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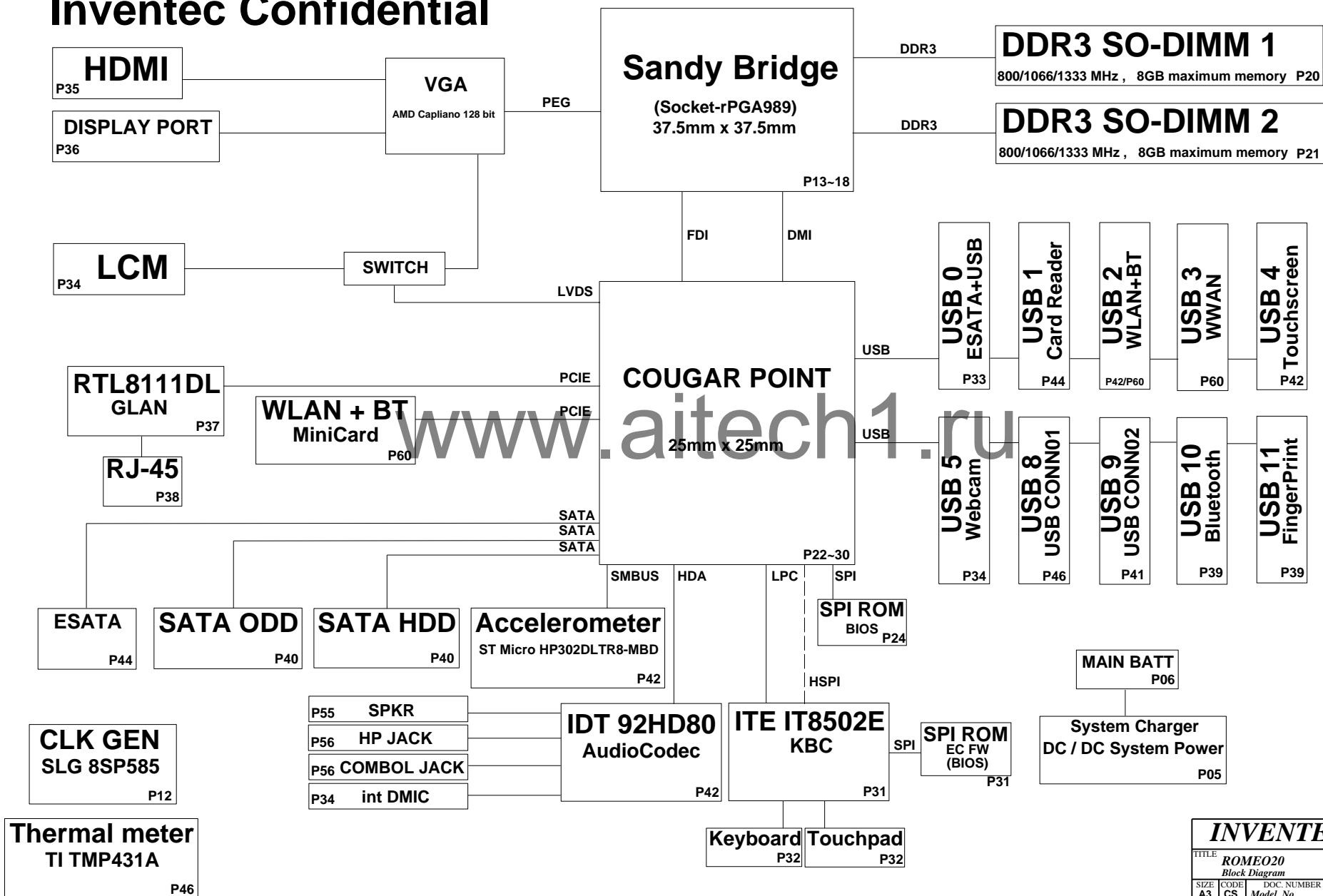
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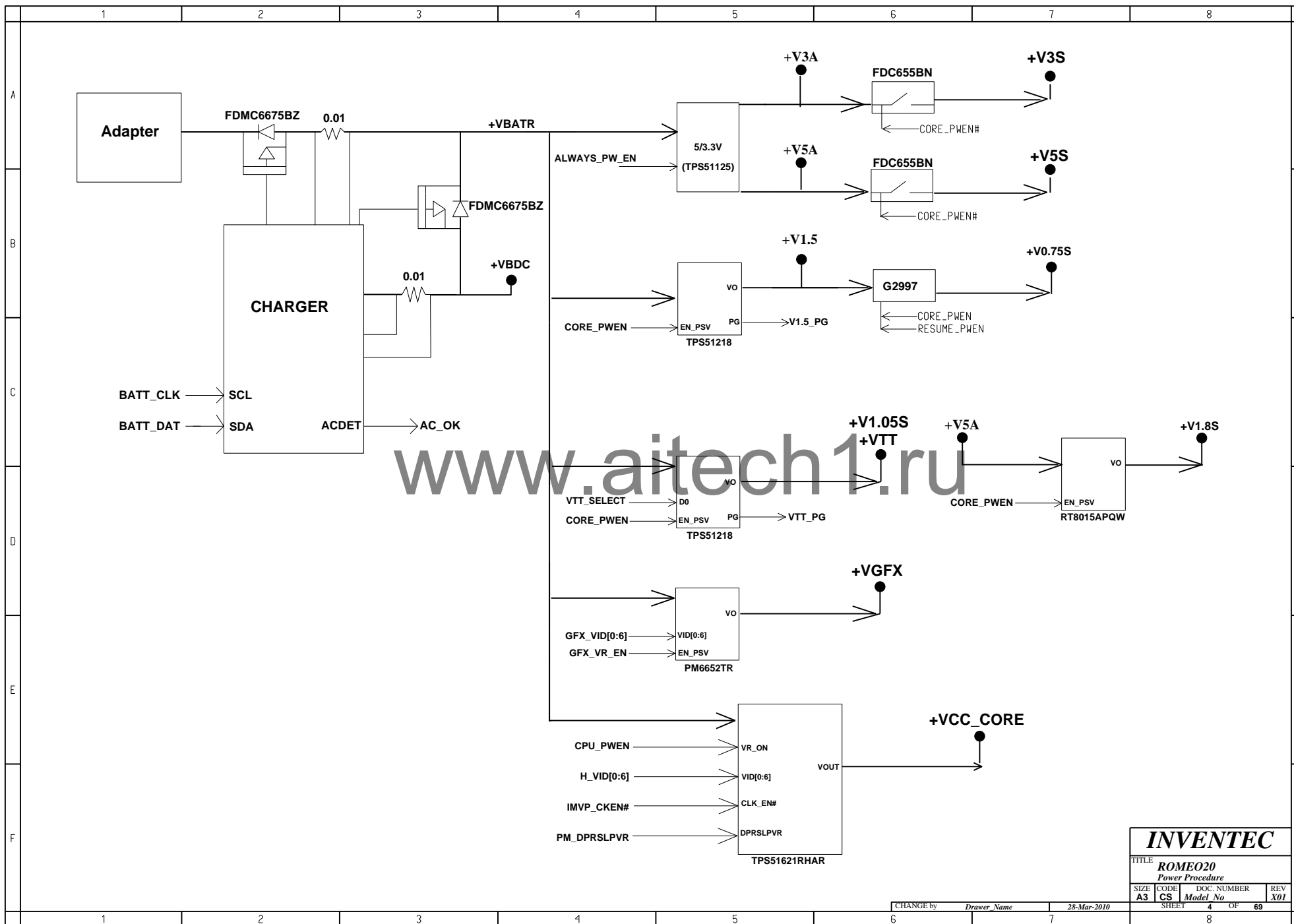
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
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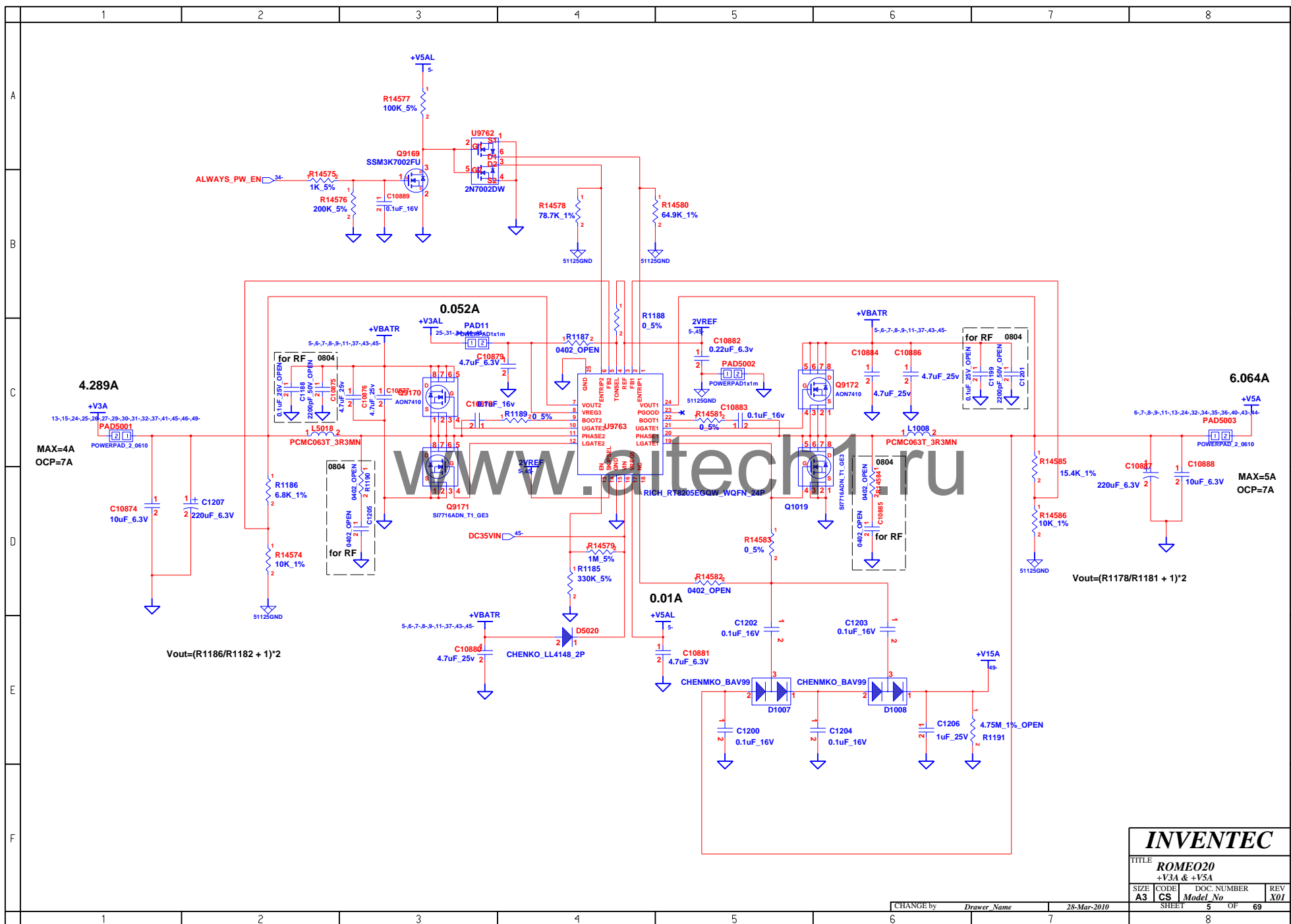
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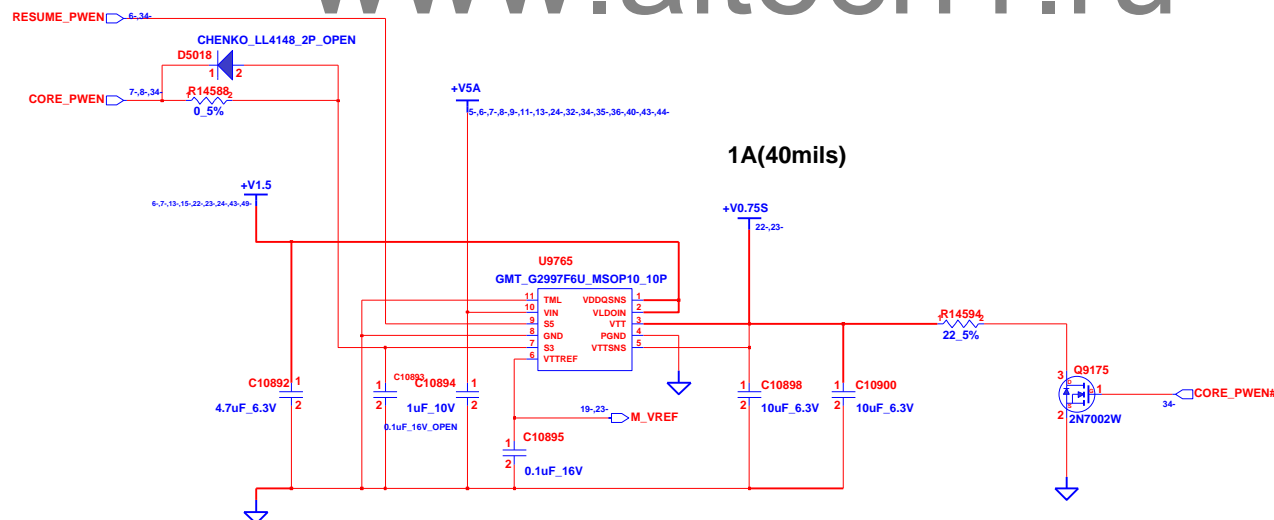
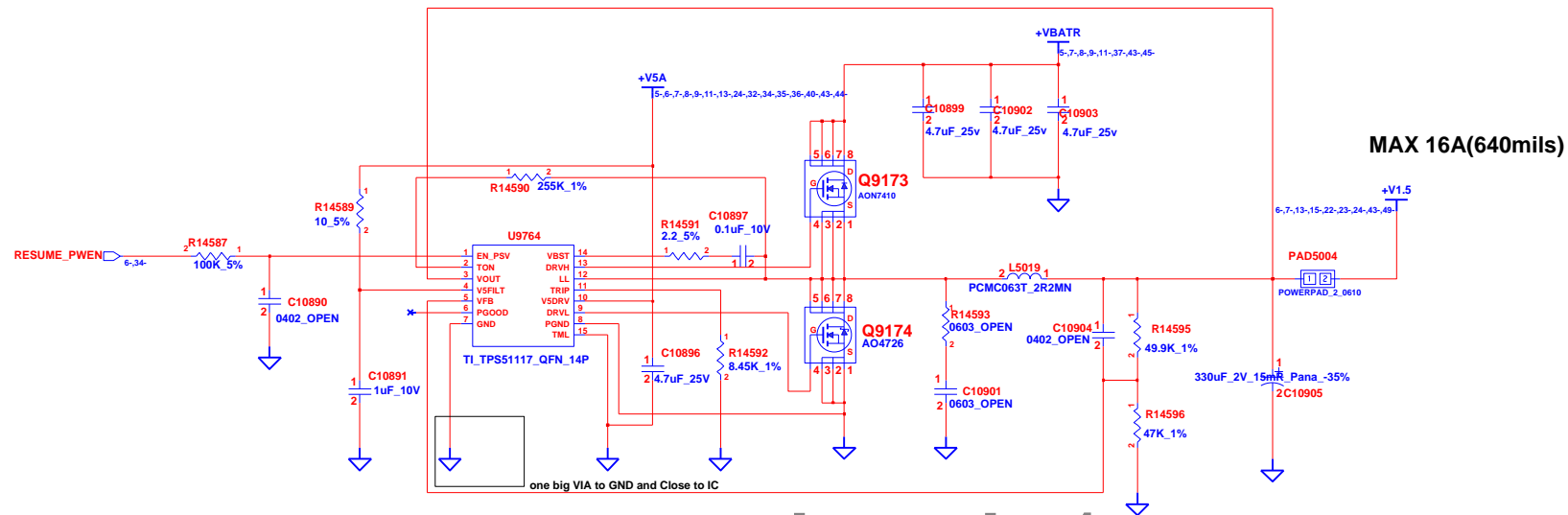
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TITLE  
**ROMEO20**  
+V1.5 & +V0.75

SIZE	CODE	DOC. NUMBER	REV
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POW_SW1	POW_SW0	+VDDC_GPU
0	0	1.1V
0	1	1.05V
1	0	0.95V
1	1	0.9V

2A(80mils)

MAX 12A (480mils)

MAX 3A (120mils)

**INVENTEC**

TITLE  
**ROMEO20**  
**+V1.8S & +V1.05S**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <b>X01</b>
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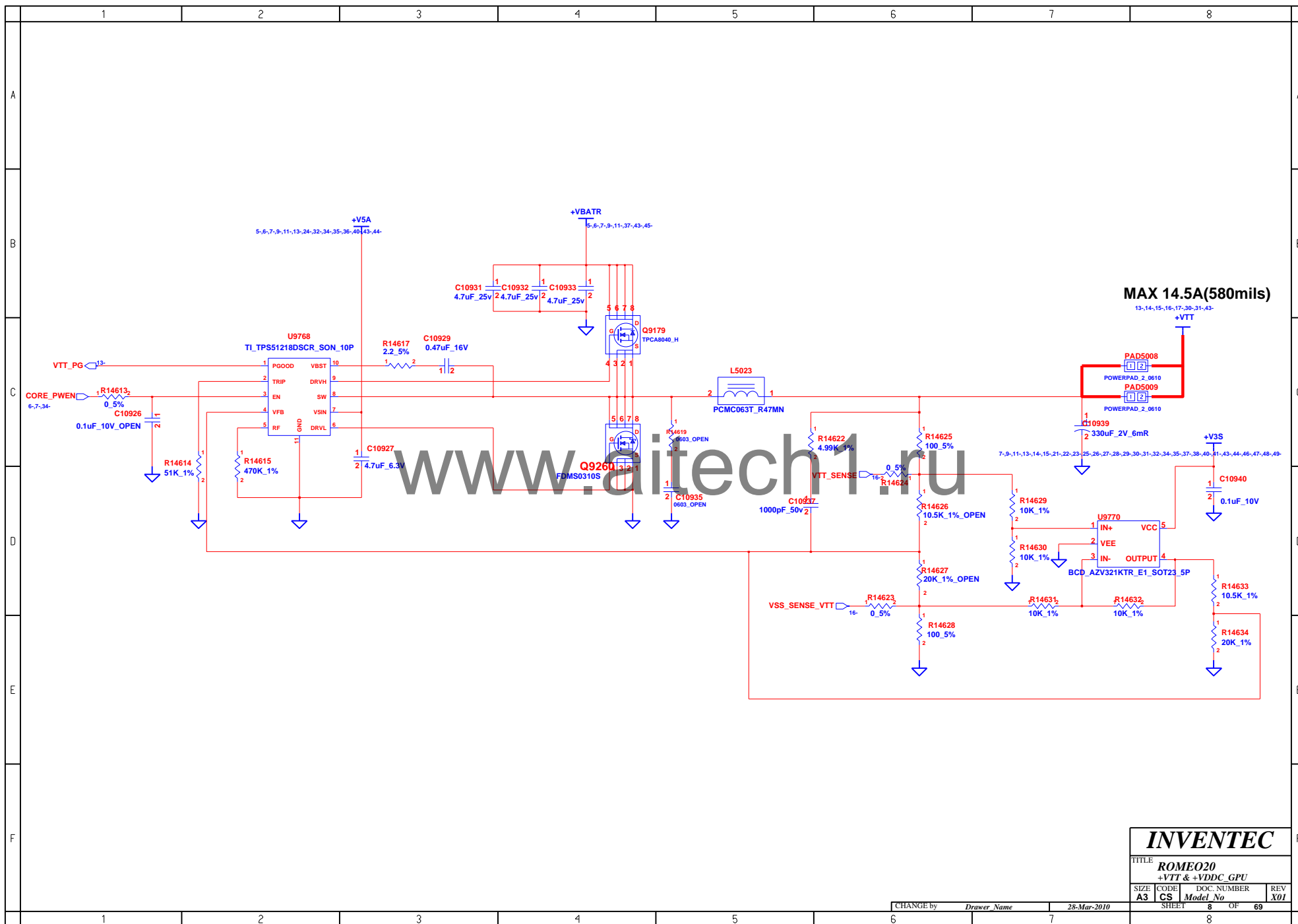
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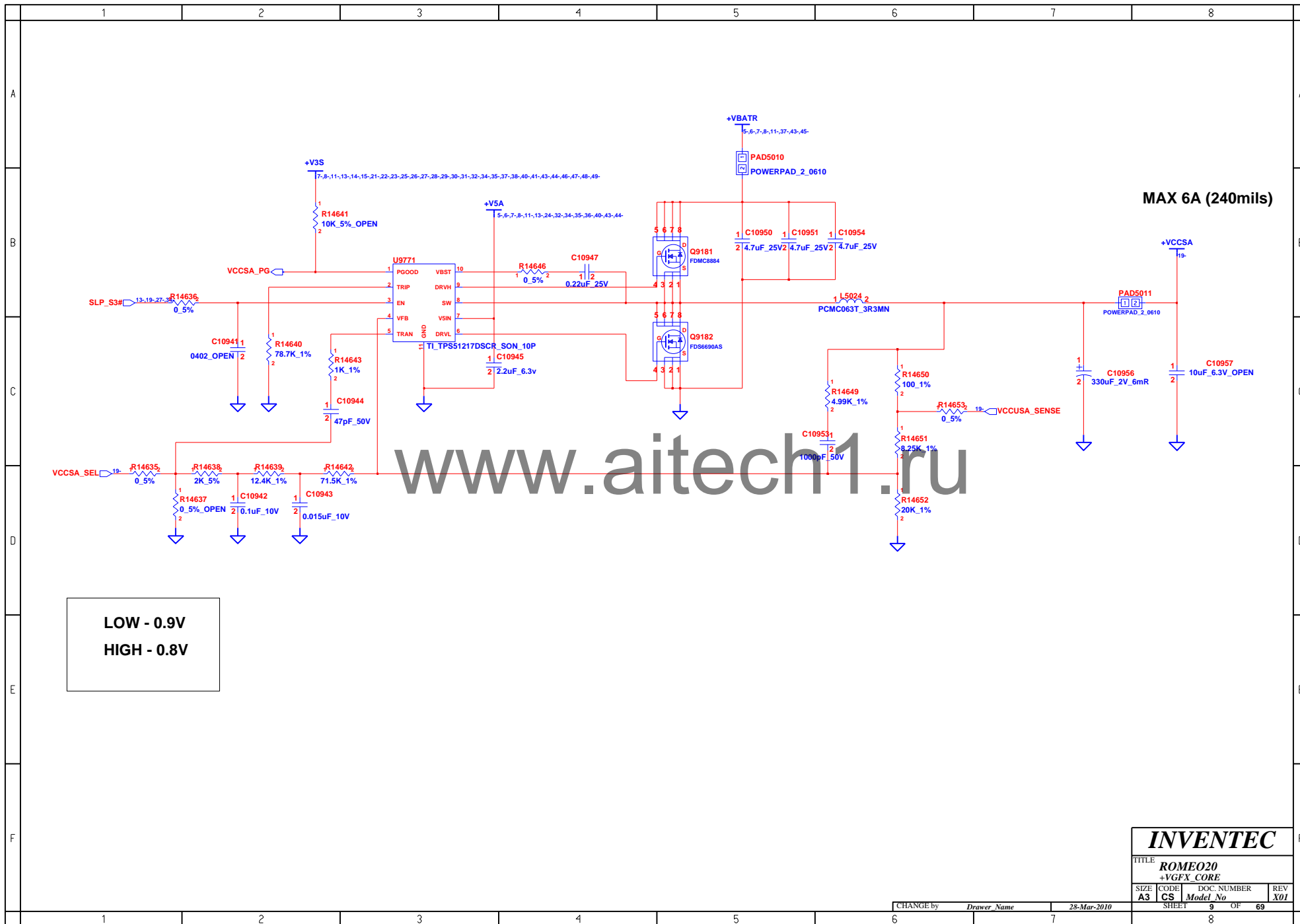
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**INVENTEC**

