

**Rotterdam 10AR**

**PreMP BUILD**

**2009.04.06**

INVENTEC			
TITLE Rotterdam 10AR			
SIZE A3	CODE CS	DOC. NUMBER I310A22508-0-MTRAXI	REV 1
SHEET		1	OF 66

CHANGE by *Drawer Name* 6-Apr-2009

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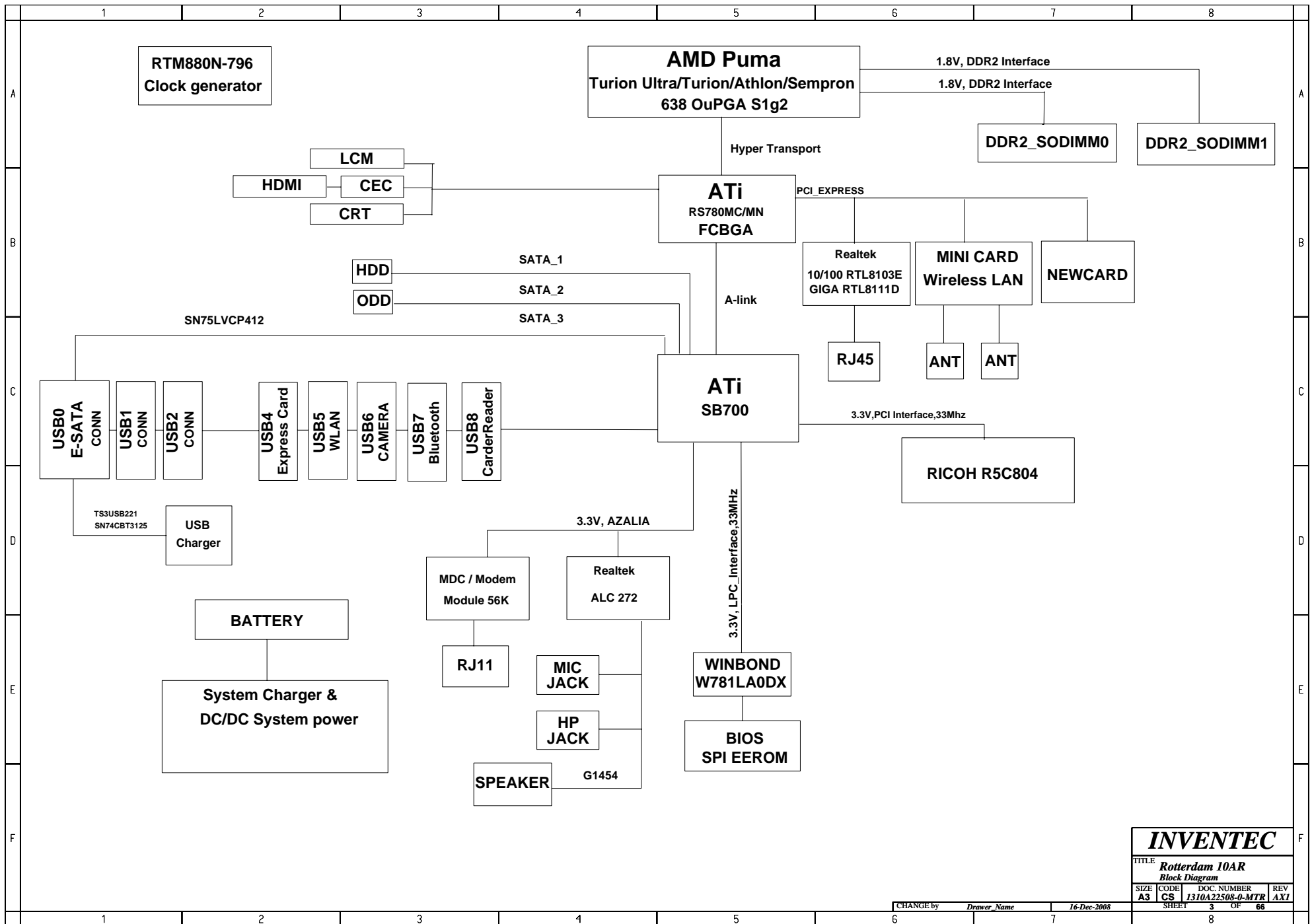
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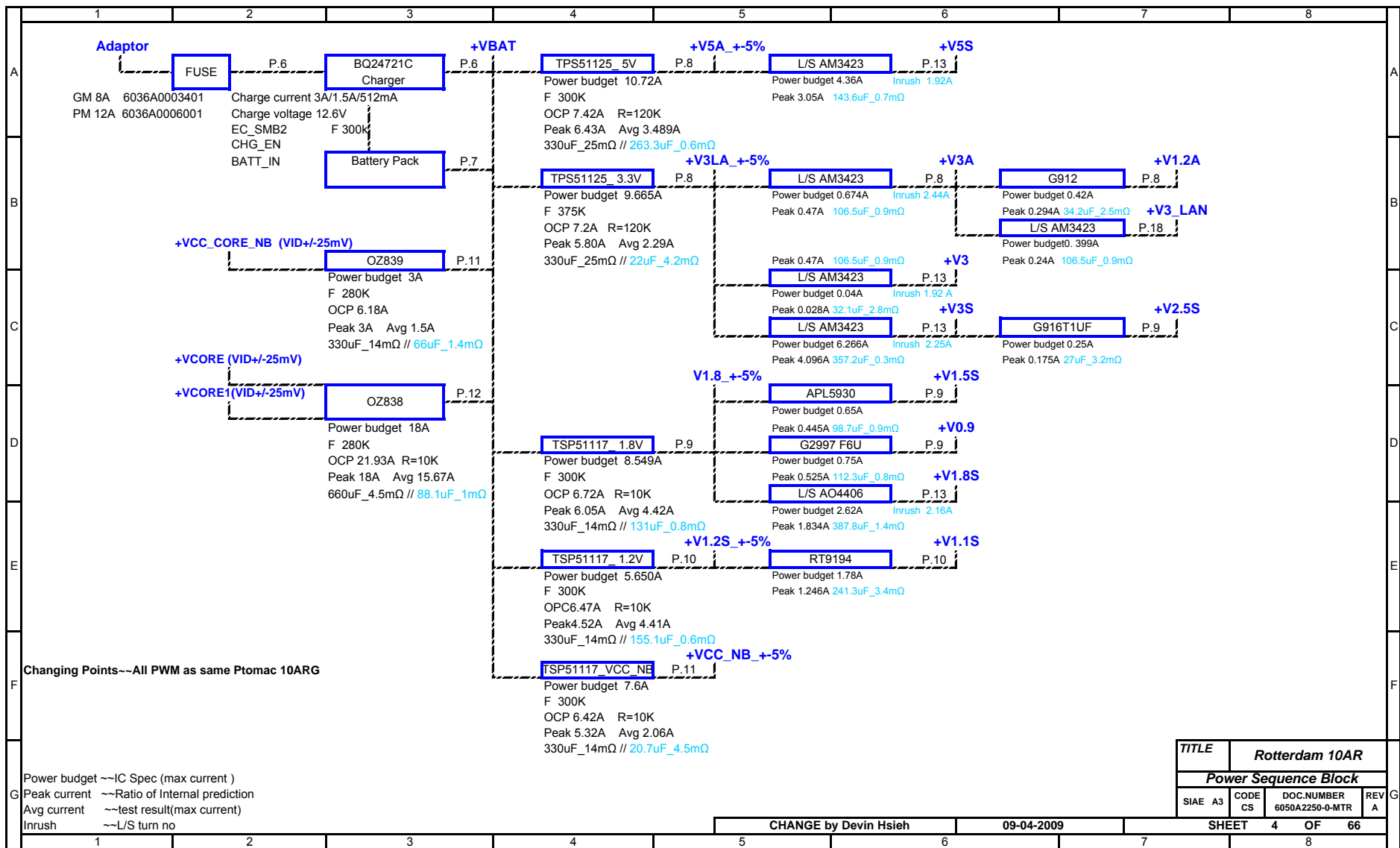
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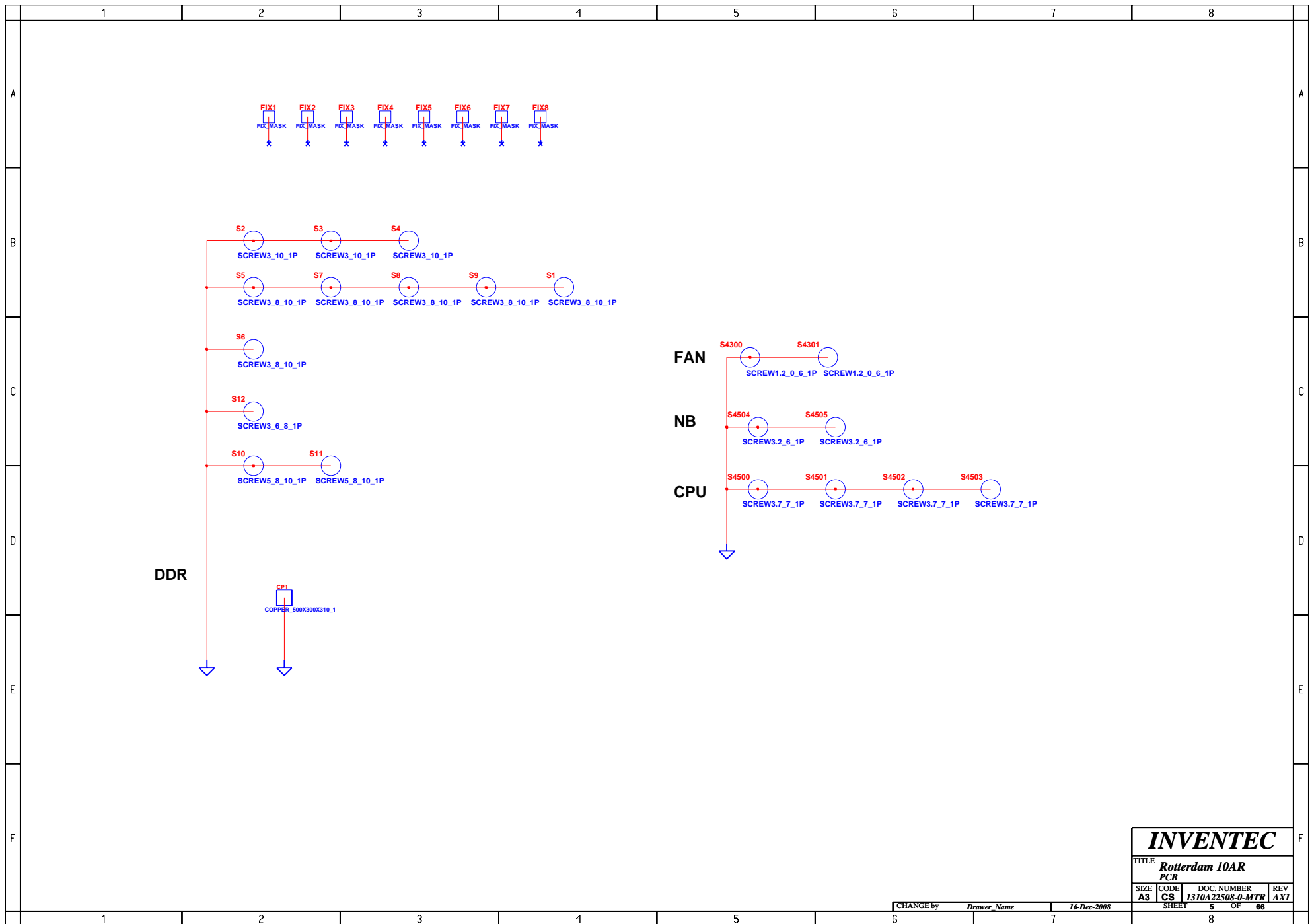
TITLE			
Rotterdam 10AR			
Index			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
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INVENTEC			
TITLE: <b>Rotterdam 10AR</b> Block Diagram			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AXI</b>
CHANGE by: <i>Drawer Name</i>		16-Dec-2008	
SHEET		3 OF 66	

