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Inventec Confidential

Arrandale
(Socket-rPGA989)

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(HM55)
(6019B0713401)

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P49~54

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VRAM
64M X 16

DDR III
VRAM
64M X 16

DDR III
VRAM
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DDR III
VRAM
64M X 16

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(HM55)
(6019B0713401)

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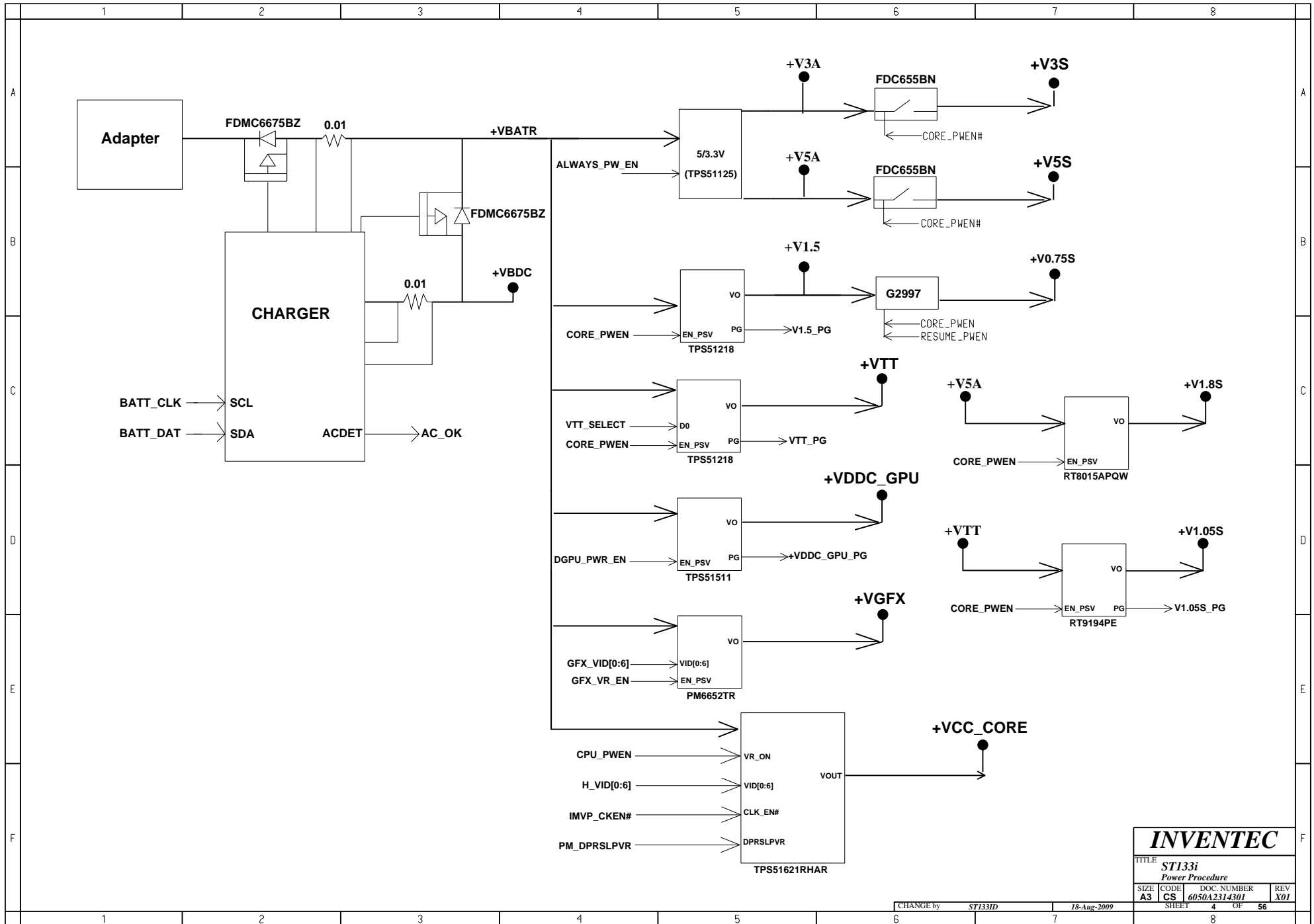
LCM
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TITLE
ST133i
Block Diagram
SIZE
A3
CODE
CS
DOC. NUMBER
6050A2314301
REV
X01

CHANGE by
ST133ID
21-Sep-2009

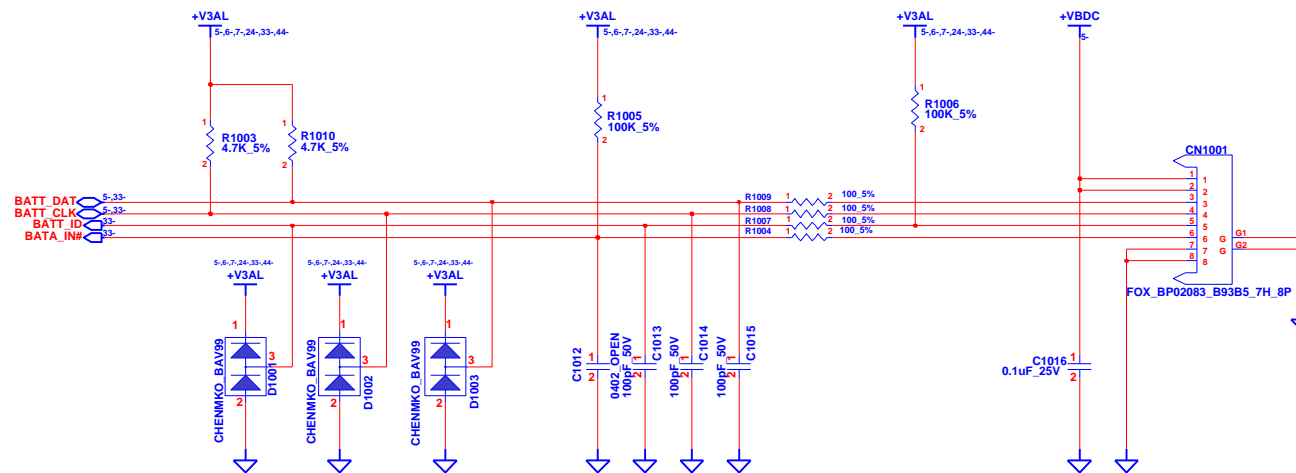
SHEET
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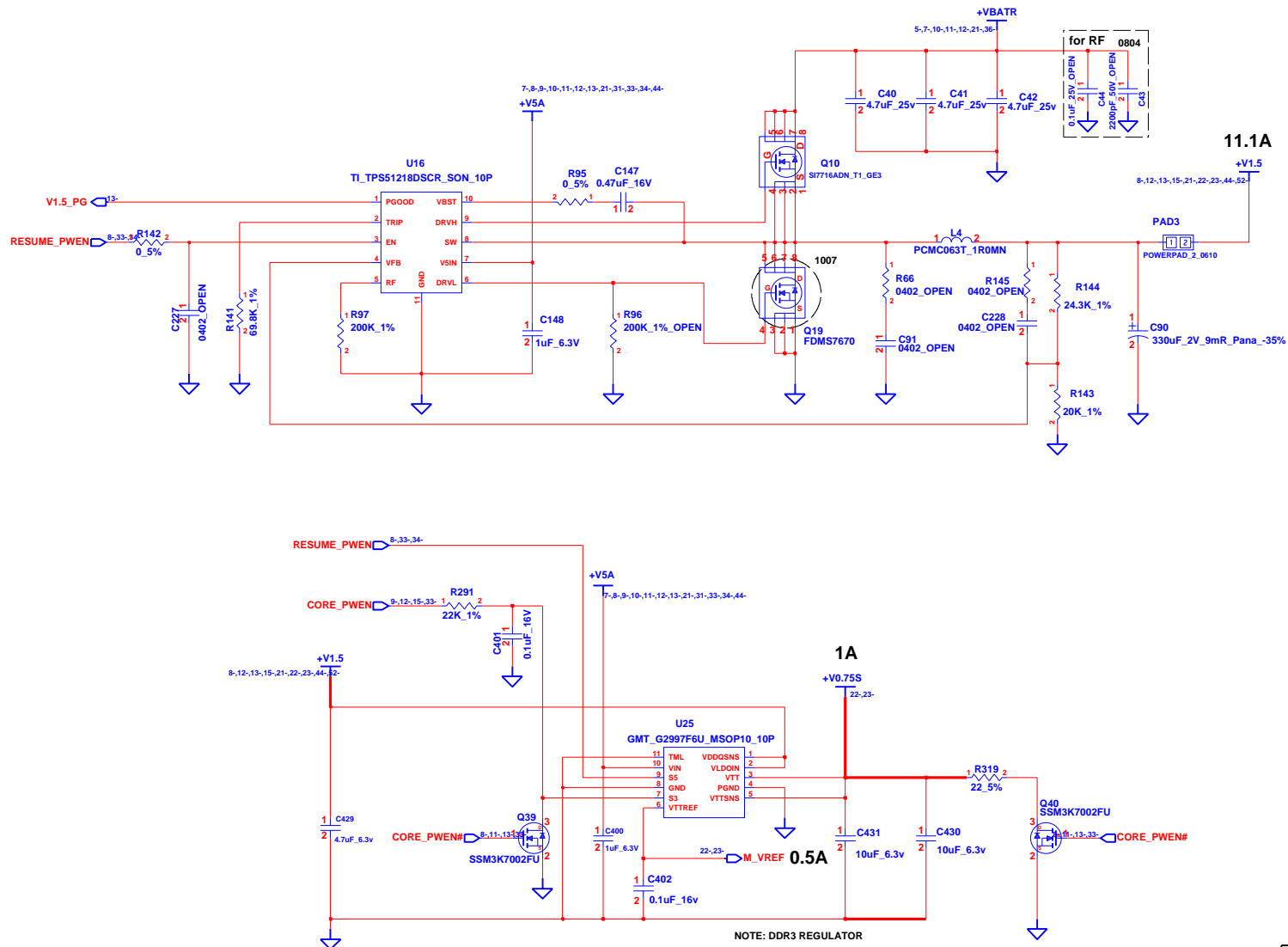
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TITLE			
ST133i			
Battery CONN			
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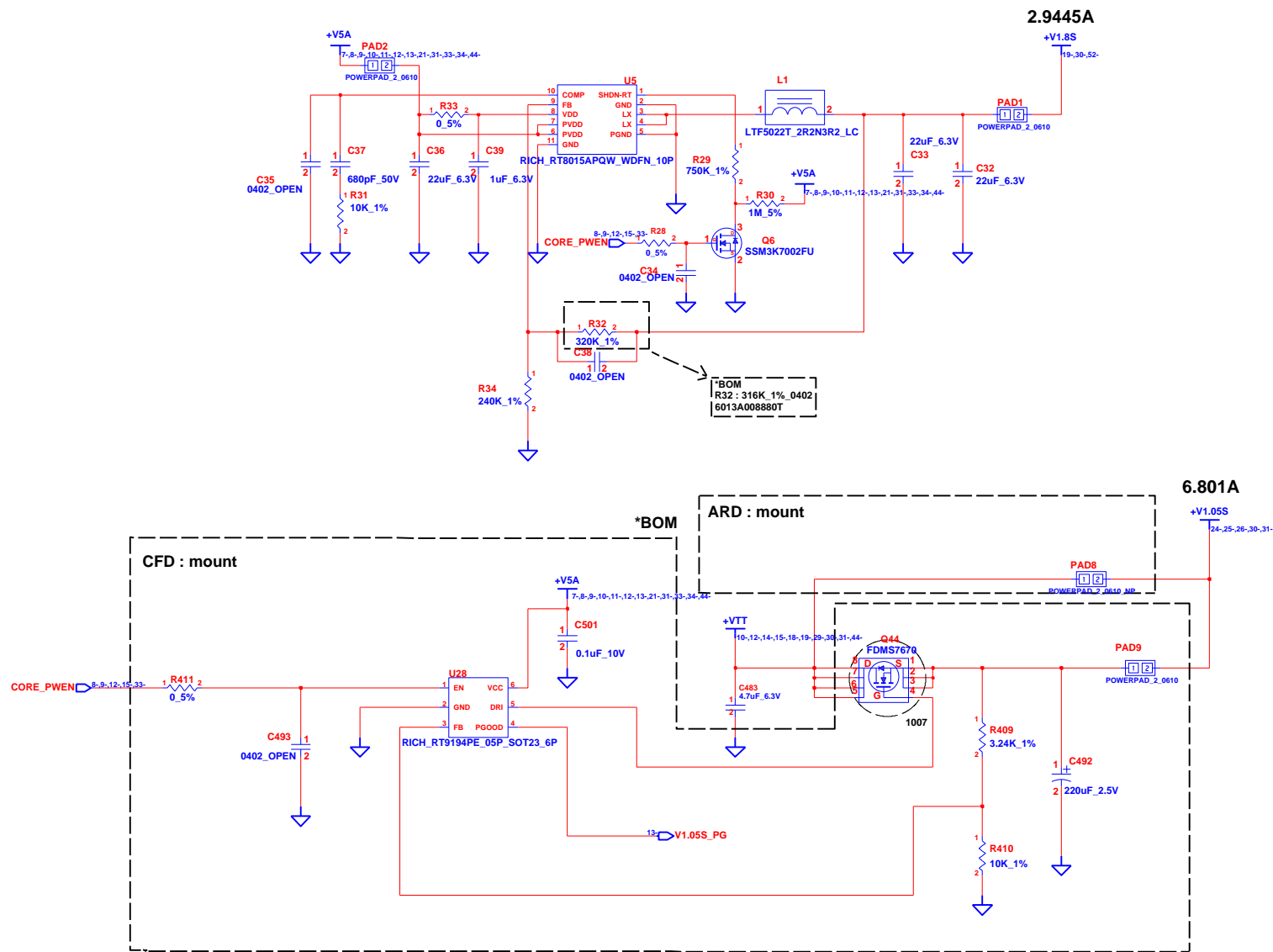


