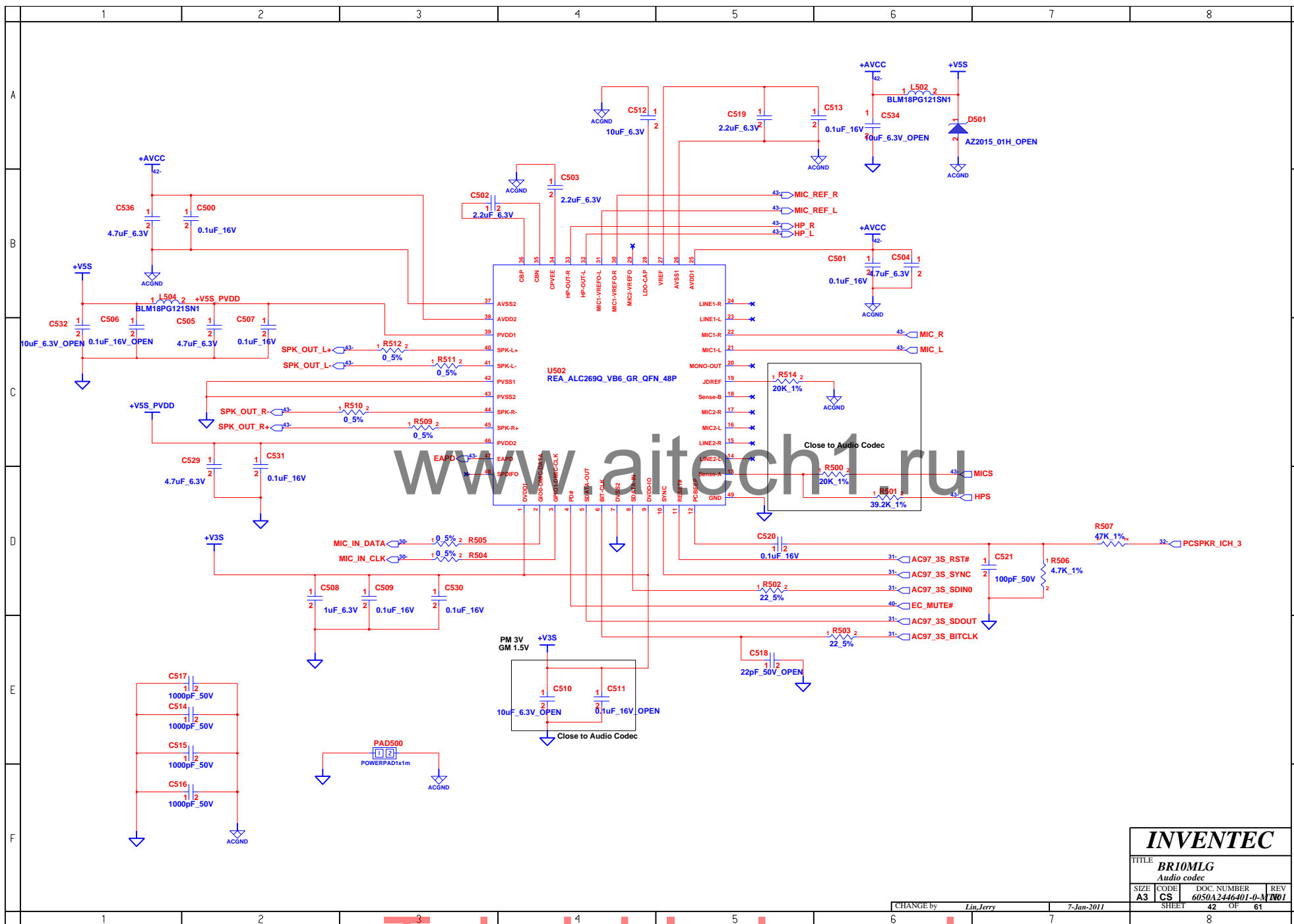
www.aitech1.ru

INVENTEC

TITLE BR10MLG TOUCHPAD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M	REV 001
SHEET 39		OF 61	