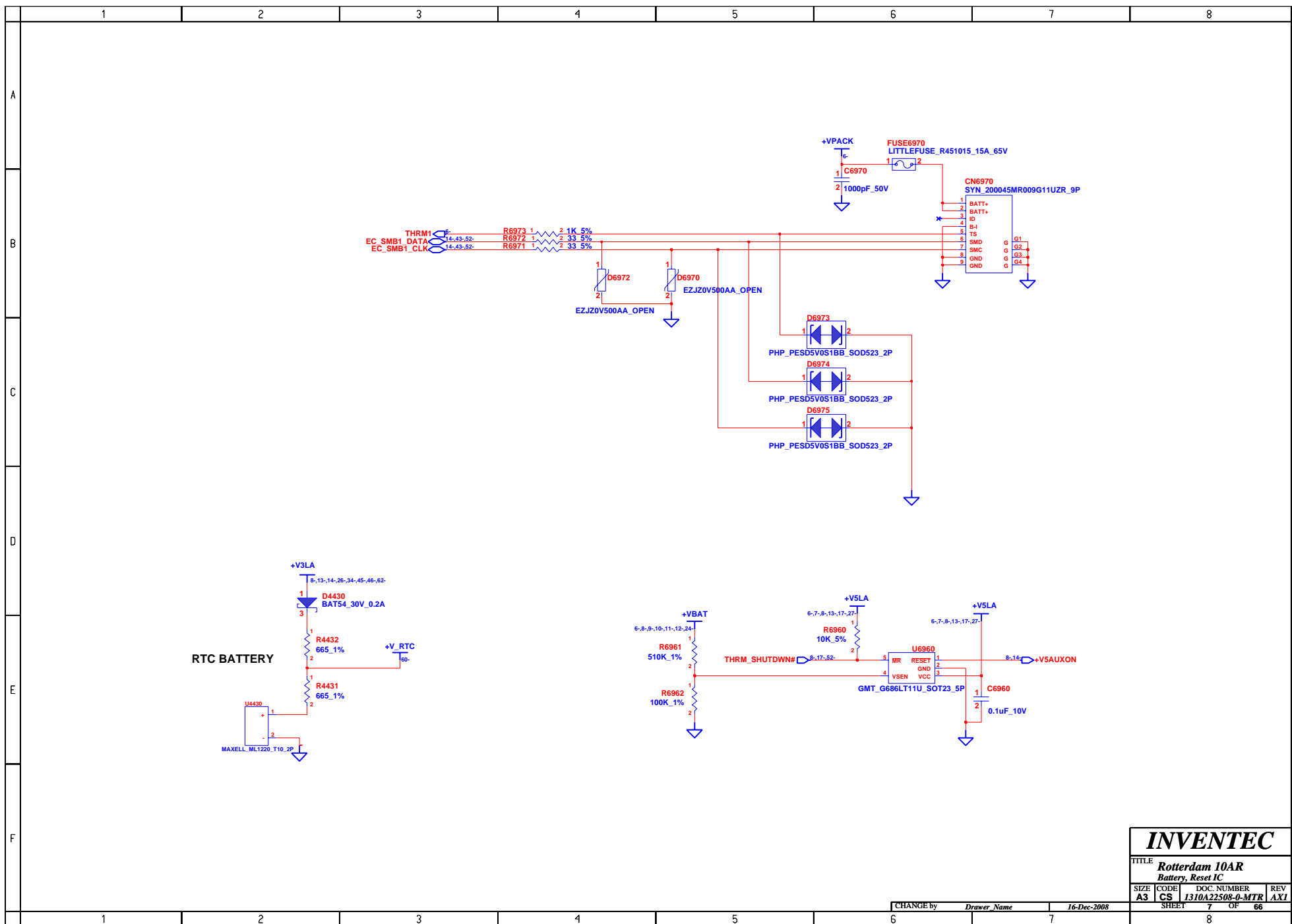




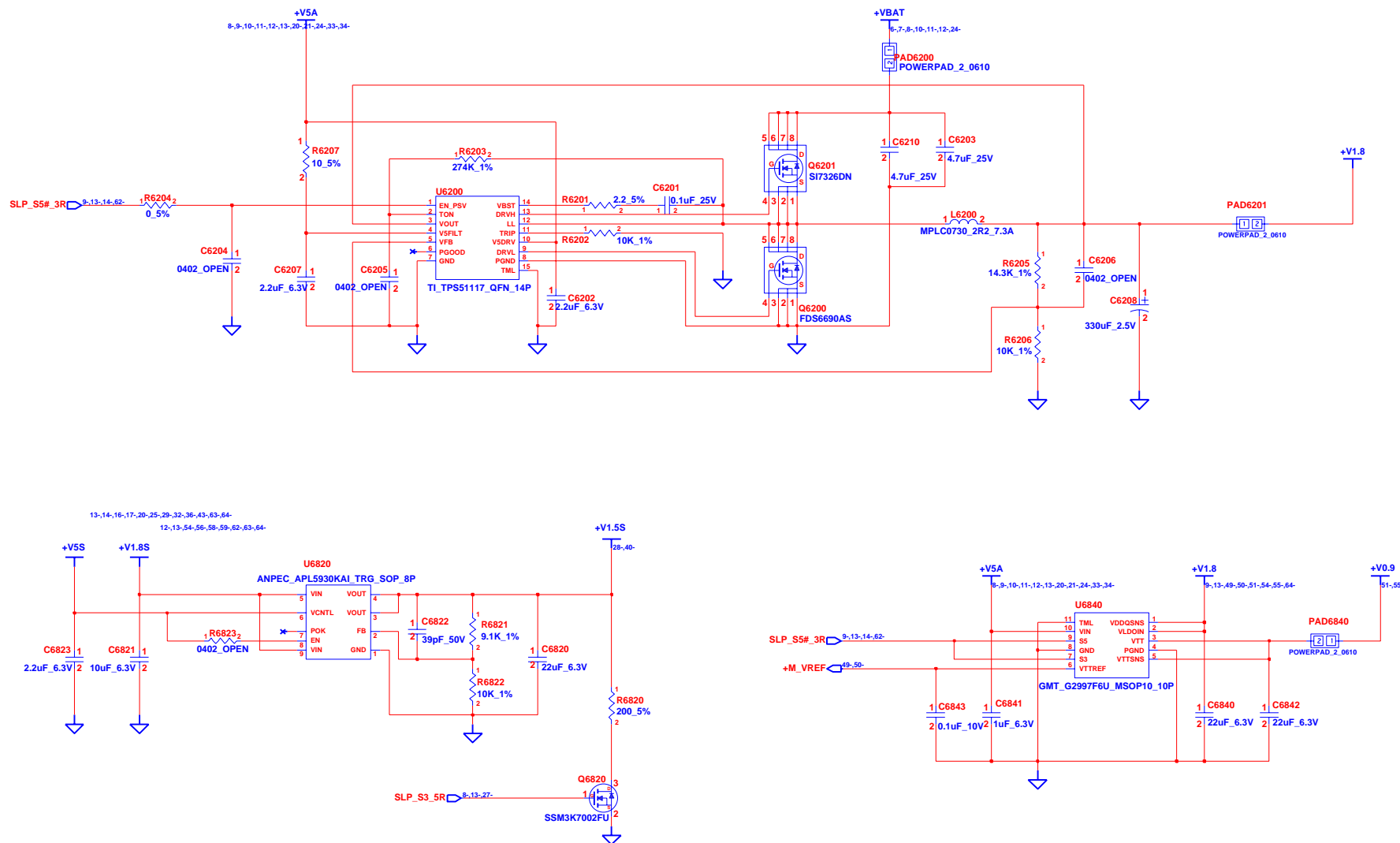
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TITLE: <b>Rotterdam 10AR</b>			
PCB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		5	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