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+V1.5 & +V0.75			
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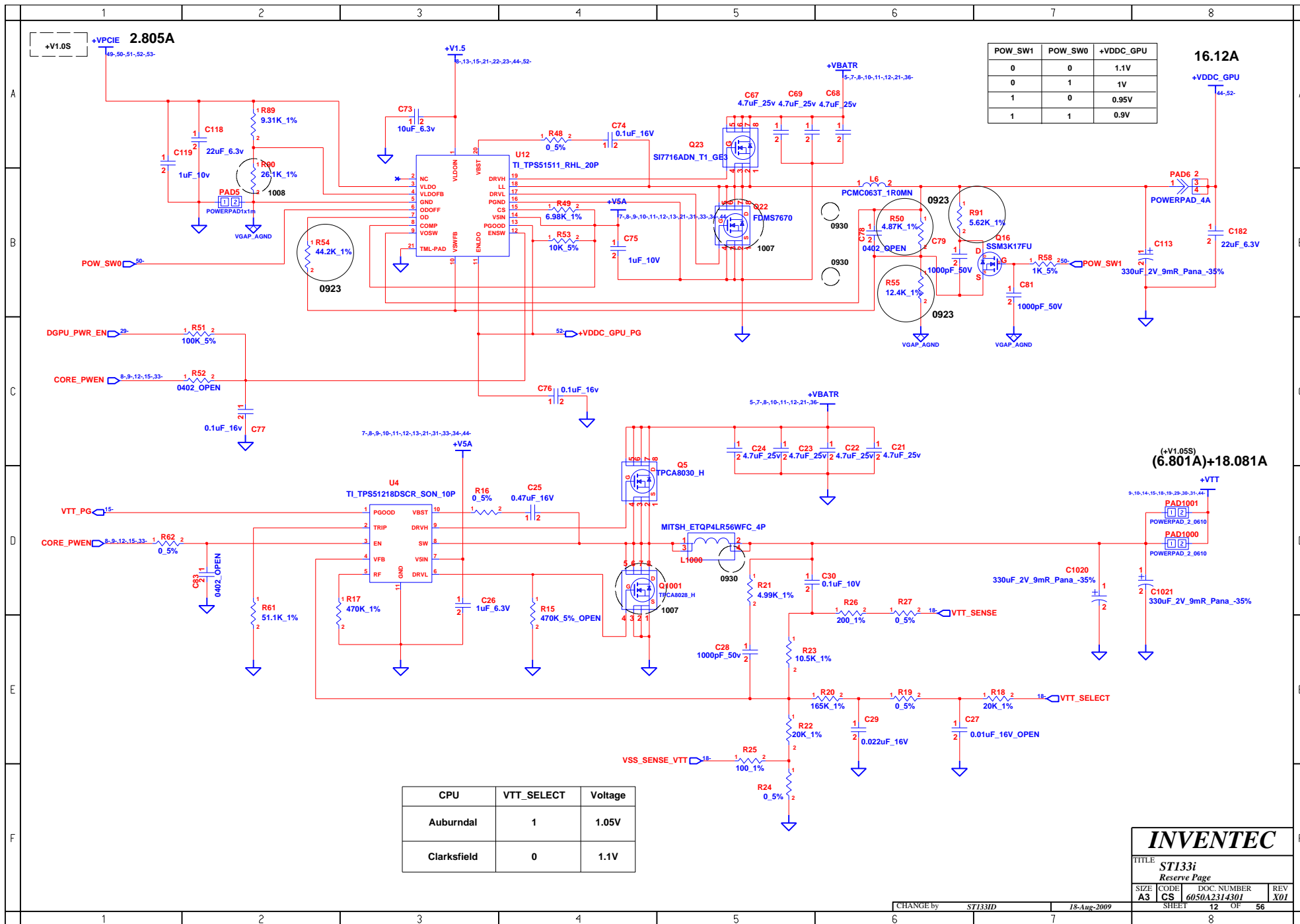
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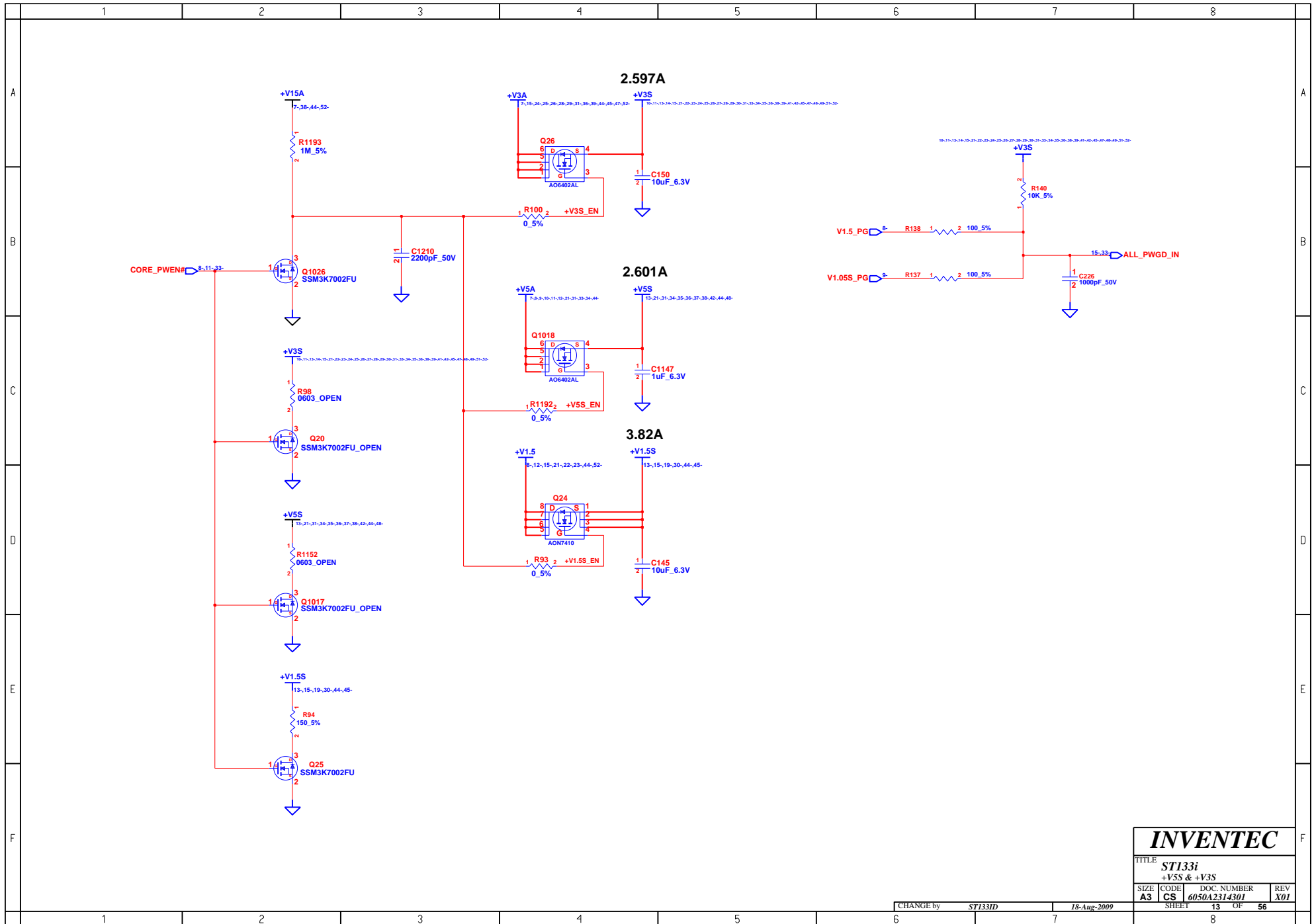
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+V1.8S & +V1.05S

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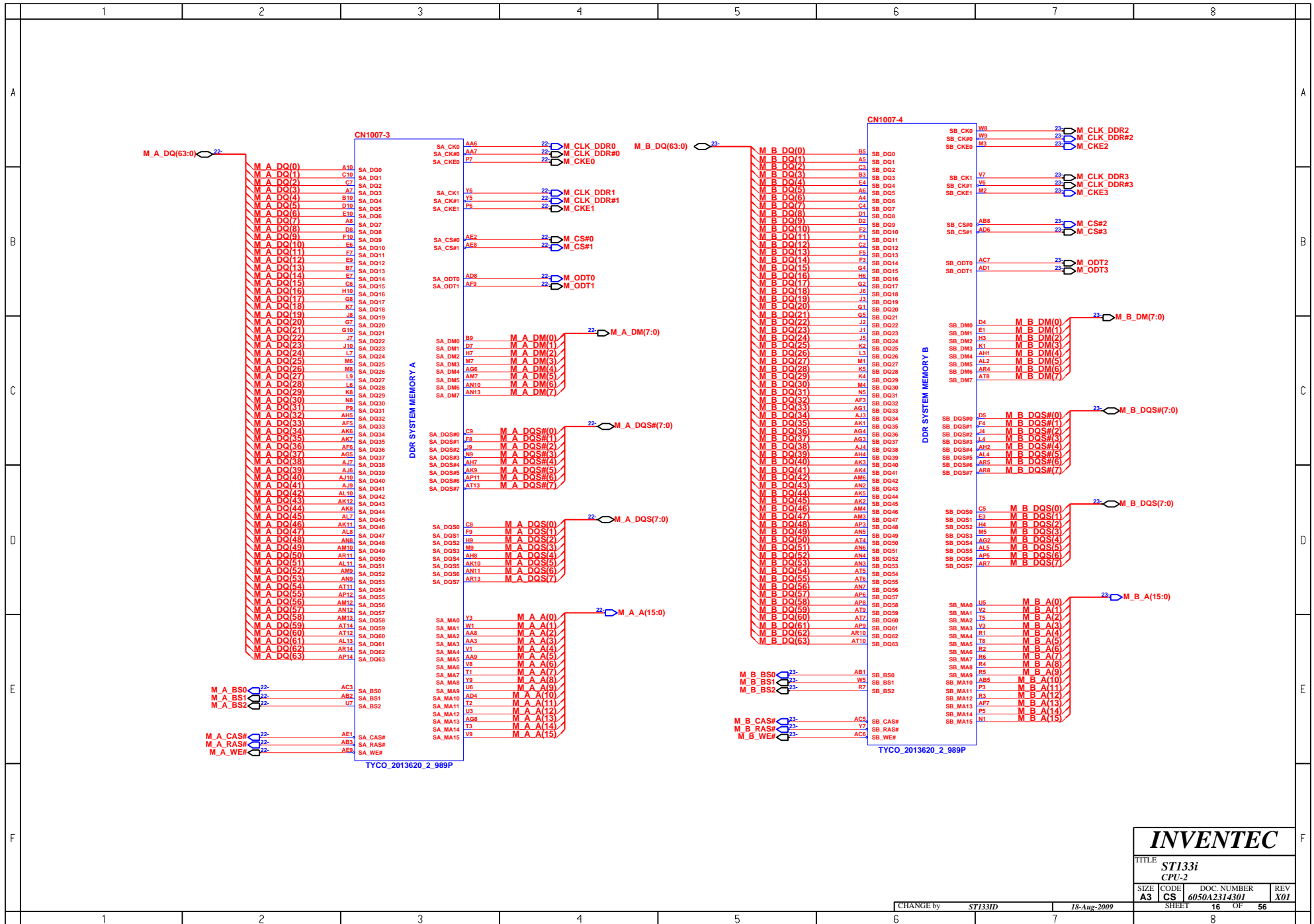