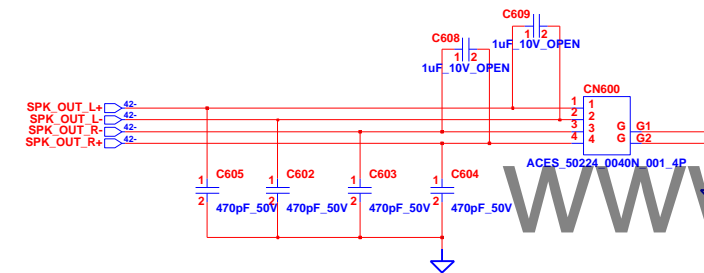
CHANGE by Lin Jerry 24-Feb-2011

www.Teknisi-Indonesia.com

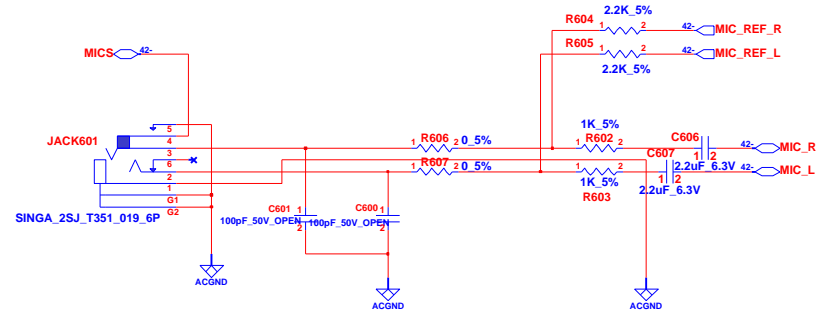


AUDIO JACKS

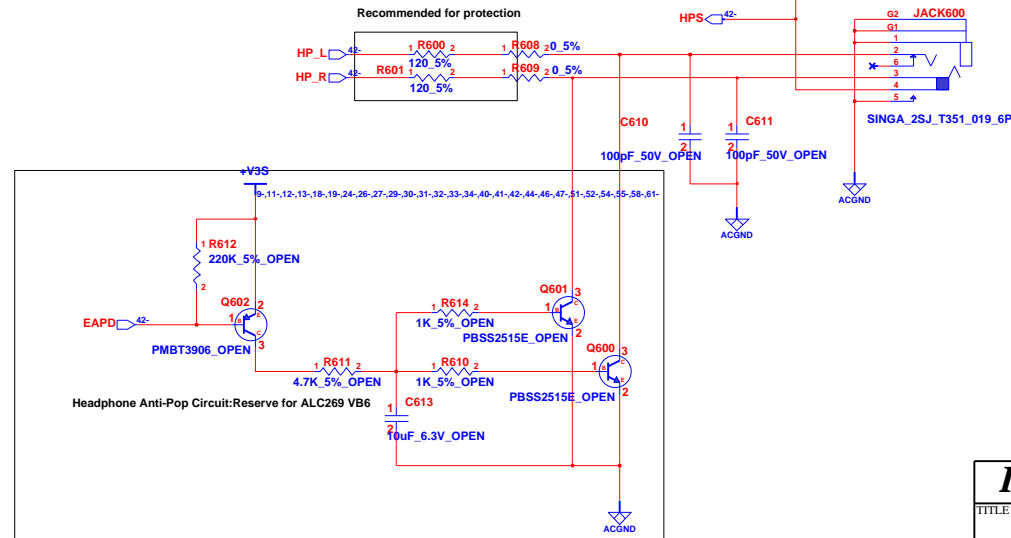
INTERNAL SPEAKERS



Port C External microphone



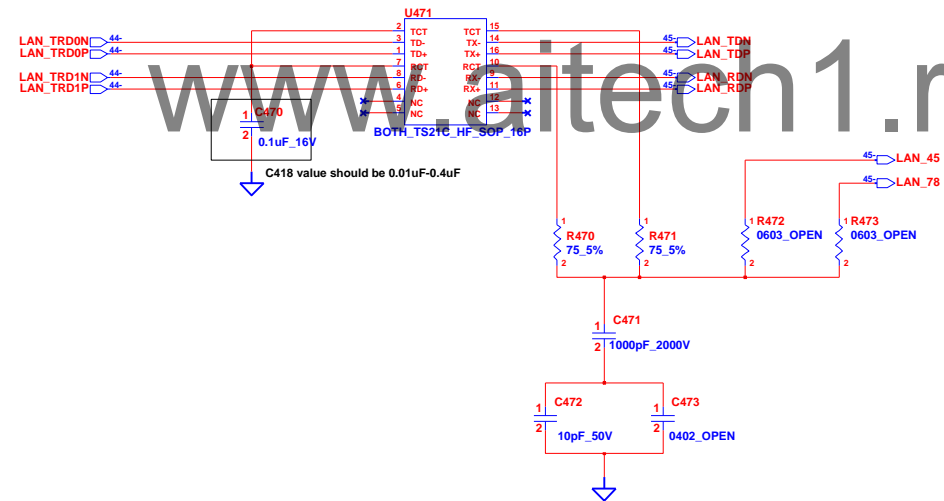
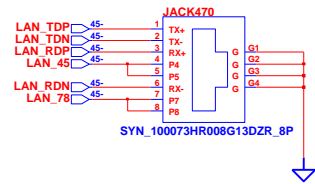
Port A Headphone



INVENTEC

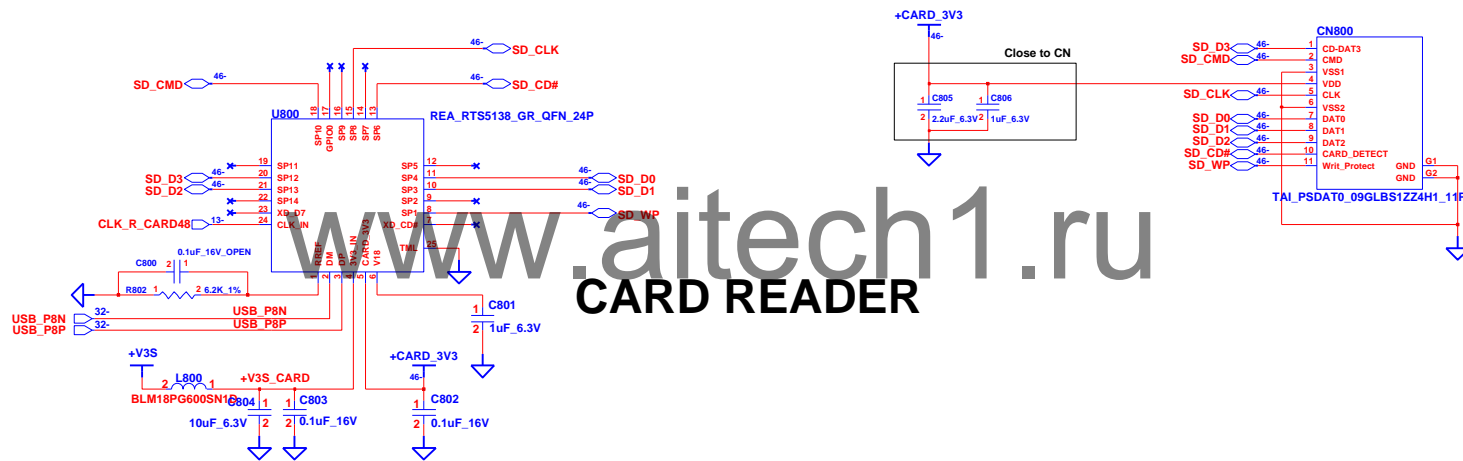
TITLE BRI0MLG Audio AMP&MIC&Speaker			
SIZE A3	CODE CS	DOC NUMBER 6050A2446401-0-MT	REV R001
SHEET 43		OF 61	