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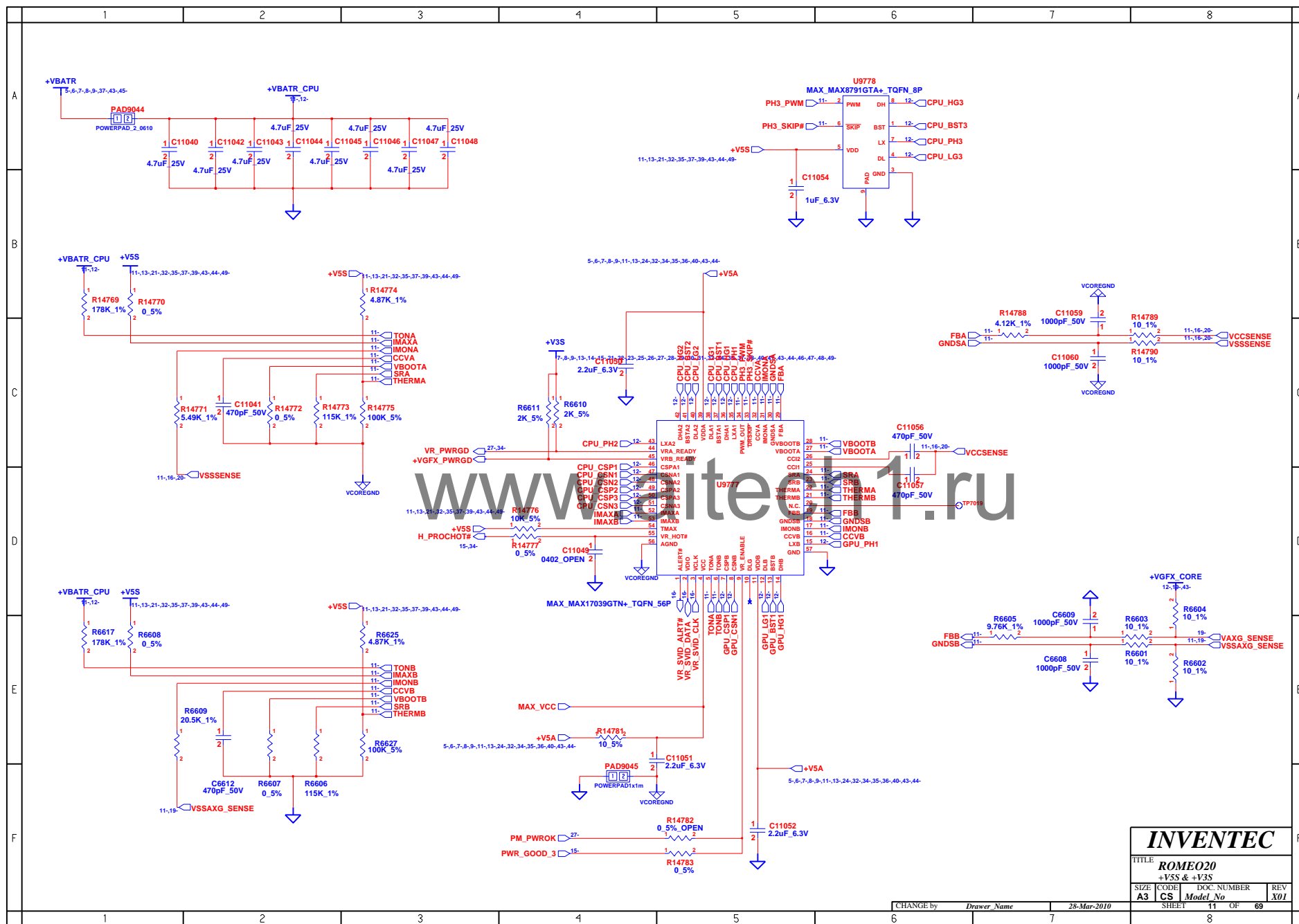
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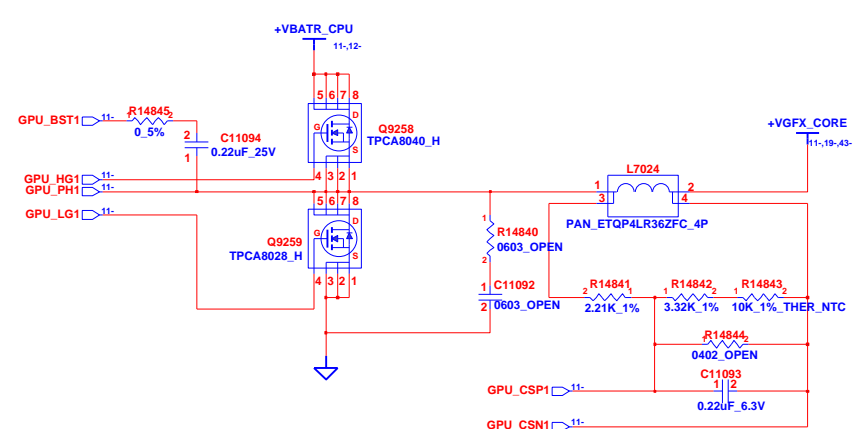
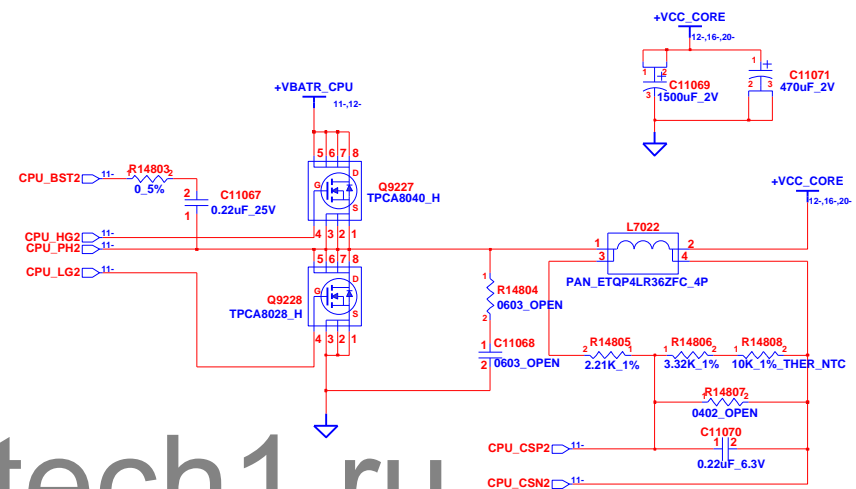
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**INVENTEC**

TITLE			
ROMEO20			
+VCC CORE			
SIZE	CODE	DOC. NUMBER	REV
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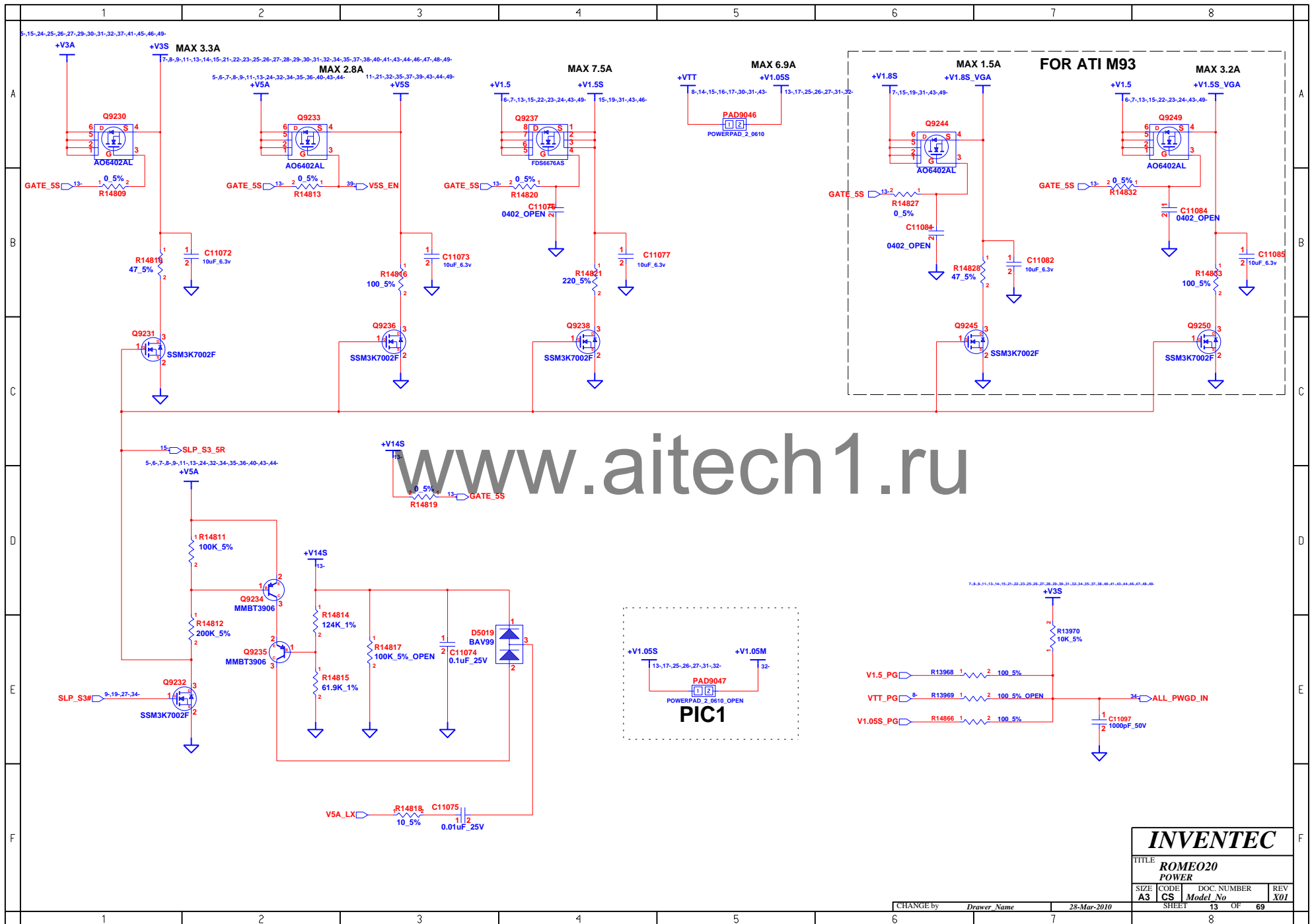
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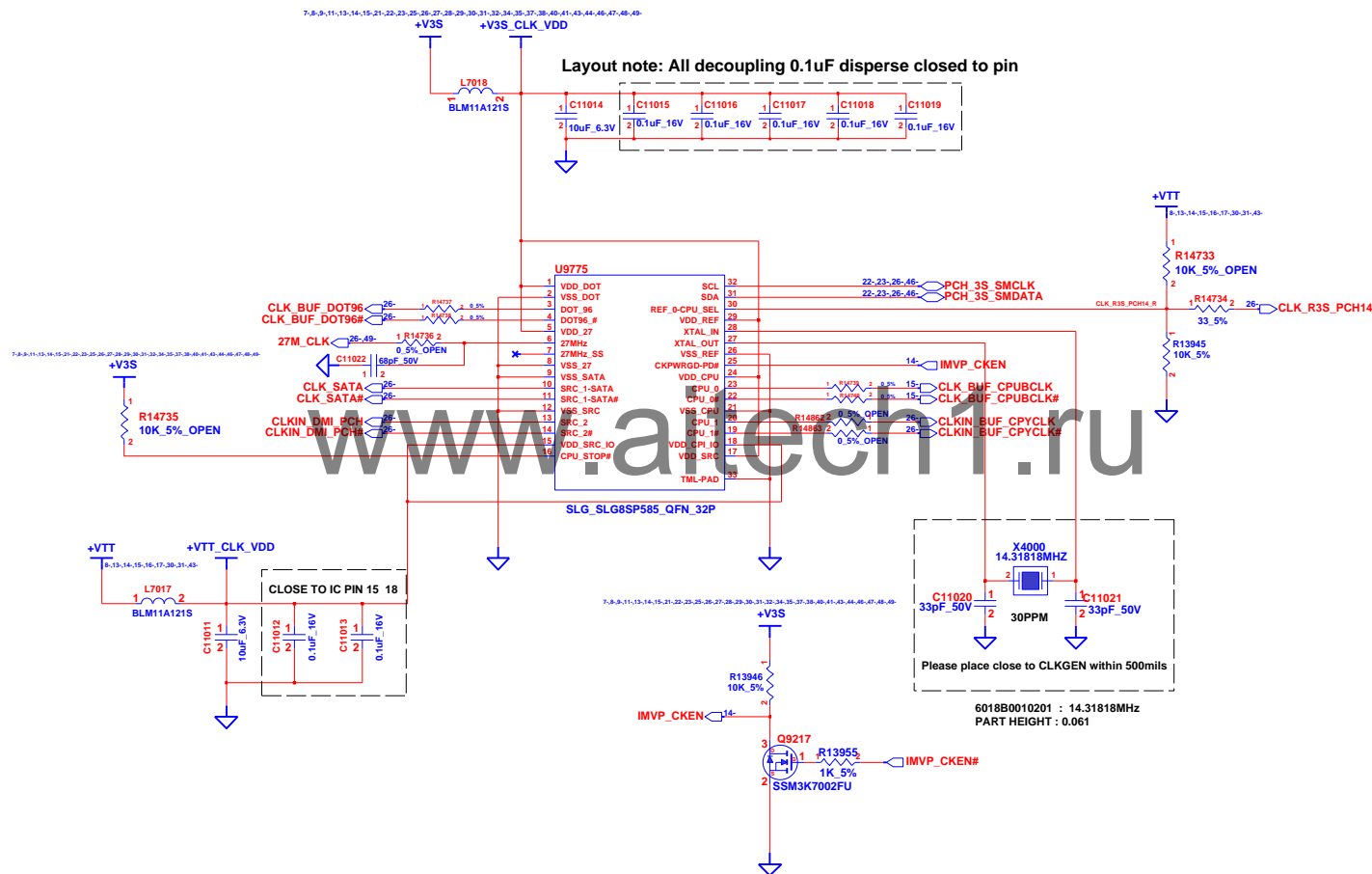
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<b>A3</b>	<b>CS</b>	<b>Model No</b>
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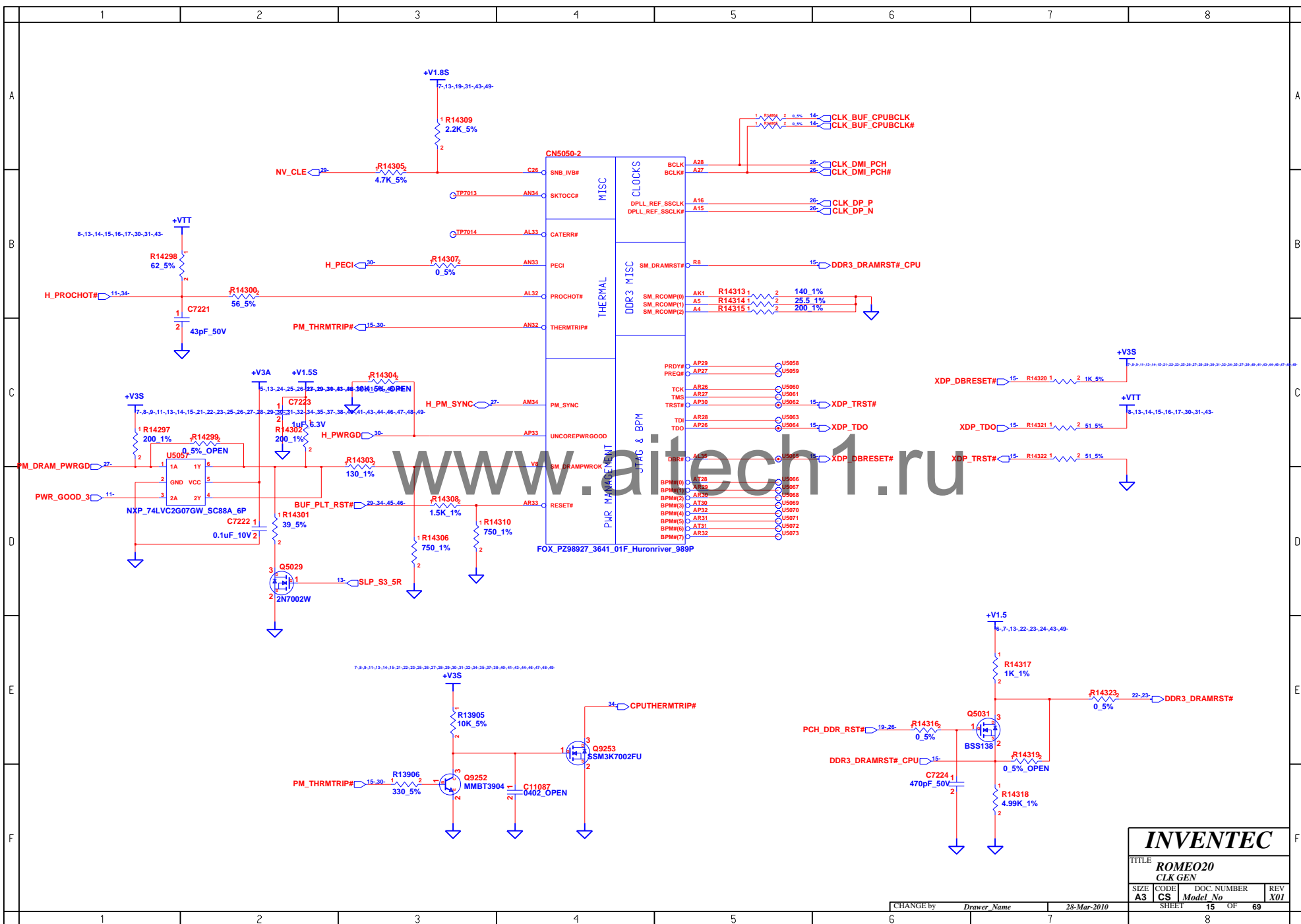
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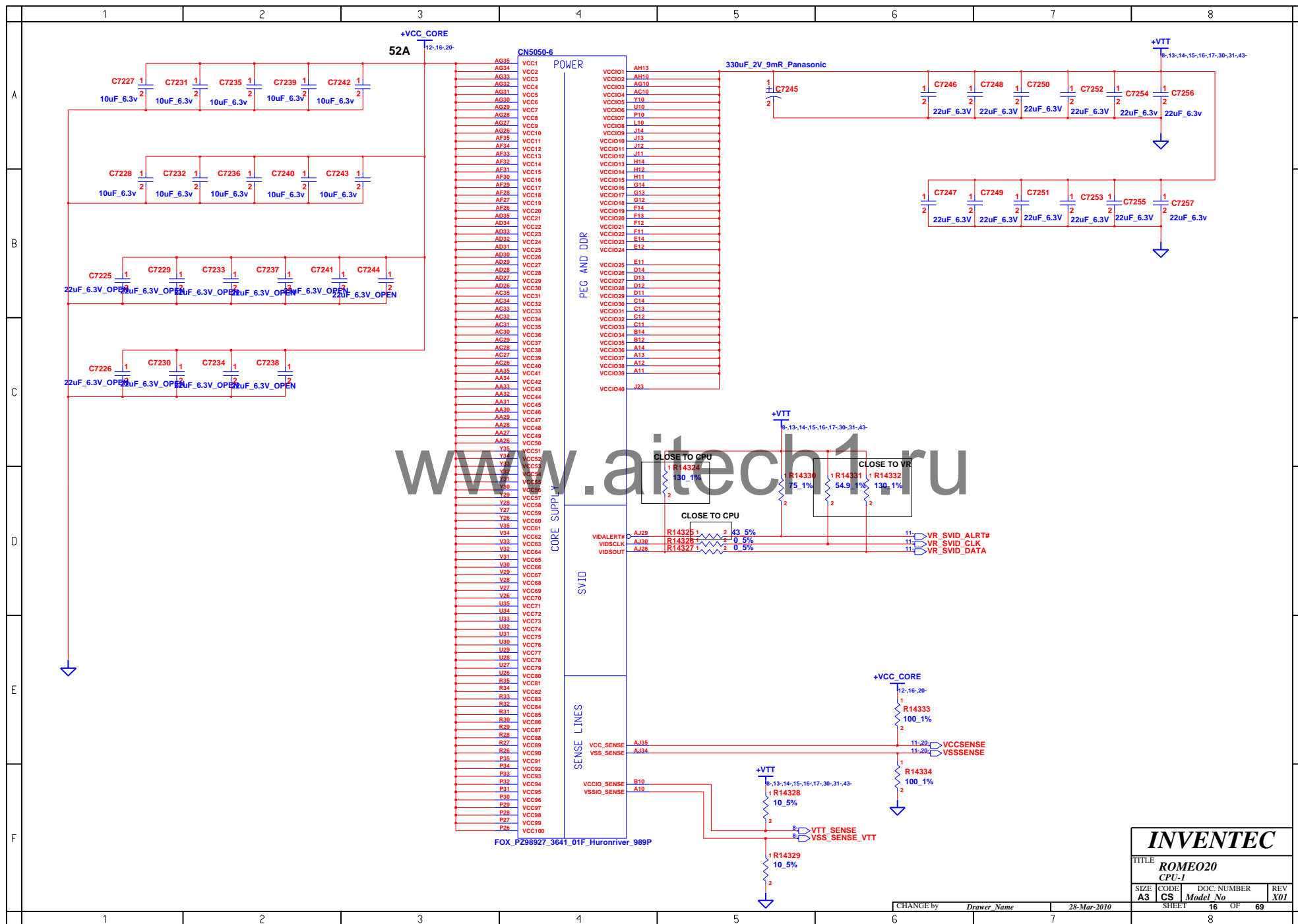
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POWER**

SIZE	CODE	DOC. NUMBER	REV
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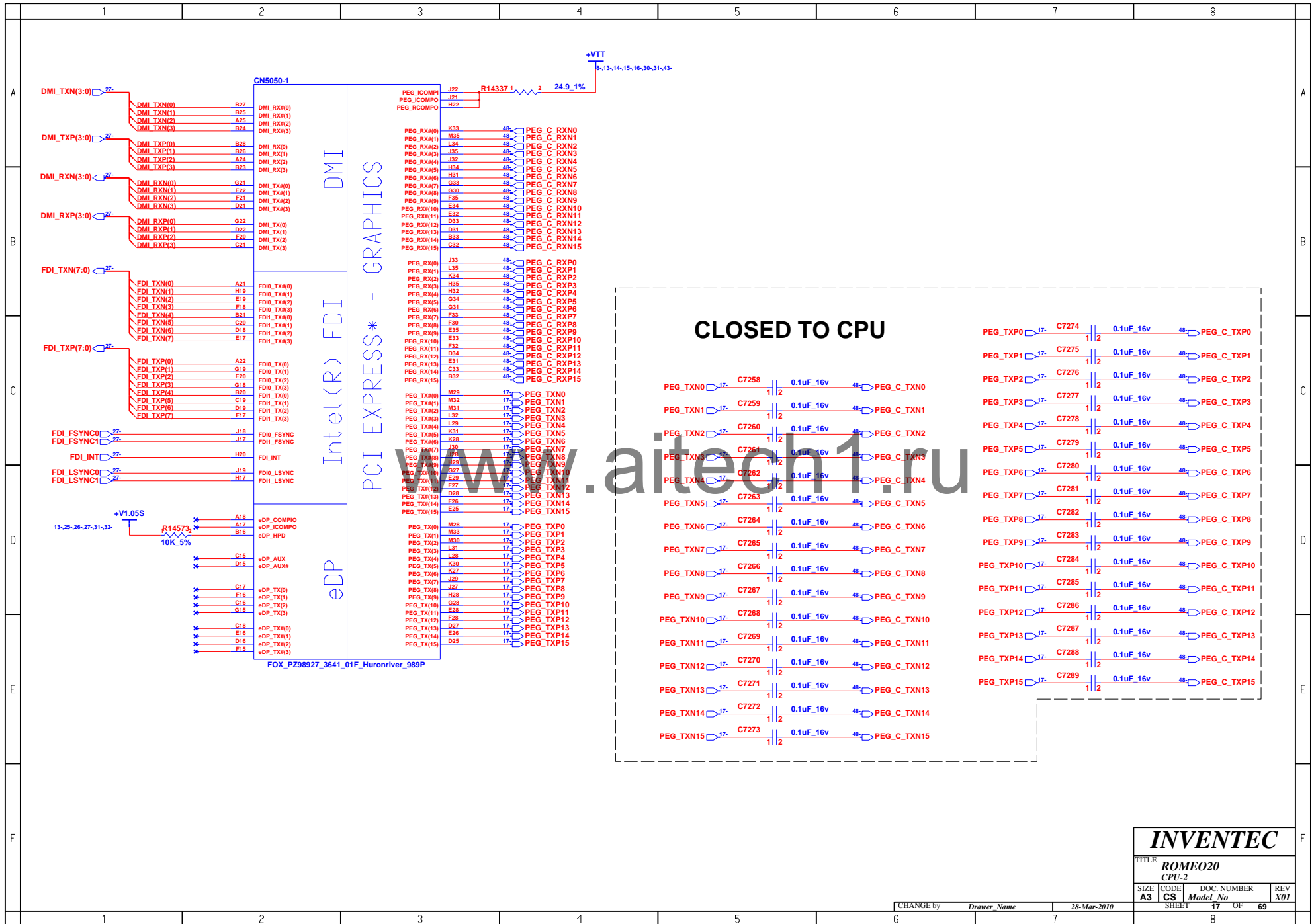