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ST133i			
+V5S & +V3S			
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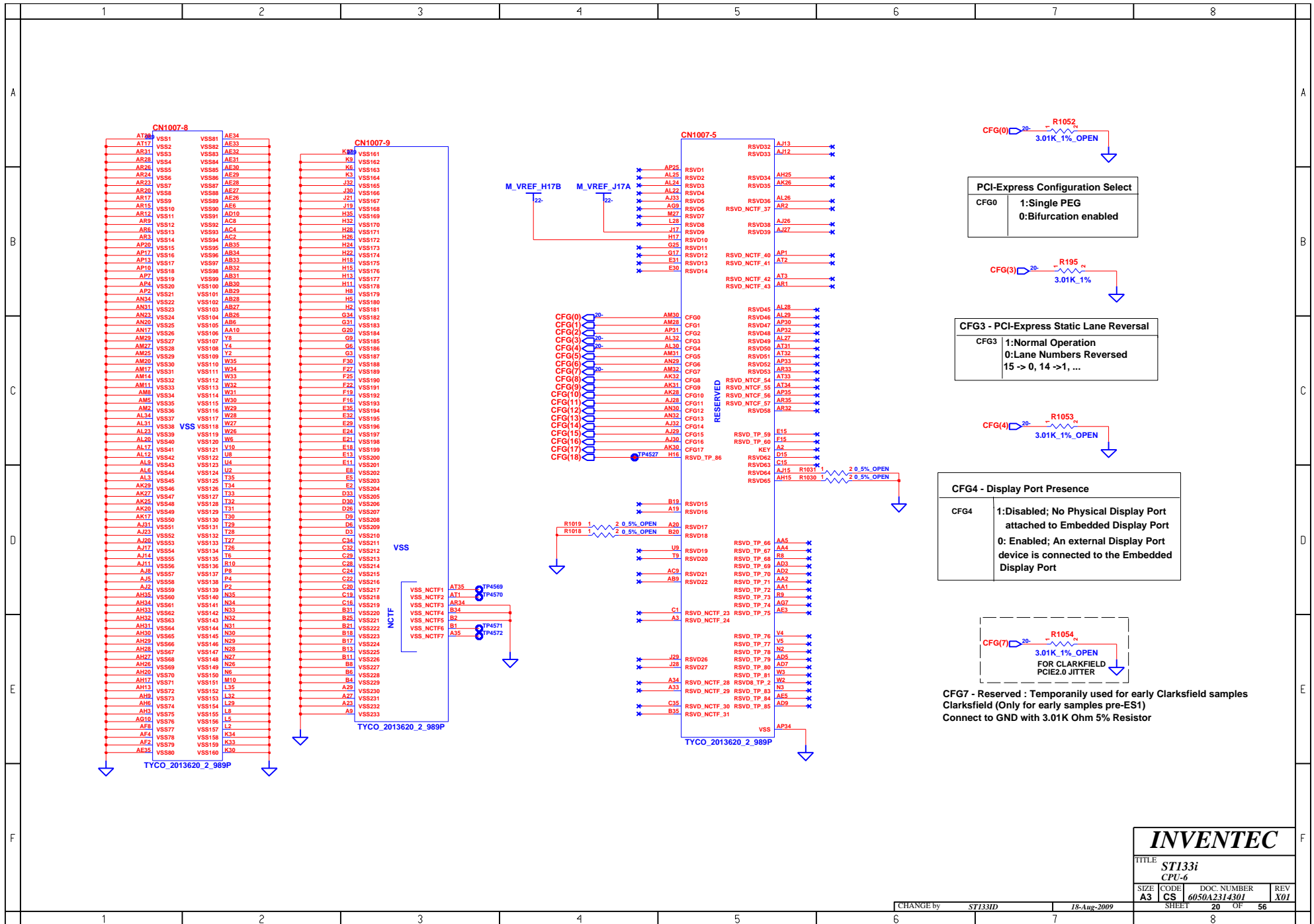
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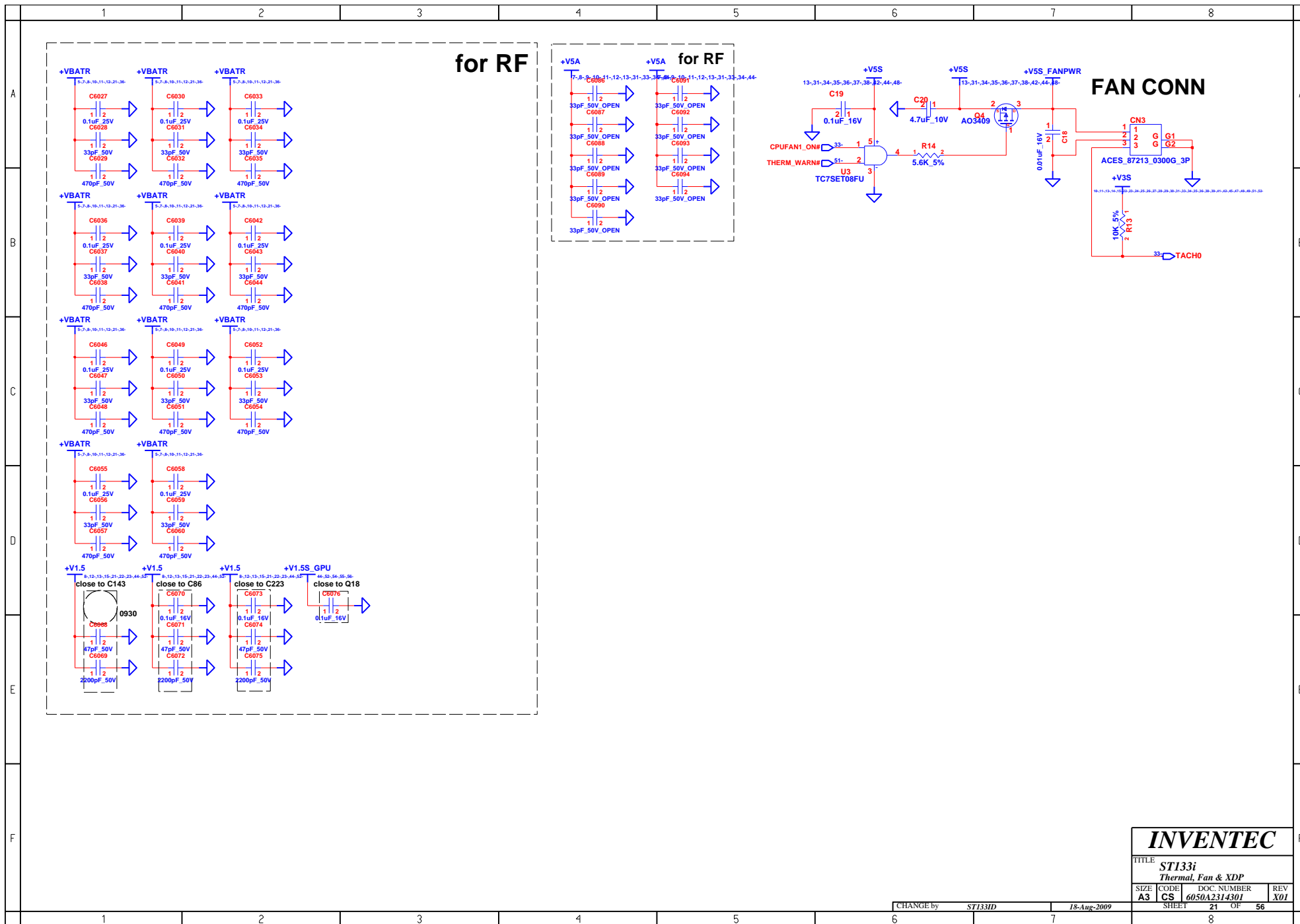


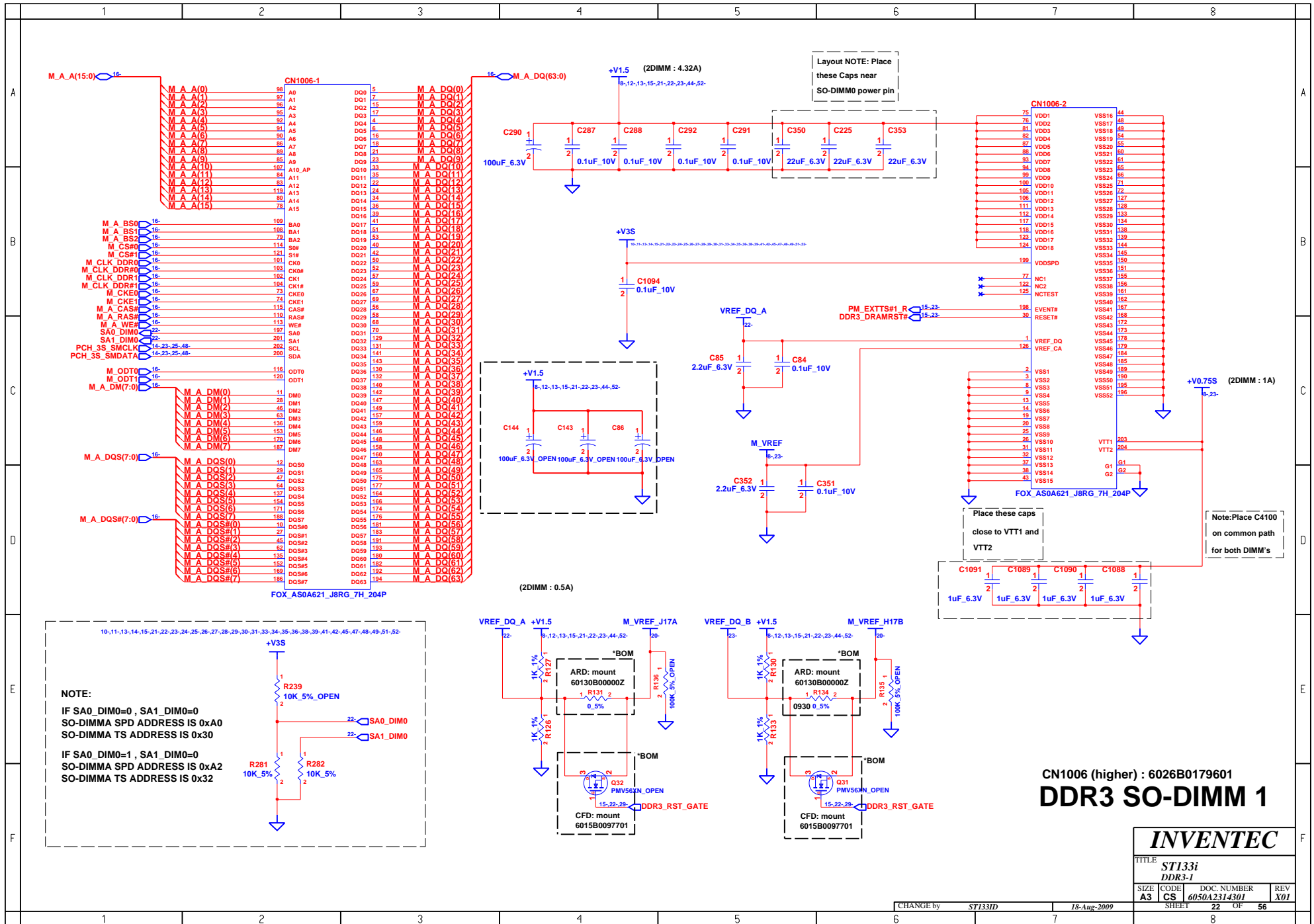
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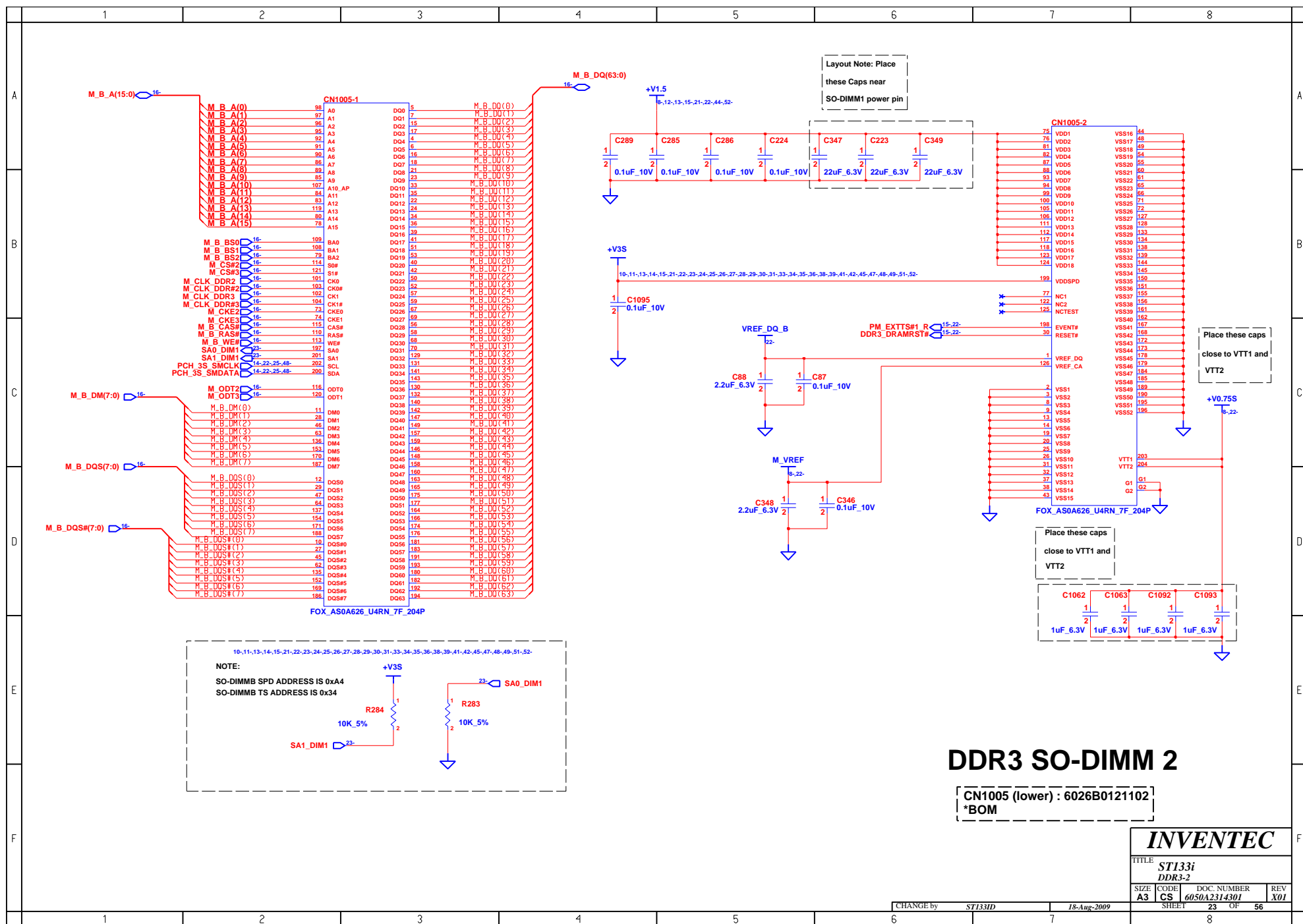
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CPU-2			
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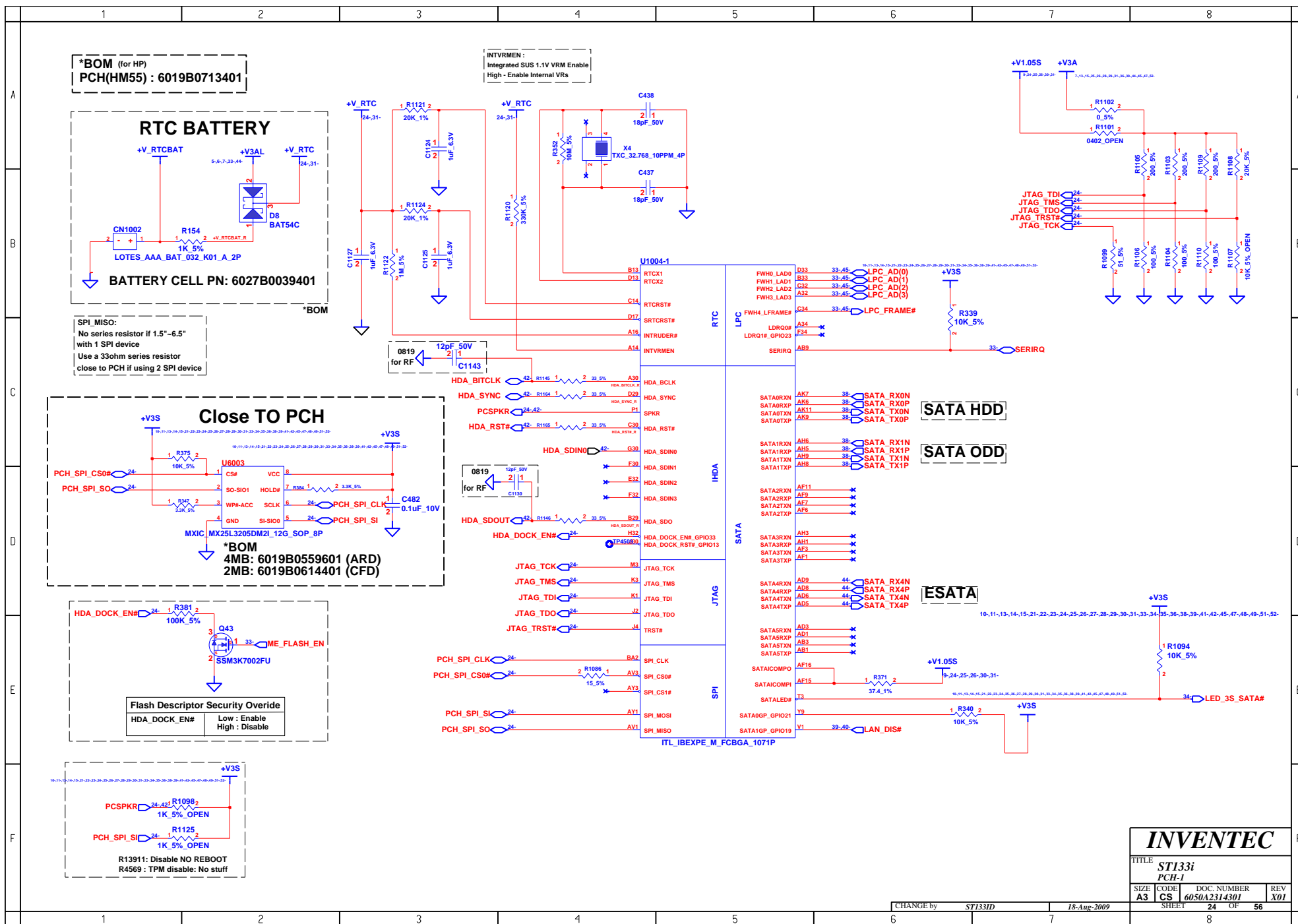
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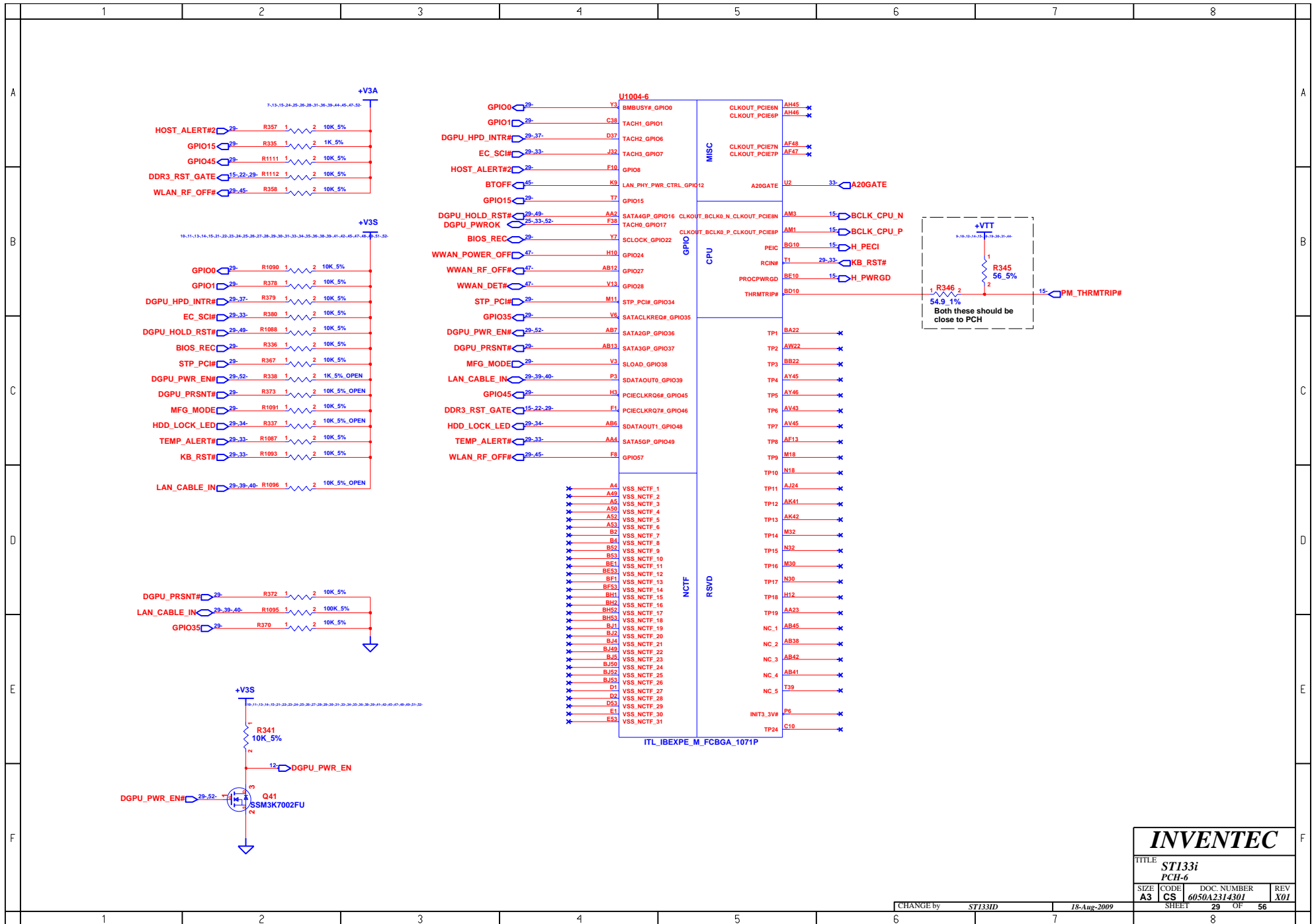