CHANGE by *Lin Jerry* 7-Jan-2011



INVENTEC			
TITLE			
BR10MLG			
Transformer&RJ45			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-MT	001
SHEET		45	OF 61

CHANGE by Lin, Jerry 7-Jan-2011

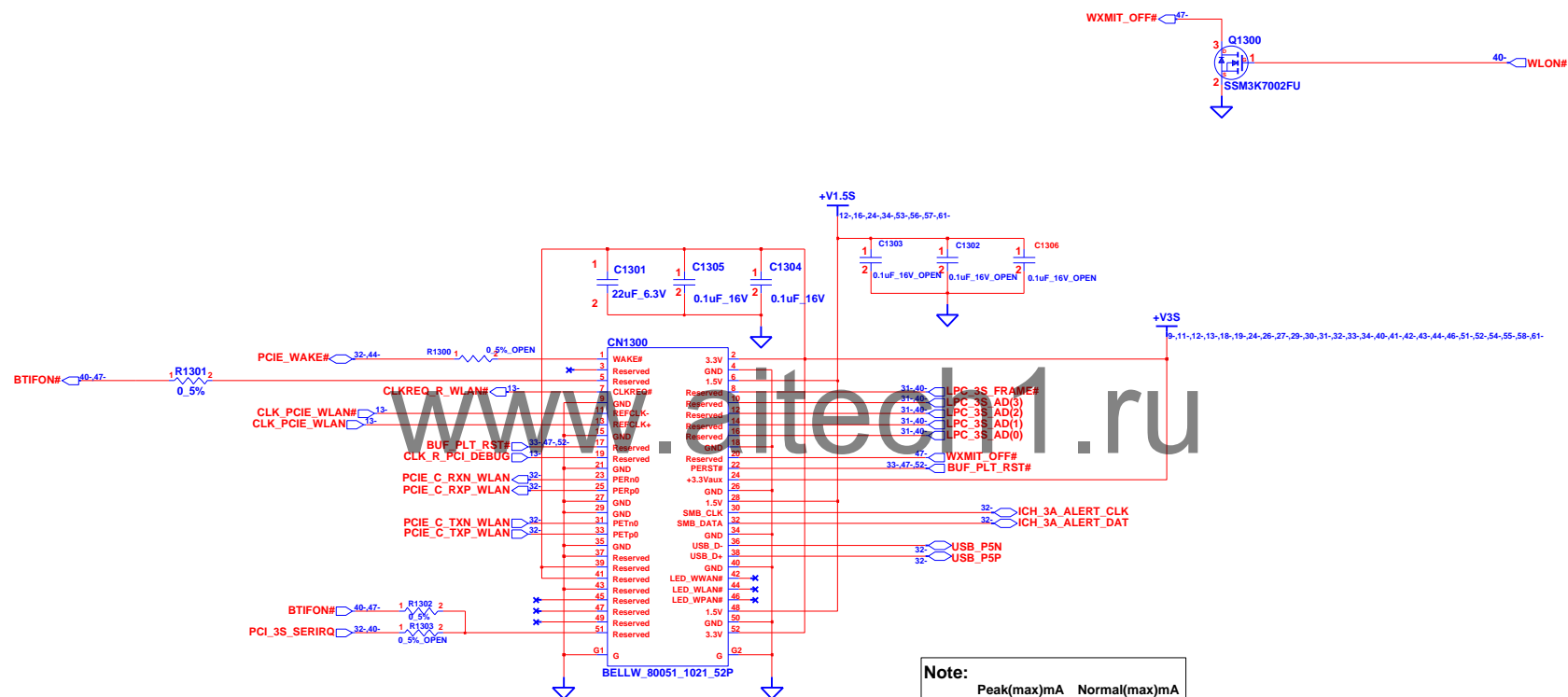


www.aitech1.ru
CARD READER

INVENTEC			
TITLE BR10MLG USB Card Reader			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-MT	REV R001
SHEET 46		OF 61	