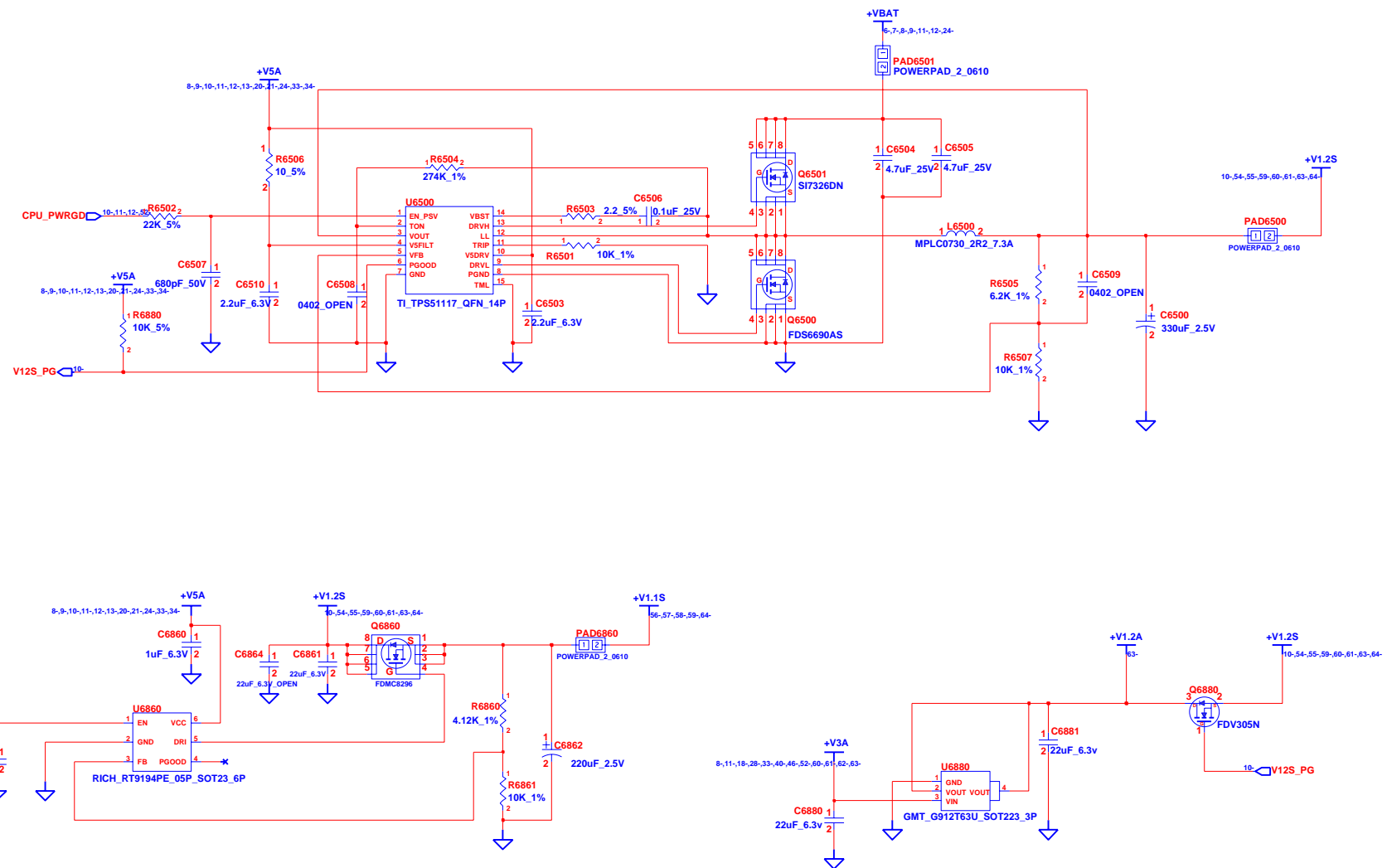






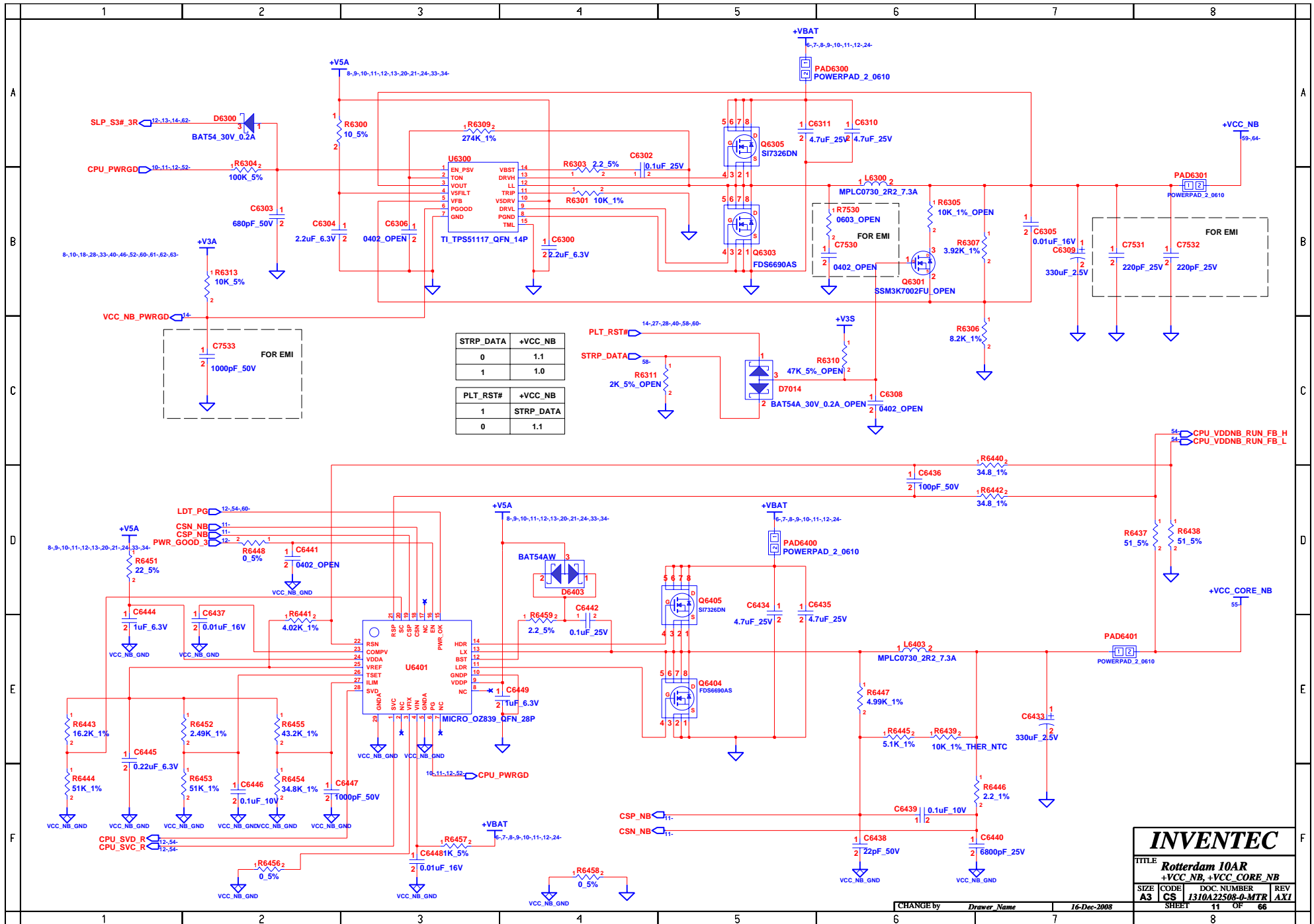


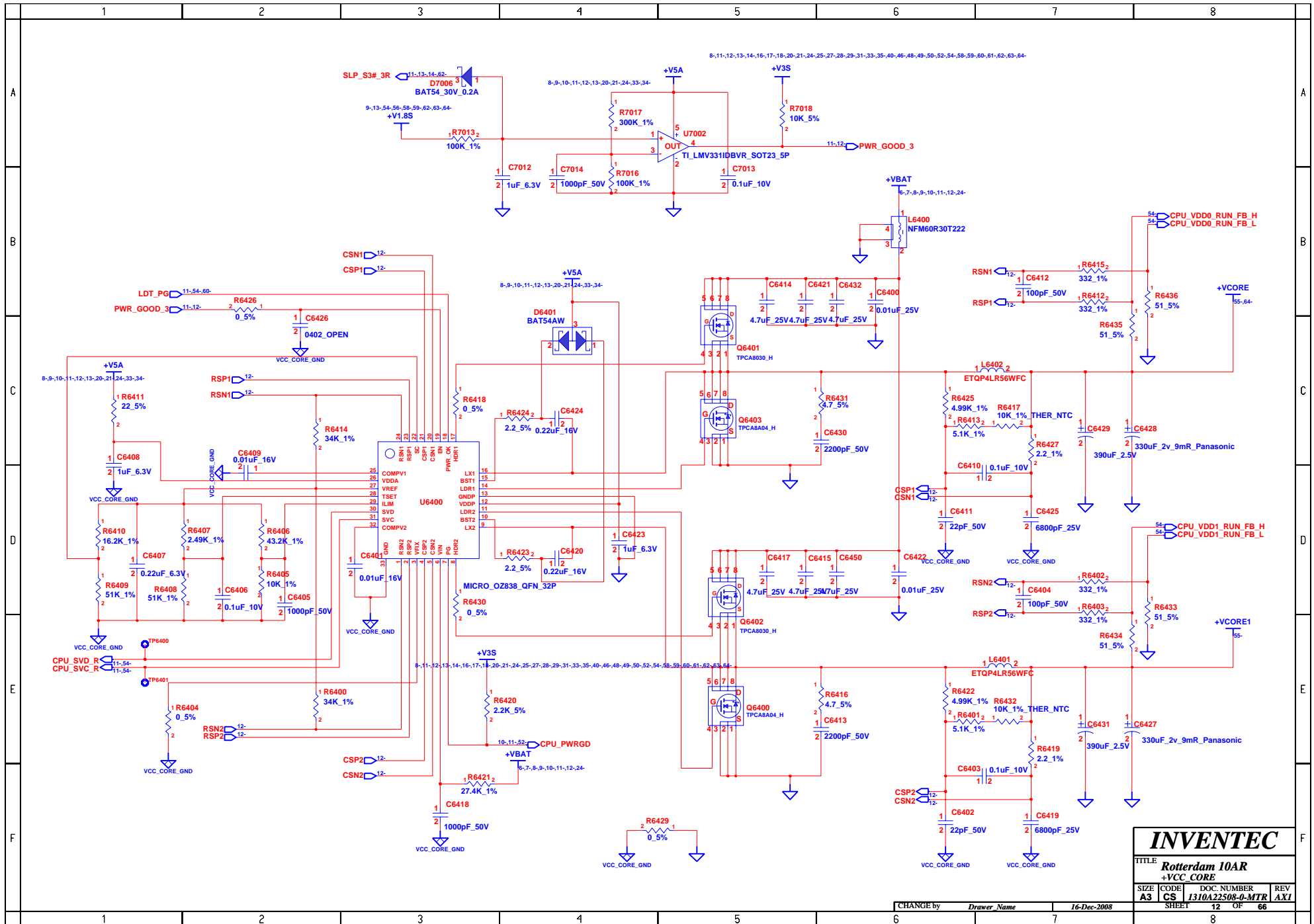
CHANGE by	<i>Drawer Name</i>	16-Dec-2008
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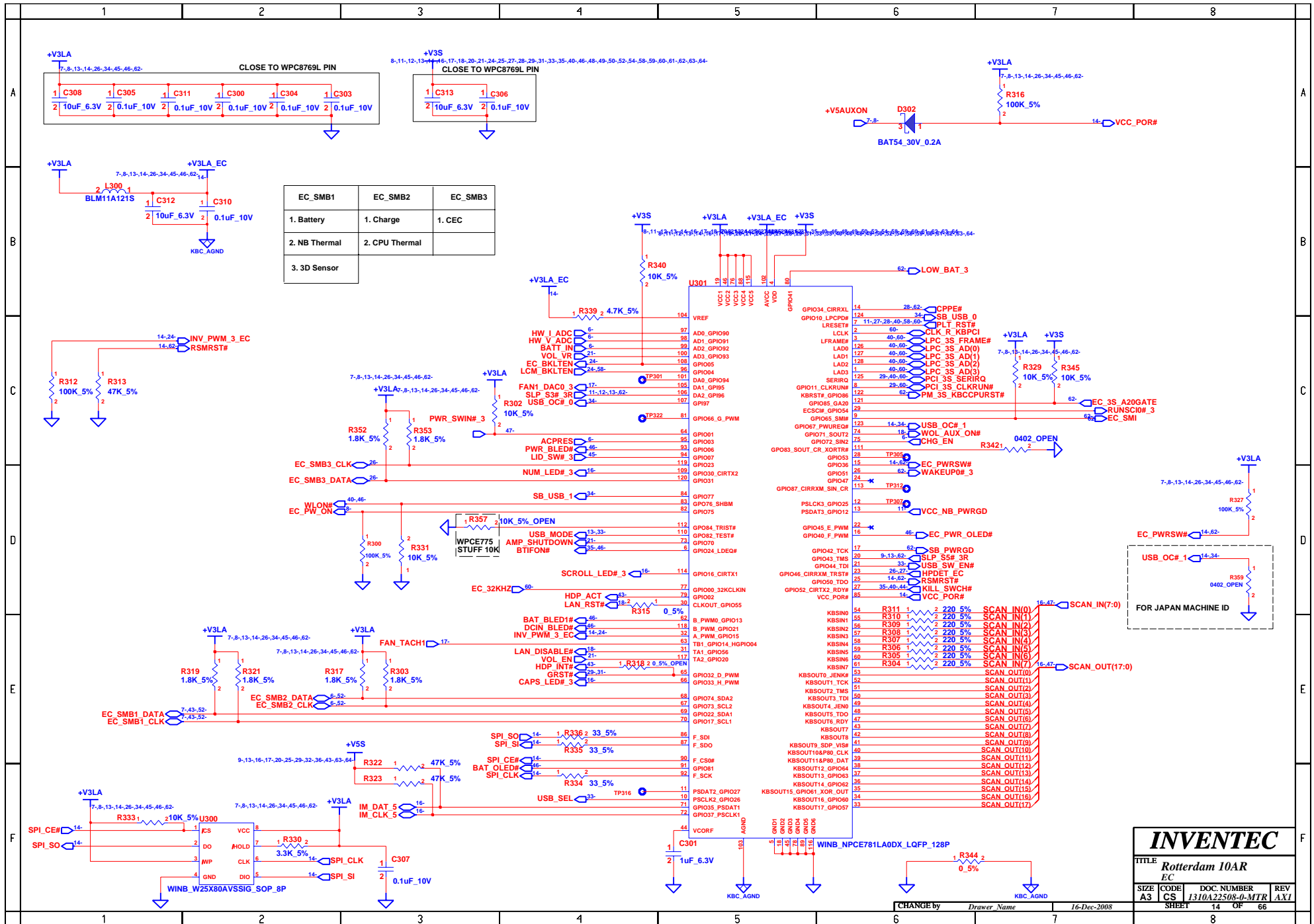
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<b>Rotterdam 10AR</b> <b>+V1.2A, +V1.1S</b>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	<b>1310A22508-0-MTR</b>	<b>AX1</b>
SHEET		10	OF 66

CHANGE by	<i>Drawer Name</i>	16-Dec-2008
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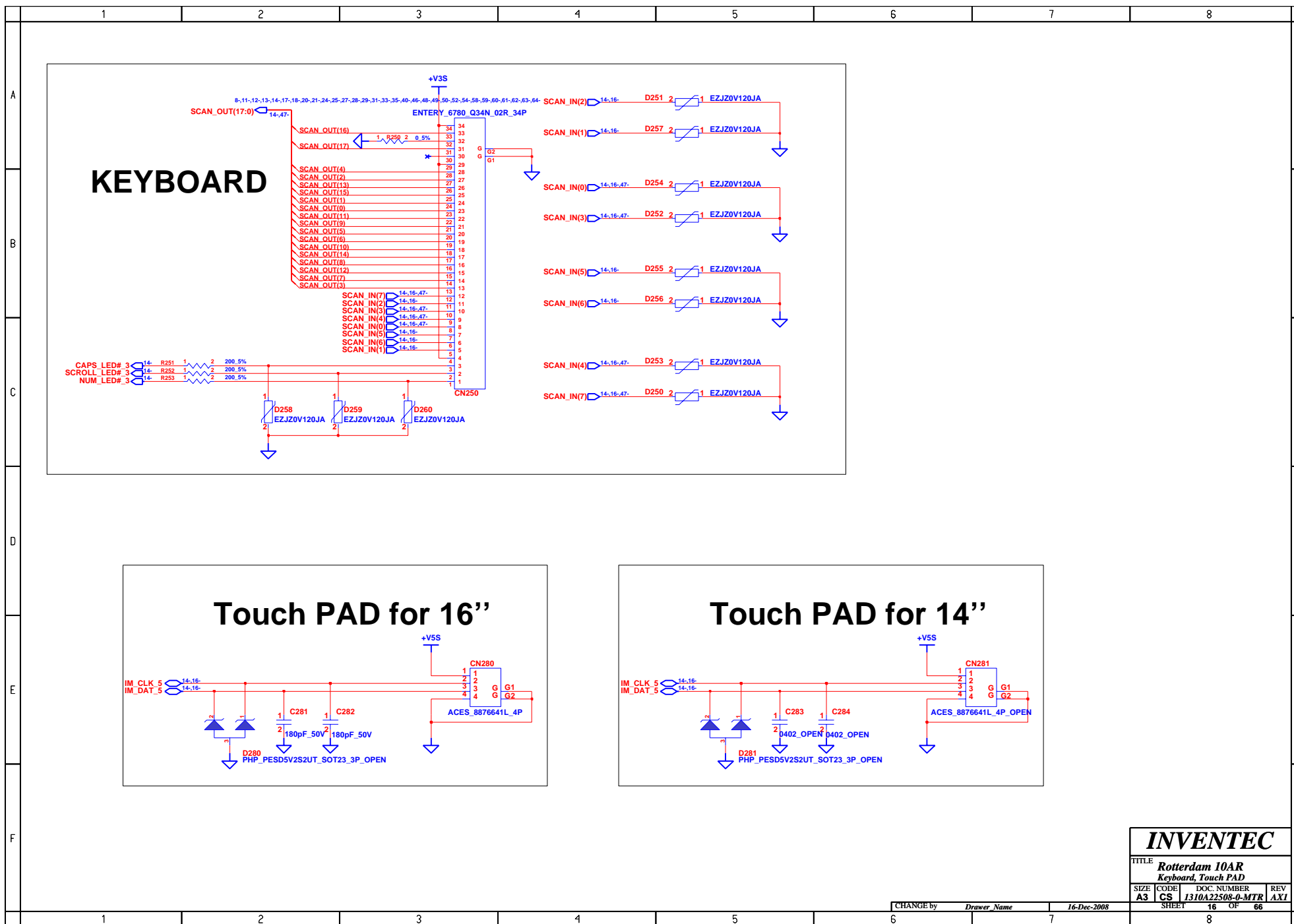
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B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