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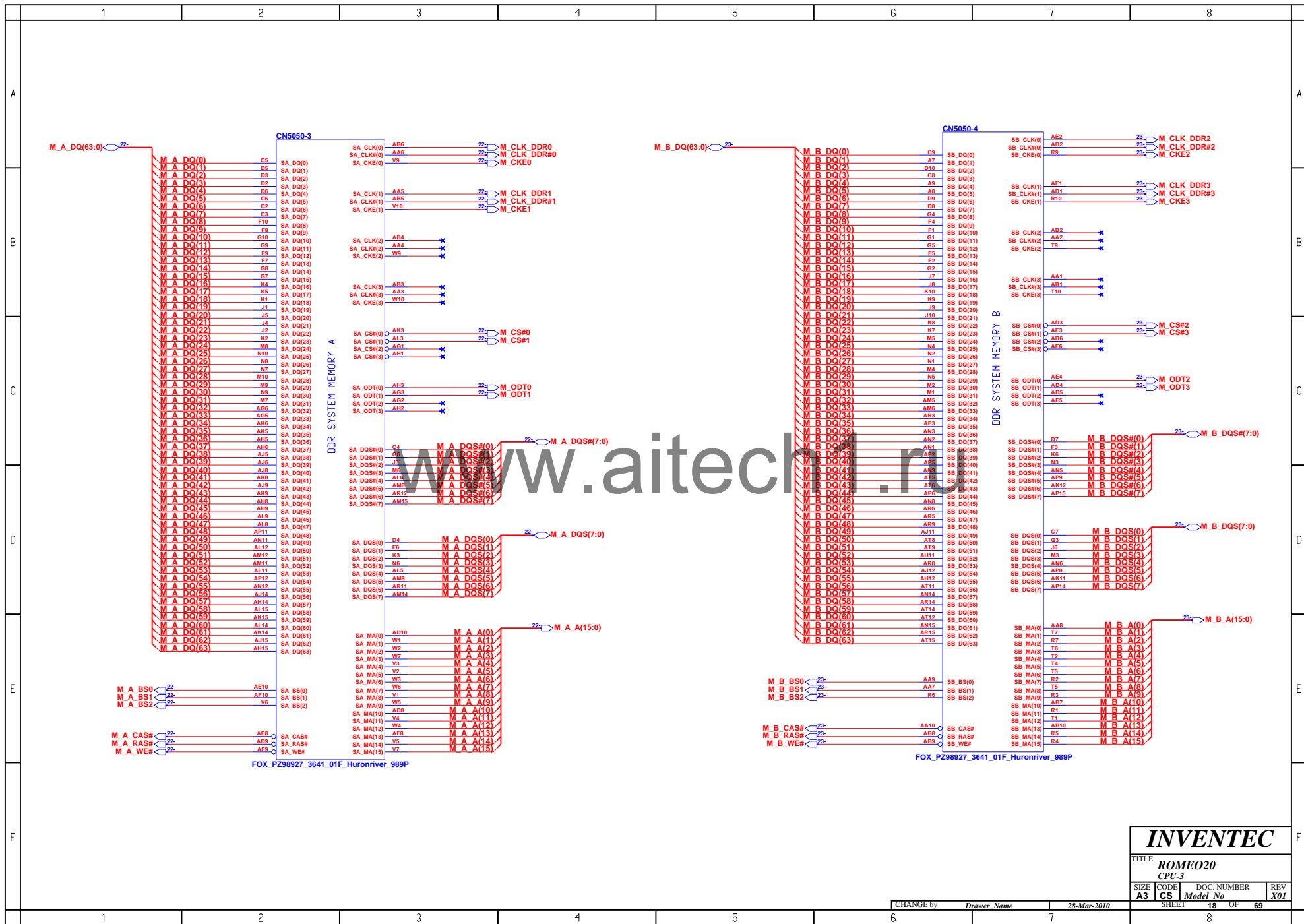
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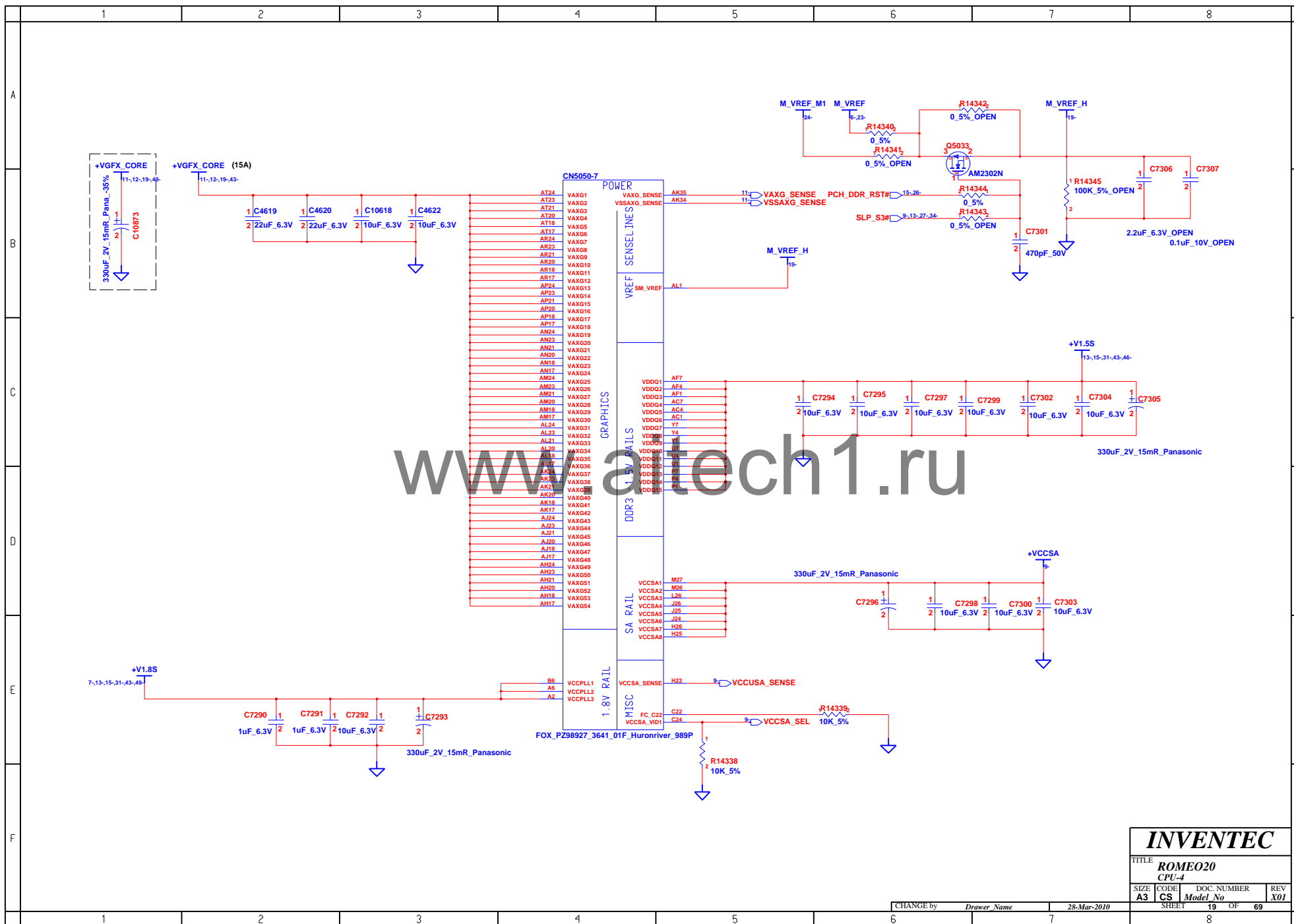
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<b>INVENTEC</b>			
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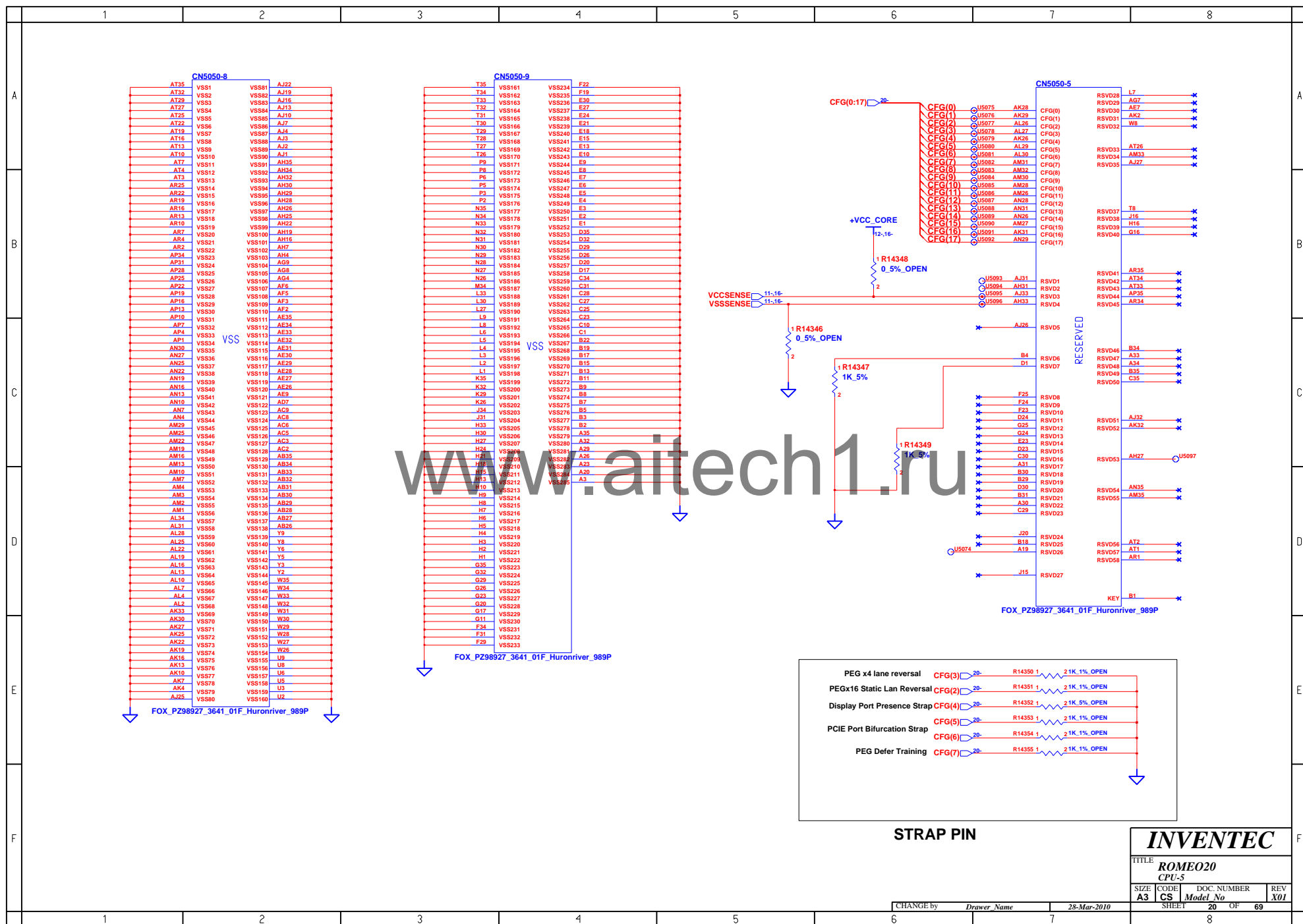


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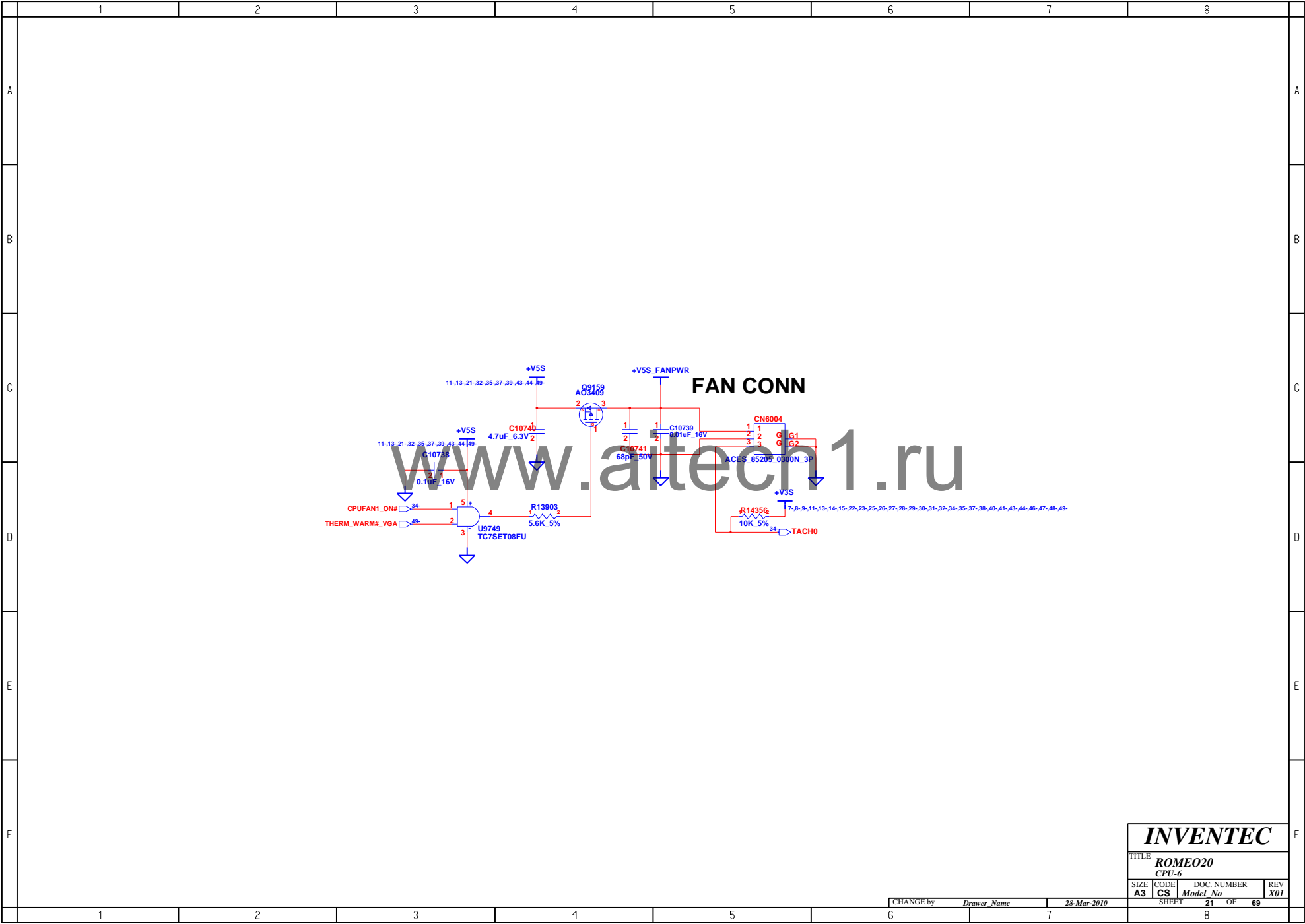
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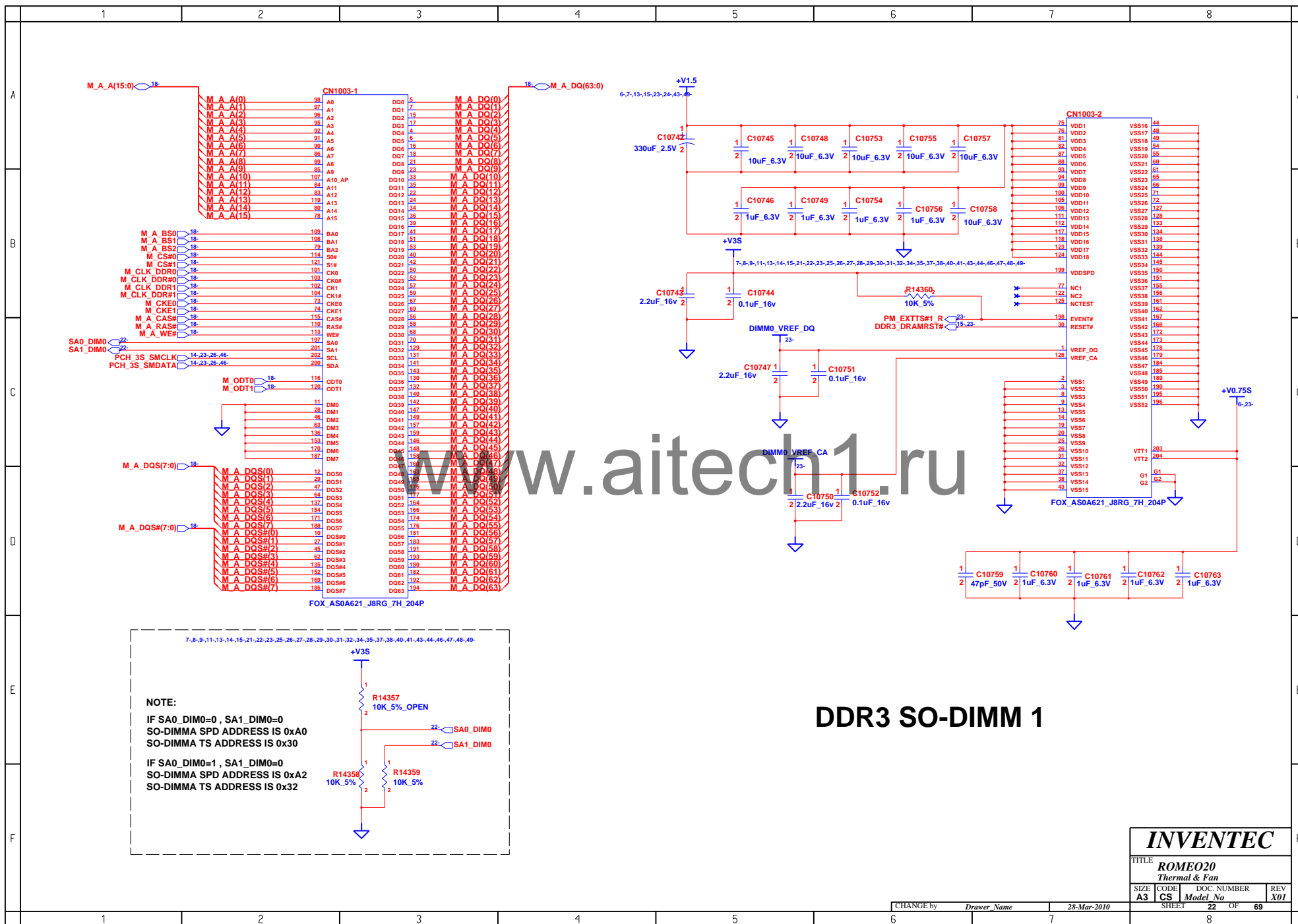
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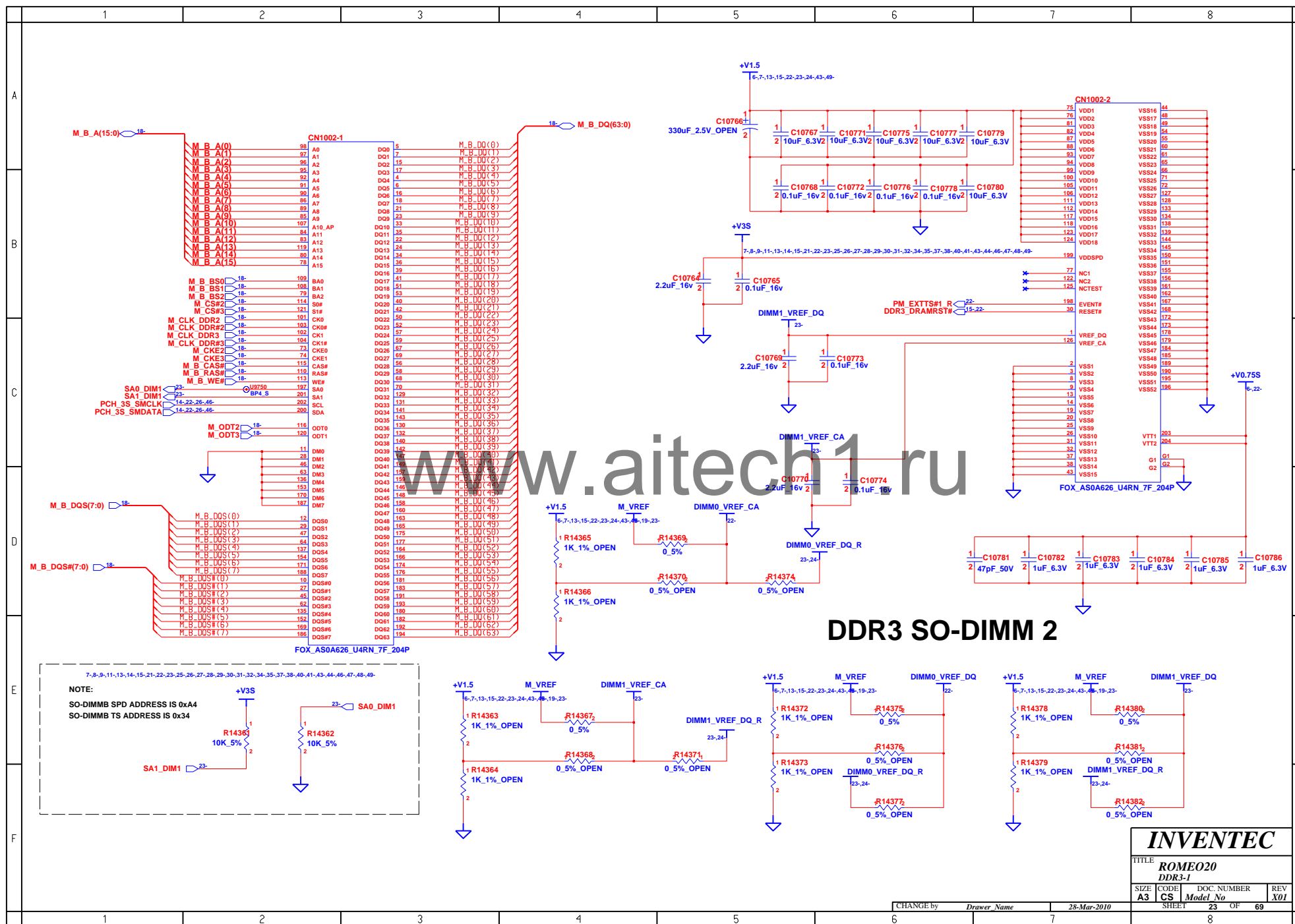
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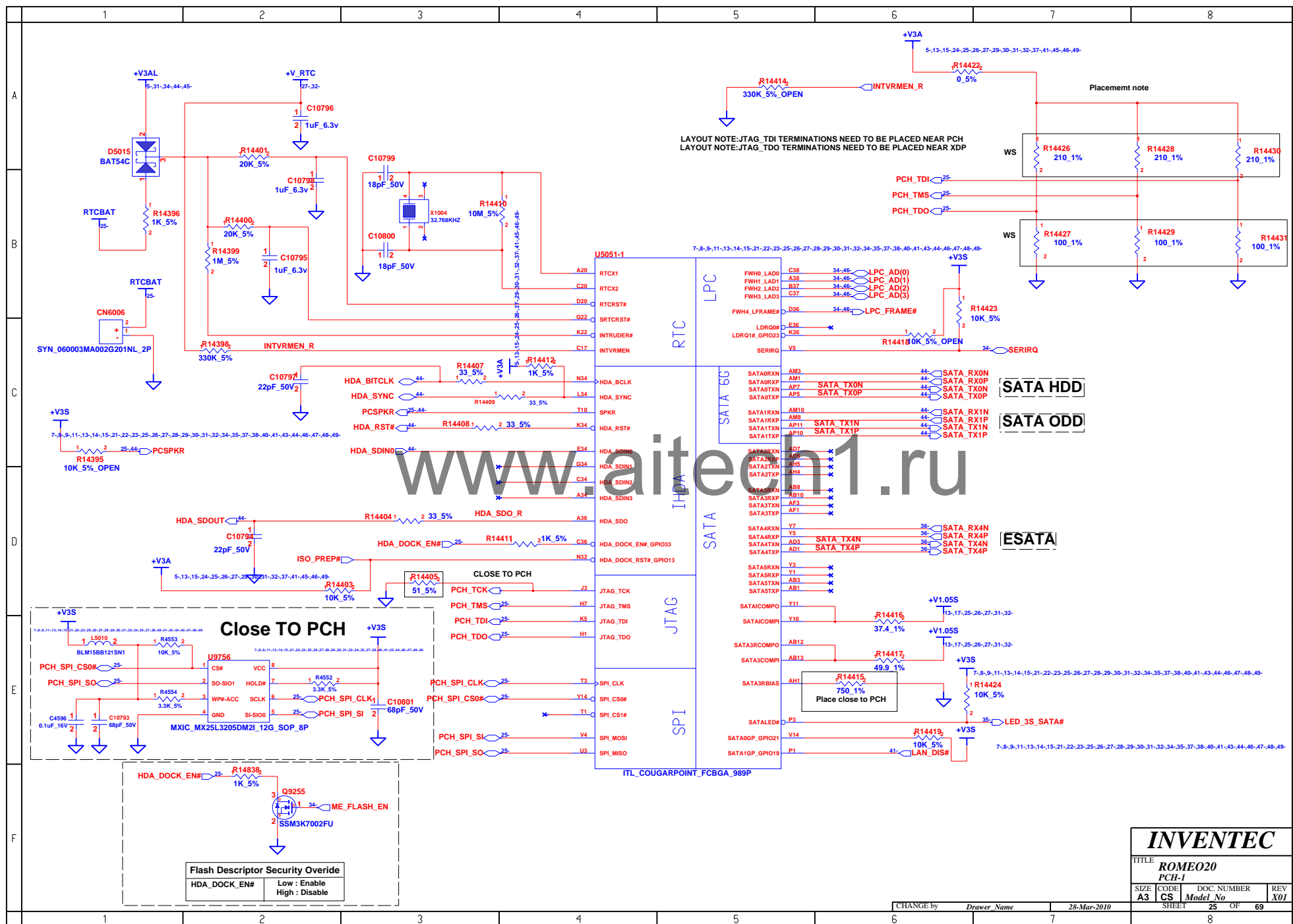