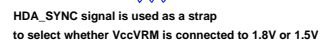
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TITLE
ST133i
PCH-6

SIZE CODE CS 6050A2314301 REV X01

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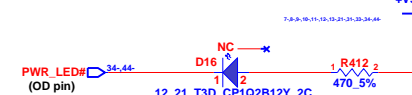
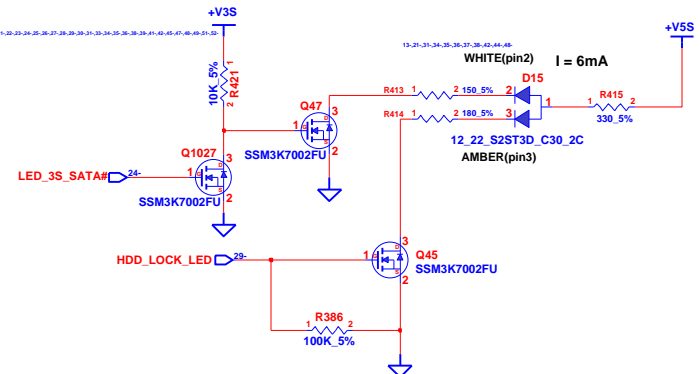
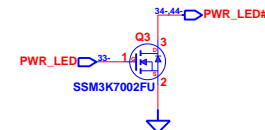
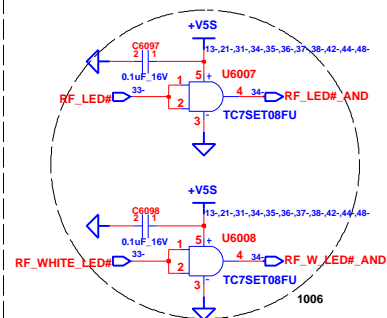
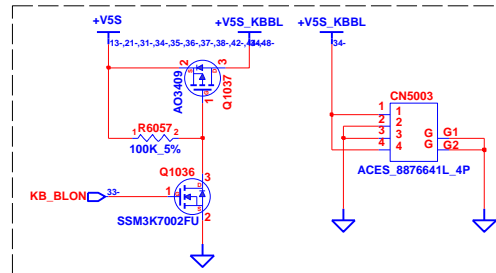
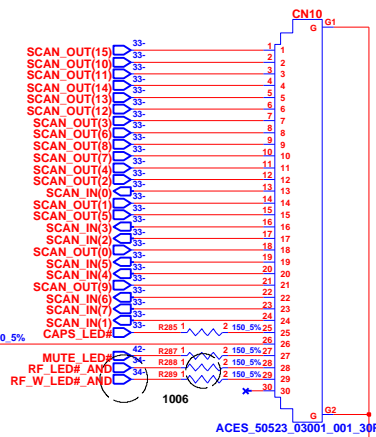
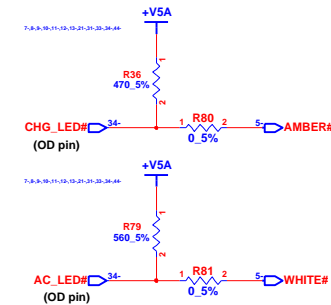
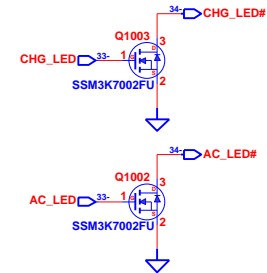
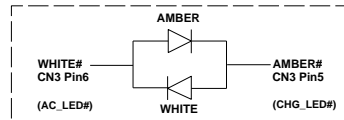
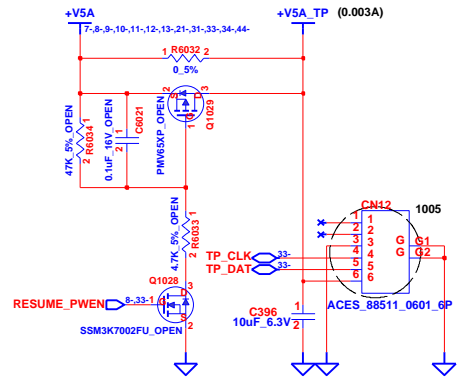
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TITLE			
<i>ST133i</i> <i>PCH-7</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		30	OF 56

CHANGE by	<i>ST133ID</i>	<i>18-Aug-2009</i>
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A	<div><div><div>U1004-9</div><div>AB16 VSS_0</div><div>AA19 VSS_1 VSS_90 AK30</div><div>AA20 VSS_2 VSS_81 AK31</div><div>AA22 VSS_3 VSS_82 AK32</div><div>AA10 VSS_4 VSS_83 AK34</div><div>AA24 VSS_5 VSS_84 AK35</div><div>AA26 VSS_6 VSS_85 AK38</div><div>AA28 VSS_7 VSS_86 AK39</div><div>AA30 VSS_8 VSS_87 AK46</div><div>AA31 VSS_9 VSS_88 AK49</div><div>AA32 VSS_10 VSS_89 AK5</div><div>AB11 VSS_11 VSS_90 AK6</div><div>AB15 VSS_12 VSS_91 AL2</div><div>AB23 VSS_13 VSS_92 AL52</div><div>AB30 VSS_14 VSS_93 AM11</div><div>AB31 VSS_15 VSS_94 BB44</div><div>AB32 VSS_16 VSS_95 AD24</div><div>AB39 VSS_17 VSS_96 AM29</div><div>AB43 VSS_18 VSS_97 AM22</div><div>AB47 VSS_19 VSS_98 AM44</div><div>AB5 VSS_20 VSS_99 AM26</div><div>AB8 VSS_21 VSS_100 AM28</div><div>AC2 VSS_22 VSS_101 BA42</div><div>AC52 VSS_23 VSS_102 AM30</div><div>AD11 VSS_24 VSS_103 AM31</div><div>AD12 VSS_25 VSS_104 AM32</div><div>AD18 VSS_26 VSS_105 AM34</div><div>AD23 VSS_27 VSS_106 AM35</div><div>AD30 VSS_28 VSS_107 AM38</div><div>AD31 VSS_29 VSS_108 AM39</div><div>AD32 VSS_30 VSS_109 AM42</div><div>AD34 VSS_31 VSS_110 AU20</div><div>AU22 VSS_32 VSS_111 AM46</div><div>AD42 VSS_33 VSS_112 AV22</div><div>AD46 VSS_34 VSS_113 AM49</div><div>AD49 VSS_35 VSS_114 AM7</div><div>AD7 VSS_36 VSS_115 AA50</div><div>AE4 VSS_37 VSS_116 BB10</div><div>AF12 VSS_38 VSS_117 AN32</div><div>Y13 VSS_39 VSS_118 AN50</div><div>Y13 VSS_40 VSS_119 AN52</div><div>AH49 VSS_41 VSS_120 AP12</div><div>AU4 VSS_42 VSS_121 AP42</div><div>AF35 VSS_43 VSS_122 AP46</div><div>AP13 VSS_44 VSS_123 AP49</div><div>AN34 VSS_45 VSS_124 AP5</div><div>AF45 VSS_46 VSS_125 AP6</div><div>AF46 VSS_47 VSS_126 AR2</div><div>AF49 VSS_48 VSS_127 AR52</div><div>AF5 VSS_49 VSS_128 AT11</div><div>AF8 VSS_50 VSS_129 BA12</div><div>AG2 VSS_51 VSS_130 AH88</div><div>AG52 VSS_52 VSS_131 AT32</div><div>AH11 VSS_53 VSS_132 AT38</div><div>AH15 VSS_54 VSS_133 AT41</div><div>AH16 VSS_55 VSS_134 AT47</div><div>AH24 VSS_56 VSS_135 AT7</div><div>AH32 VSS_57 VSS_136 AV12</div><div>AV18 VSS_58 VSS_137 AV16</div><div>AH43 VSS_59 VSS_138 AV20</div><div>AH47 VSS_60 VSS_139 AV24</div><div>AH7 VSS_61 VSS_140 AV39</div><div>AV19 VSS_62 VSS_141 AV34</div><div>AJ2 VSS_63 VSS_142 AV38</div><div>AJ20 VSS_64 VSS_143 AV42</div><div>AJ22 VSS_65 VSS_144 AV46</div><div>AJ23 VSS_66 VSS_145 AV49</div><div>AJ26 VSS_67 VSS_146 AV5</div><div>AJ28 VSS_68 VSS_147 AV8</div><div>AJ32 VSS_69 VSS_148 AW14</div><div>AJ24 VSS_70 VSS_149 AW18</div><div>AT5 VSS_71 VSS_150 AW2</div><div>AJ4 VSS_72 VSS_151 B9</div><div>AK12 VSS_73 VSS_152 AW32</div><div>AM41 VSS_74 VSS_153 AW36</div><div>AN19 VSS_75 VSS_154 AW40</div><div>AK28 VSS_76 VSS_155 AW52</div><div>AK52 VSS_77 VSS_156 AT11</div><div>AK23 VSS_78 VSS_157 AY43</div><div>AK28 VSS_79 VSS_158 AY47</div></div><div>ITL_IBEXPE_M_FCBGA_1071P</div></div>								
B									
C									
D									
E									
F									
	1	2	3	4	5	6	7	8	
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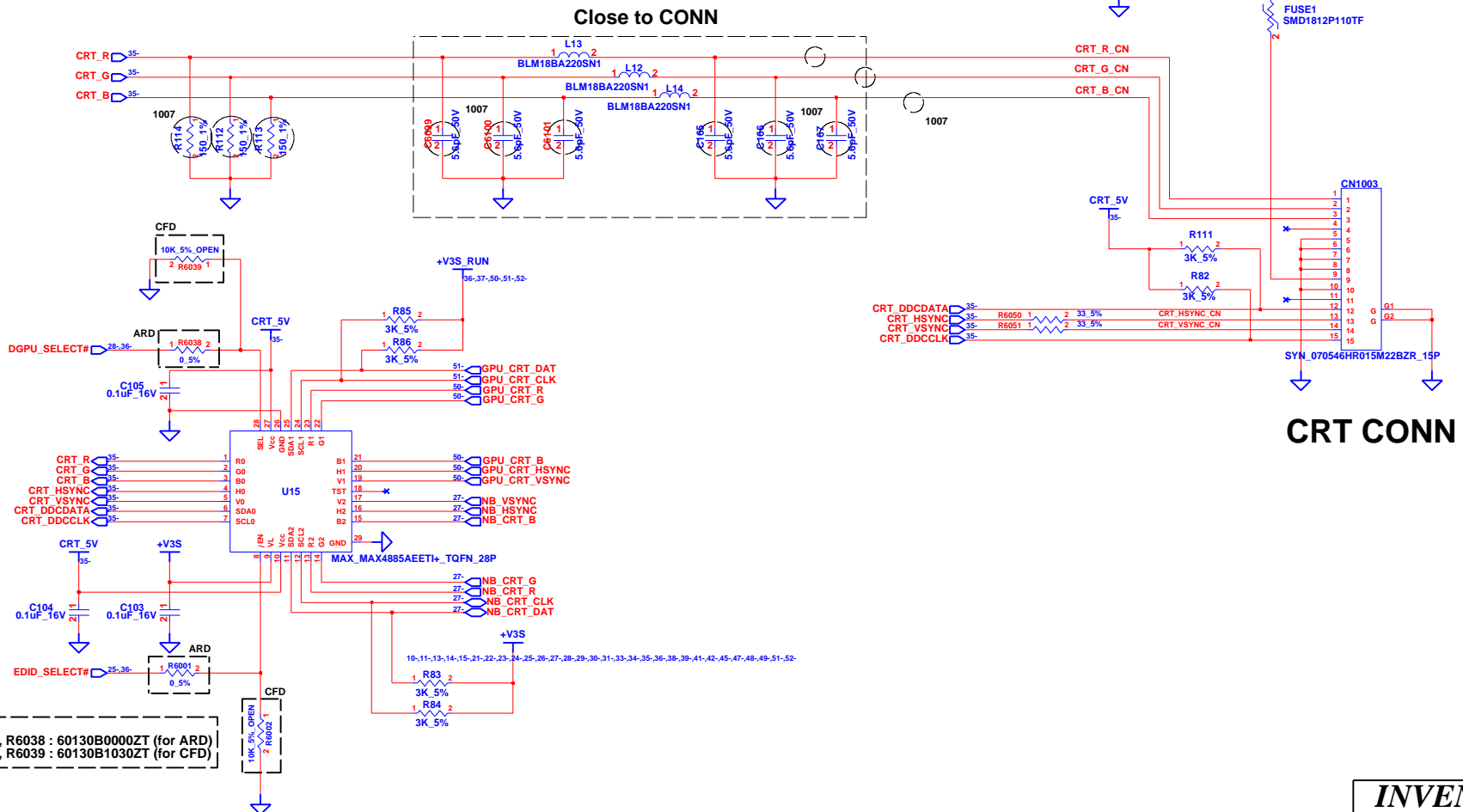