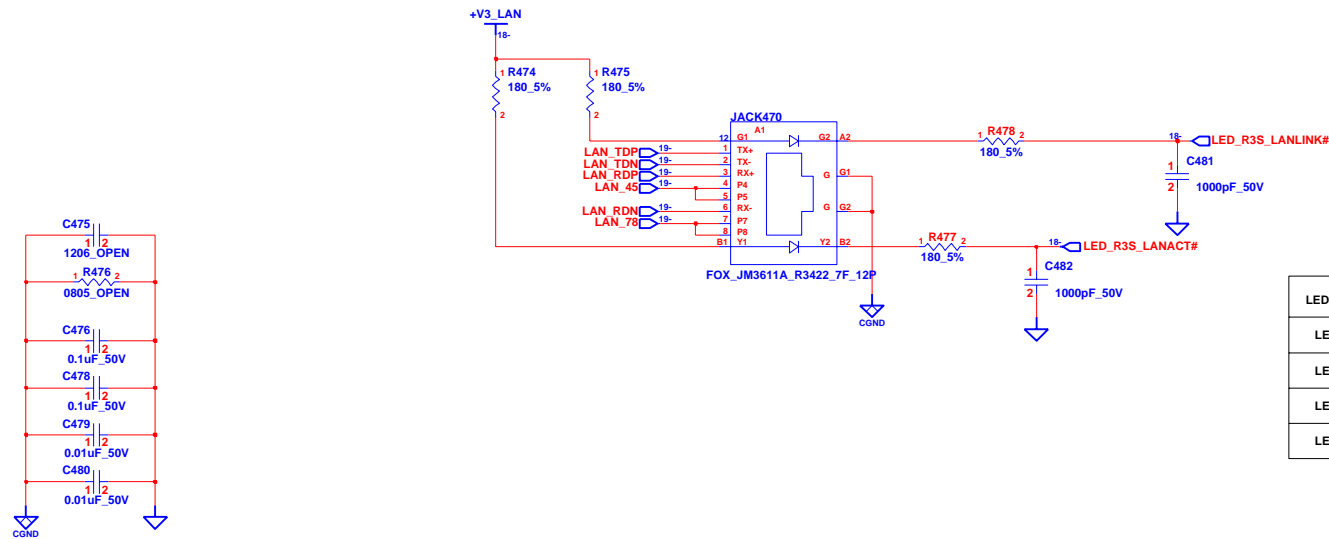
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TITLE <b>Rotterdam 10AR</b>			
CIR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		15	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

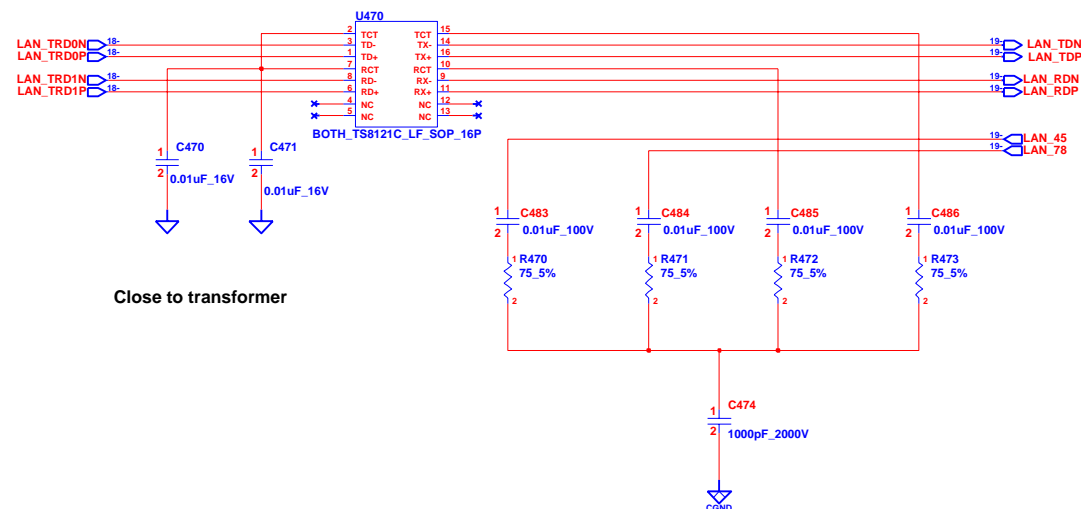








LEDS1-0	00	* 01	10	11
LED0	Tx/Rx	Tx/Rx	Tx	LINK10 ACT
LED1	LINK100	LINK 10/100/1000	LINK	LINK100 ACT
LED2	LINK10	LINK10/100	Rx	ULL
LED3	LINK1000	LINK1000	ULL	LINK1000 ACT



Close to transformer

INVENTEC			
TITLE Rotterdam 10AR Transformer, RJ45			
SIZE A3	CODE CS	DOC. NUMBER 1310A22508-0-MTR	REV AXI
CHANGE by Drawer Name		16-Dec-2008	
SHEET 19		OF 66	





**MDC**

The schematic diagram illustrates the MDC (Motherboard Data Connector) for the Rotterdam 10AR. It shows the connection of an ACES\_88021\_1201N\_12P connector to an MC97\_3S microcontroller. The MC97\_3S has pins for SDOUT, SYNC, SDIN1, RST#, and BITCLK. The ACES connector has pins for GND, SDO, SYNC, SDI, RST#, and BITCLK. The diagram also shows power supply connections for +VMDC and +V3, with capacitors C691 (0.1uF\_10V) and C690 (10uF\_6.3V). A screw terminal S690 is connected to the RST# pin, and S691 is connected to the BITCLK pin.

INVENTEC			
TITLE Rotterdam 10AR			
MDC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AX1

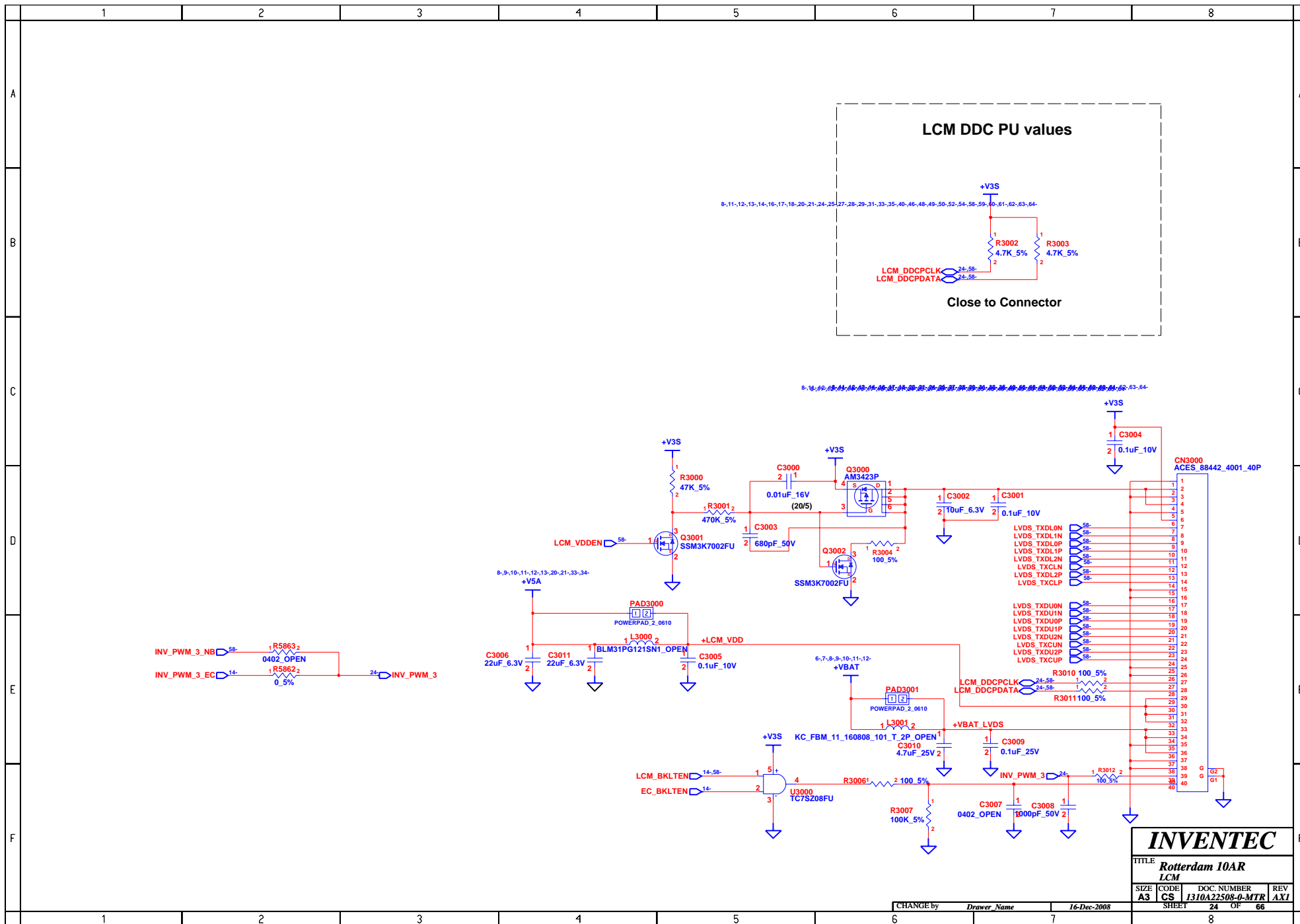
CHANGE by	Drawer Name	16-Dec-2008	SHEET	22	OF	66
				8		

TITLE			
<b>Rotterdam 10AR</b>			
<b>MDC</b>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>	<b>1310A22508-0-MTR</b>	<b>AX1</b>
SHEET		22	OF 66

	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	

<b>INVENTEC</b>			
TITLE <b>Rotterdam 10AR DISPLAY PORT</b>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AXI</b>
SHEET		23	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