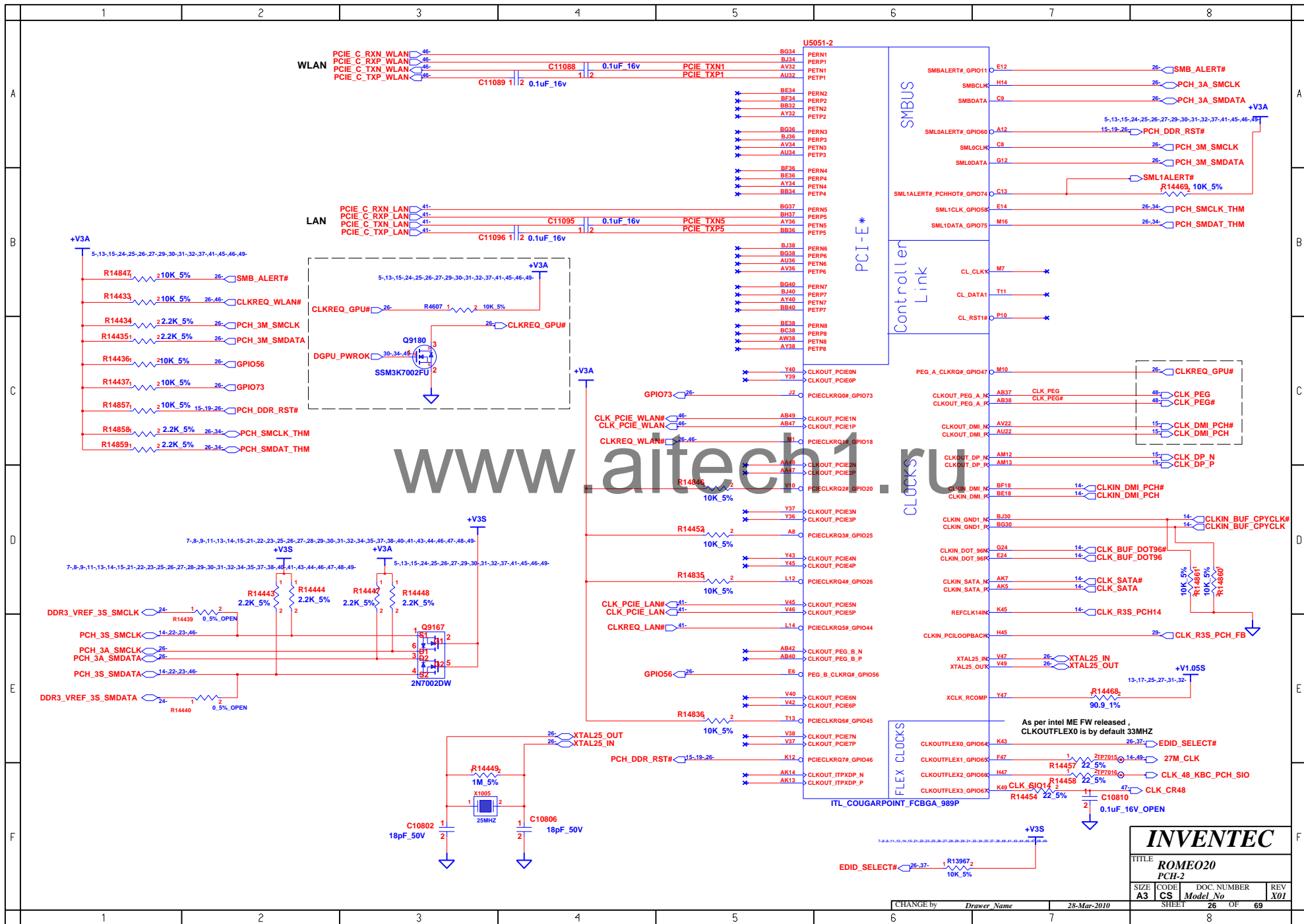












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TITLE  
ROME020  
PCH-2

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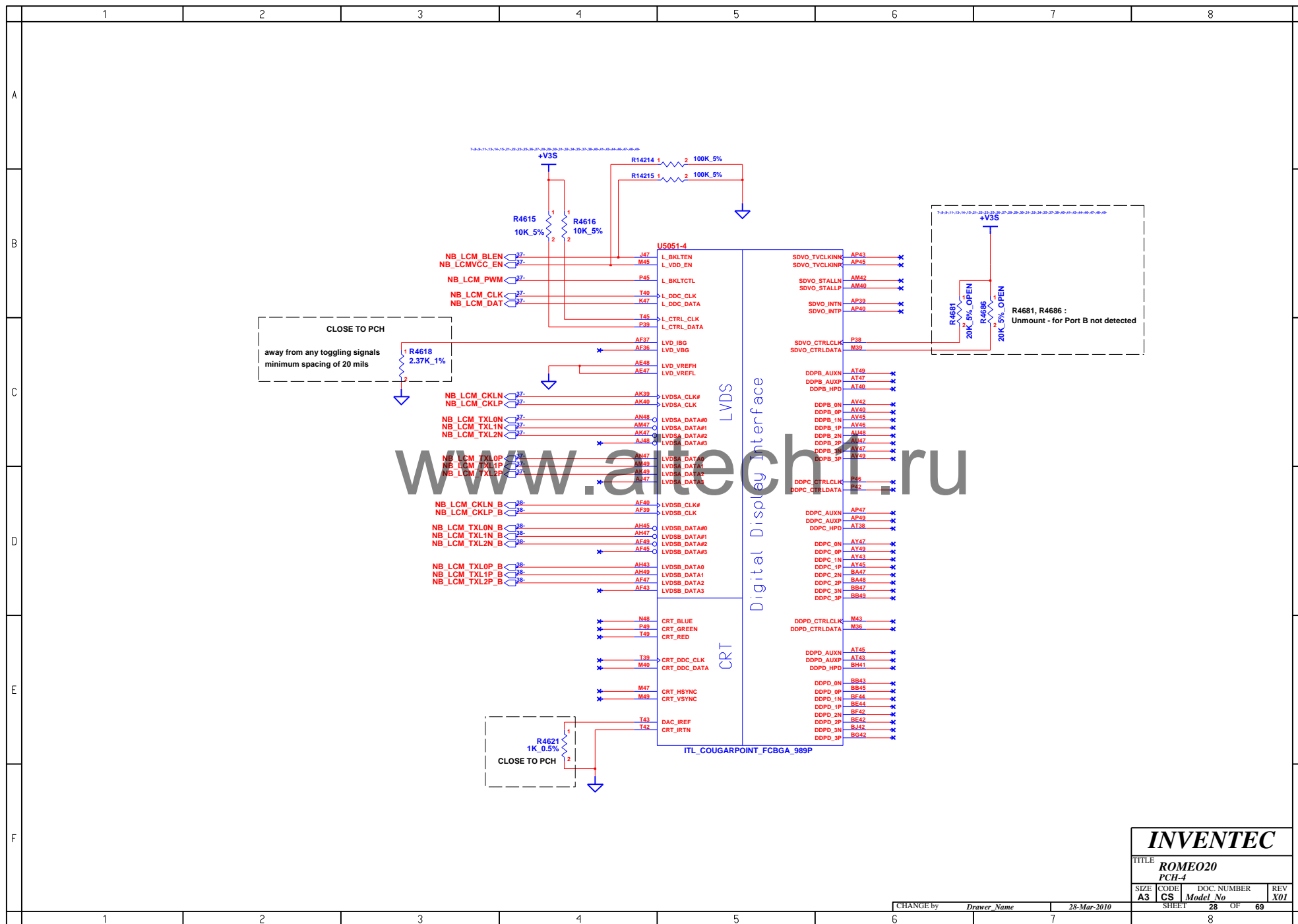
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**ROME020**  
**PCH-4**

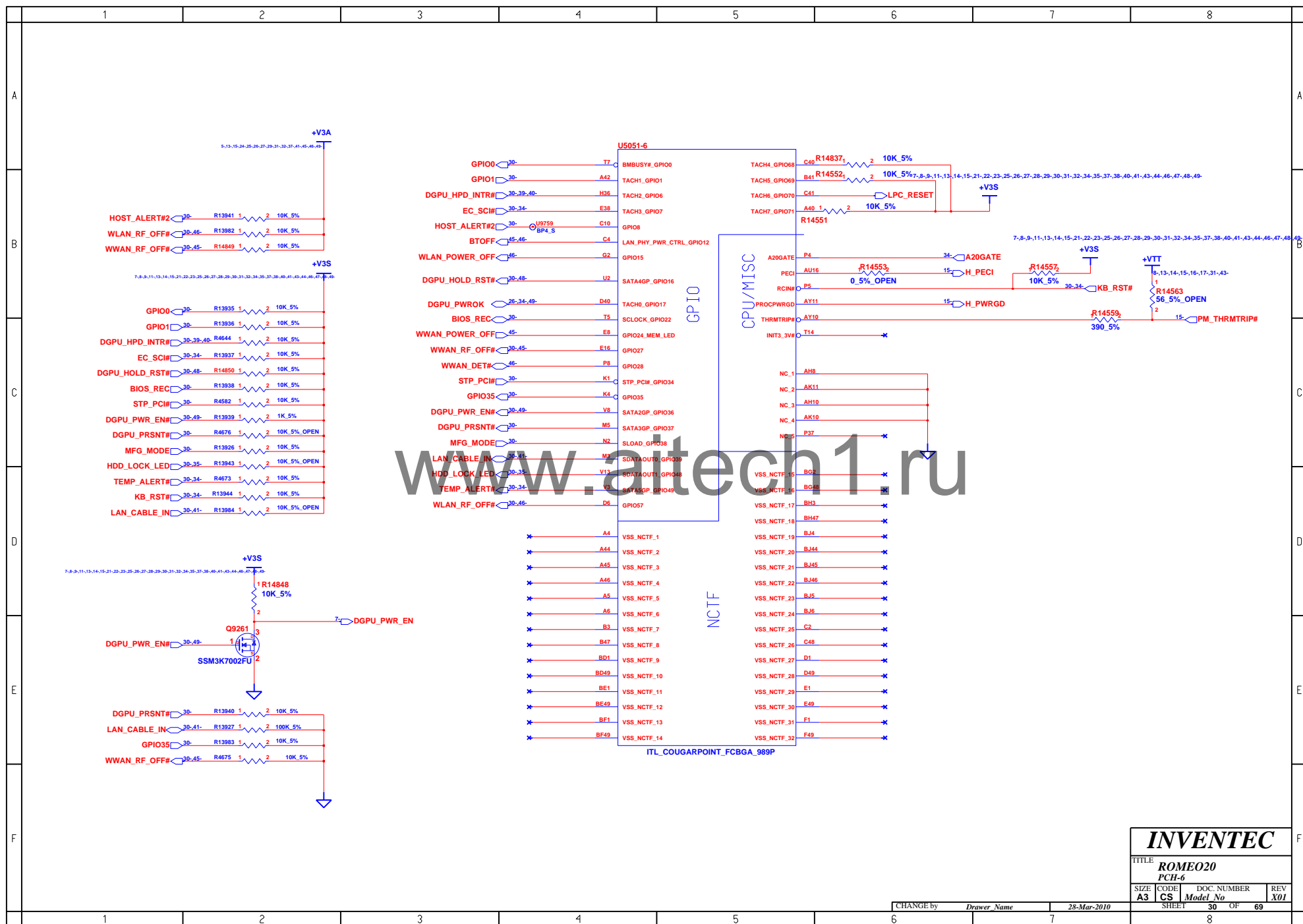
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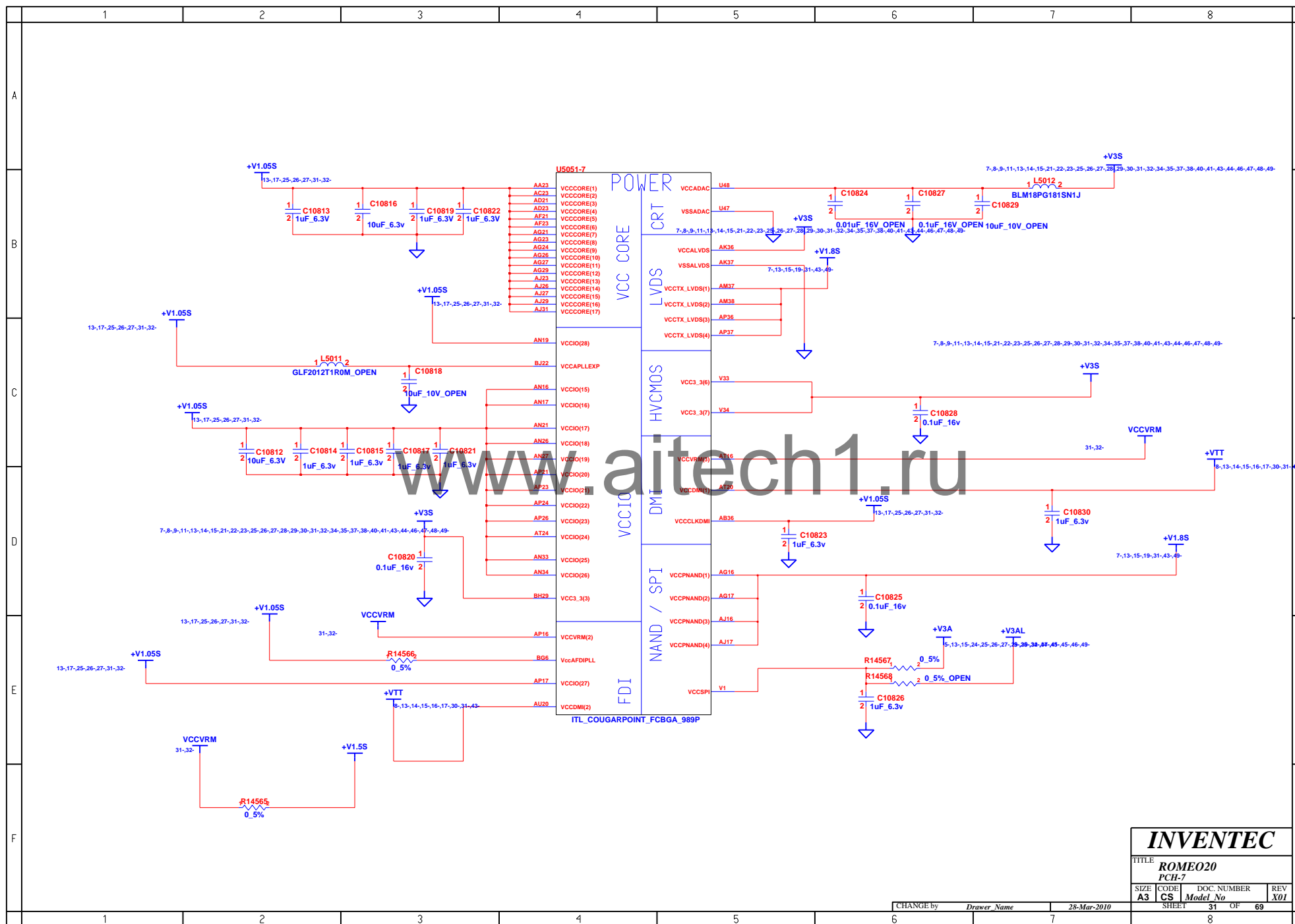
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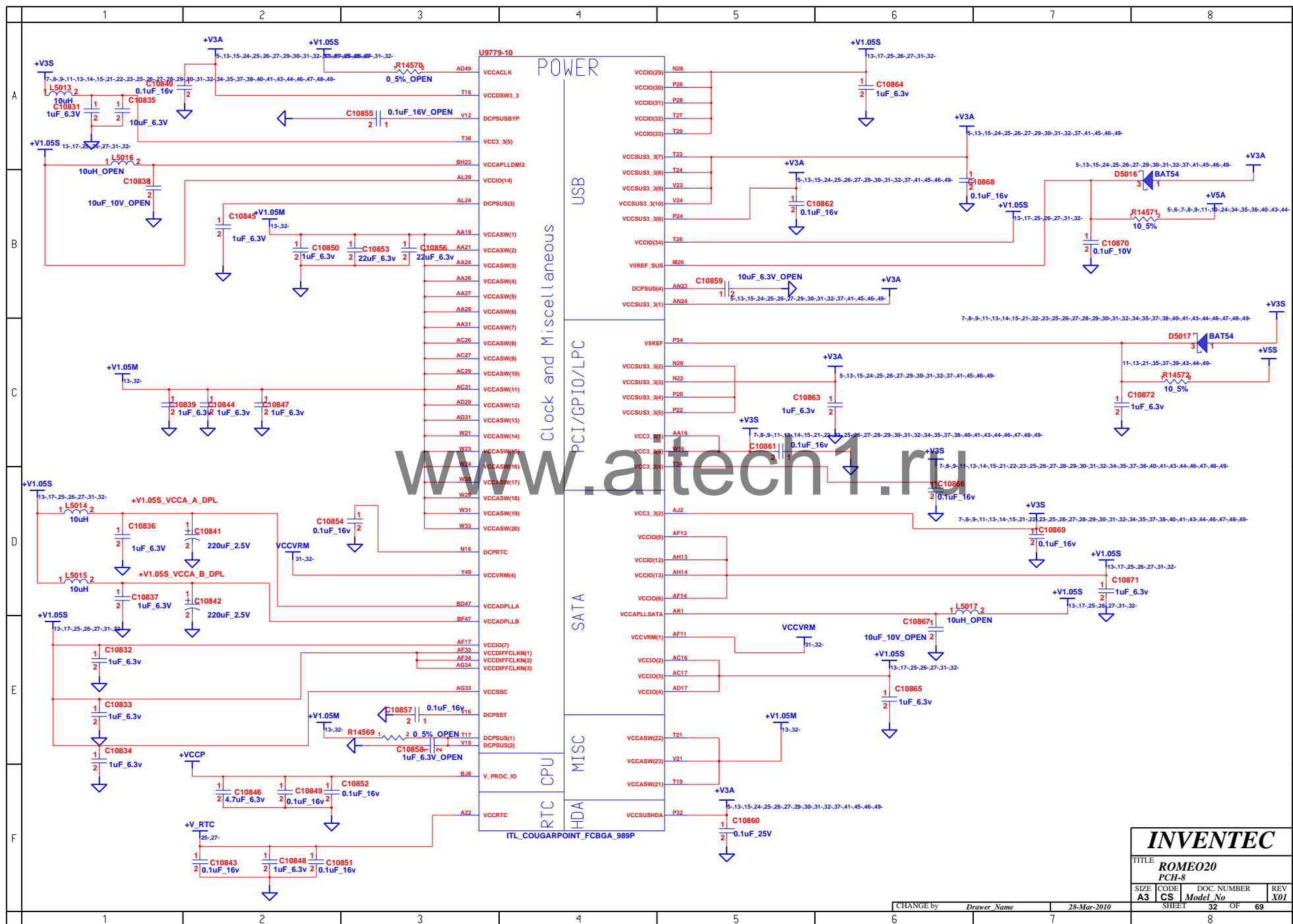
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	1	2	3	4	5	6	7	8
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B						<div><div>U5051-9</div><div>AY4 VSS(159) H46</div><div>AY42 VSS(160) K18</div><div>AY46 VSS(161) K26</div><div>AY8 VSS(162) K39</div><div>B11 VSS(163) K46</div><div>B15 VSS(164) K7</div><div>B19 VSS(165) L18</div><div>B23 VSS(166) L2</div><div>B27 VSS(167) L20</div><div>B31 VSS(168) L26</div><div>B35 VSS(169) L28</div><div>B39 VSS(170) L36</div><div>B7 VSS(171) L48</div><div>B45 VSS(172) M12</div><div>BB12 VSS(173) P16</div><div>BB16 VSS(174) M18</div><div>BB20 VSS(175) M22</div><div>BB22 VSS(176) M24</div><div>BB24 VSS(177) M30</div><div>BB28 VSS(178) M32</div><div>BB30 VSS(179) M34</div><div>BB36 VSS(180) M38</div><div>BB4 VSS(181) M4</div><div>BB46 VSS(182) M42</div><div>BC14 VSS(183) M46</div><div>BC18 VSS(184) M8</div><div>BC2 VSS(185) N18</div><div>BC22 VSS(186) P30</div><div>BC26 VSS(187) N47</div><div>BC32 VSS(188) P11</div><div>BC34 VSS(189) P18</div><div>BC36 VSS(190) T33</div><div>BC40 VSS(191) P40</div><div>BC42 VSS(192) P43</div><div>BC48 VSS(193) P47</div><div>BD46 VSS(194) P7</div><div>BD5 VSS(195) R2</div><div>BE22 VSS(196) R48</div><div>BE26 VSS(197) T12</div><div>BE40 VSS(198) T31</div><div>BF10 VSS(199) T37</div><div>BF12 VSS(200) T4</div><div>BF16 VSS(201) W34</div><div>BF20 VSS(202) T46</div><div>BF22 VSS(203) T47</div><div>BF24 VSS(204) T5</div><div>BF26 VSS(205) V11</div><div>BF28 VSS(206) V17</div><div>BF3 VSS(207) V26</div><div>BF36 VSS(208) V27</div><div>BF38 VSS(209) V29</div><div>BF40 VSS(210) V31</div><div>BF5 VSS(211) V36</div><div>BG17 VSS(212) V39</div><div>BG21 VSS(213) V43</div><div>BG33 VSS(214) W17</div><div>BG44 VSS(215) W19</div><div>BG8 VSS(216) W2</div><div>BH11 VSS(217) W22</div><div>BH15 VSS(218) W27</div><div>BH17 VSS(219) W48</div><div>BH19 VSS(220) Y12</div><div>H10 VSS(221) Y38</div><div>BH27 VSS(222) Y4</div><div>BH31 VSS(223) Y42</div><div>BH33 VSS(224) Y46</div><div>BH35 VSS(225) Y8</div><div>BH39 VSS(226) BG29</div><div>BH43 VSS(227) N24</div><div>BH7 VSS(228) AJ3</div><div>D3 VSS(229) AD47</div><div>D12 VSS(230) R43</div><div>D16 VSS(231) BE10</div><div>D18 VSS(232) BG41</div><div>D22 VSS(233) G14</div><div>D24 VSS(234) H16</div><div>D26 VSS(235) T36</div><div>D30 VSS(236) BG22</div><div>D32 VSS(237) BG24</div><div>D34 VSS(238) C22</div><div>D38 VSS(239) AP13</div><div>D42 VSS(240) M14</div><div>D8 VSS(241) AP3</div><div>E18 VSS(242) AP1</div><div>E26 VSS(243) BG16</div><div>G18 VSS(244) BG28</div><div>G20 VSS(245) BG35</div><div>G26 VSS(246) BJ28</div><div>G28 VSS(247)</div><div>G36 VSS(248)</div><div>G48 VSS(249)</div><div>H12 VSS(250)</div><div>H18 VSS(251)</div><div>H22 VSS(252)</div><div>H24 VSS(253)</div><div>H26 VSS(254)</div><div>H30 VSS(255)</div><div>H32 VSS(256)</div><div>H34 VSS(257)</div><div>F3 VSS(258)</div><div>ITL_COUGARPOINT_FCBGA_989P</div></div>		
C								
D								
E								
F								

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ITL\_COUGARPOINT\_FCBGA\_989P