TITLE	<i>ST133i</i> <i>Keyboard & TouchPad</i>
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SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
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Discrete mode ONLY

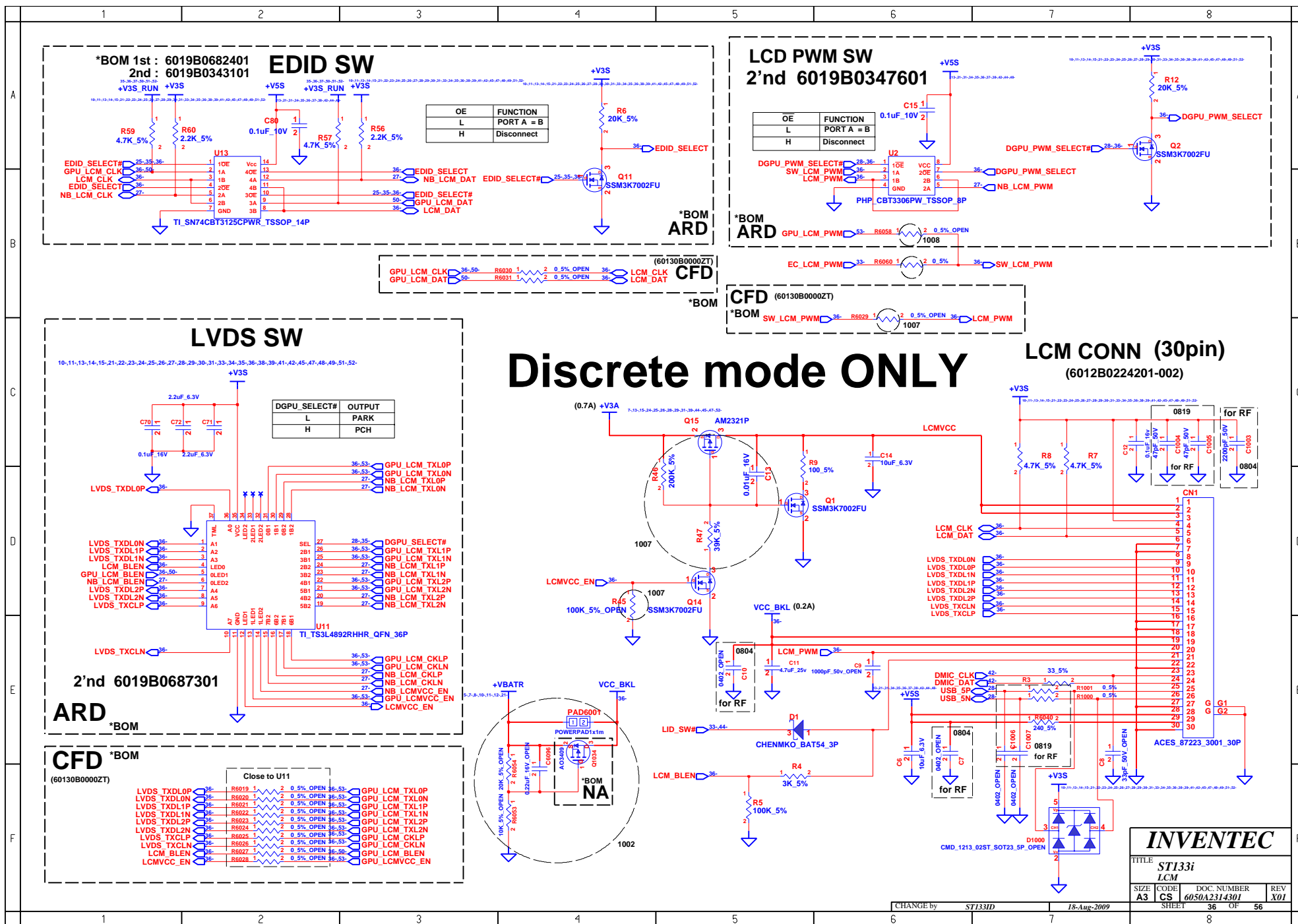
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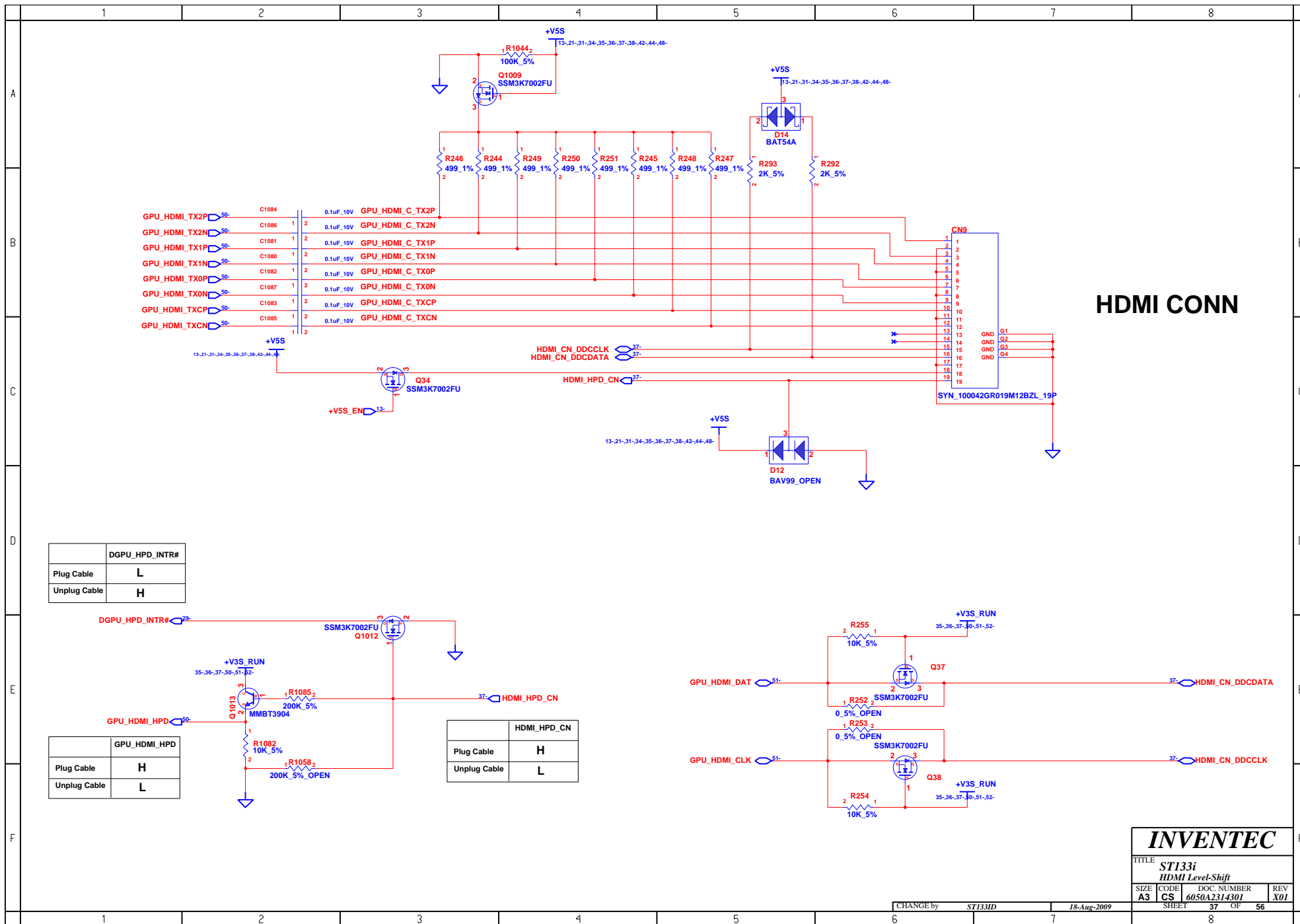