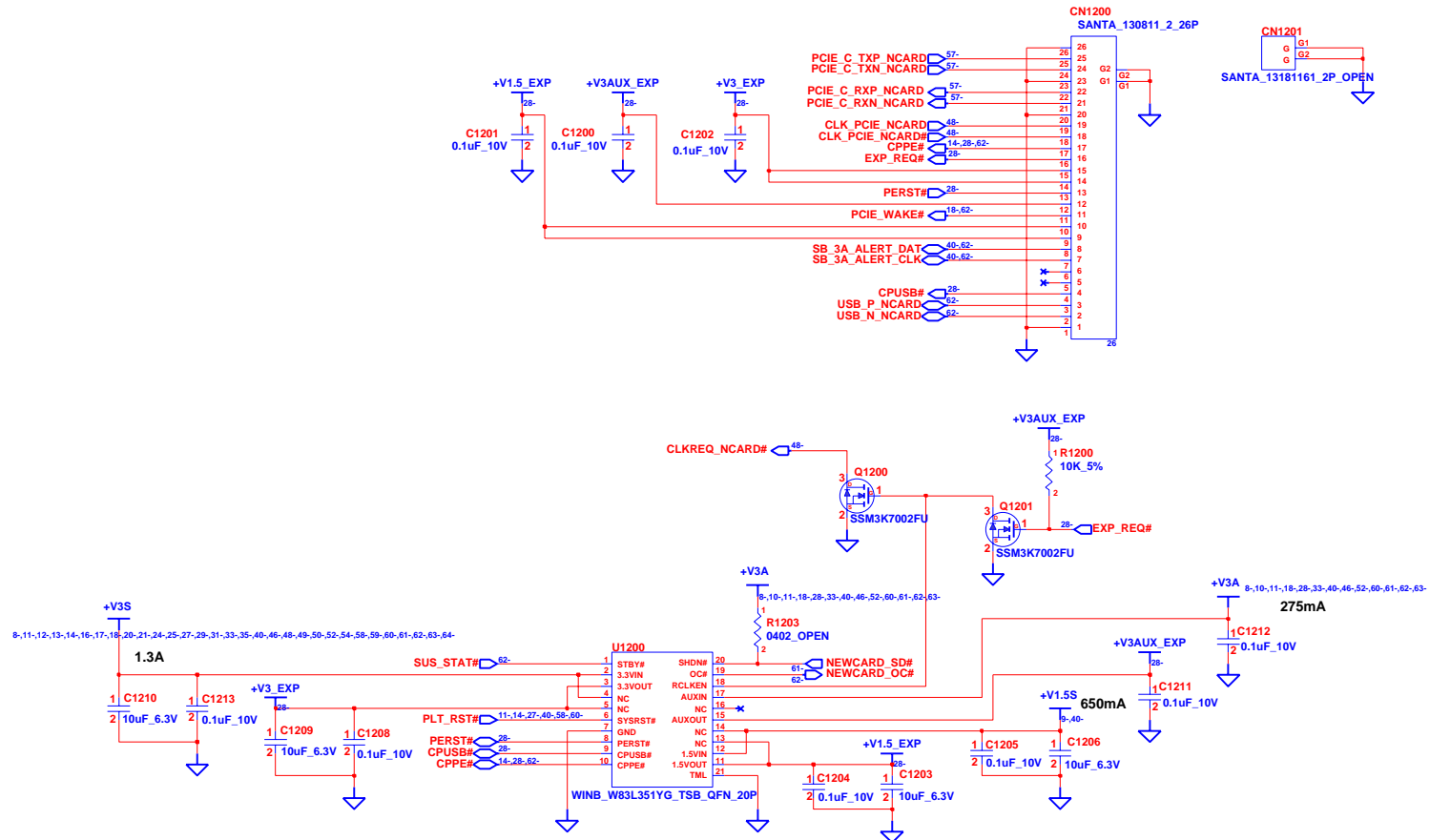








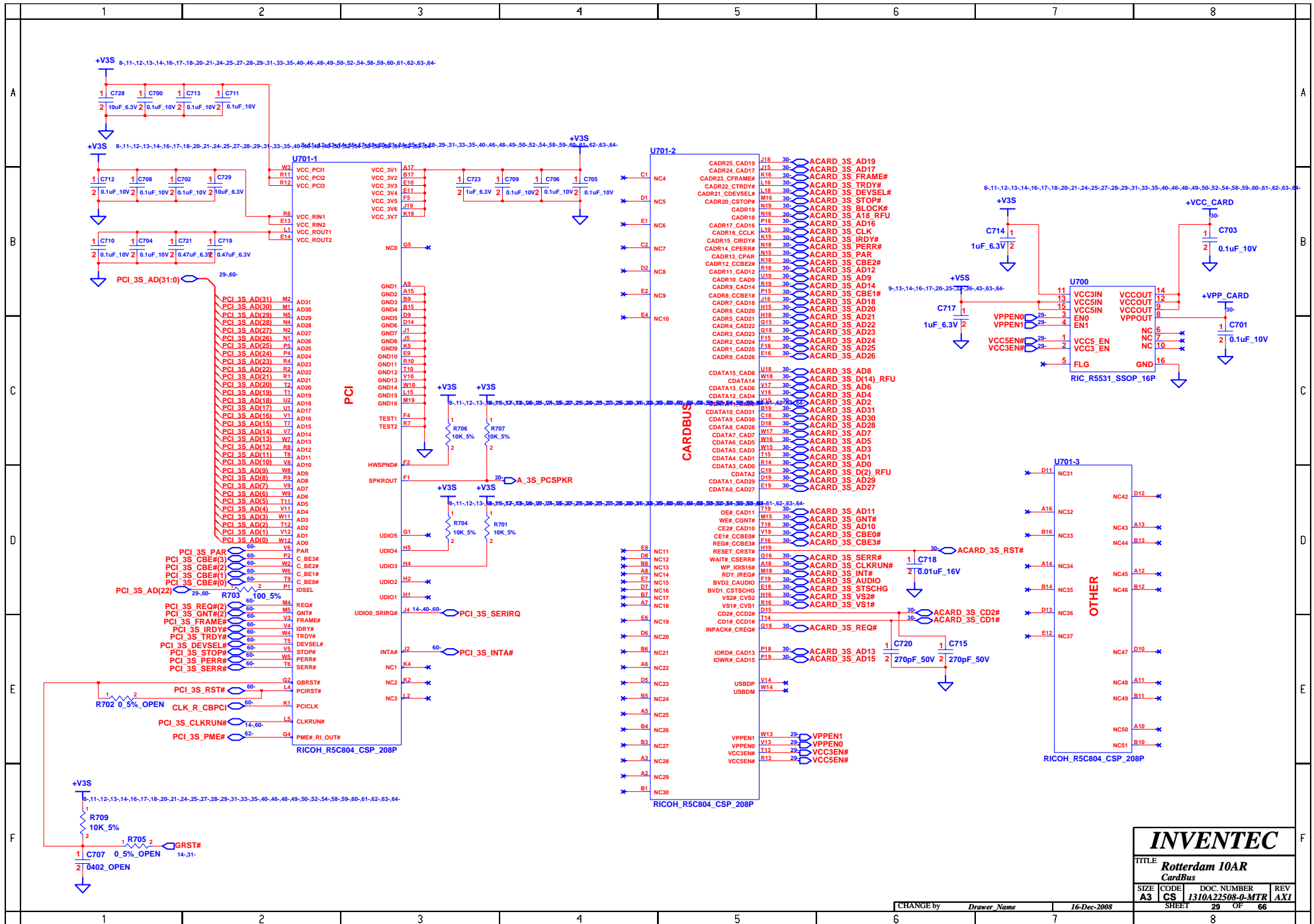
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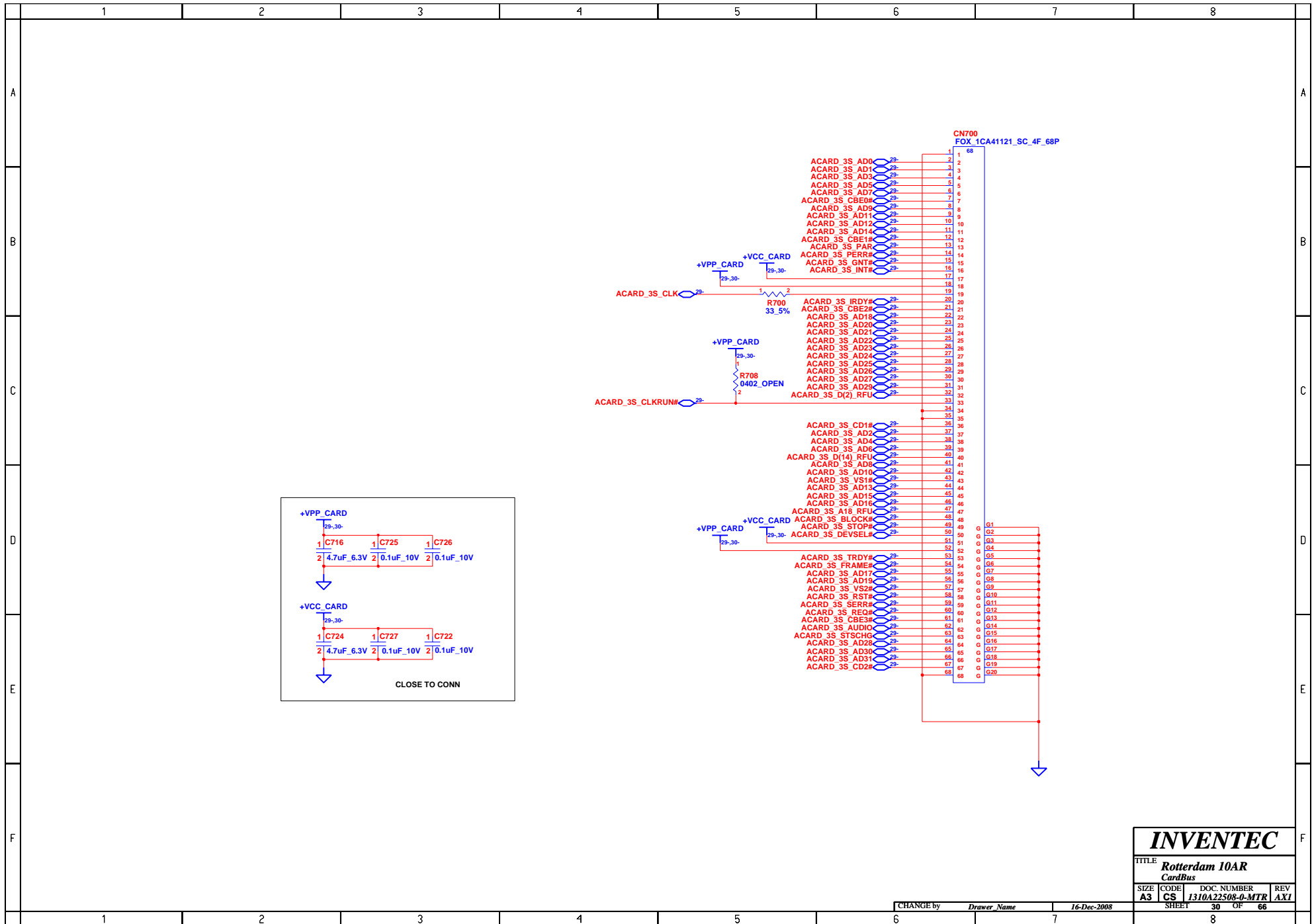


**INVENTEC**

TITLE <b>Rotterdam 10AR</b> Express Card			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AX1</b>
SHEET <b>28</b>		OF <b>66</b>	