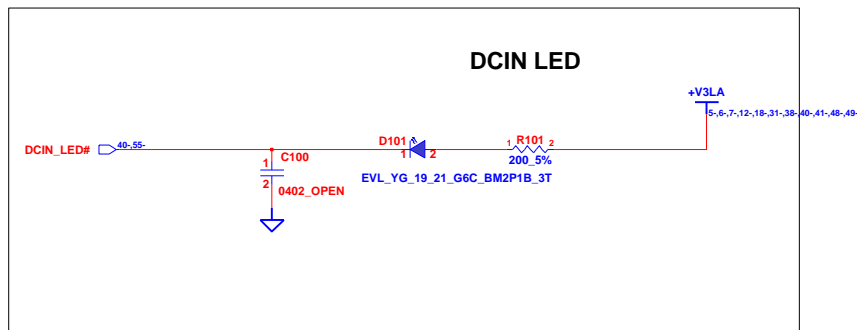
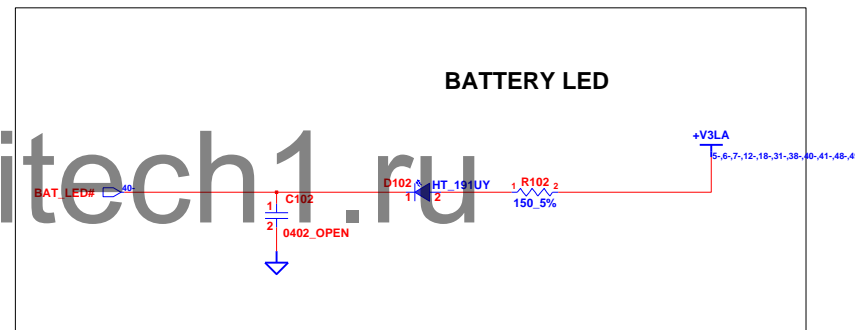
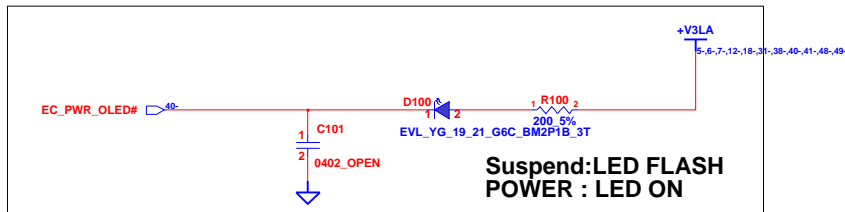
CHANGE by Lin Jerry 7-Jan-2011

Wireless & Debug card



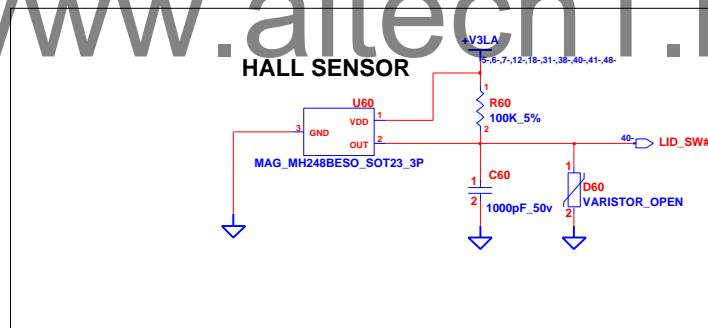
INVENTEC

TITLE BR10MLG Wireless & debug card			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-M101	REV 1
CHANGE by <i>Lin Jerry</i>		7-Jan-2011	
SHEET 47		OF 61	



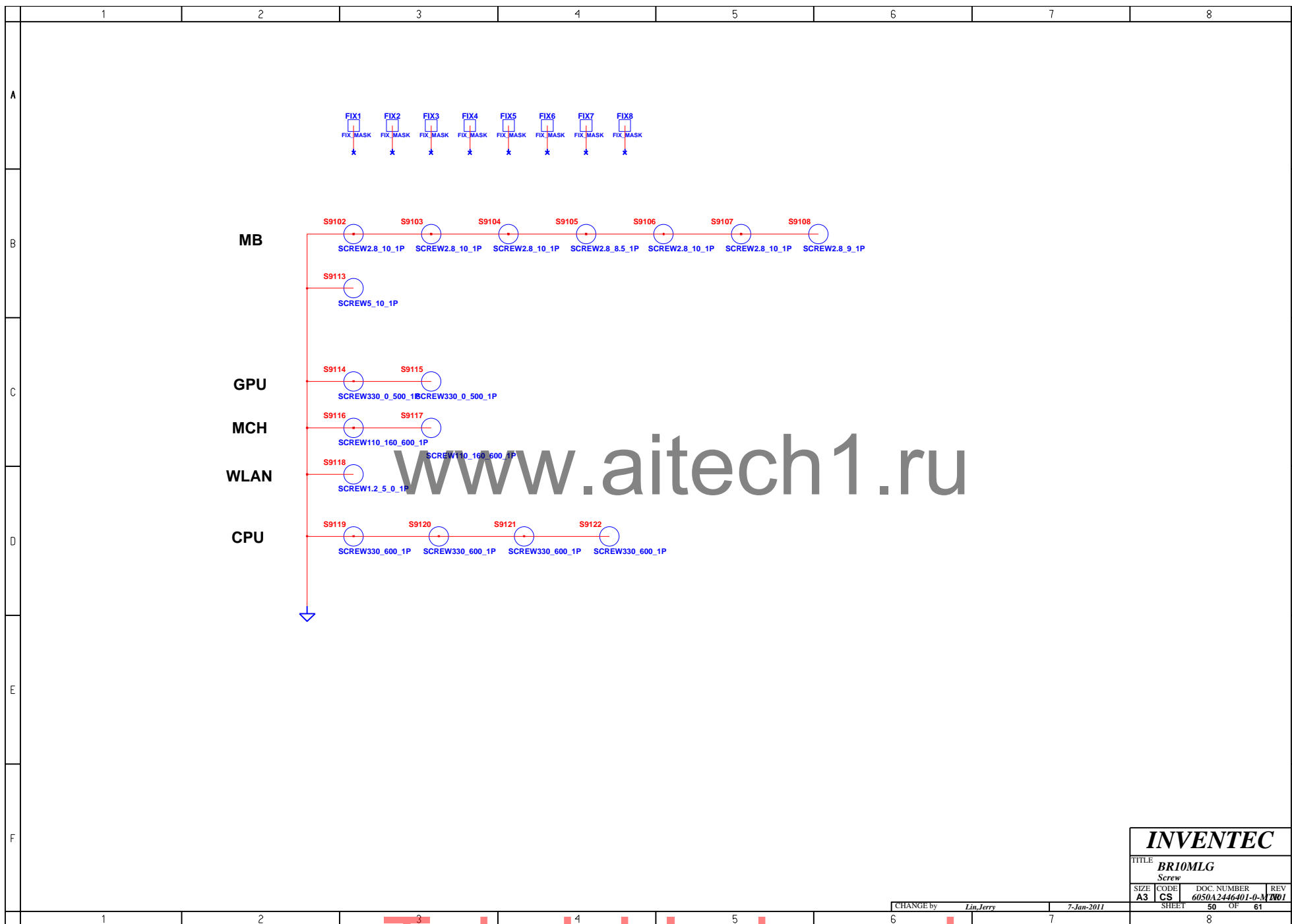
INVENTEC			
TITLE BR10MLG LED			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-31	REV B01
CHANGE by Lin Jerry		7-Jan-2011	SHEET 48 OF 61