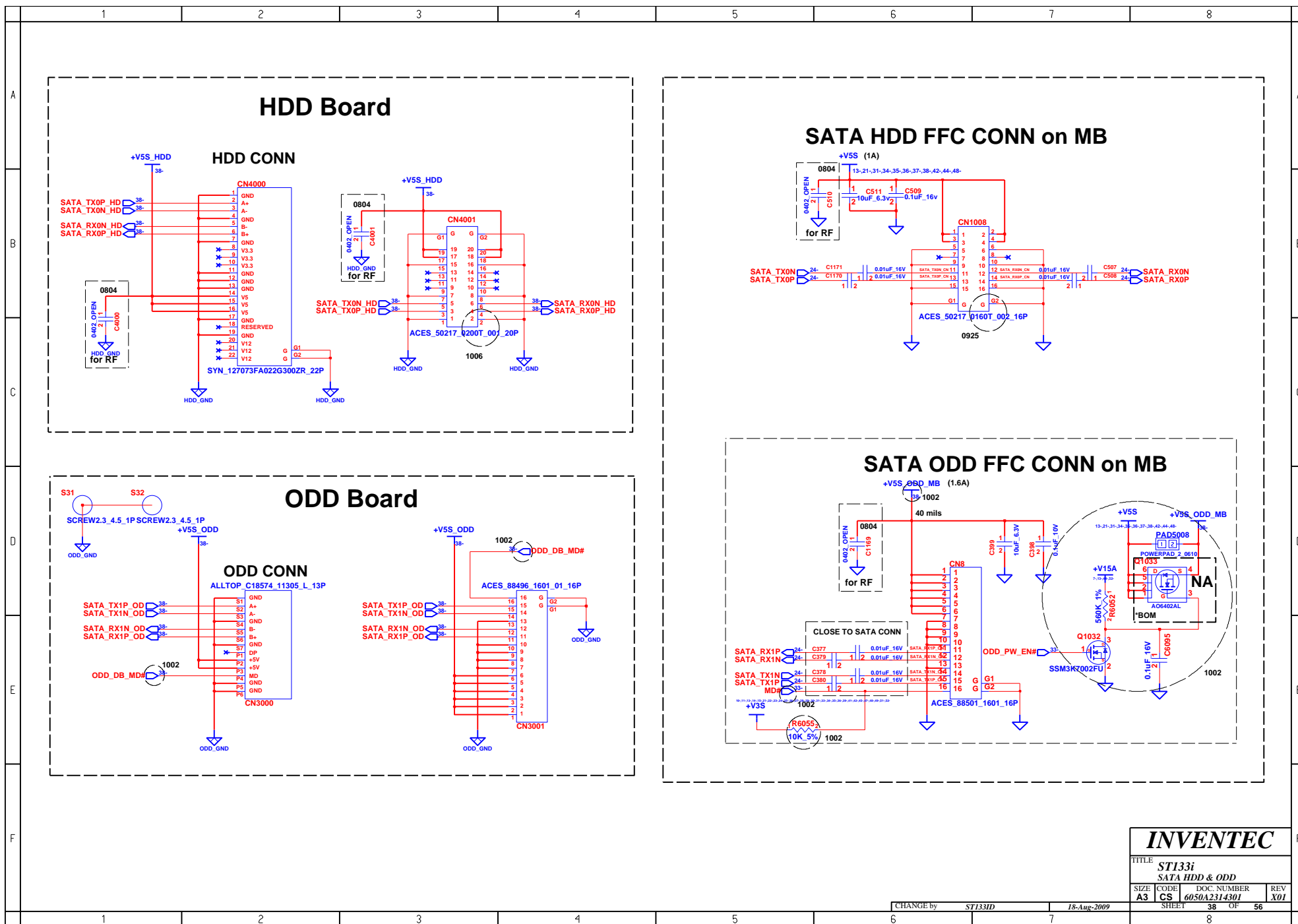
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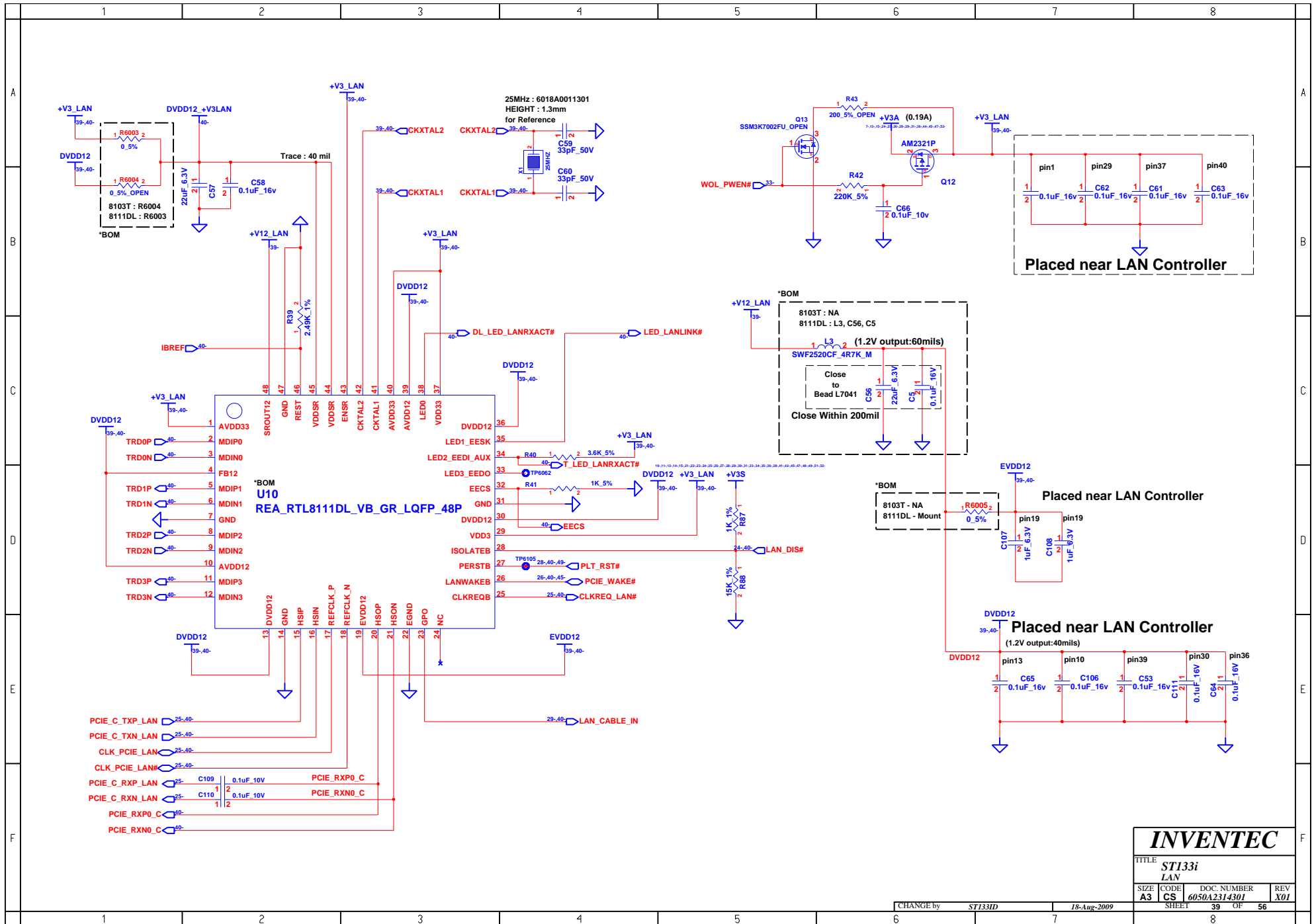
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SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
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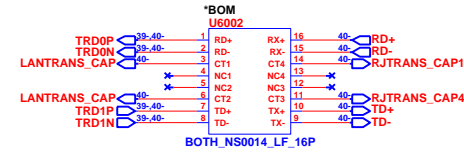
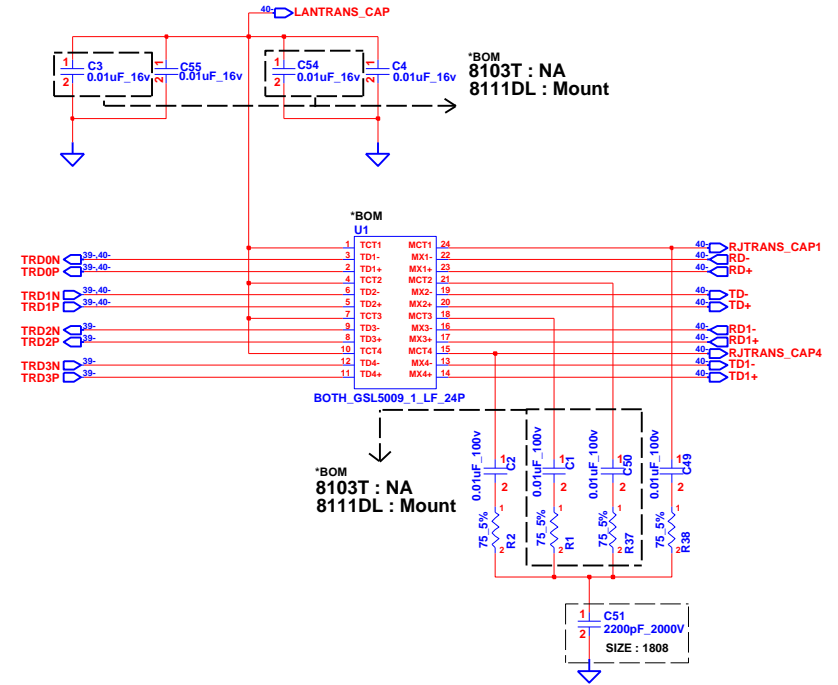
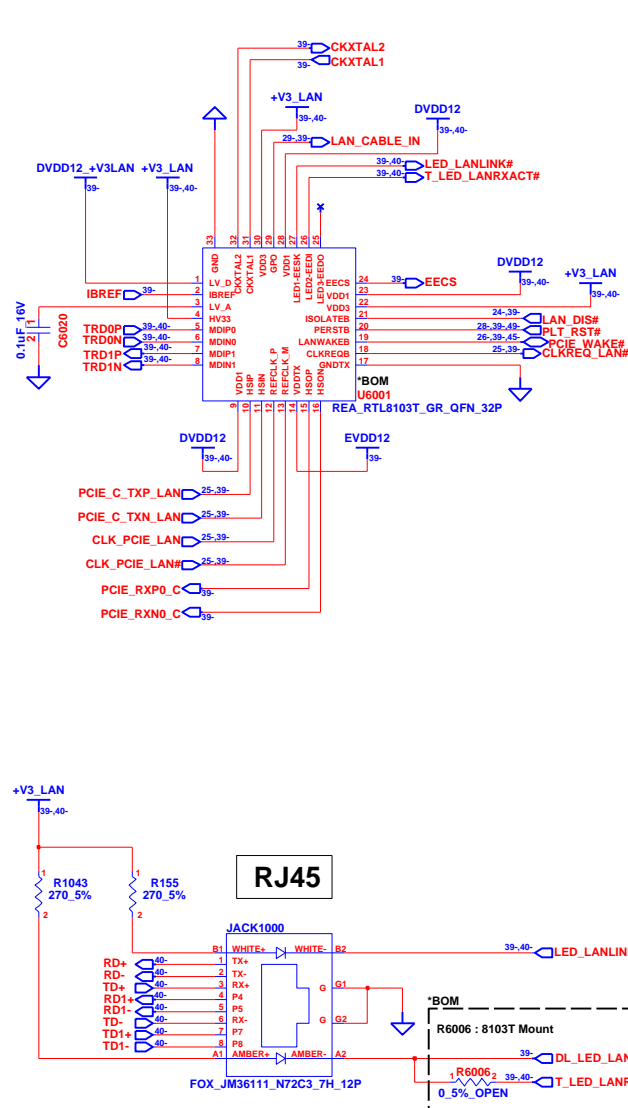




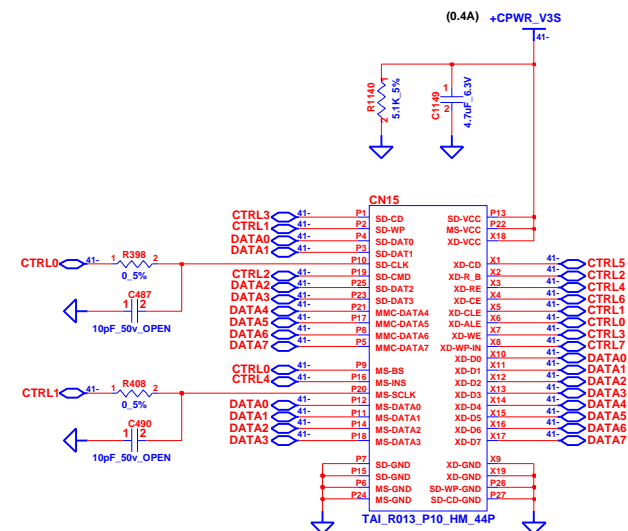




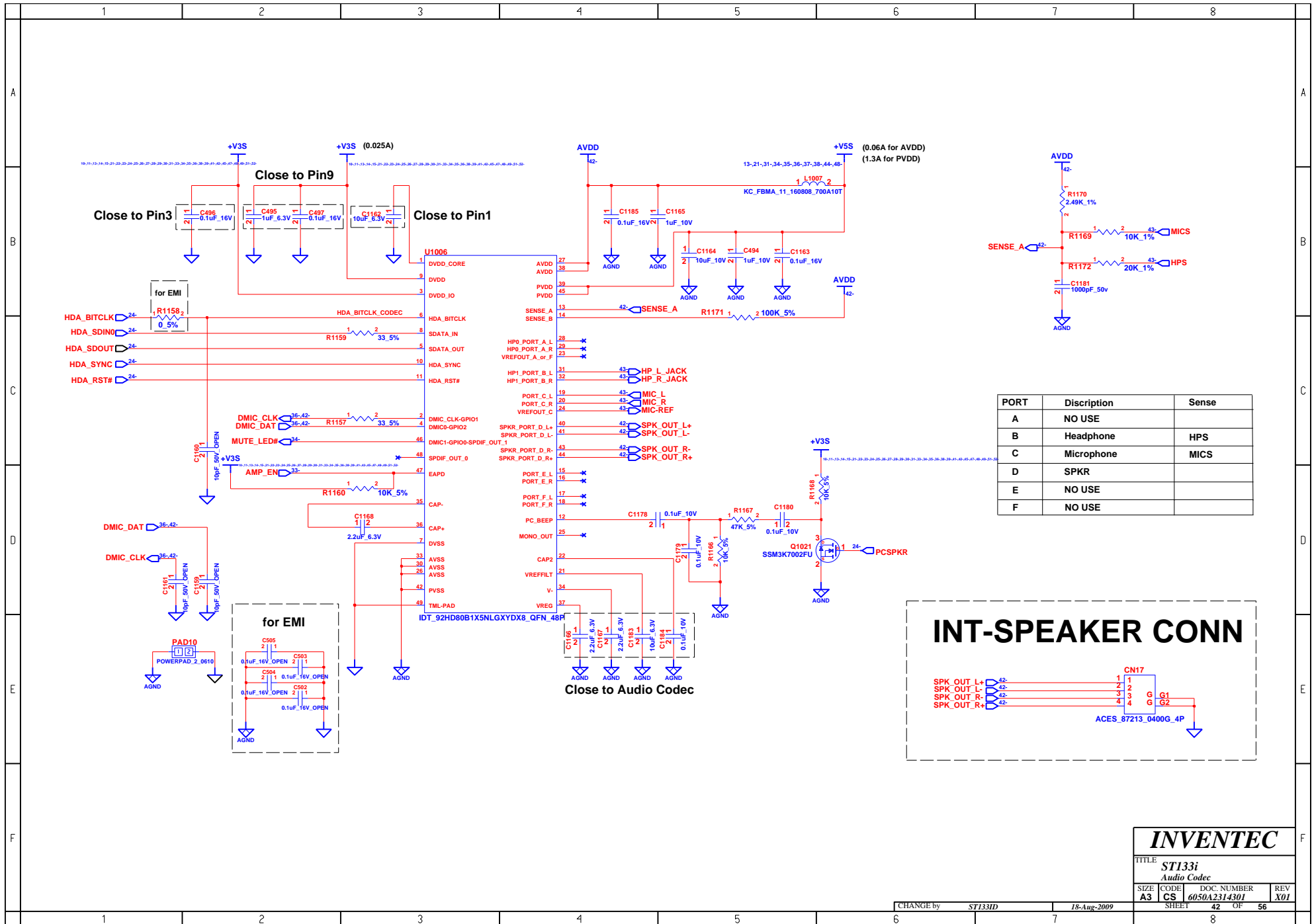
LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