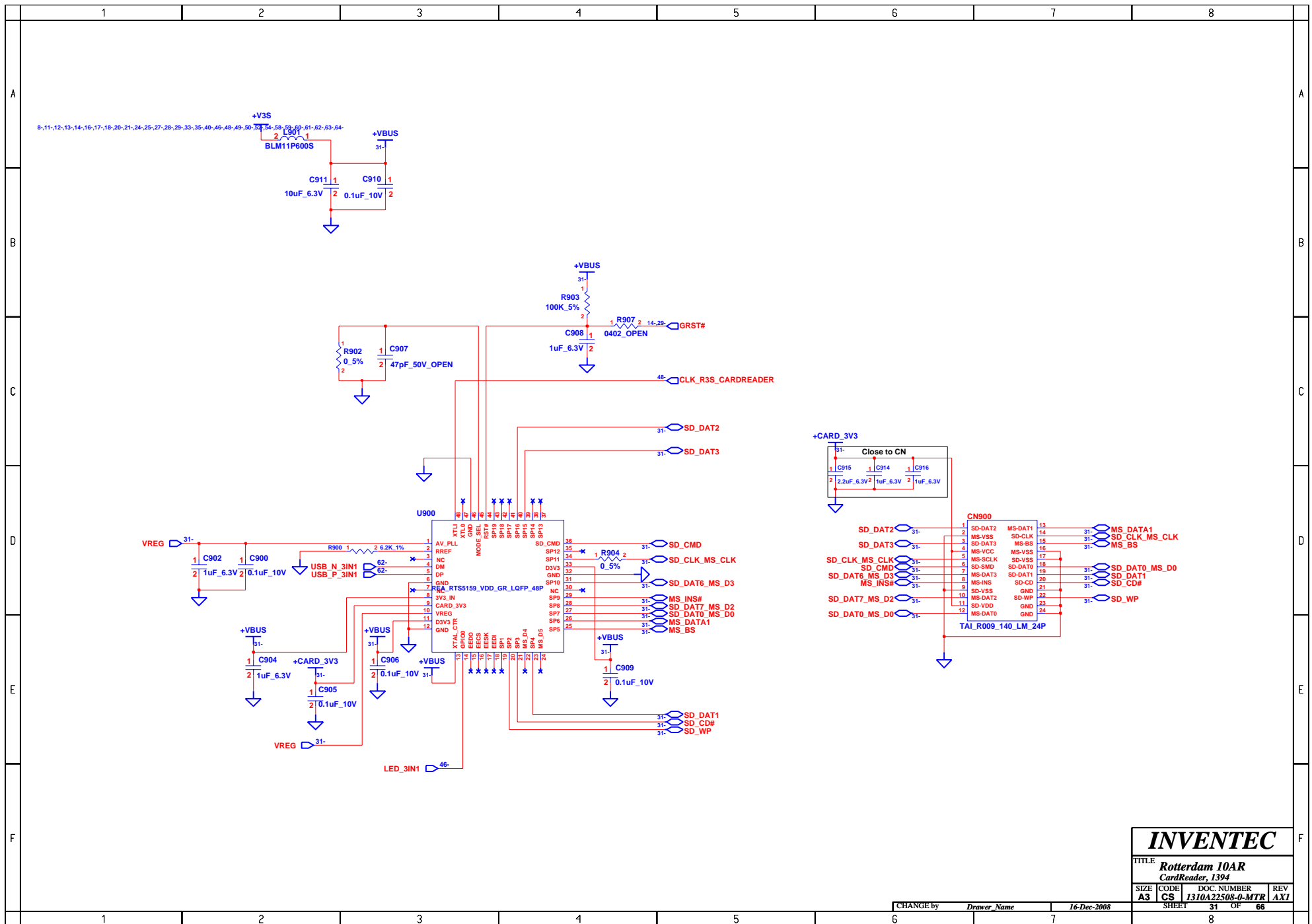
CHANGE by *Drawer Name* 16-Dec-2008





**INVENTEC**

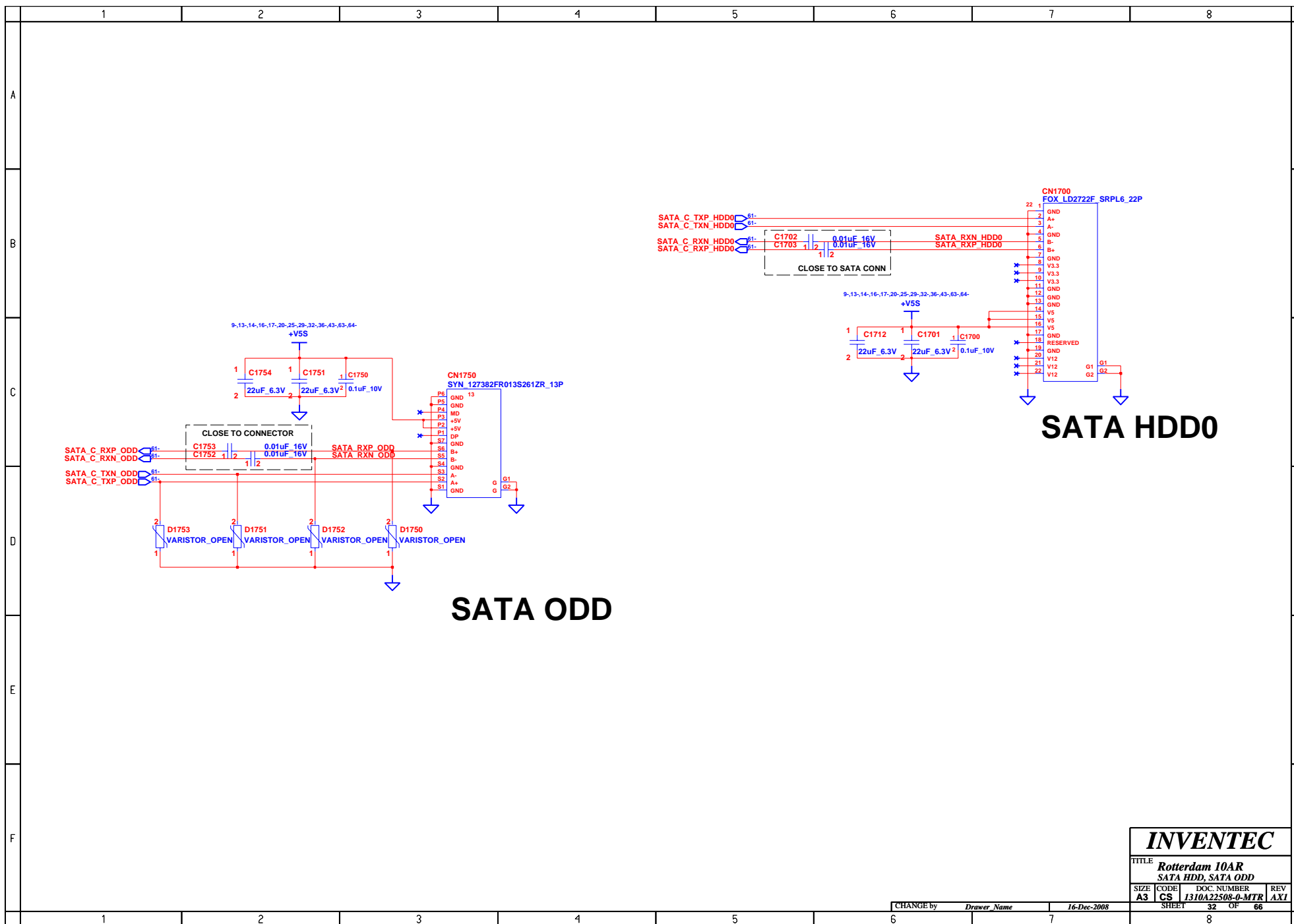
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Rotterdam 10AR			
CardBus			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
CHANGE by		Drawer Name	16-Dec-2008
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**INVENTEC**

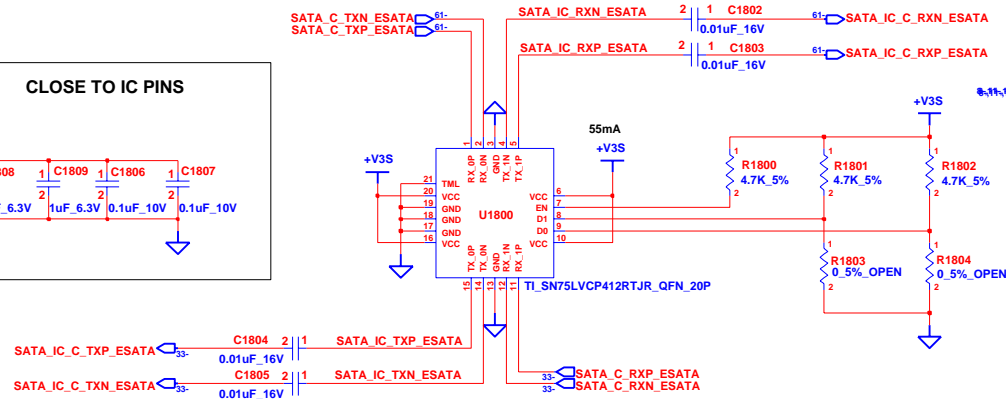
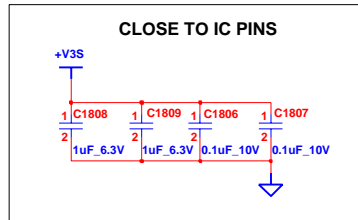
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SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>I310A22508-0-MTR</b>	REV <b>AXI</b>
SHEET		31	OF 66

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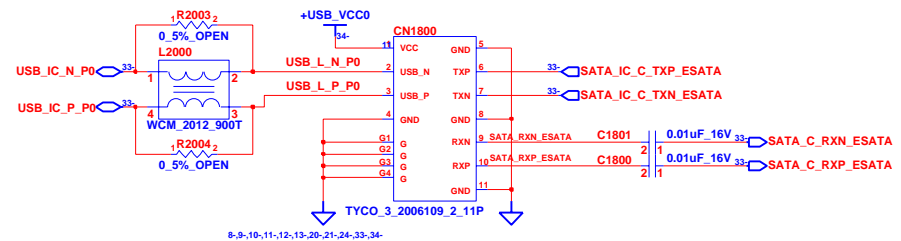
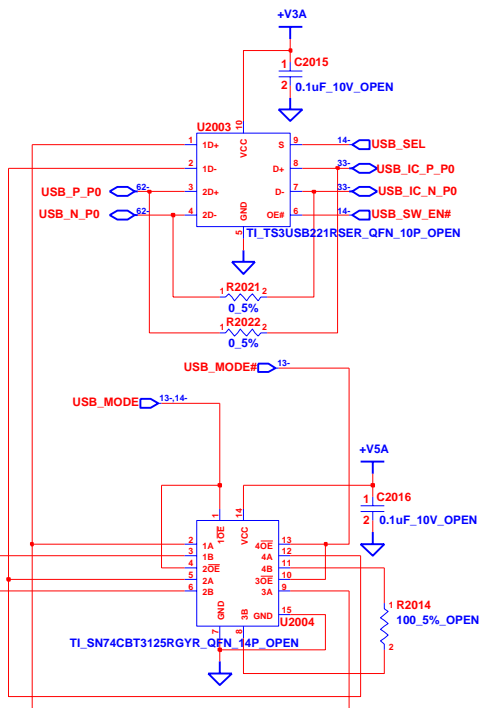
INVENTEC			
TITLE			
Rotterdam 10AR			
SATA HDD, SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
CHANGE by		Drawer Name	16-Dec-2008
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# E-SATA



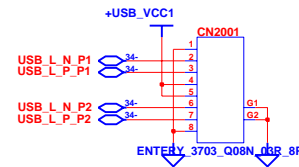
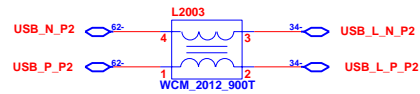
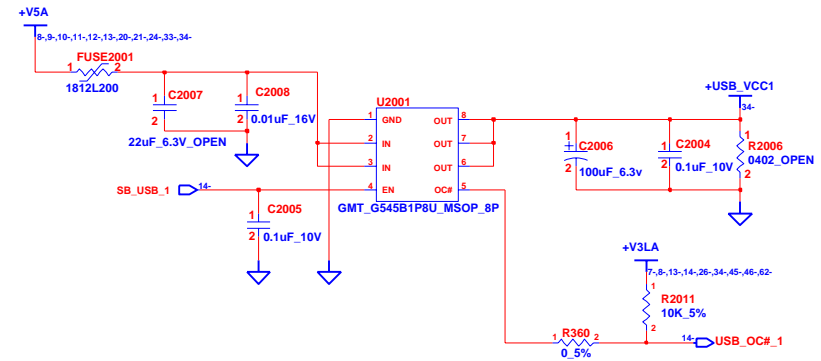
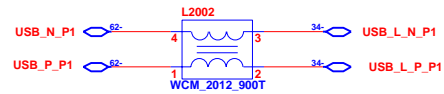
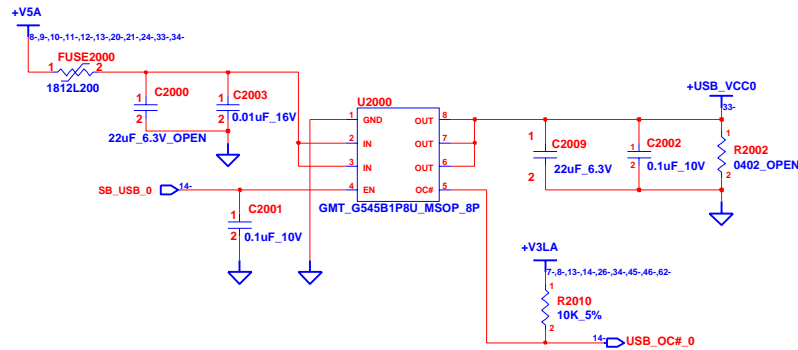
EN	D0	D1	FUNCTION
0	X	X	STANDBY
1	0	0	DEFAULT
1	1	0	CH0->5DB
1	0	1	CH1->5DB
1	1	1	CH0,1->5DB

**USB SIGNAL SWITCH**  
Within 40~50 mm of SB  
Within 150mm of connector



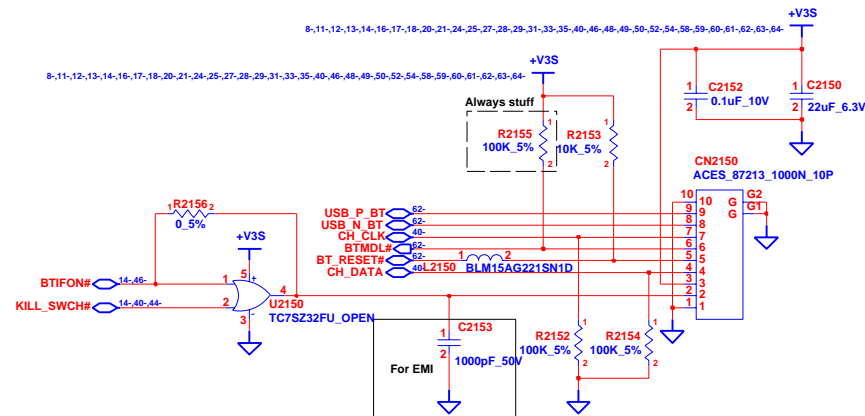
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TITLE <b>Rotterdam 10AR</b>			
e-SATA			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AX1</b>
SHEET <b>33</b>		OF <b>66</b>	

# USB



INVENTEC			
TITLE Rotterdam 10AR			
USB			
SIZE A3	CODE CS	DOC. NUMBER 1310A22508-0-MTR	REV AXI
CHANGE by		Drawer Name	16-Dec-2008
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# BLUEBOOTH

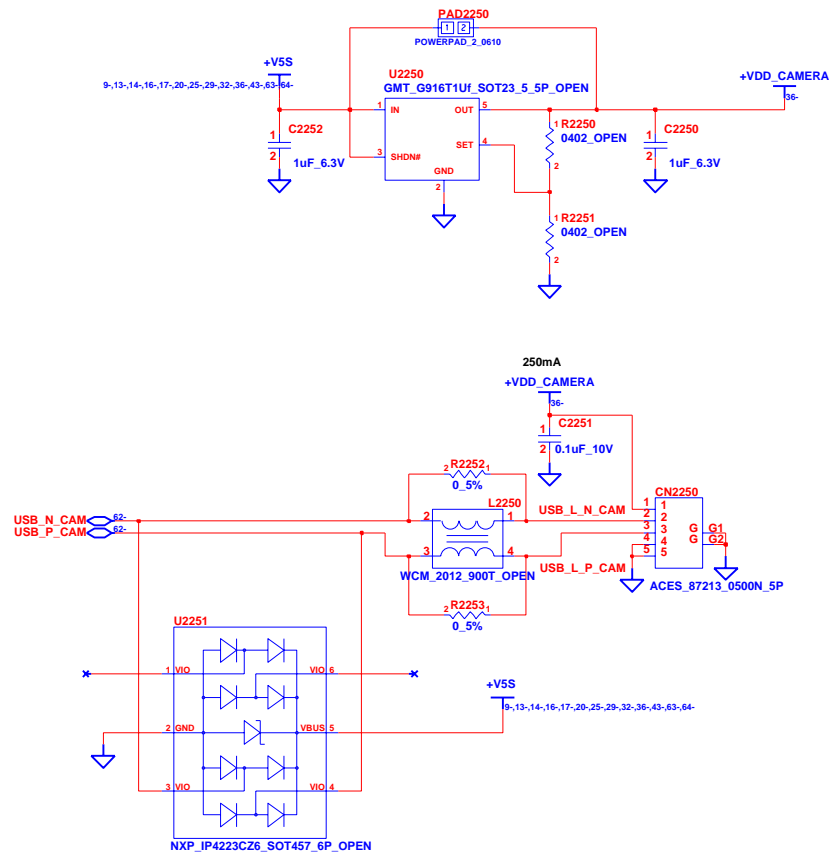


**INVENTEC**

TITLE			
Rotterdam 10AR			
BlueTooth			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		35	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

# WEBCAM



**INVENTEC**

TITLE			
Rotterdam 10AR			
Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		36	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