ITL\_COUGARPOINT\_FCBGA\_989P

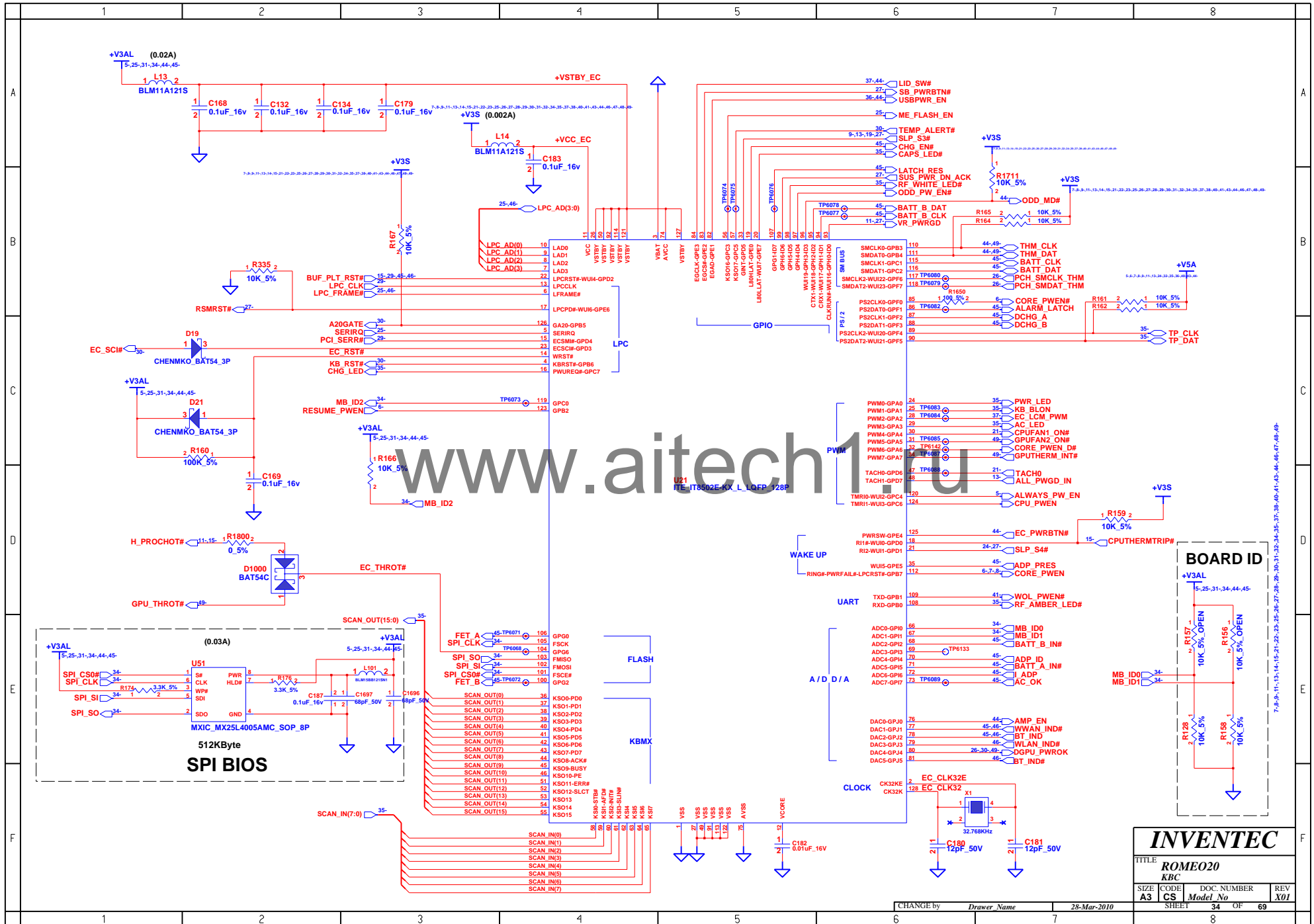
INVENTEC

TITLE  
ROME020  
PCH-9

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by  
Drawer Name  
28-Mar-2010

SHEET 33 OF 69



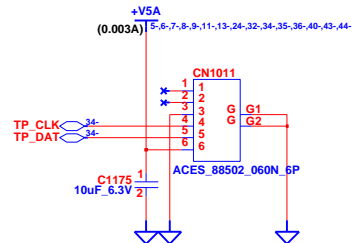
**INVENTEC**

TITLE: ROME020  
KBC  
SIZE: A3  
CODE: CS  
DOC. NUMBER: Model No  
REV: X01

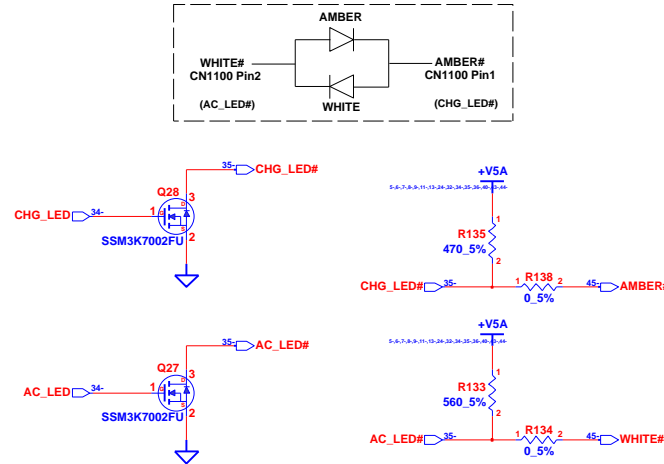
CHANGE by: Drawer Name 28-Mar-2010

SHEET 34 OF 69

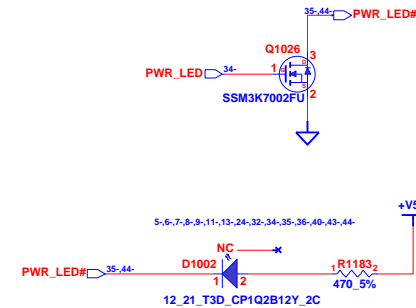
## TouchPad Module CONN



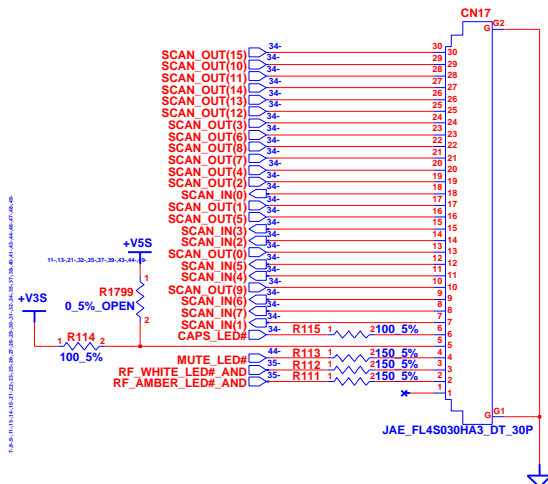
## DC-JACK LED



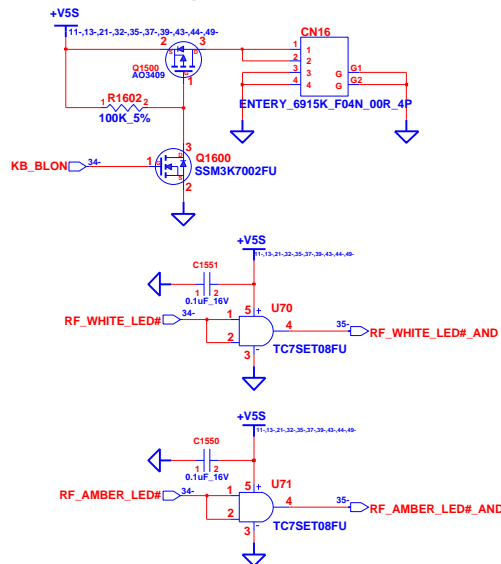
## POWER LED



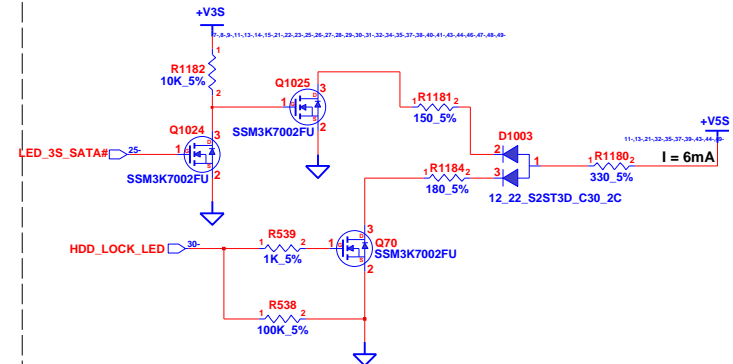
## KeyBoard CONN (30 pin)



## Backlight connector



## SATA LED & HDD-HALTED LED

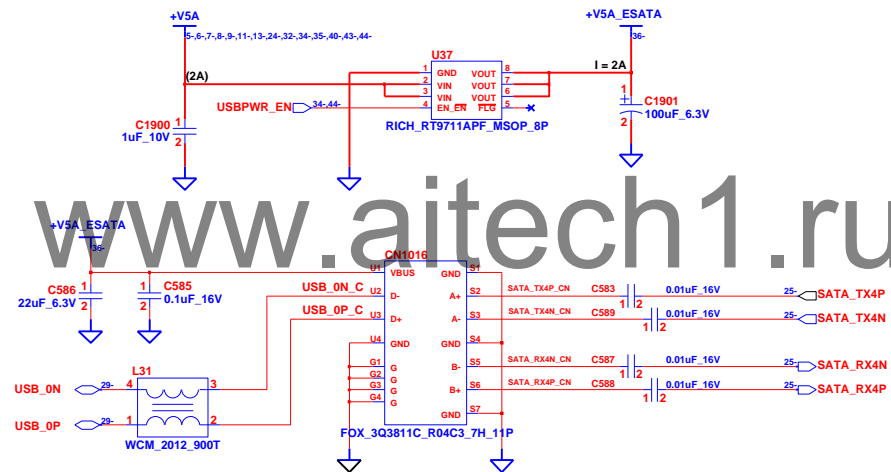


**INVENTEC**

TITLE <b>ROMEO20</b> Keyboard & Touchpad			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER Model No	REV <b>X01</b>
SHEET		35 OF	69

CHANGE by *Drawer Name* 28-Mar-2010

8



TITLE			
<b>ROMEO20</b> <b>CRT</b>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	<i>Model No</i>	<i>X01</i>
SHEET		36	OF 69







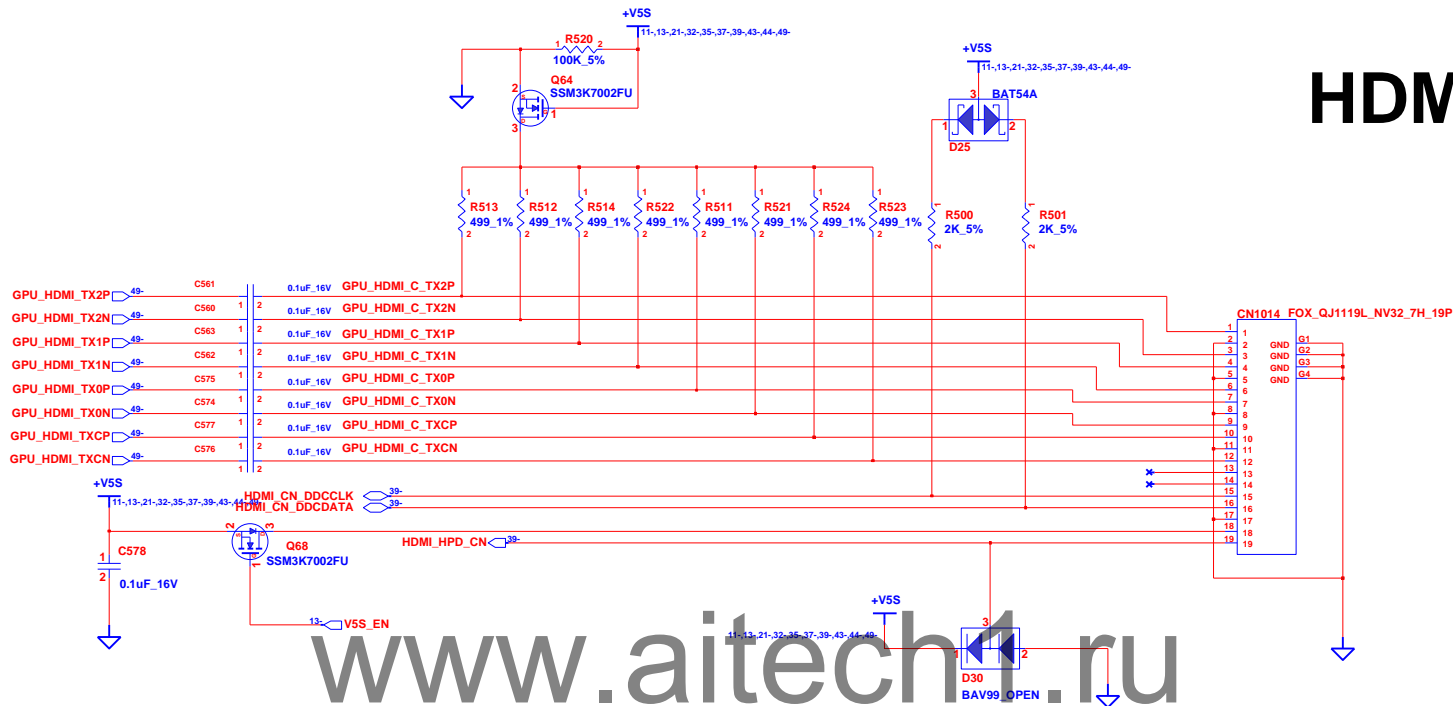
DGPU_SELECT#	OUTPUT
L	MADISON
H	PCH

**INVENTEC**

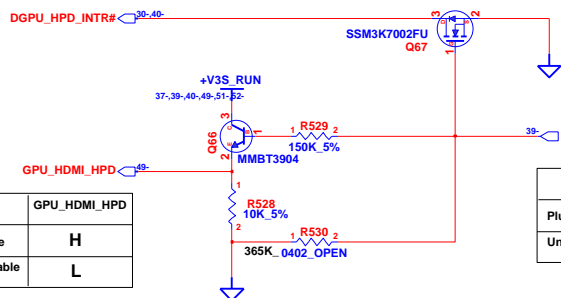
TITLE	<b>ROMEO20</b>
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SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <i>X01</i>
SHEET 38 OF 69			

# HDMI

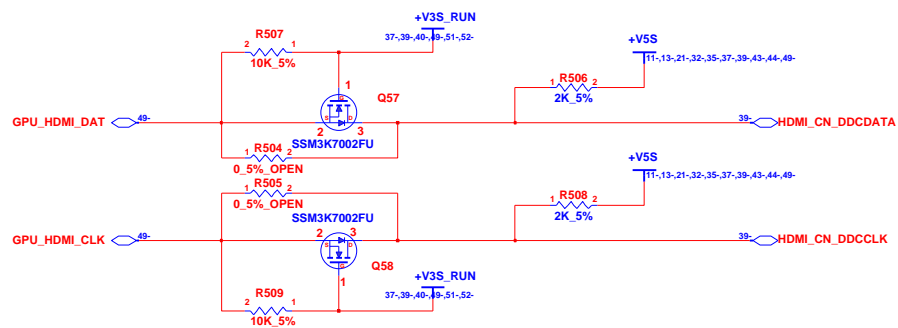


	DGPU_HPD_INTR#
Plug Cable	L
Unplug Cable	H



	GPU_HDMI_HPD
Plug Cable	H
Unplug Cable	L

	HDMI_HPD_CN
Plug Cable	H
Unplug Cable	L



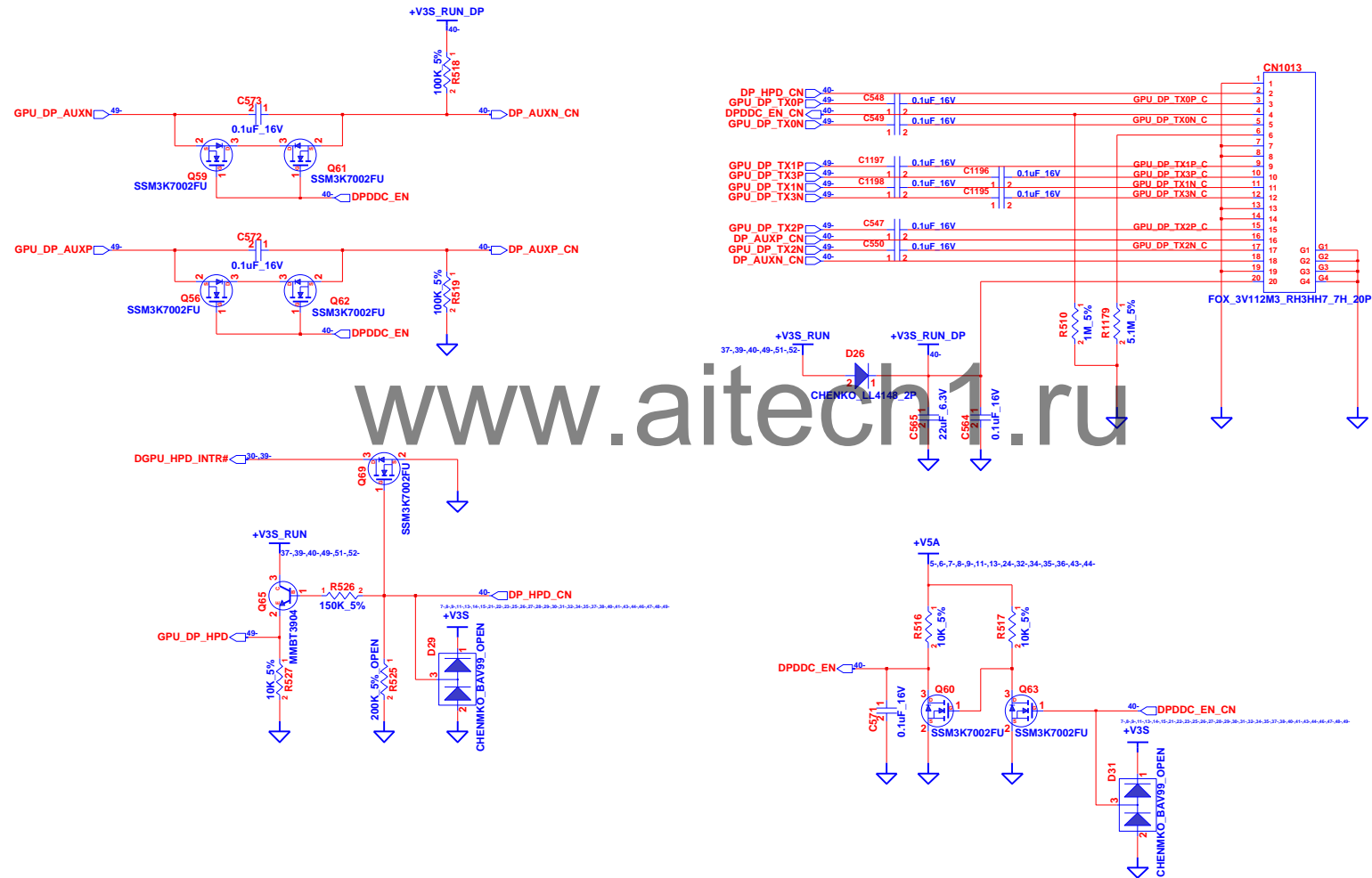
**INVENTEC**

TITLE ROMEO20 HDMI			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01

CHANGE by: *Drawer Name* 28-Mar-2010

SHEET 39 OF 69

# Mini Display Port



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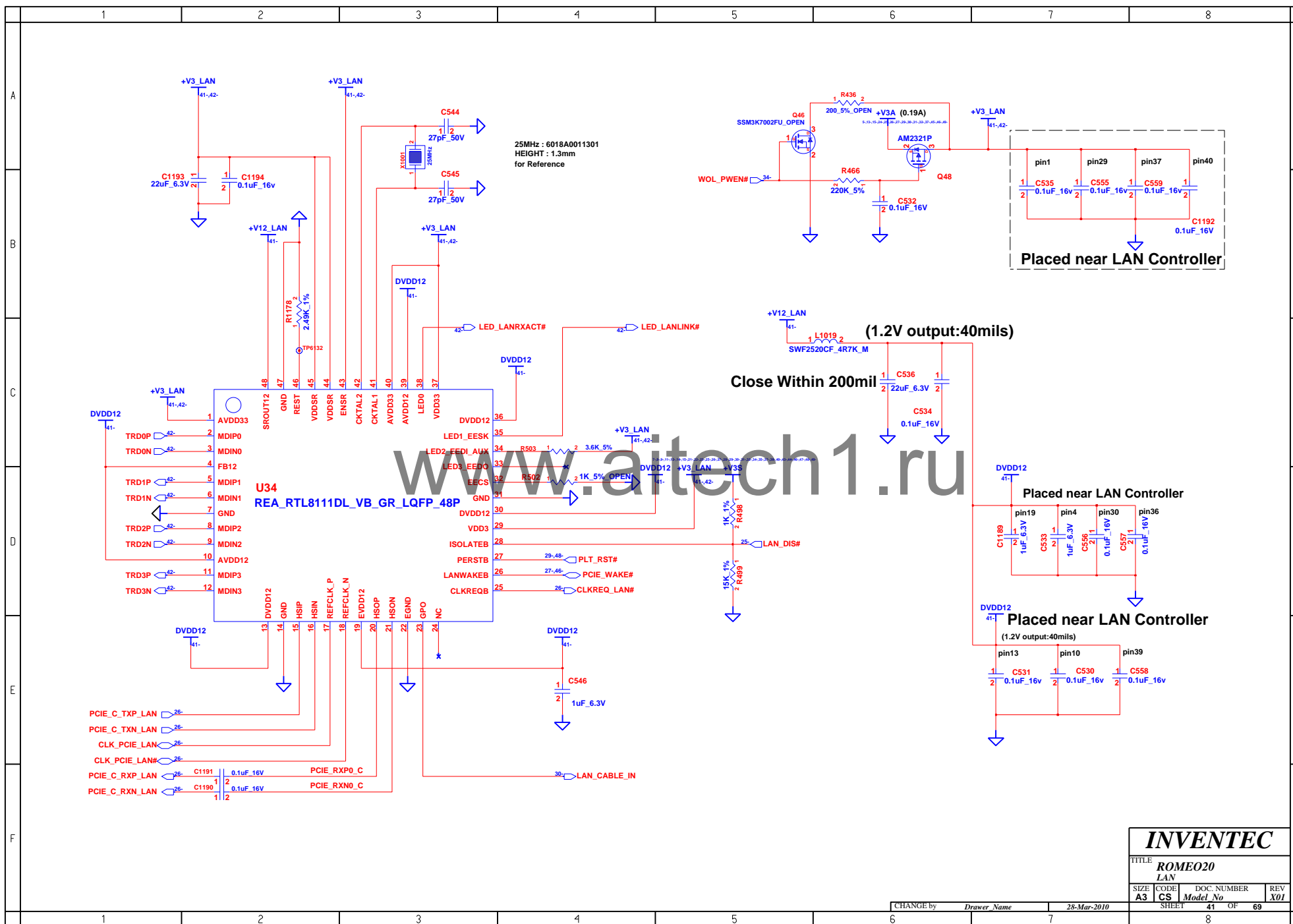
**INVENTEC**