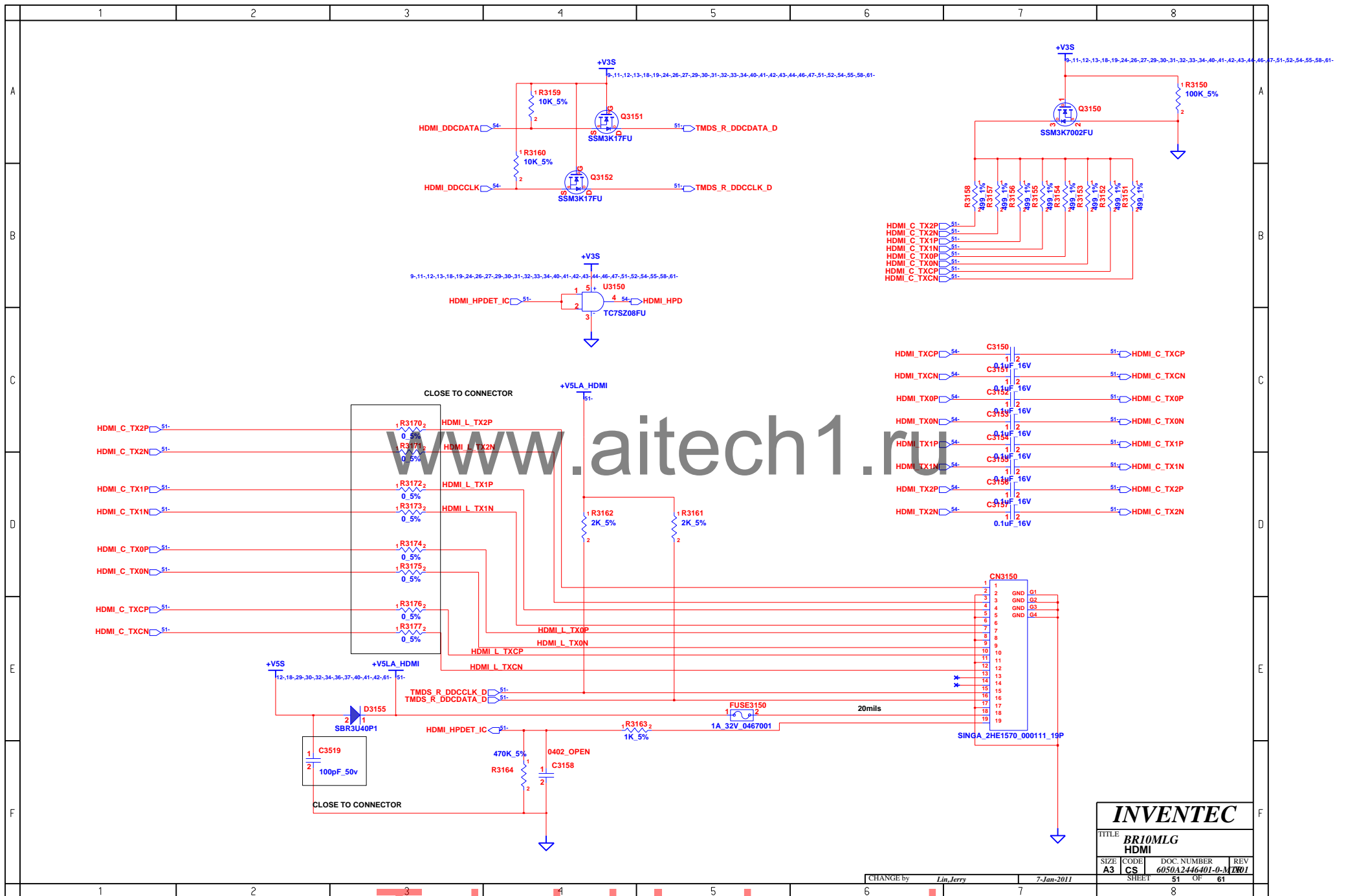
www.aitech1.ru



INVENTEC			
TITLE			
BR10MLG			
Kill Switch & Hall Sensor			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2446401-0-3	001
CHANGE by		Lin Jerry	7-Jan-2011
SHEET		49	OF 61