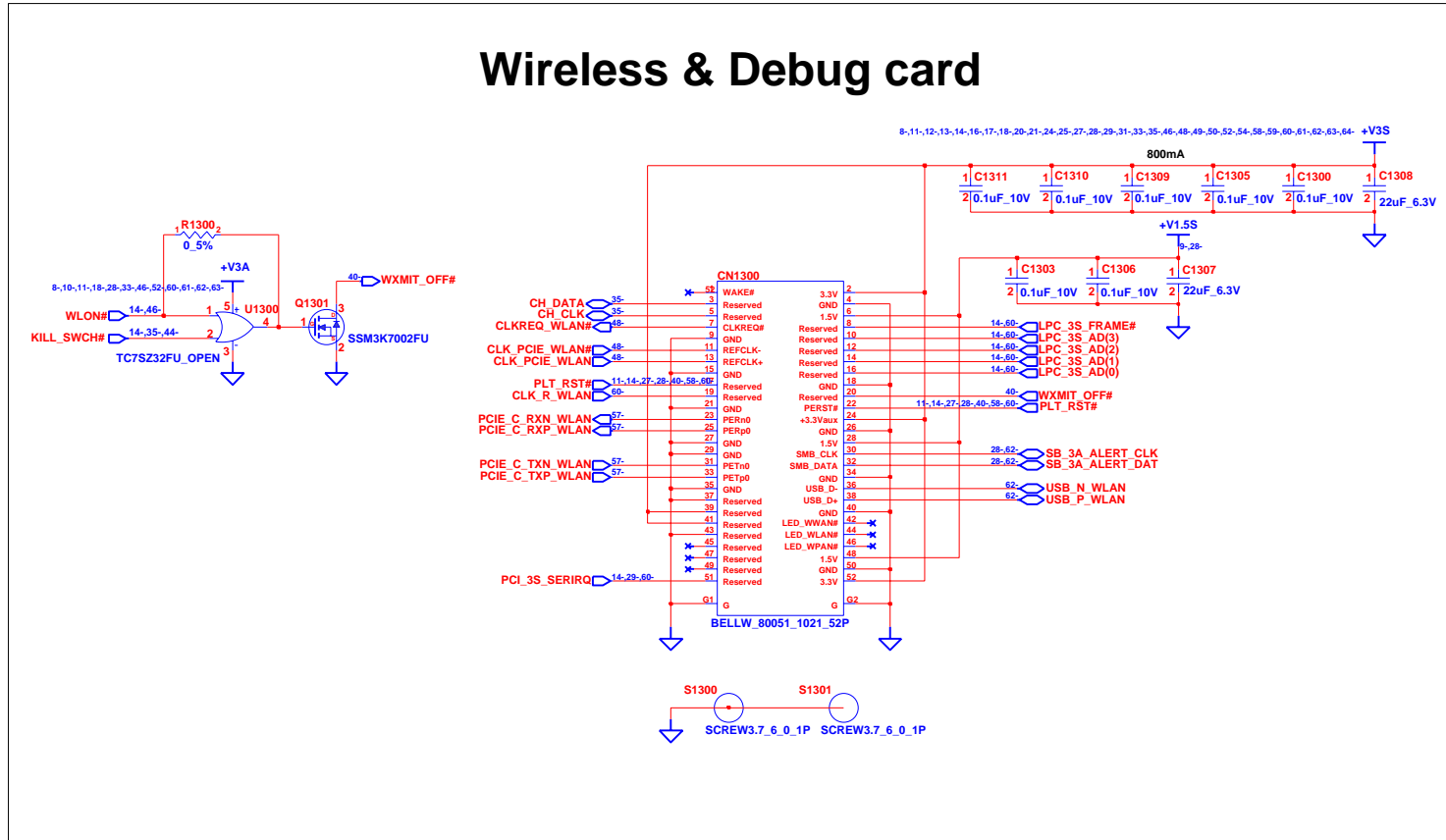
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B									B
C									C
D									D
E									E
F								<div><div>INVENTEC</div><div>TITLE</div><div>Rotterdam 10AR</div><div>Finger Print</div><div><div>SIZE</div><div>A3</div><div>CODE</div><div>CS</div><div>DOC. NUMBER</div><div>1310A22508-0-MTR</div><div>REV</div><div>AX1</div></div><div><div>CHANGE by</div><div>Drawer Name</div><div>16-Dec-2008</div><div>SHEET</div><div>37</div><div>OF</div><div>66</div></div></div>	F
	1	2	3	4	5	6	7	8	

	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	

<b>INVENTEC</b>			
TITLE <b>Rotterdam 10AR</b>			
FELICA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		38	OF 66

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B									B
C									C
D									D
E									E
F								<div><div>INVENTEC</div><div>TITLE</div><div>Rotterdam 10AR</div><div>FM tuner</div><div><div>SIZE</div><div>A3</div><div>CODE</div><div>CS</div><div>DOC. NUMBER</div><div>1310A22508-0-MTR</div><div>REV</div><div>AX1</div></div><div><div>CHANGE by</div><div>Drawer Name</div><div>16-Dec-2008</div><div>SHEET</div><div>39</div><div>OF</div><div>66</div></div></div>	F
	1	2	3	4	5	6	7	8	

# Wireless & Debug card



INVENTEC			
TITLE Rotterdam 10AR WLAN			
SIZE A3	CODE CS	DOC. NUMBER 1310A22508-0-MTR	REV AXI
SHEET 40		OF 66	

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

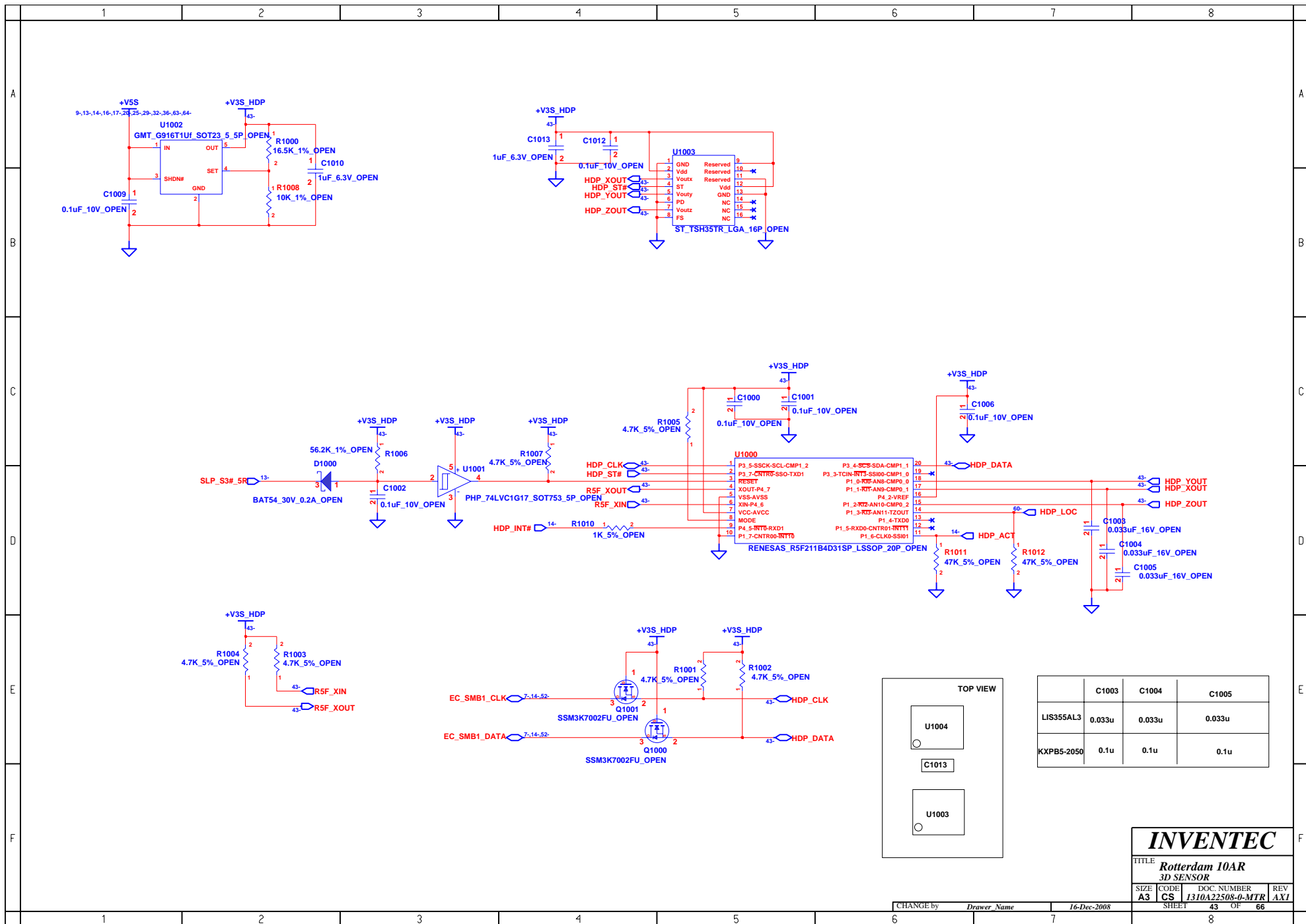
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TITLE <b>Rotterdam 10AR</b>			
3G			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AX1</b>
SHEET		41	OF 66

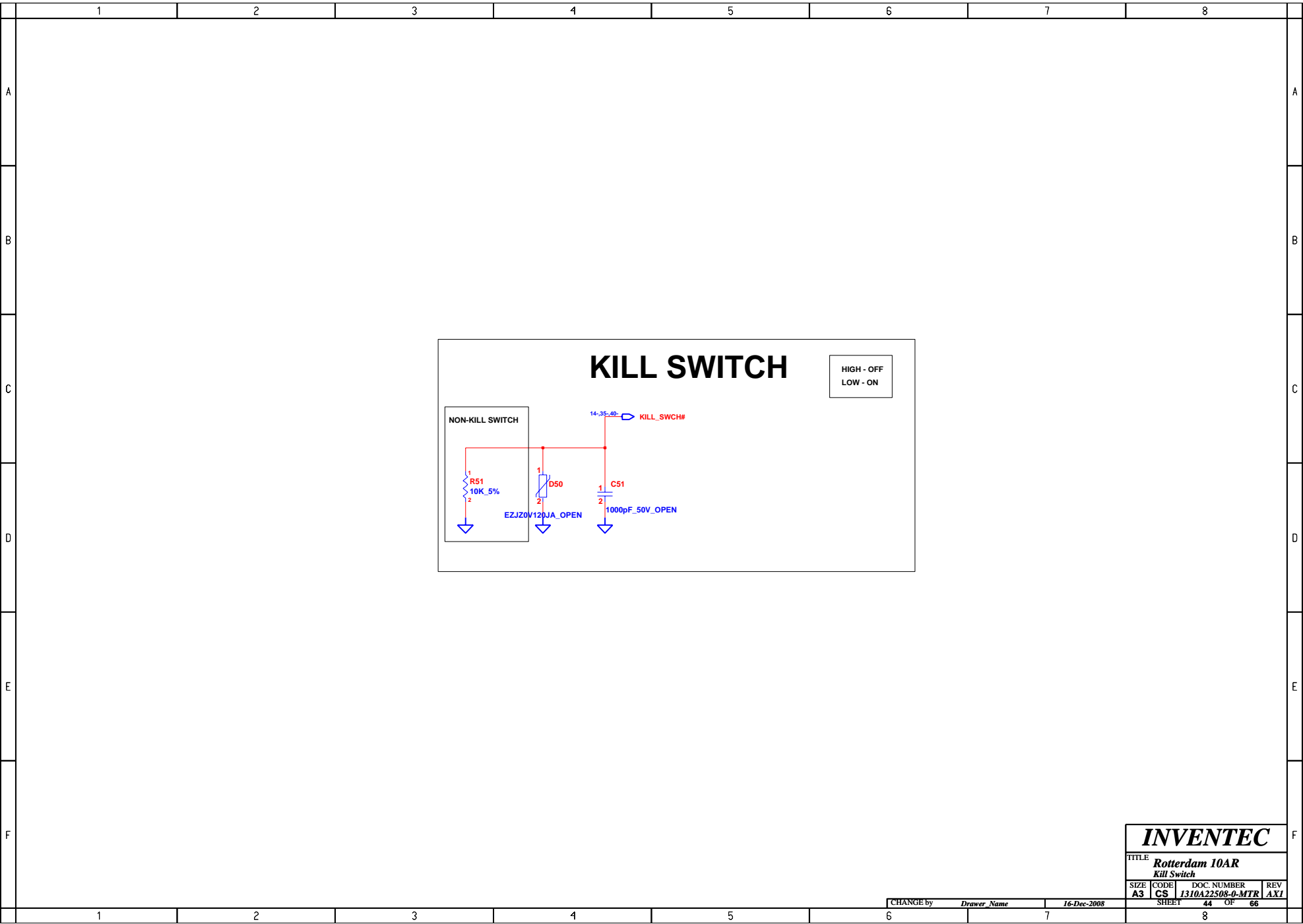
CHANGE by *Drawer Name* 16-Dec-2008

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

<b>INVENTEC</b>			
TITLE <b>Rotterdam 10AR</b>			
WUSB			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AX1</b>
SHEET		42	OF 66