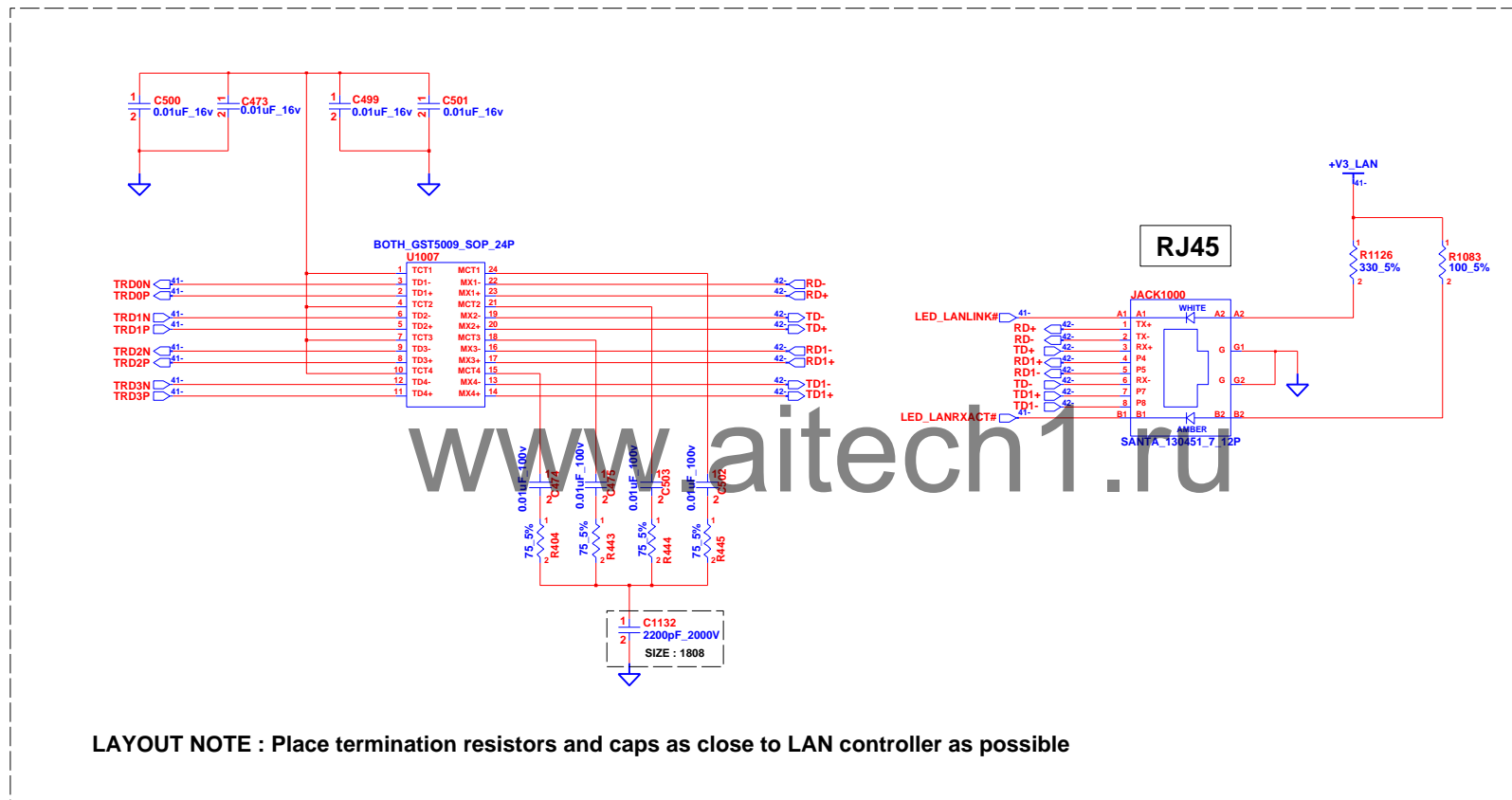
TITLE  
**ROMEO20**  
DisplayPort

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by *Drawer Name* 28-Mar-2010

SHEET 40 OF 69



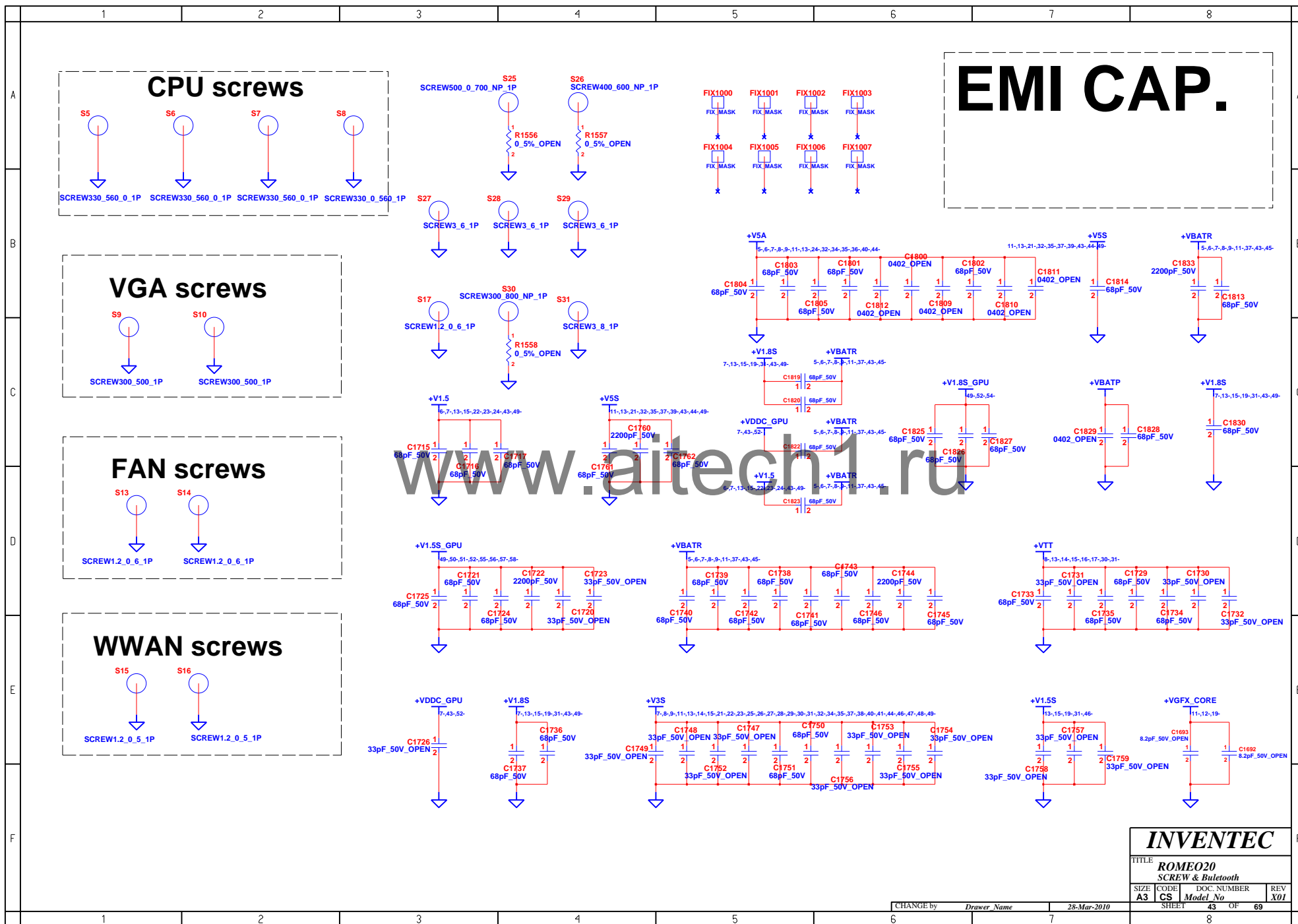


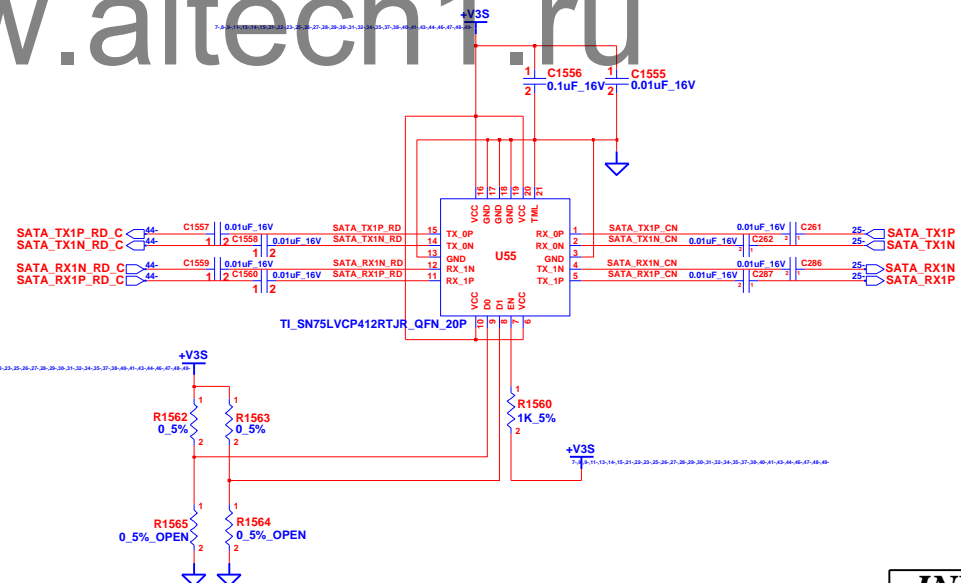
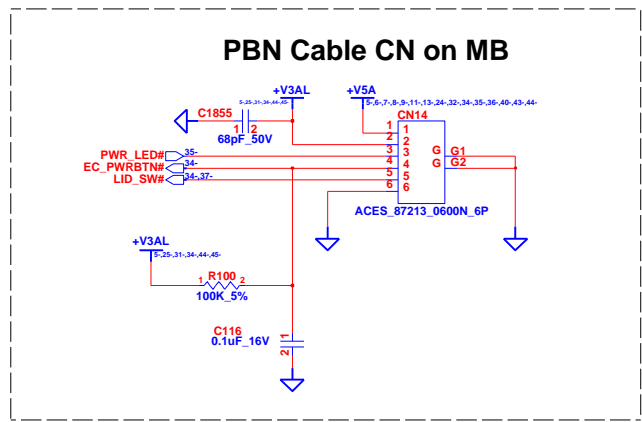
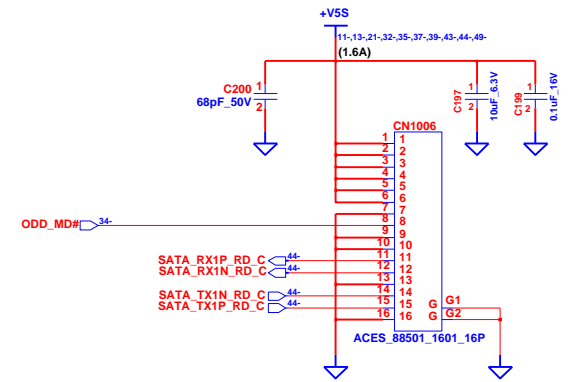
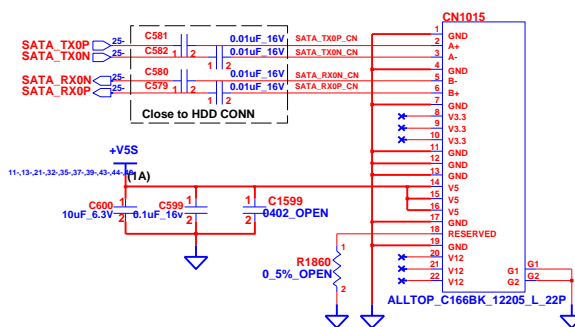
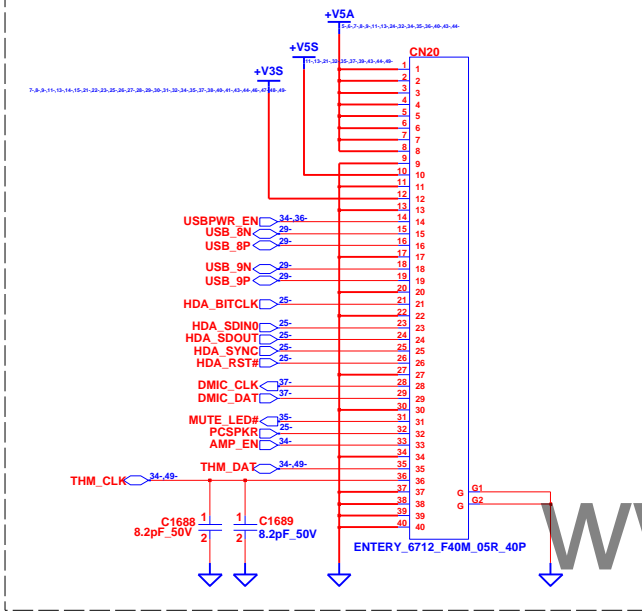
**INVENTEC**

TITLE			
ROME020			
RJ-45			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		42	OF 69

CHANGE by *Drawer Name* 28-Mar-2010

8



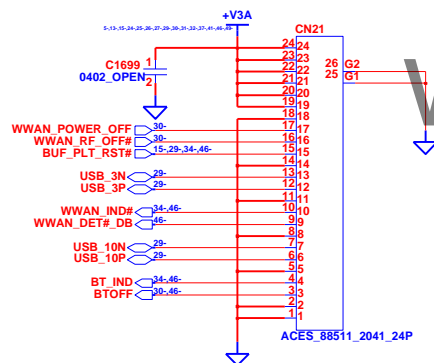


TITLE			
<b>ROMEO20</b> <i>Connector-1</i>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	<i>Model No</i>	<b>X01</b>

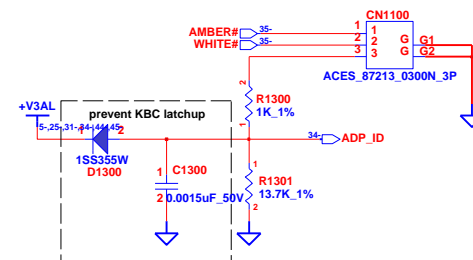
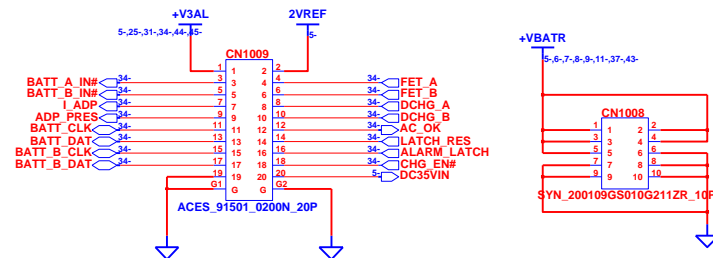


## WC Board CN on MB

### WWAN & BT



## CHG Board CN on MB



**INVENTEC**

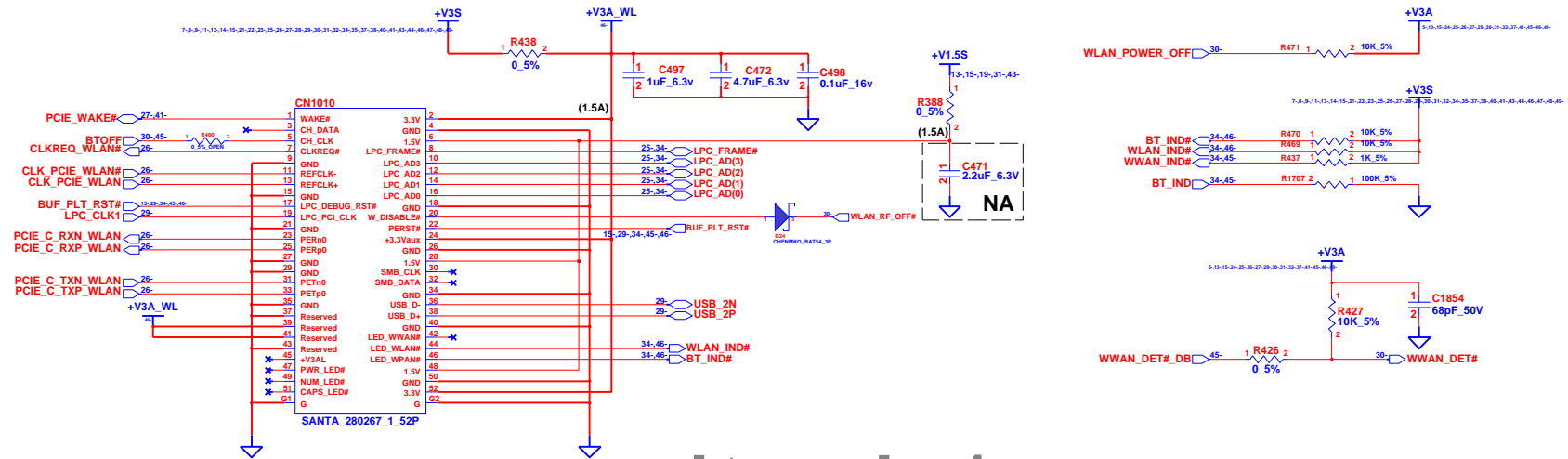
TITLE  
**ROMEO20**  
Connector-2

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

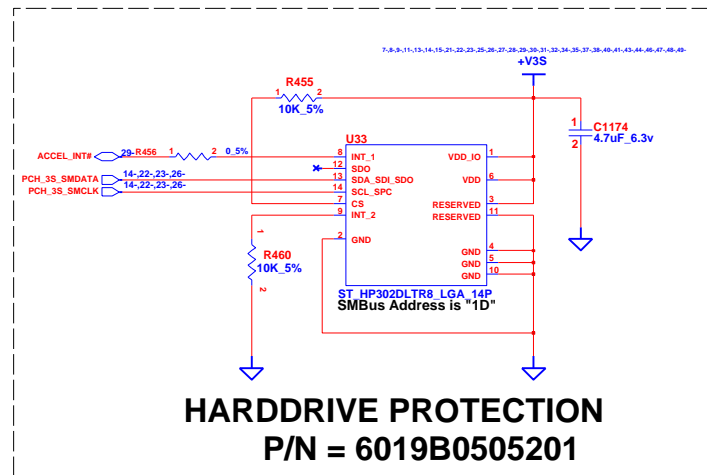
CHANGE by *Drawer Name* 28-Mar-2010

SHEET 45 OF 69

# WLAN CONN (MINICARD)



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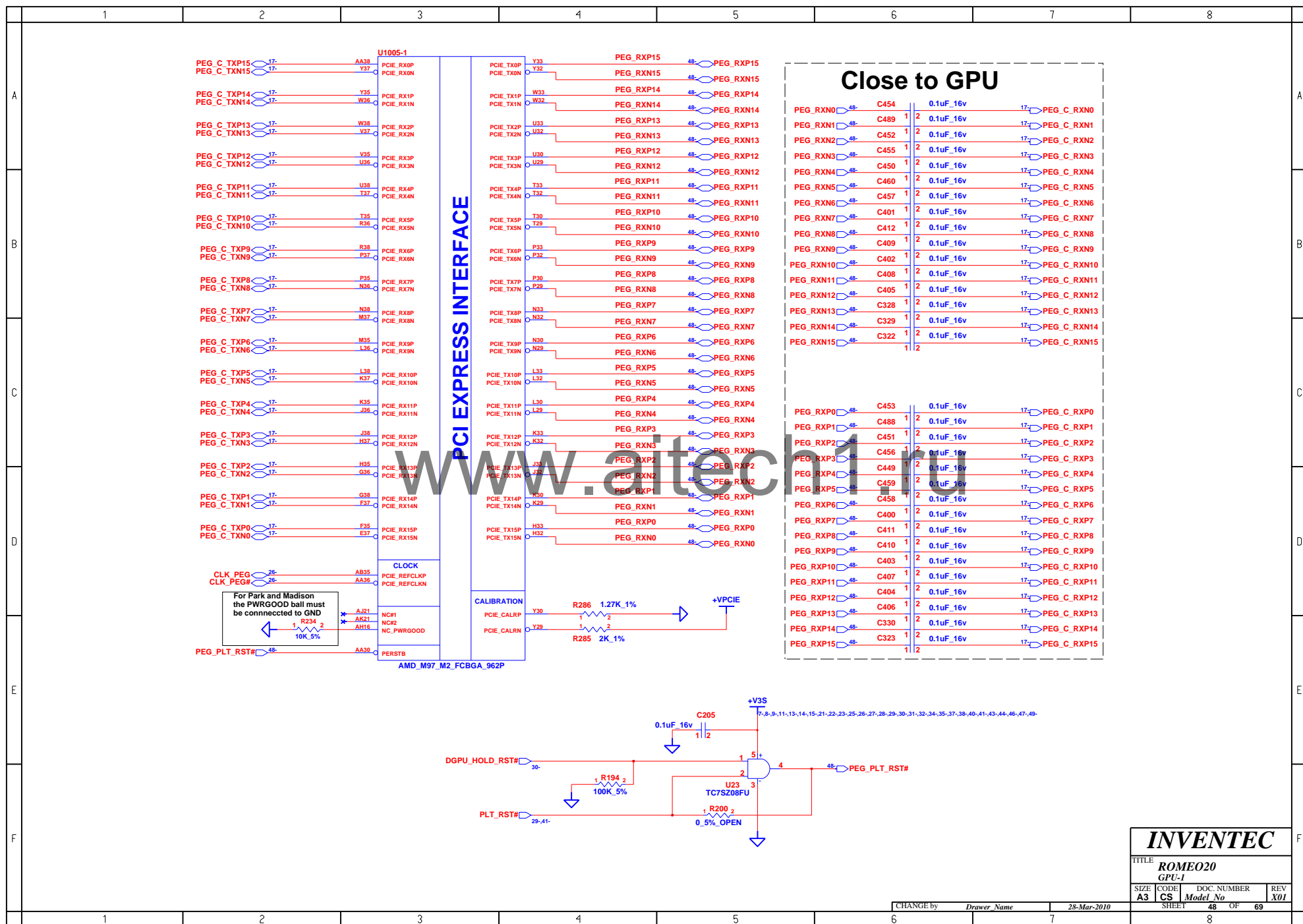
**HARDDRIVE PROTECTION**  
P/N = 6019B0505201

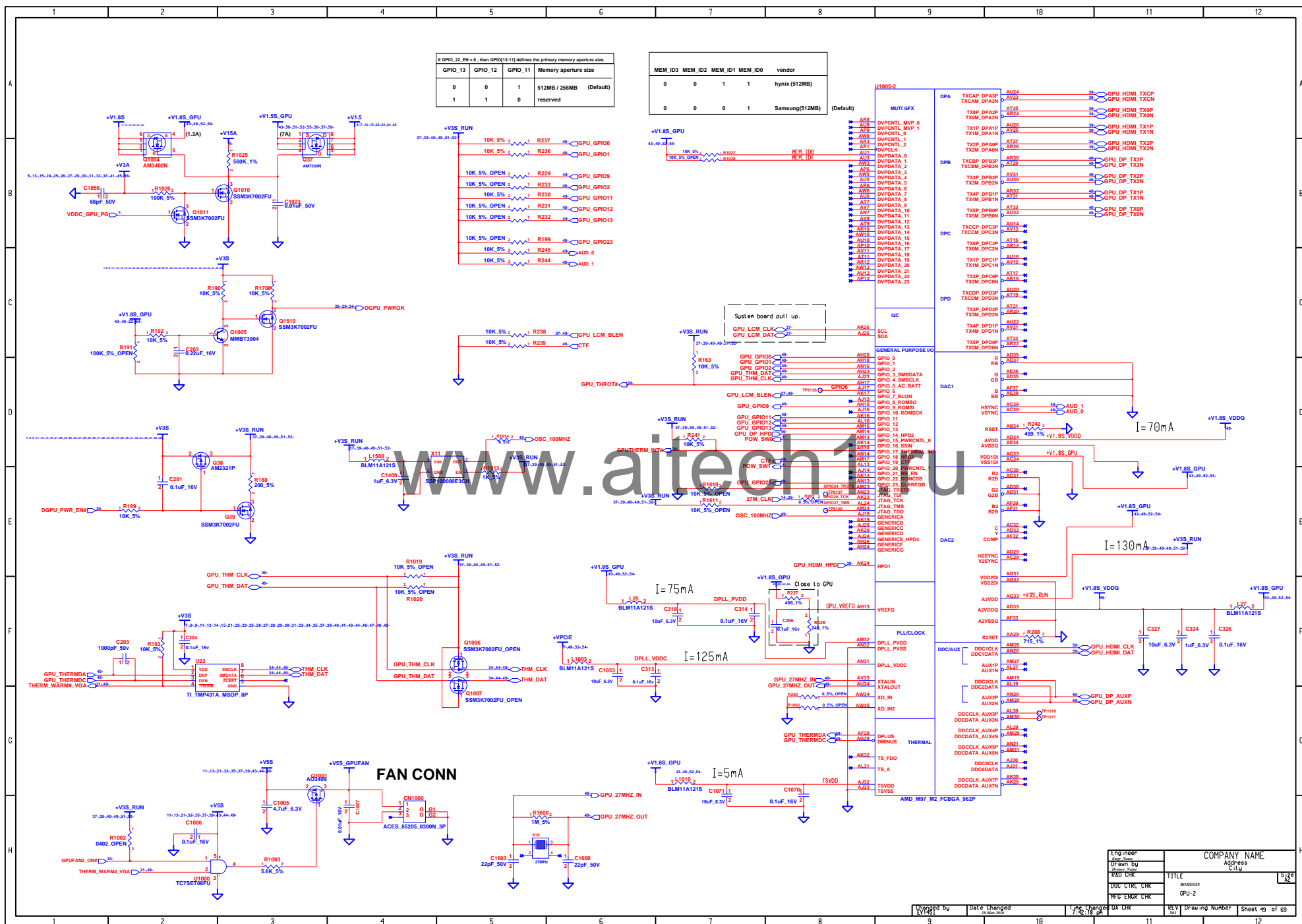
**INVENTEC**

TITLE			
ROMEO20			
WLAN & HDD Lock			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		46	OF 69