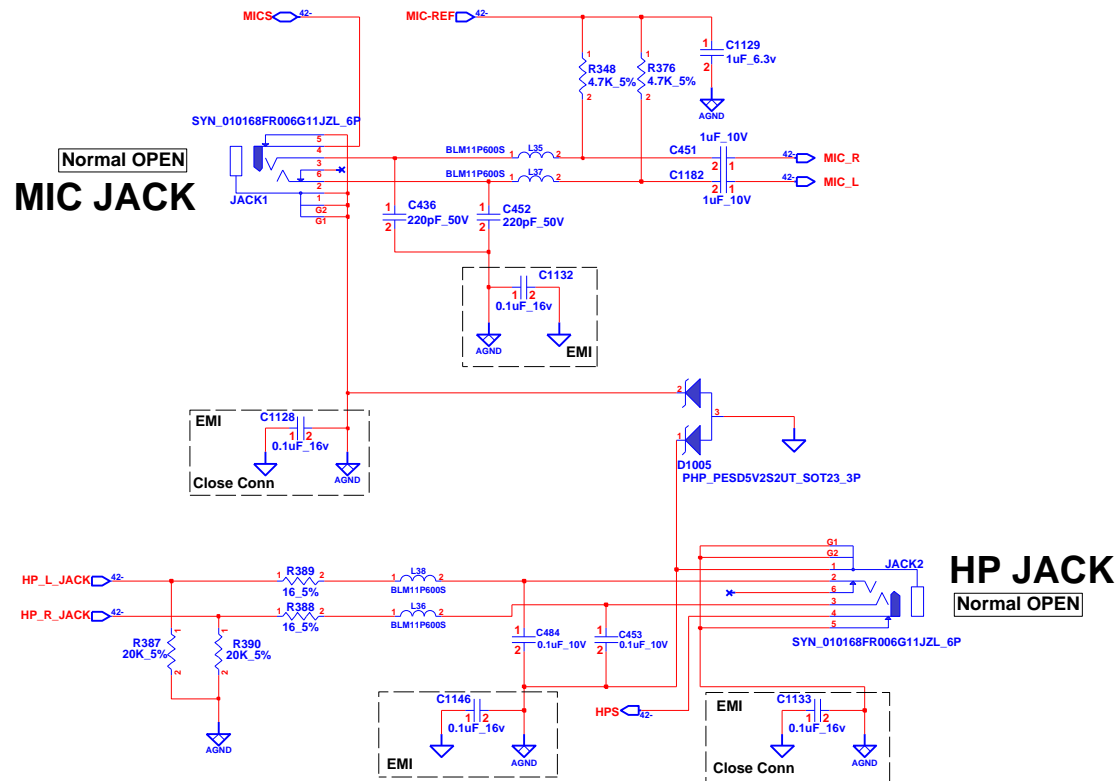


INVENTEC				
TITLE				
ST133i				
RJ-45				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	6050A2314301	X01	
CHANGE by		ST133ID	26-Aug-2009	
SHEET		40	OF	56



TITLE			
ST133i Card Reader			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		41	OF 56





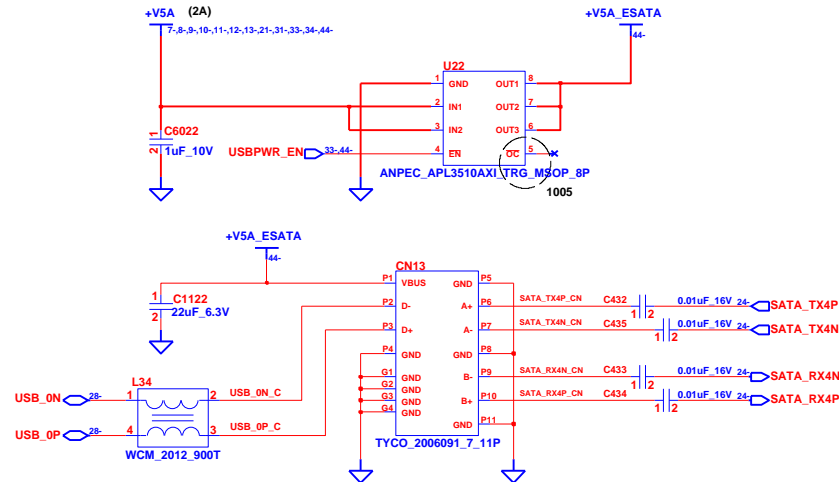
INVENTEC

TITLE			
ST133i			
HP JACK & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

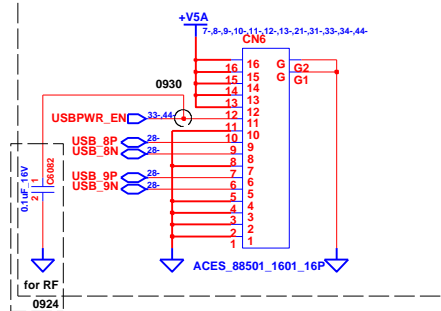
CHANGE by ST133D 18-Aug-2009

SHEET 43 OF 56

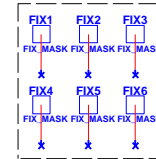
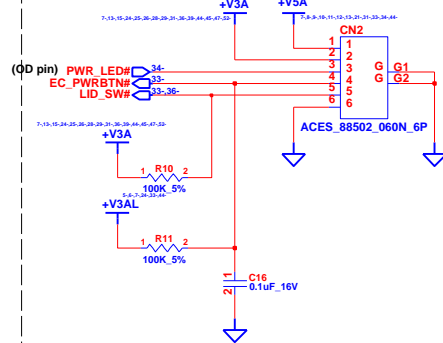
ESATA CONN (without Re-Driver chip)



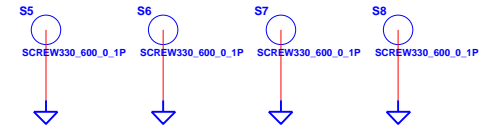
USB BOARD Cable on MB



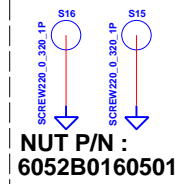
PBN Cable CN on MB



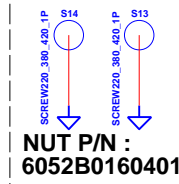
CPU's screws



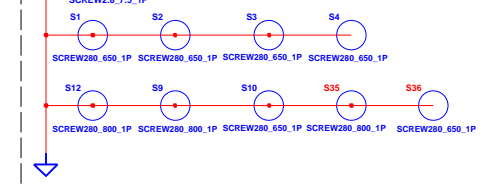
for PCH



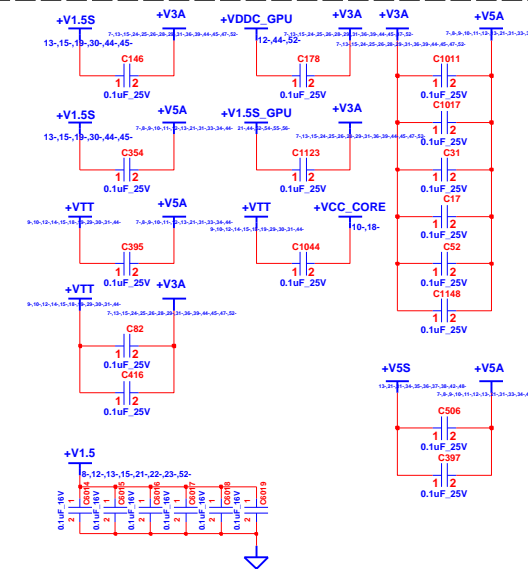
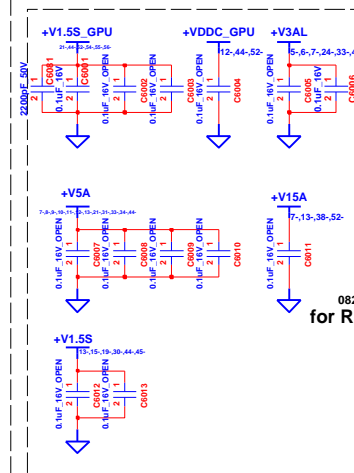
for VGA



for MB



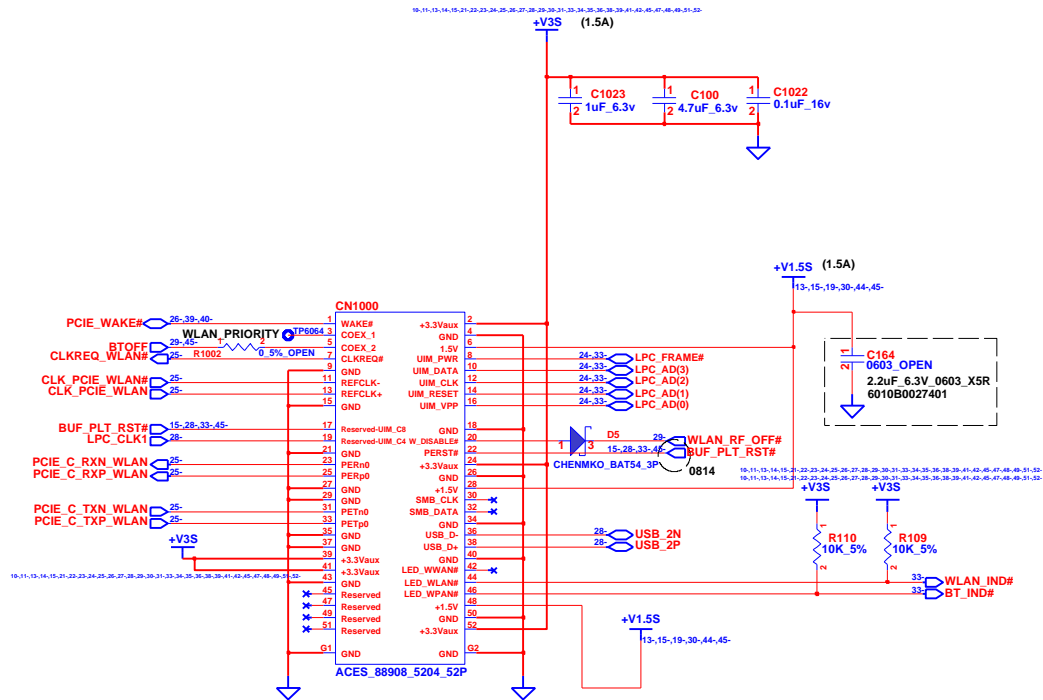
EMI CAPS



INVENTEC

TITLE ST133i ESATA, SCREW & LID			
SIZE A3	CODE CS	DOC NUMBER 6050A2314301	REV X01
CHANGE by ST133D		18-Aug-2009	
SHEET 44		OF 56	

WLAN CONN (MINICARD)



*BOM
CN1000 : 6026B0184301

TITLE			
<i>ST133i</i> <i>WLAN, BT & WebCAM</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by	ST133ID	18-Aug-2009
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A



C



F



POWER BUTTON

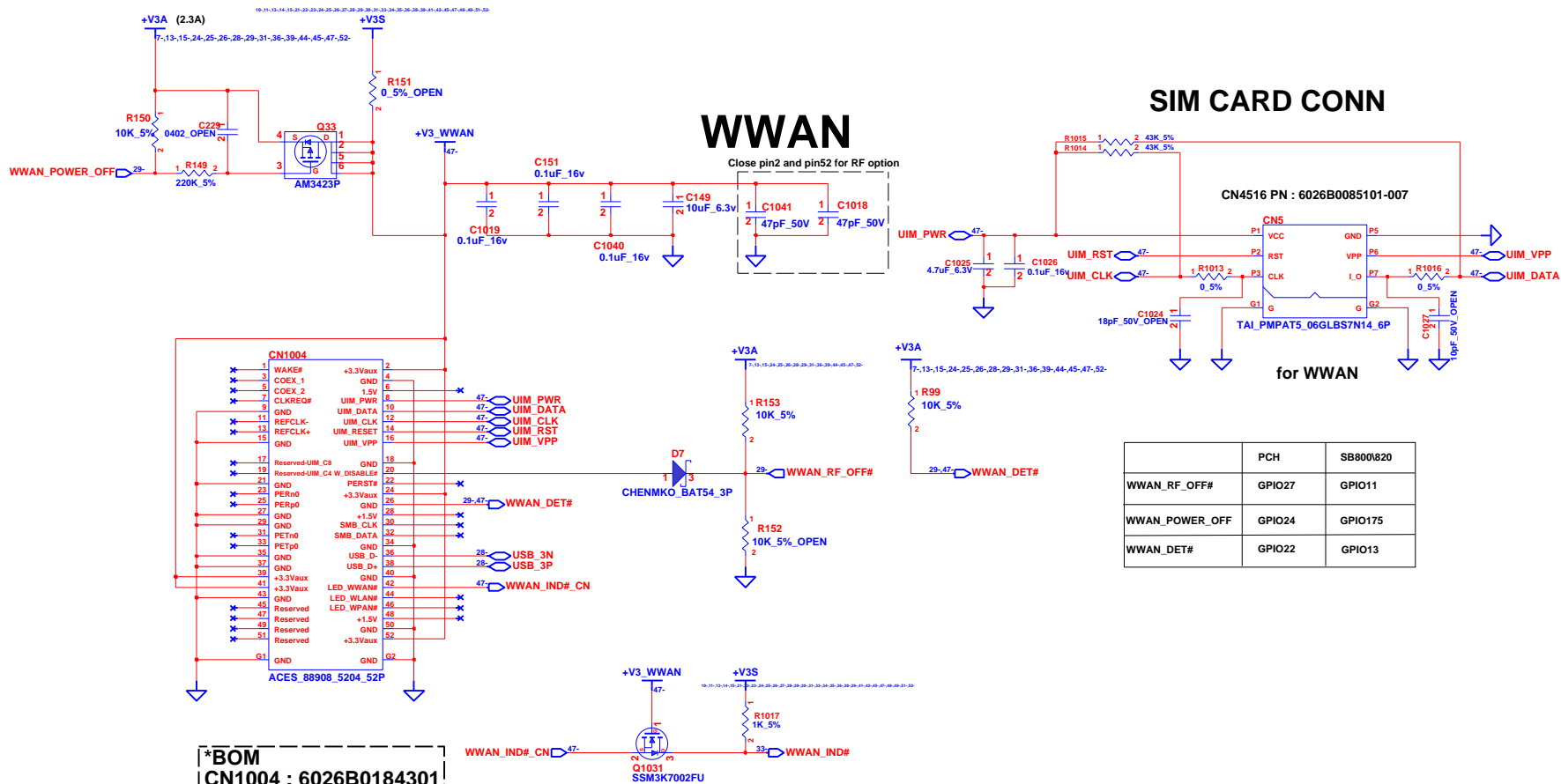


LID SWITCH



CHANGE by	ST133ID	18-Aug-2009
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OPTION PART



INVENTEC

TITLE
ST133i
WWAN(Optional)