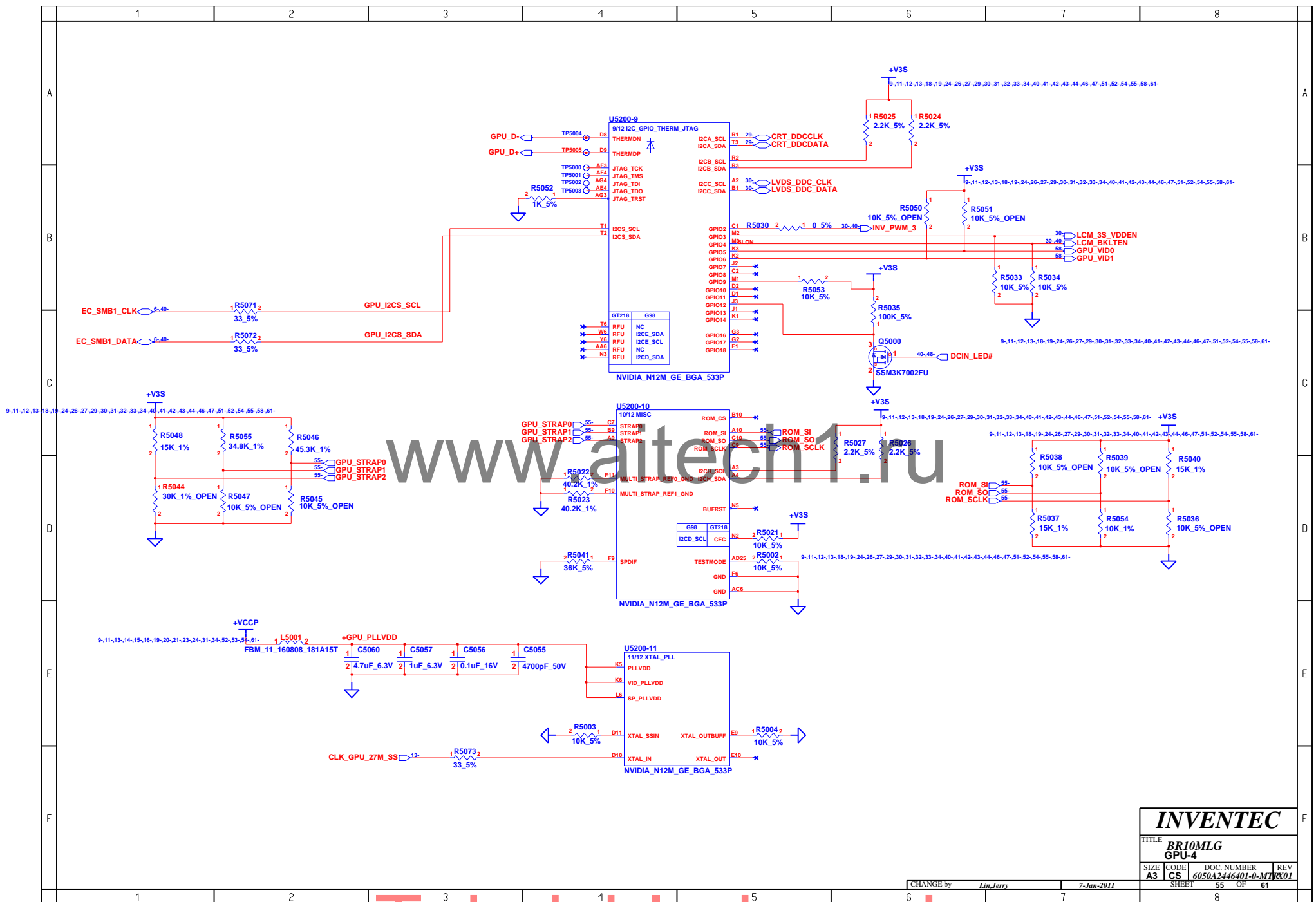
www.Teknisi-Indonesia.com

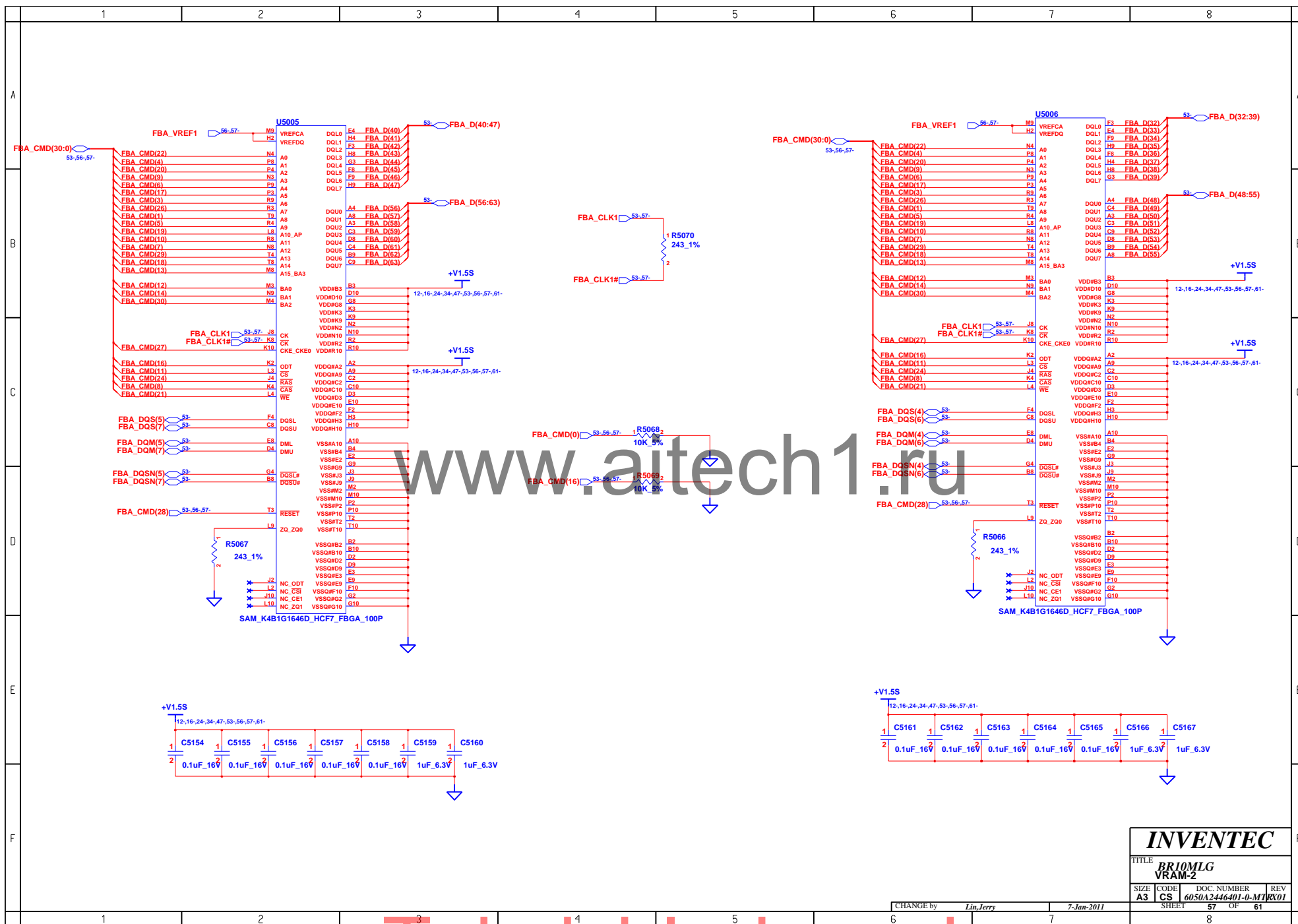


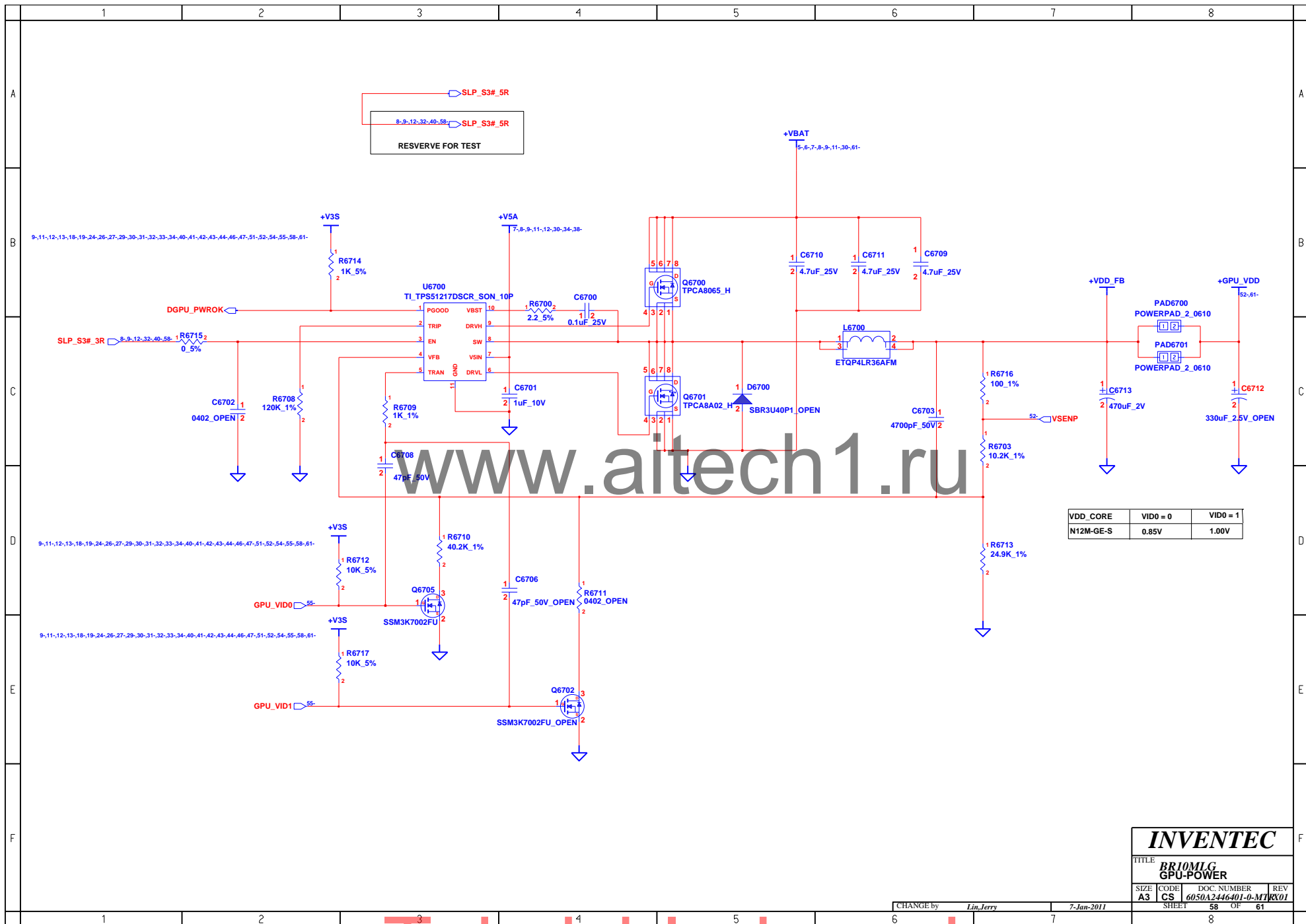


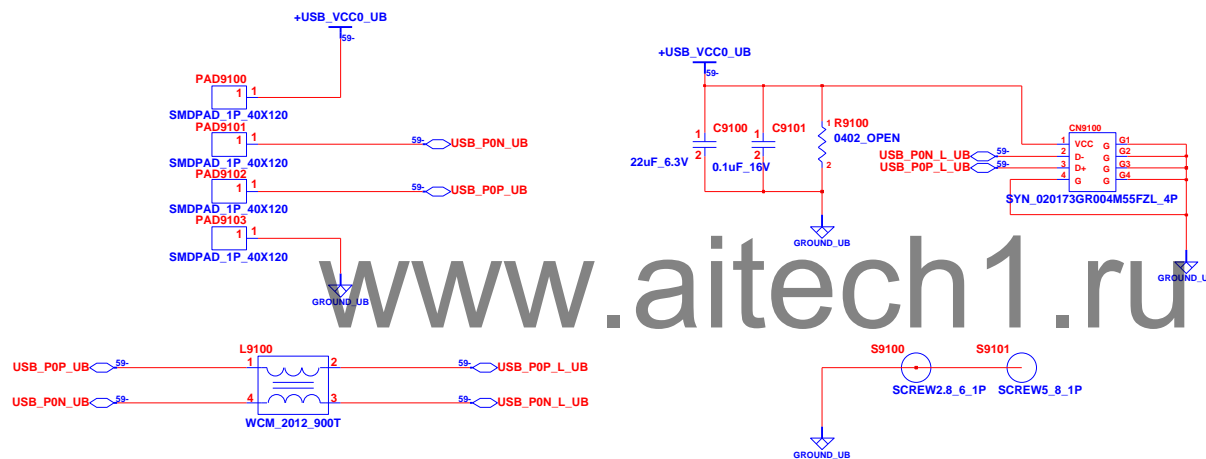