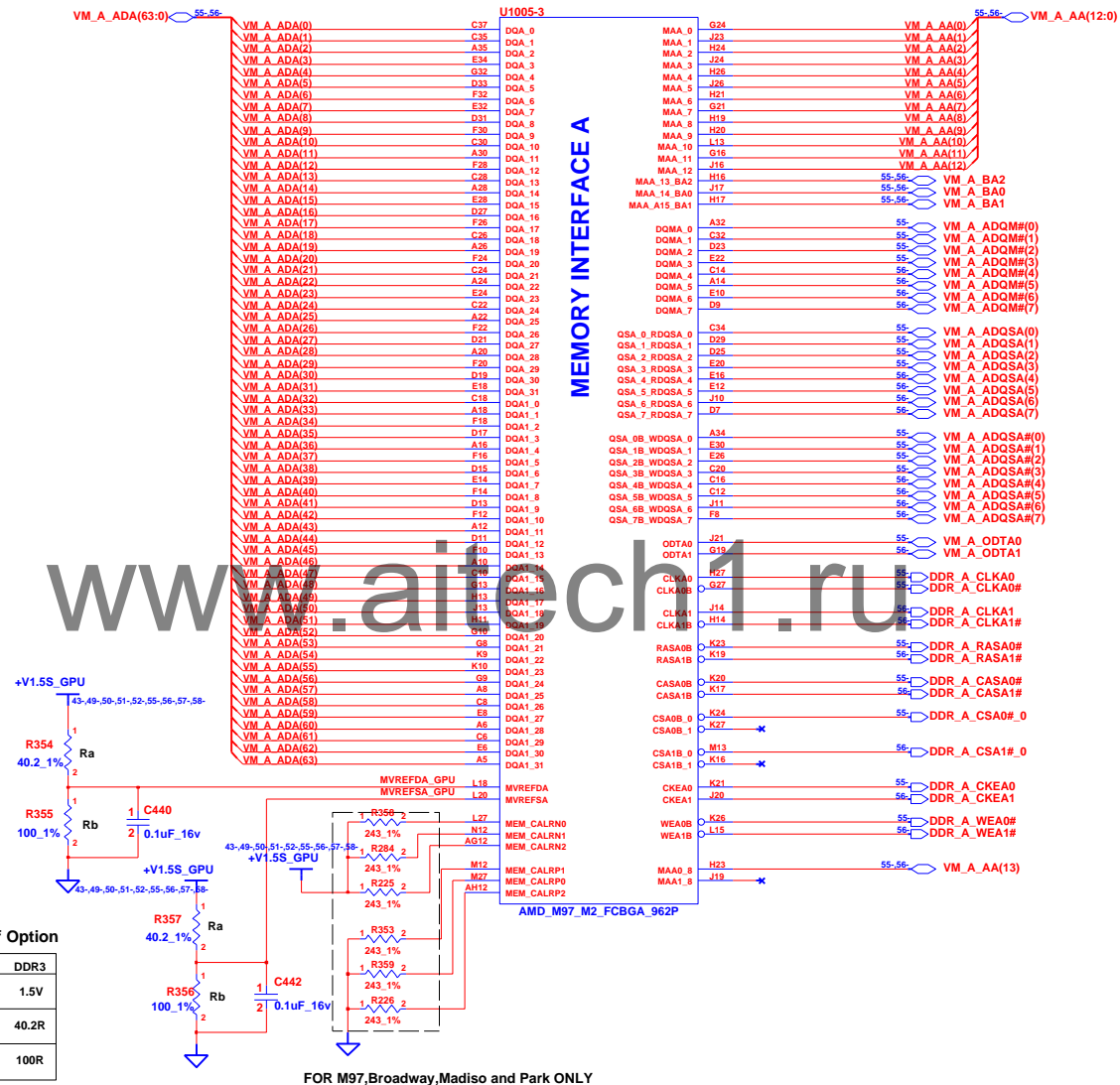
CHANGE by *Drawer Name* 28-Mar-2010







# Channel A

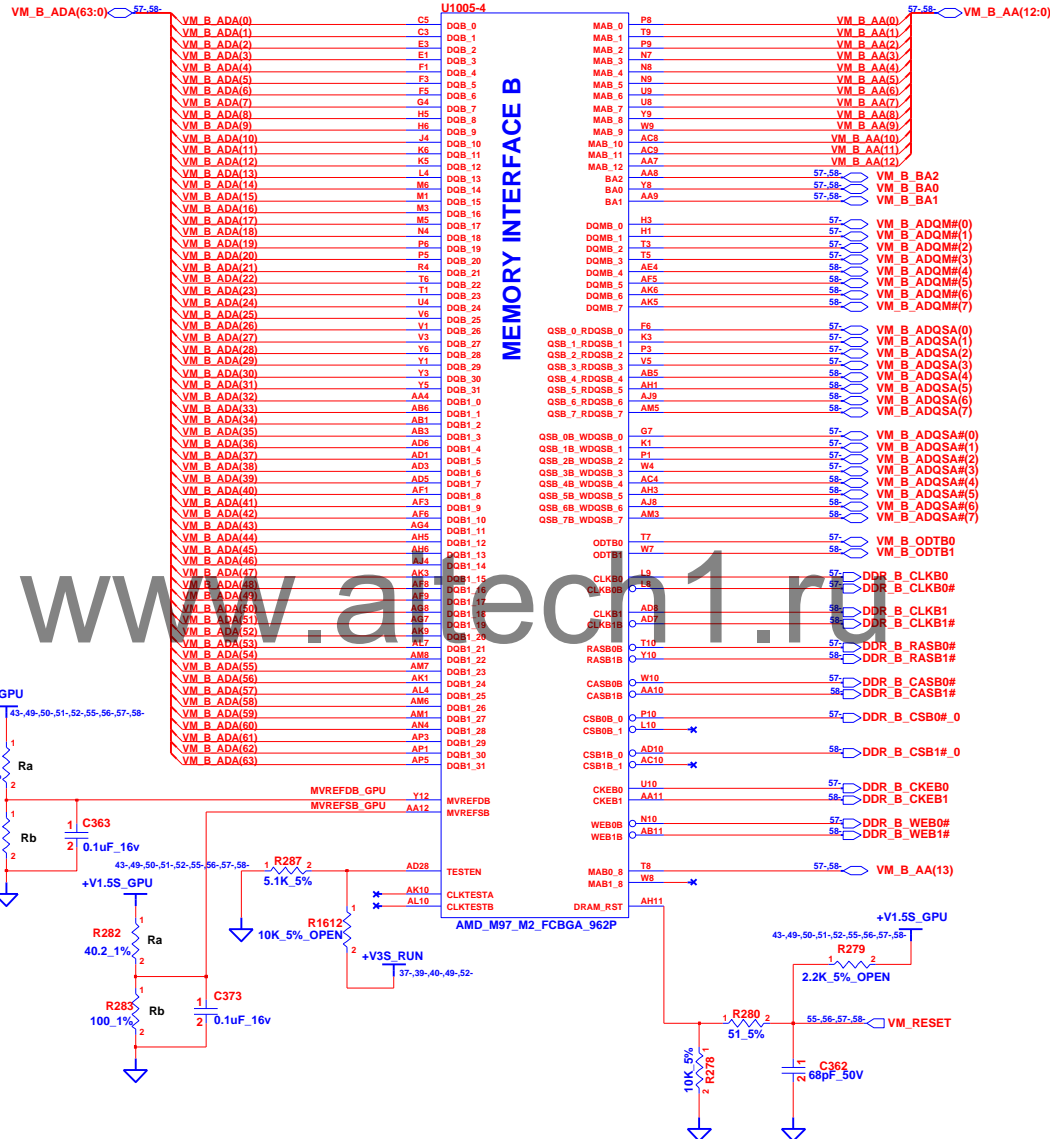


**INVENTEC**

TITLE			
ROMEO20			
GPU-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		50 OF	69

CHANGE by *Drawer Name* 28-Mar-2010

# Channel B



DDR3/GDDR3Memory Stuff Option

	GDDR5	GDDR3	DDR3
MVDDQ	1.5V	1.8V/1.5V	1.5V
Ra	40.2R	40.2R	40.2R
Rb	100R	100R	100R

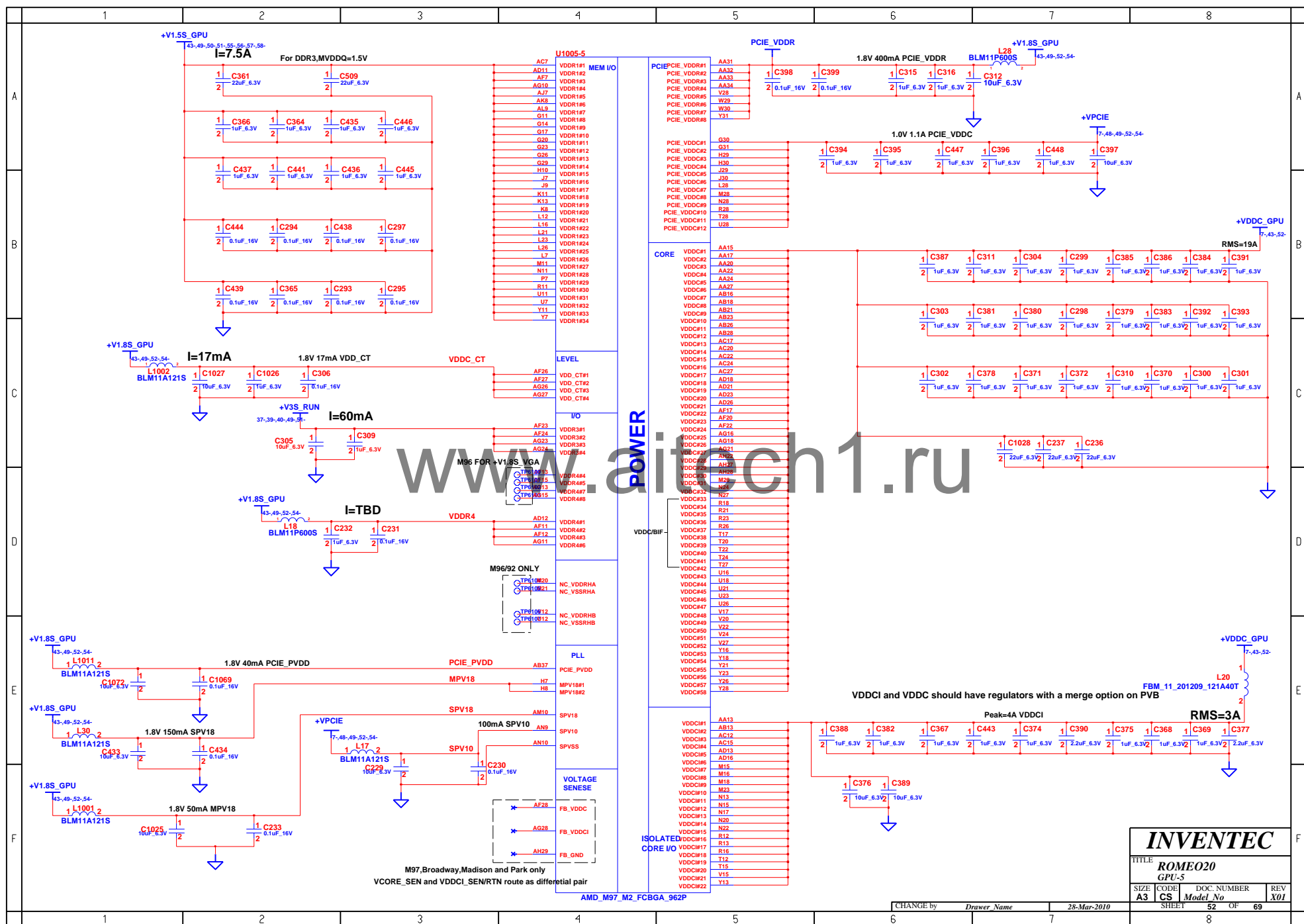
**INVENTEC**

TITLE  
**ROMEO20**  
**GPU-4**

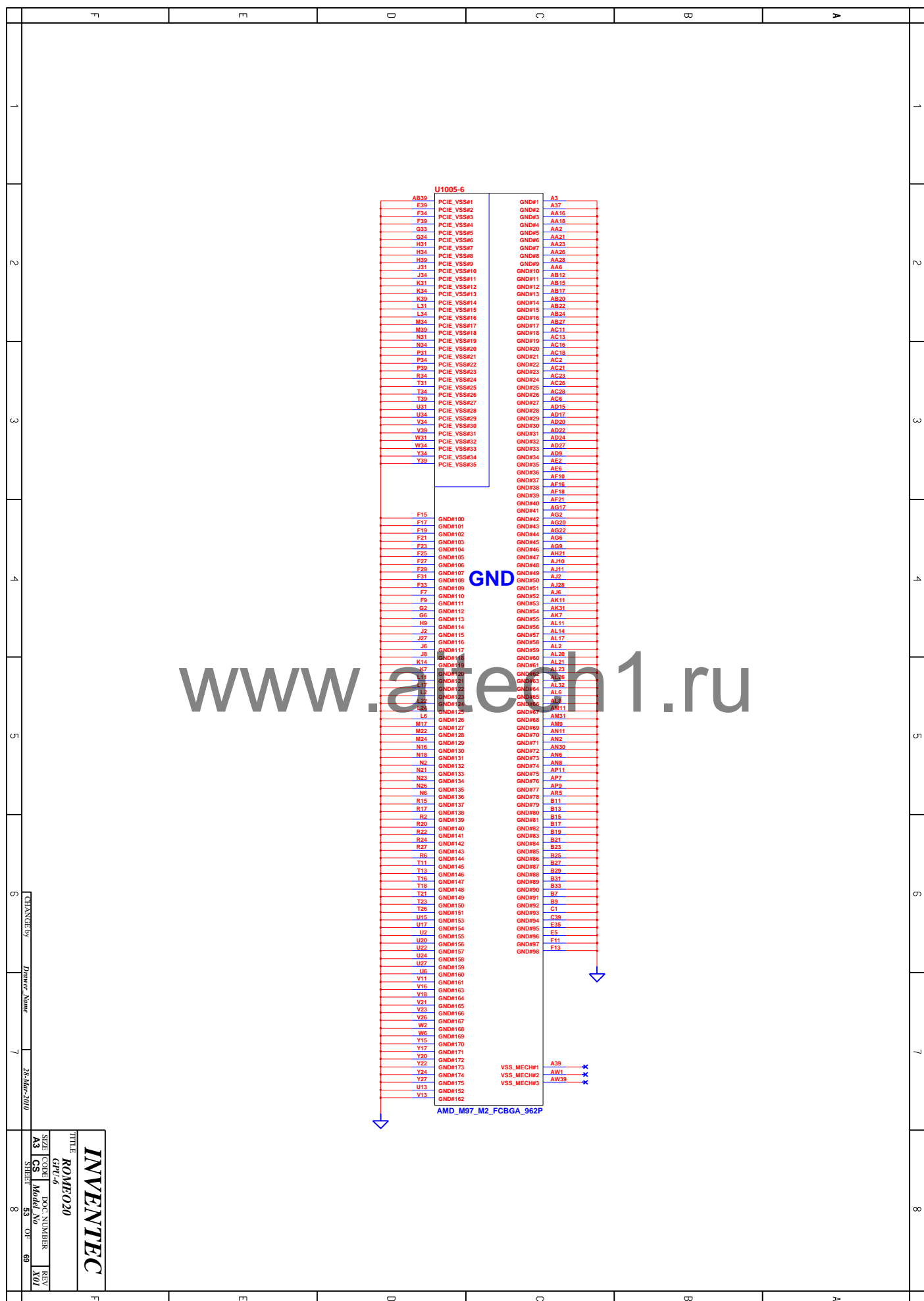
SIZE CODE DOC. NUMBER REV  
**A3 CS Model No** 51 OF 69 **X01**

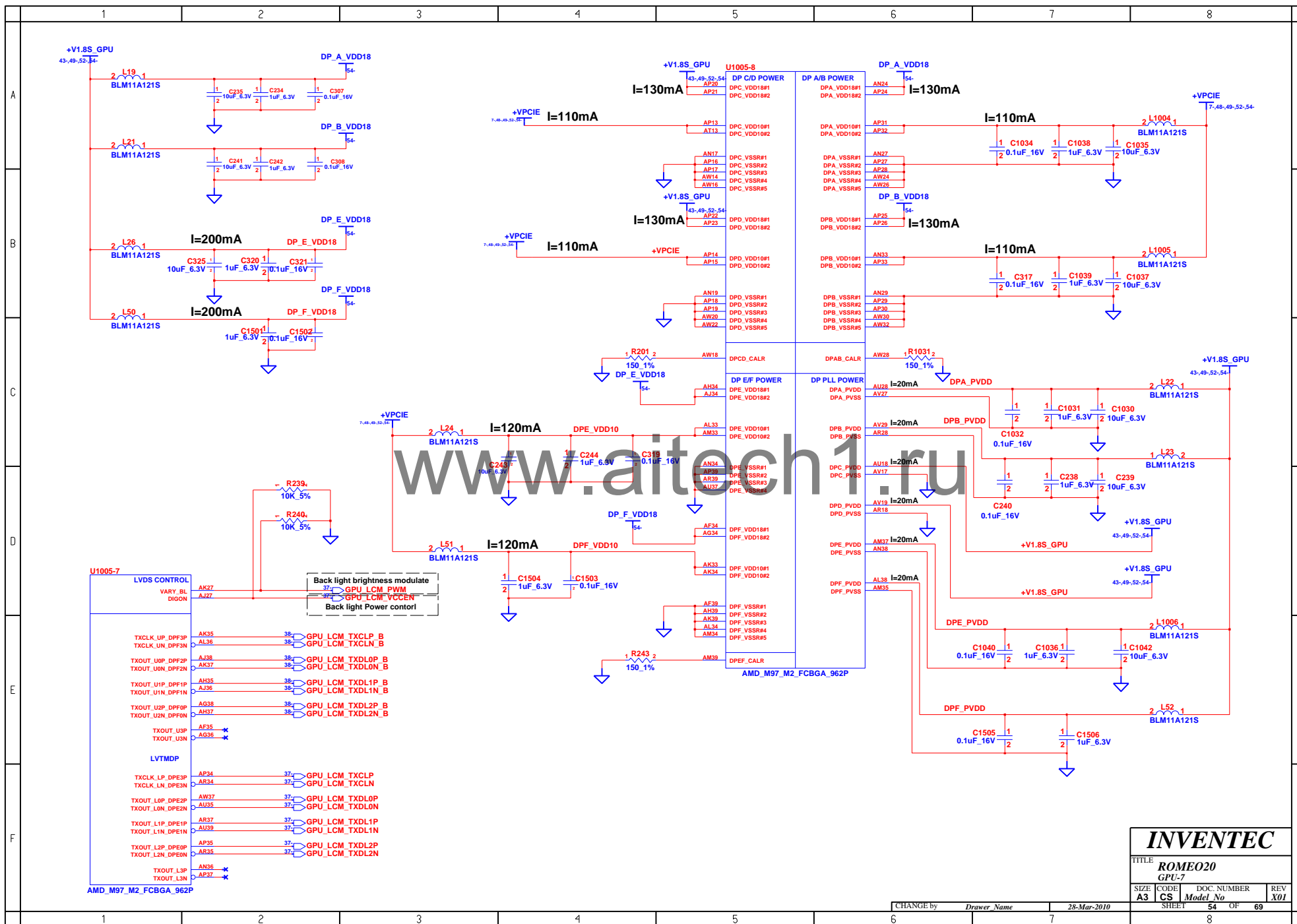
CHANGE by *Drawer Name* 28-Mar-2010

8









**INVENTEC**

TITLE  
**ROME020**  
**GPU-7**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

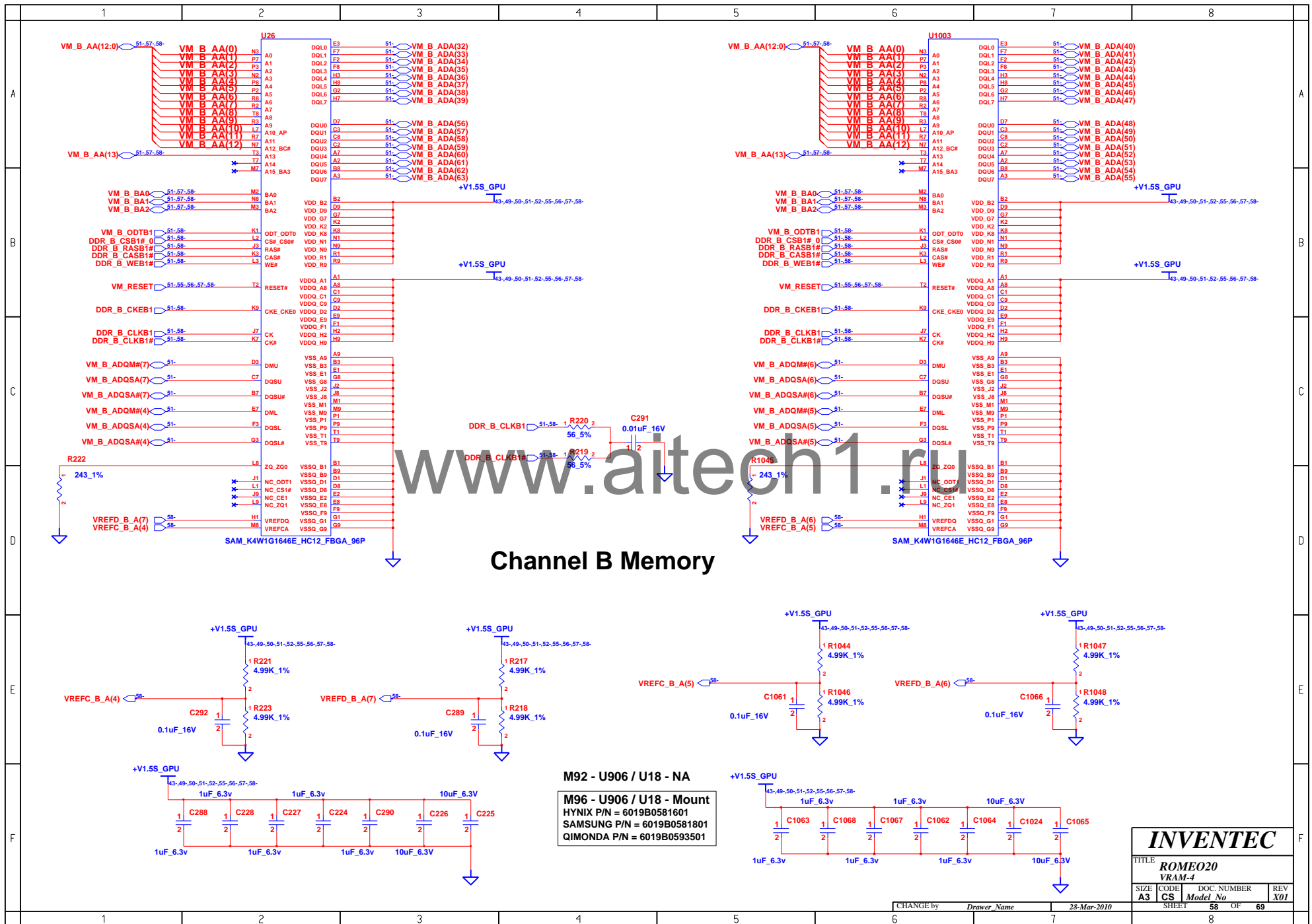
CHANGE by *Drawer Name* 28-Mar-2010

SHEET 54 OF 69



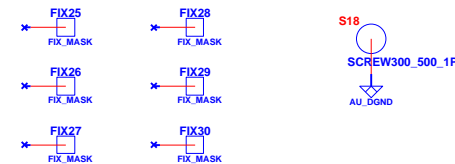
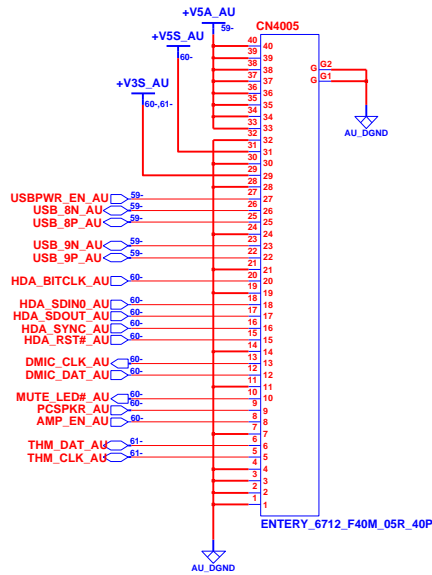