SIZE
A3

CODE
CS

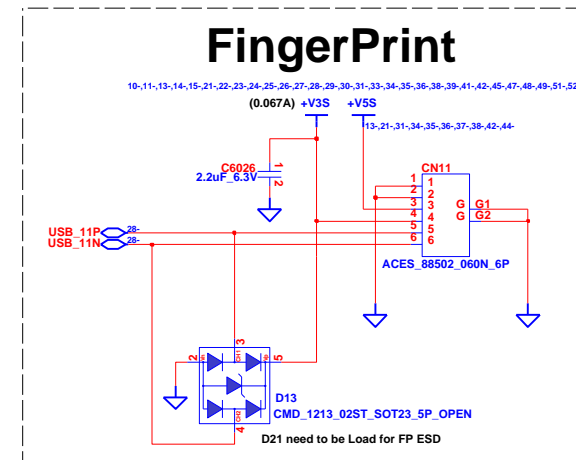
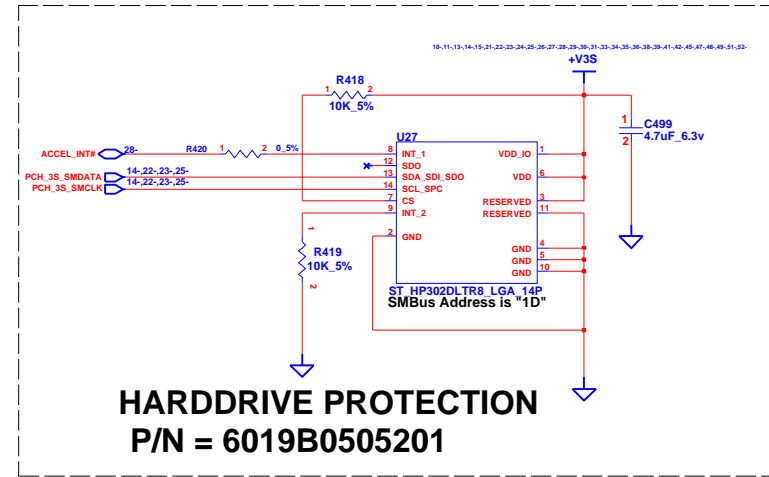
DOC. NUMBER
6050A2314301

REV
X01

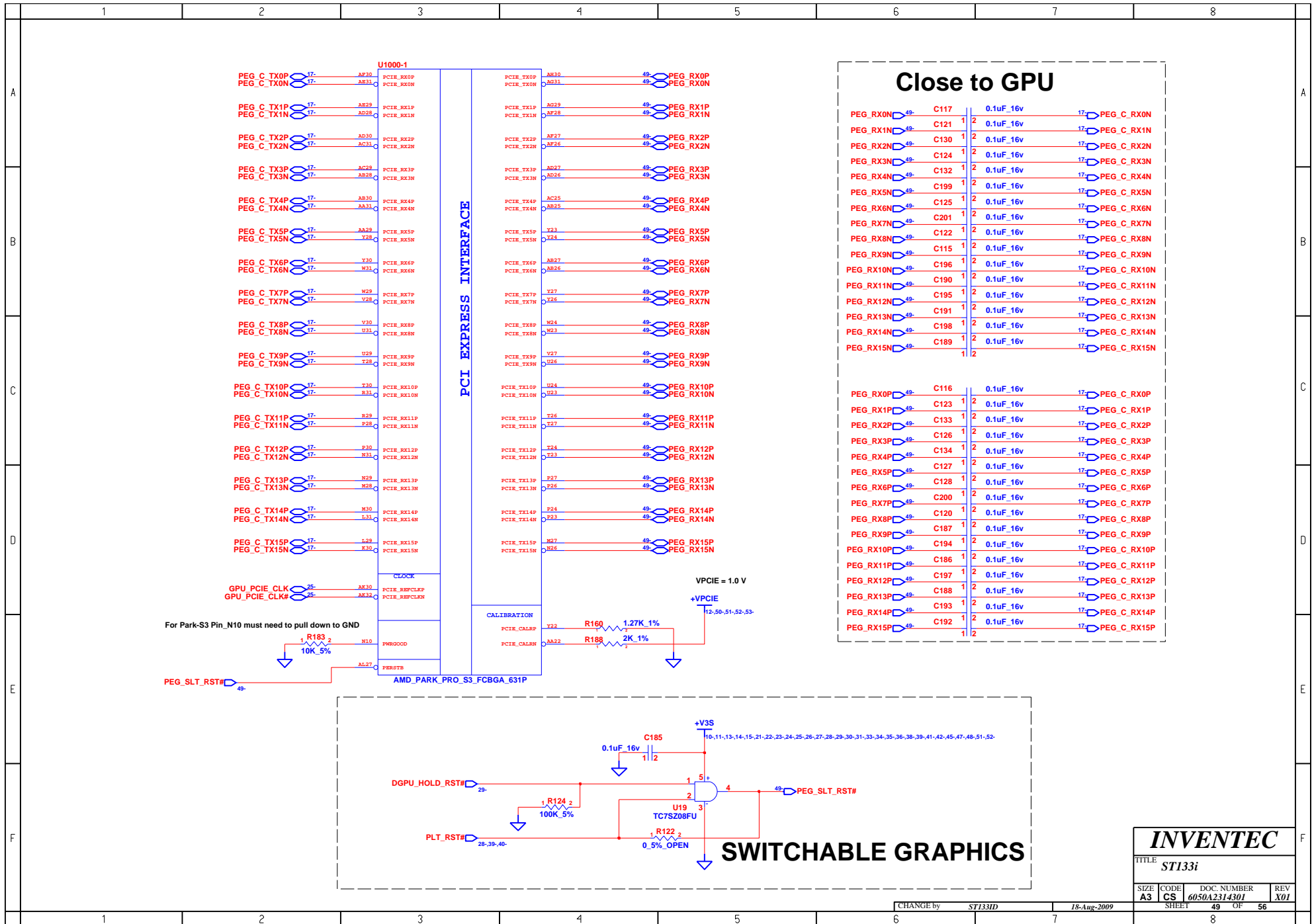
CHANGE by ST133ID 18-Aug-2009

SHEET 47 OF 56

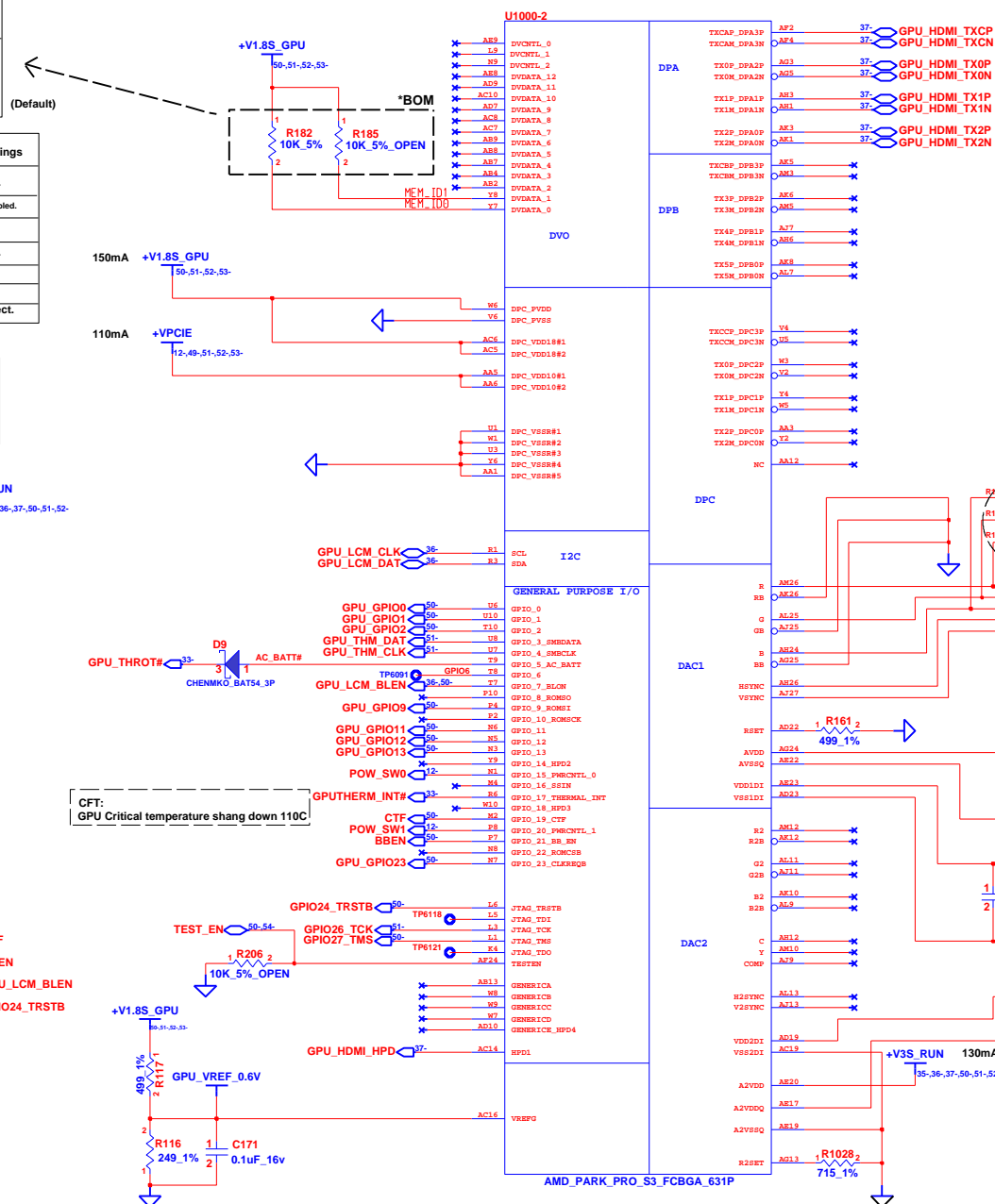
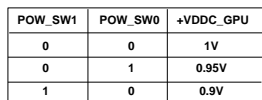
	1	2	3	4	5	6	7	8	
A	<div>OPTION PART</div>								
B									
C									
D									
E									
F									
	1	2	3	4	5	6	7	8	



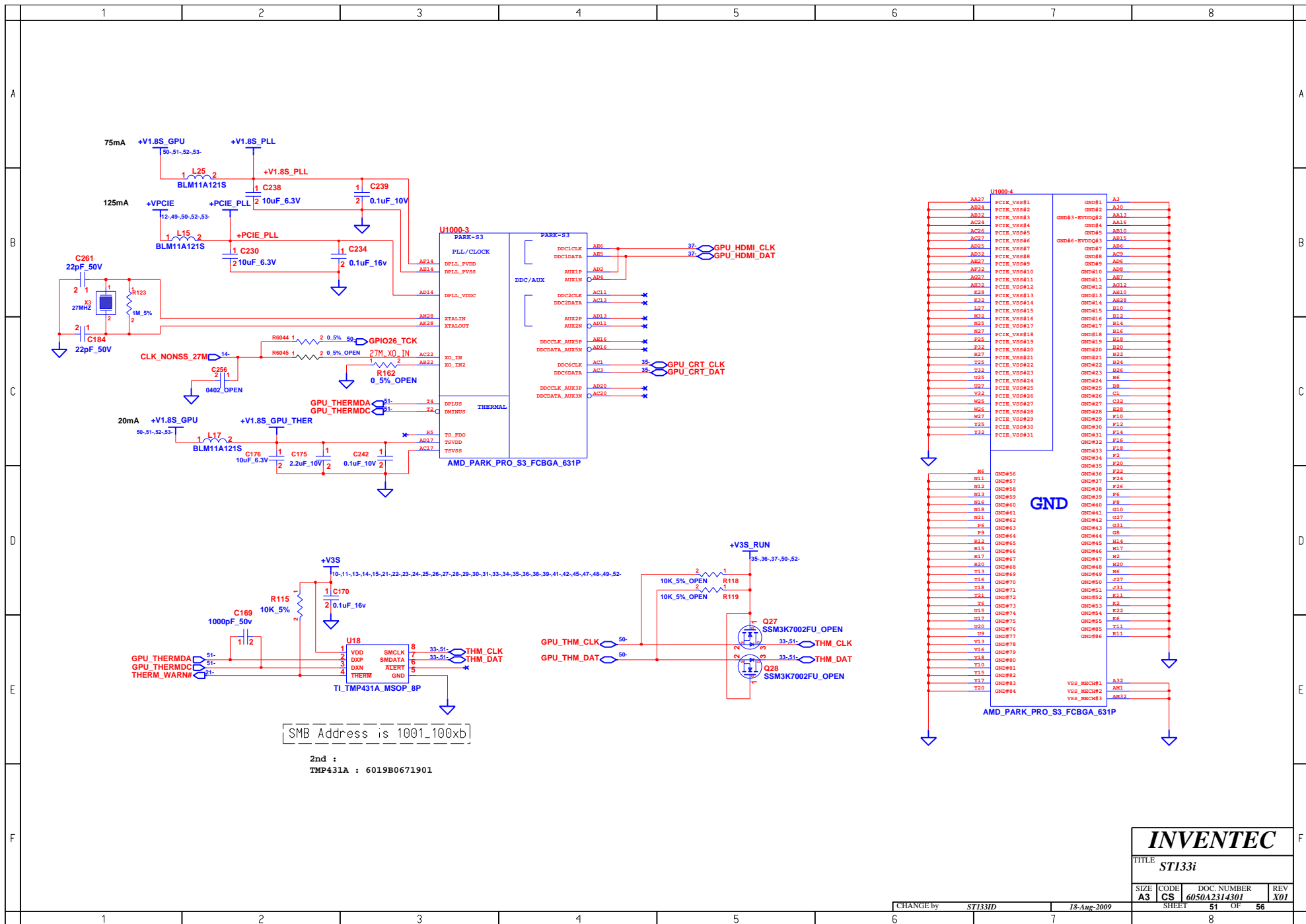
TITLE			
<i>ST133i</i> <i>Touchscreen, FP & HD LOCK(Optional)</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		48	OF 56



If GPIO_22_EN = 0, then GPIO[13:11] defines the primary memory aperture size.			
GPIO_13	GPIO_12	GPIO_11	Memory aperture size
0	0	1	512MB / 256MB (Default)
1	1	0	reserved



INVENTEC			
TITLE <i>ST133i</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>6050A2314301</i>	R <i>X</i>
SHEET		50	OF 56



INVENTEC

TITLE
ST133i

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by ST133ID 18-Aug-2009

SHEET 51 OF 56