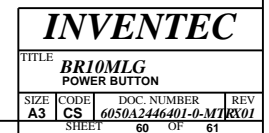




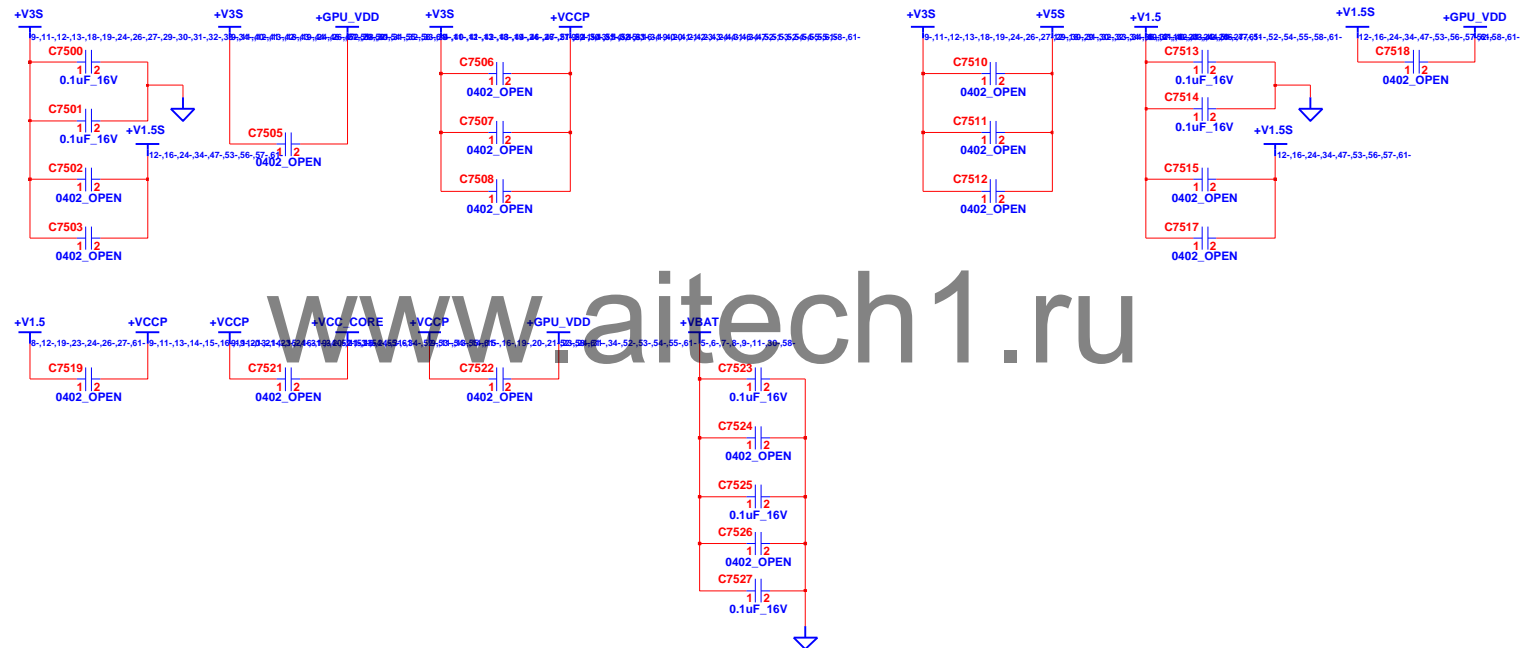




INVENTEC			
TITLE BR10MLG USB BOARD			
SIZE A3	CODE CS	DOC. NUMBER 6050A2446401-0-MT	REV R001
CHANGE by Lin Jerry		24-Feb-2011	SHEET 59 OF 61



EMI



INVENTEC			
TITLE: BR10MLG EMI			
SIZE: A3	CODE: CS	DOC. NUMBER: 6050A2446401-0-MT	REV: R001
SHEET: 61		OF: 61	