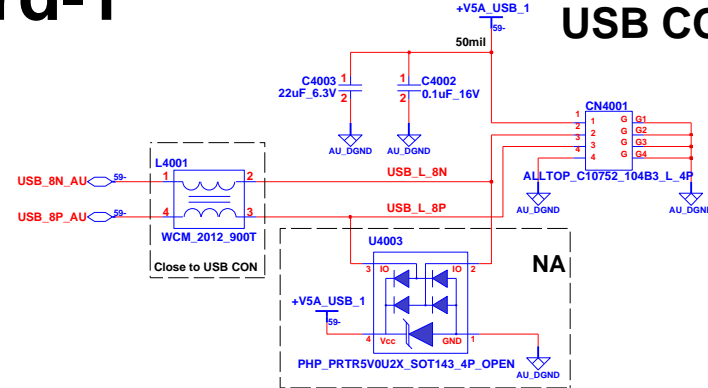


# AU Board-1

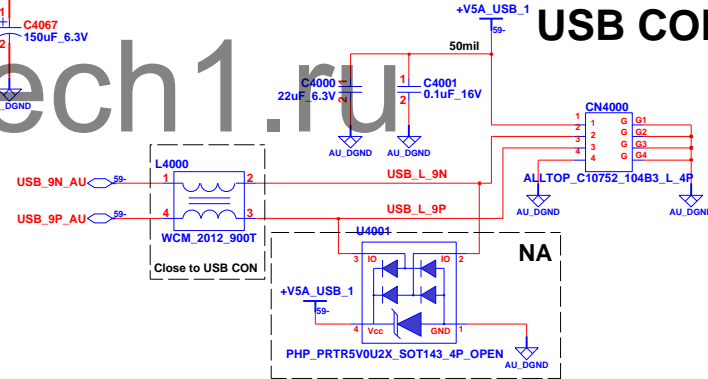
## AU Board CN on DB



## USB CONN01



## USB CONN02



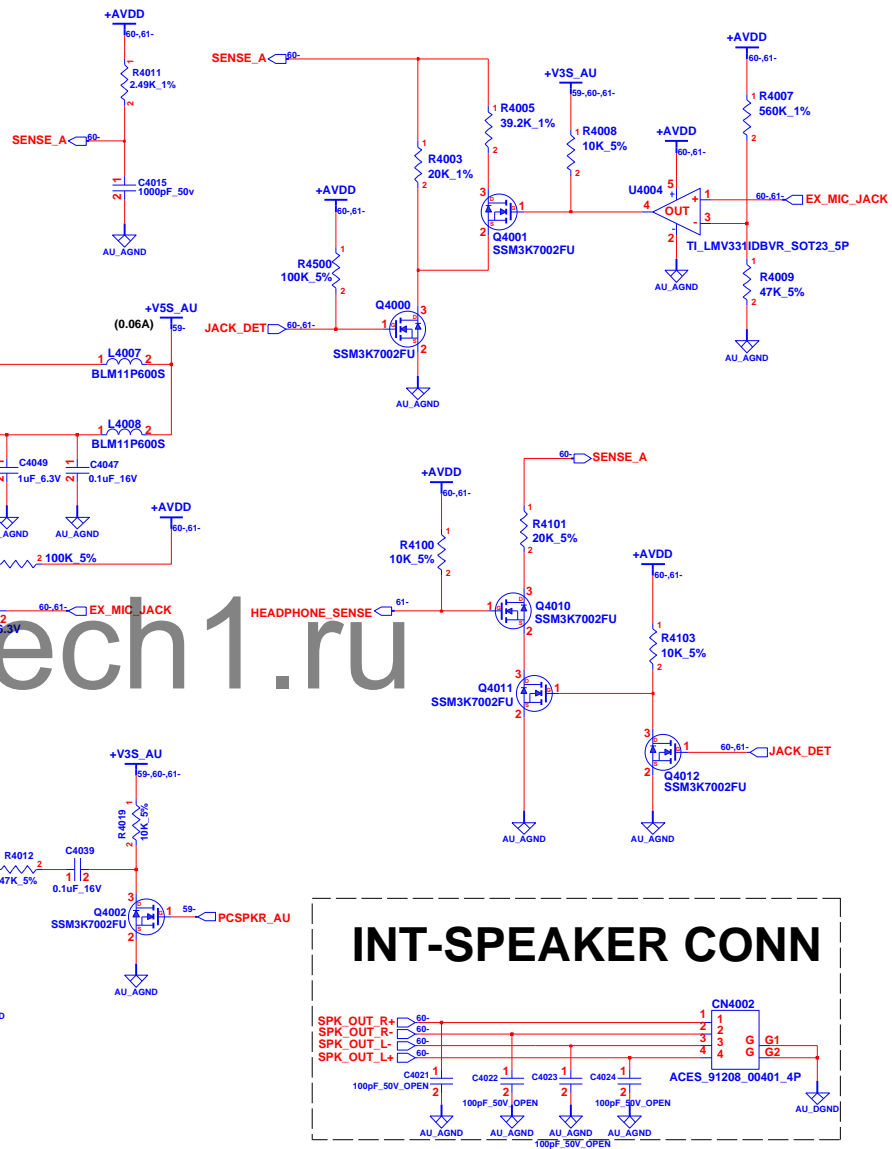
**INVENTEC**

TITLE <b>ROMEO20</b> AUDIO & USB Board			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER Model No	REV <b>X01</b>
SHEET		59	OF 69

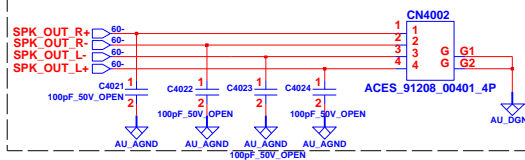
CHANGE by *Drawer Name* 28-Mar-2010

# AU Board-2

PORT	Discription	Sense
A	Microphone	SENSE_A
B	Headphone	SENSE_A
C	NO USE	
D	SPKR	
E	NO USE	
F	NO USE	



## INT-SPEAKER CONN

**INVENTEC**

TITLE	<b>ROMEO20</b> <b>AUDIO &amp; USB Board</b>
-------	--

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <i>X01</i>
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CHANGE by	<i>Drawer_Name</i>	28-Mar-2010
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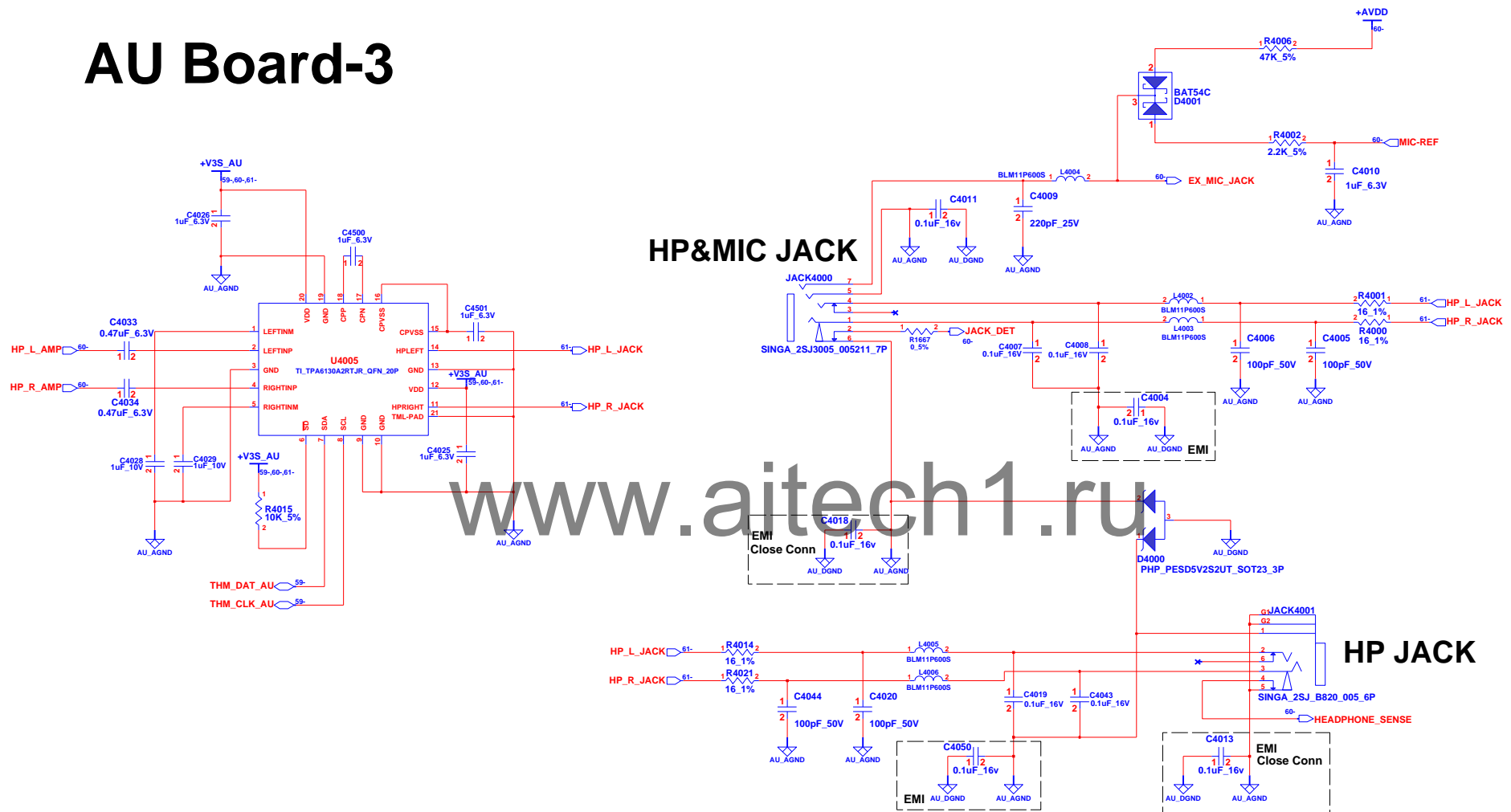
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# AU Board-3

## HP&MIC JACK

## HP JACK



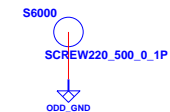
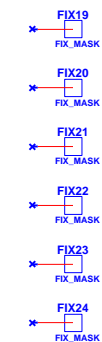
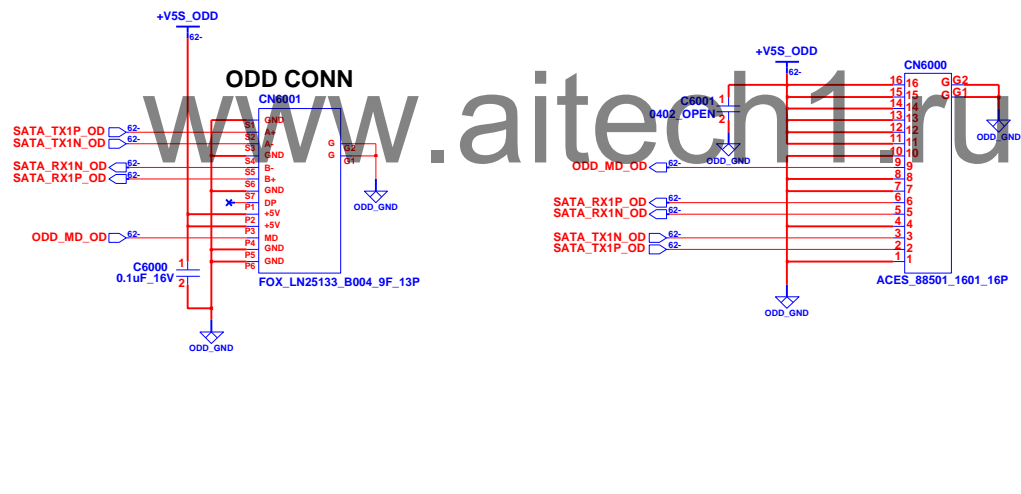
**INVENTEC**

TITLE <b>ROMEO20</b> AUDIO & USB Board			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <b>X01</b>
SHEET		61 OF	69

CHANGE by *Drawer Name* 28-Mar-2010

# SATA ODD

## ODD Board

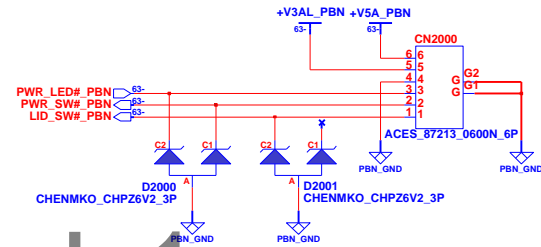
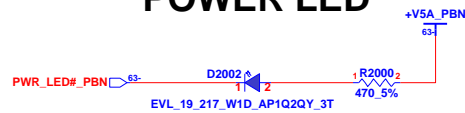


INVENTEC			
TITLE			
ROME020			
ODD EXT BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		62	OF 69

CHANGE by *Drawer Name* 28-Mar-2010

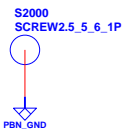
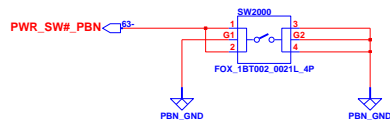
# Power Button

## POWER LED

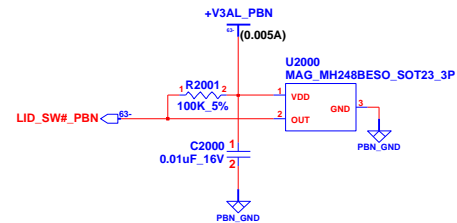


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## POWER BUTTON



## LID SWITCH

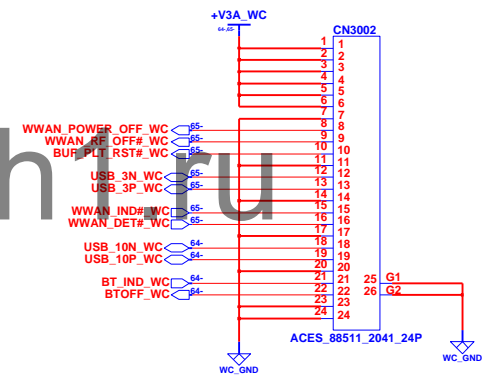
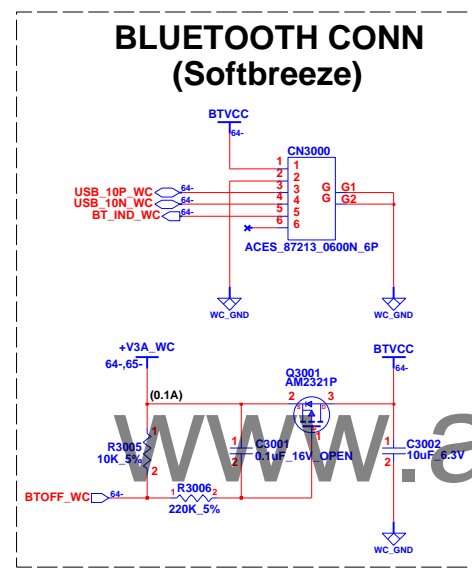


**INVENTEC**

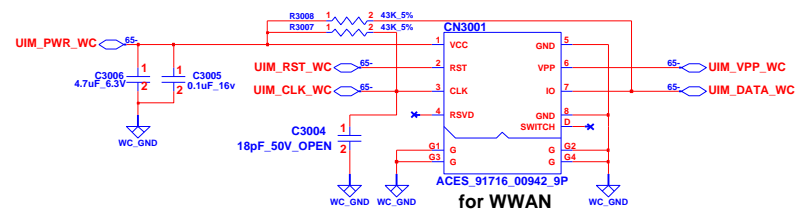
TITLE			
ROMEO20			
Power SW Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		63	OF 69

CHANGE by *Drawer Name* 28-Mar-2010

# WC Board-1



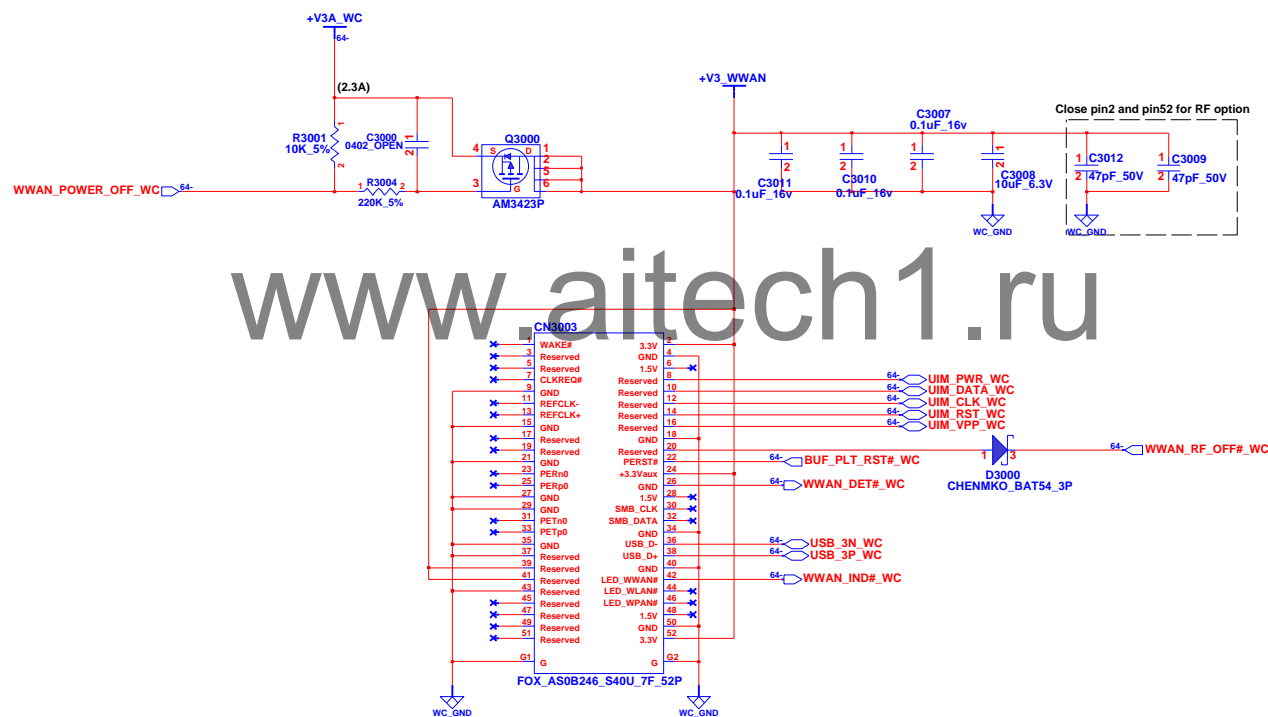
## SIM CARD CONN



INVENTEC			
TITLE ROMEO20 WIRELESS Board			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by Drawer Name		28-Mar-2010	SHEET 64 OF 69

# WC Board-2

## WWAN



**INVENTEC**

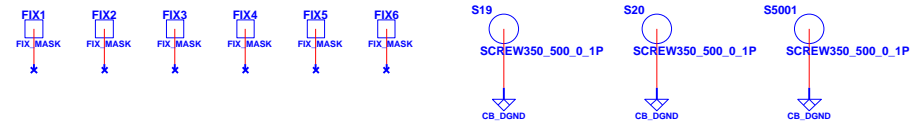
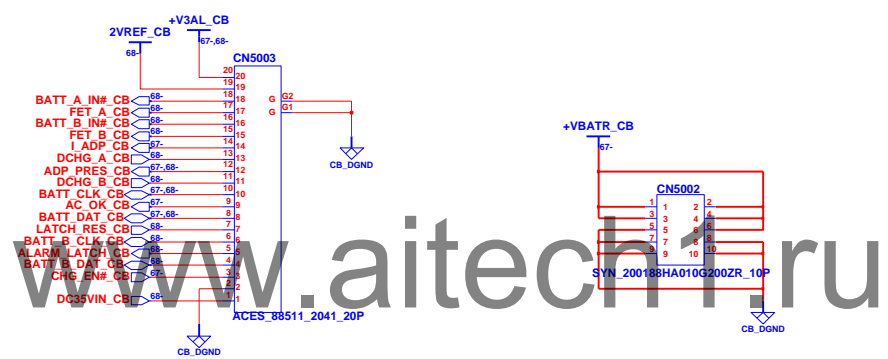
TITLE  
**ROME020**  
**WIRELESS Board**

SIZE CODE DOC. NUMBER REV  
**A3 CS Model No** **X01**

CHANGE by *Drawer Name* 28-Mar-2010

SHEET 65 OF 69

CHG Board-1



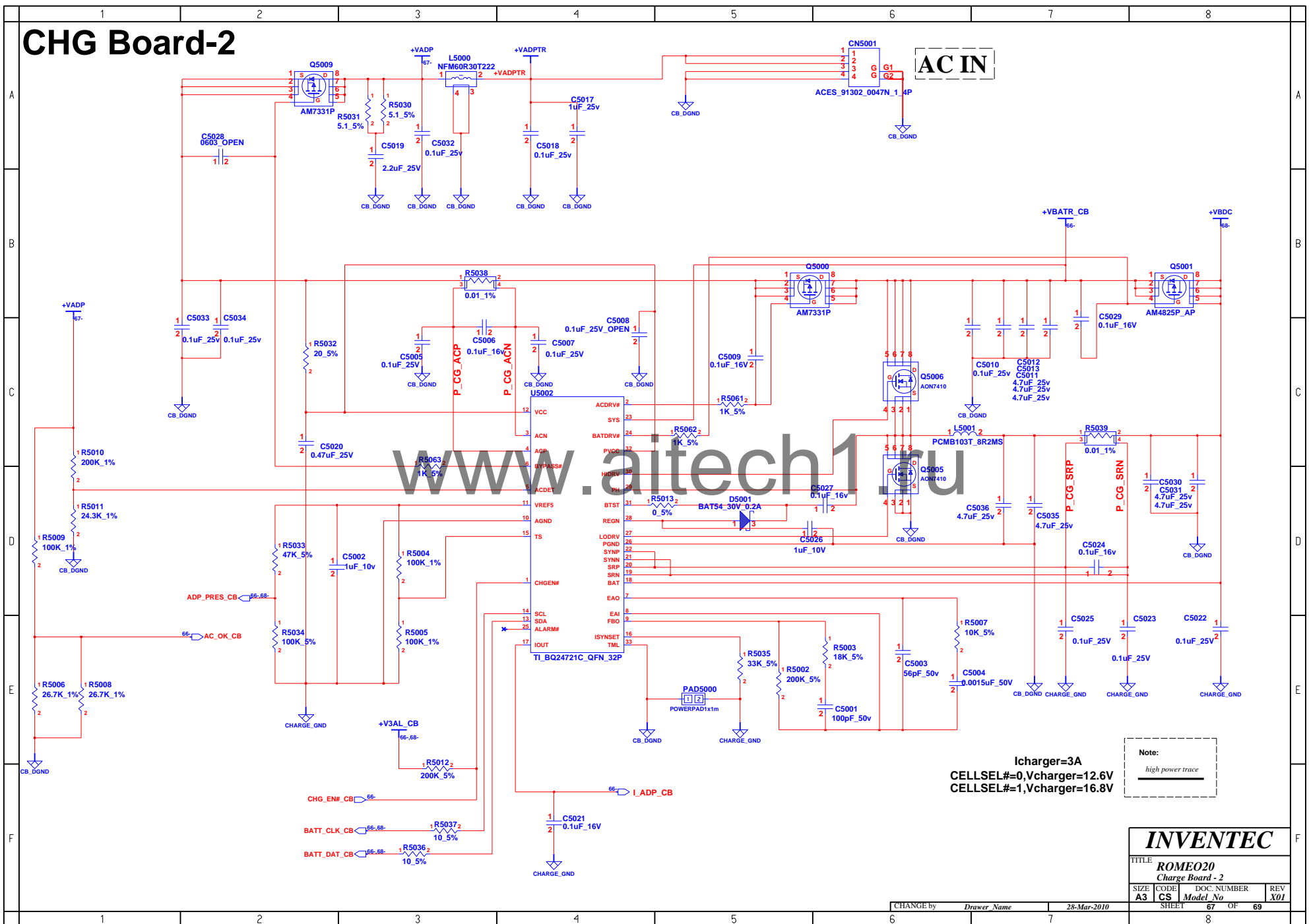
INVENTEC

TITLE			
ROME020			
Charge Board - 1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by Drawer Name 28-Mar-2010

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# CHG Board-2



# CHG Board-3

BATT_A_ID_CB	HI	LOW
SERIES	3	4
VOLTAGE	12.6V	16.8V

**INVENTEC**

TITLE	<b>ROMEO20</b> <i>Charge Board - 3</i>
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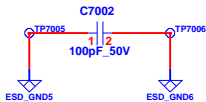
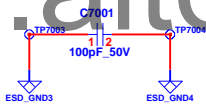
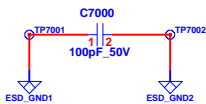
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	R <i>X</i>
SHEET		68	OF 69

CHANGE by	<i>Drawer Name</i>	28-Mar-2010
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# EMC Board

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**INVENTEC**

TITLE  
**ROMEO20**  
**EMC**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>Model No</i>	REV <b>X01</b>
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CHANGE by *Drawer Name* 28-Mar-2010

SHEET **69** OF **69**