CHANGE by *Drawer Name* 16-Dec-2008

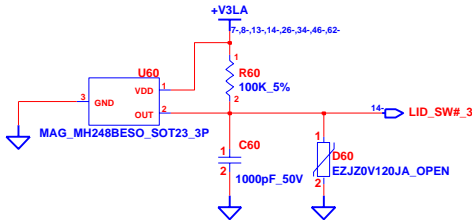




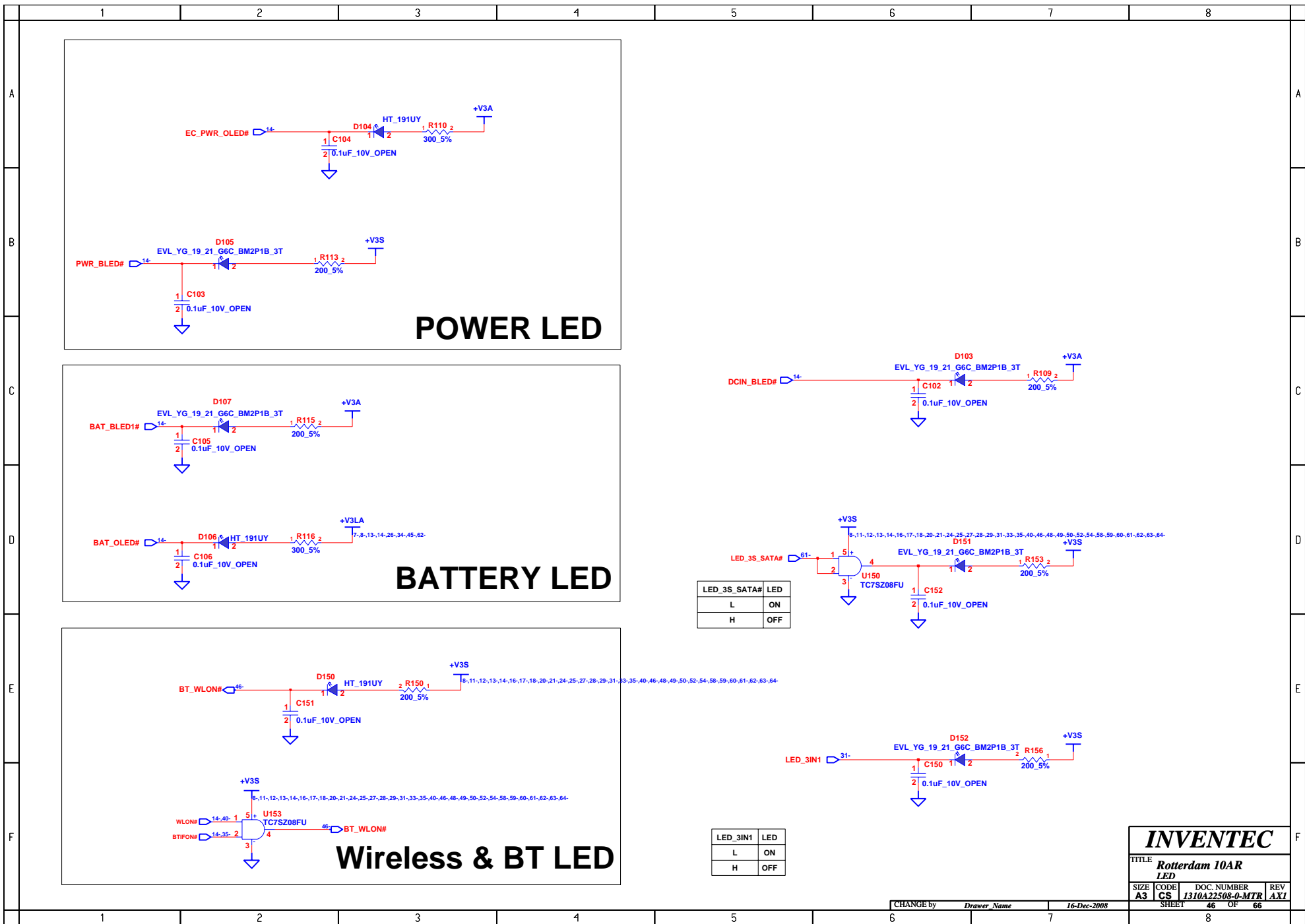
INVENTEC			
TITLE Rotterdam 10AR Kill Switch			
SIZE A3	CODE CS	DOC. NUMBER 1310A22508-0-MTR	REV AXI
SHEET		44	OF 66

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A									A
B									B
C									C
D									D
E									E
F									F

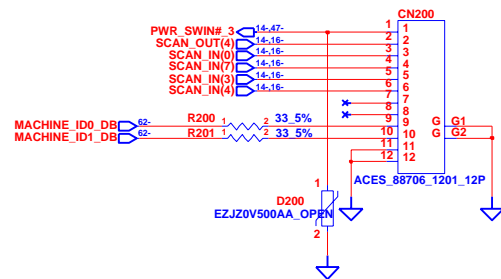
# LID SWITCH



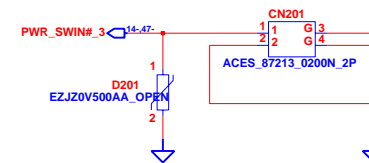
<b>INVENTEC</b>			
TITLE <b>Rotterdam 10AR</b> <i>LID Switch</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A22508-0-MTR</b>	REV <b>AXI</b>
CHANGE by <i>Drawer Name</i>		16-Dec-2008	
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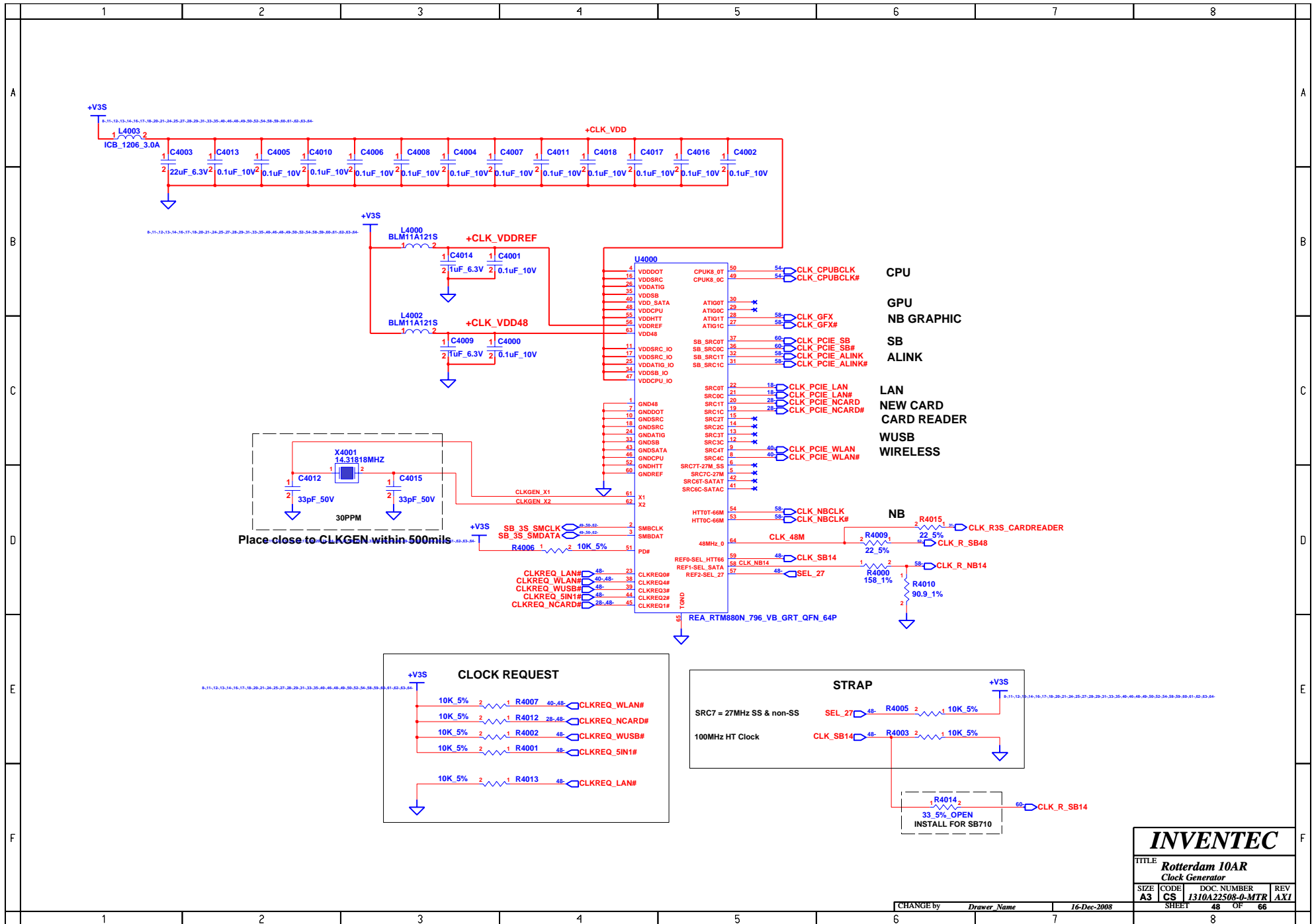
## HOTKEY

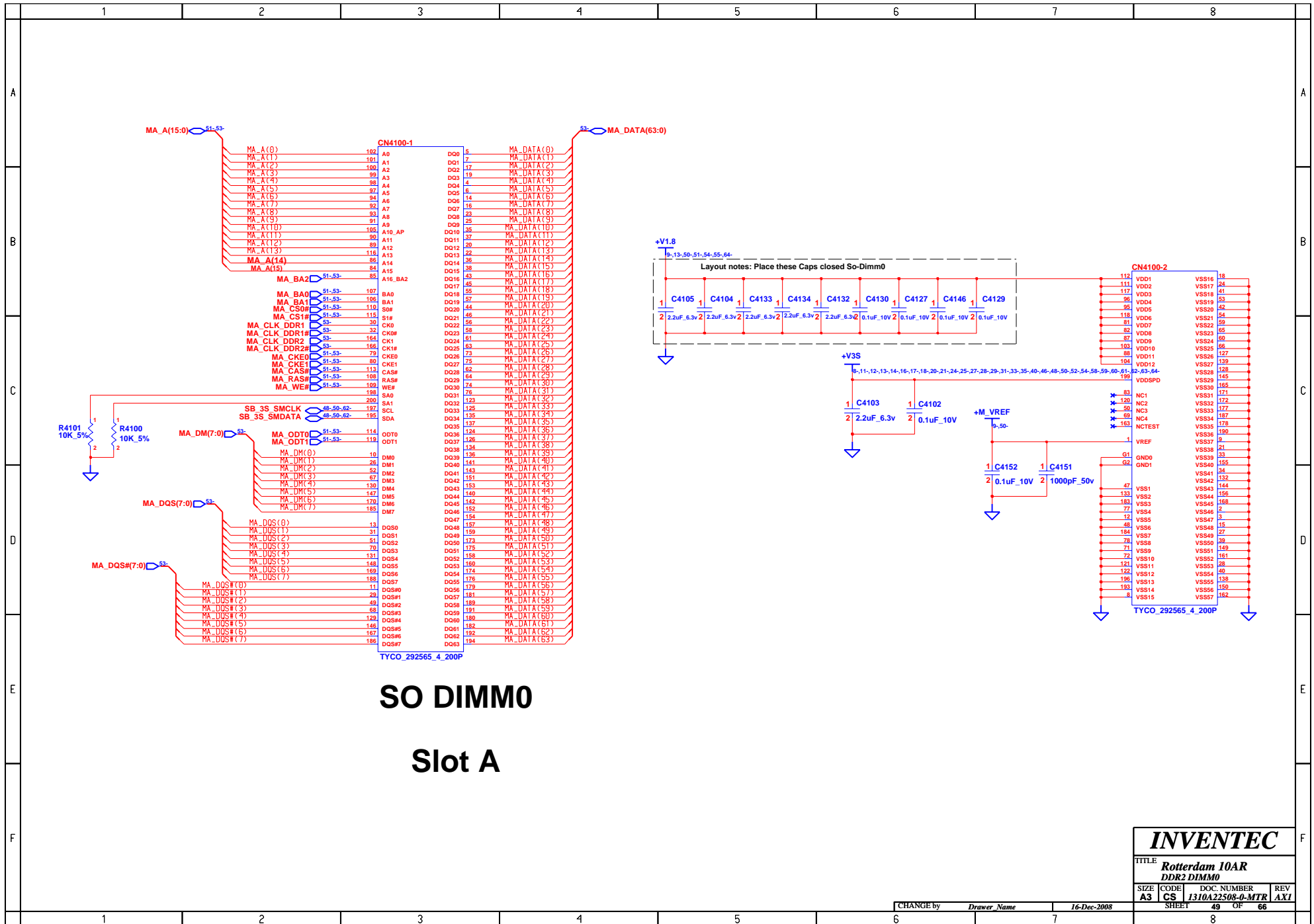


## POWER BUTTON



INVENTEC			
TITLE			
Rotterdam 10AR			
Connector			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
CHANGE by		Drawer Name	16-Dec-2008
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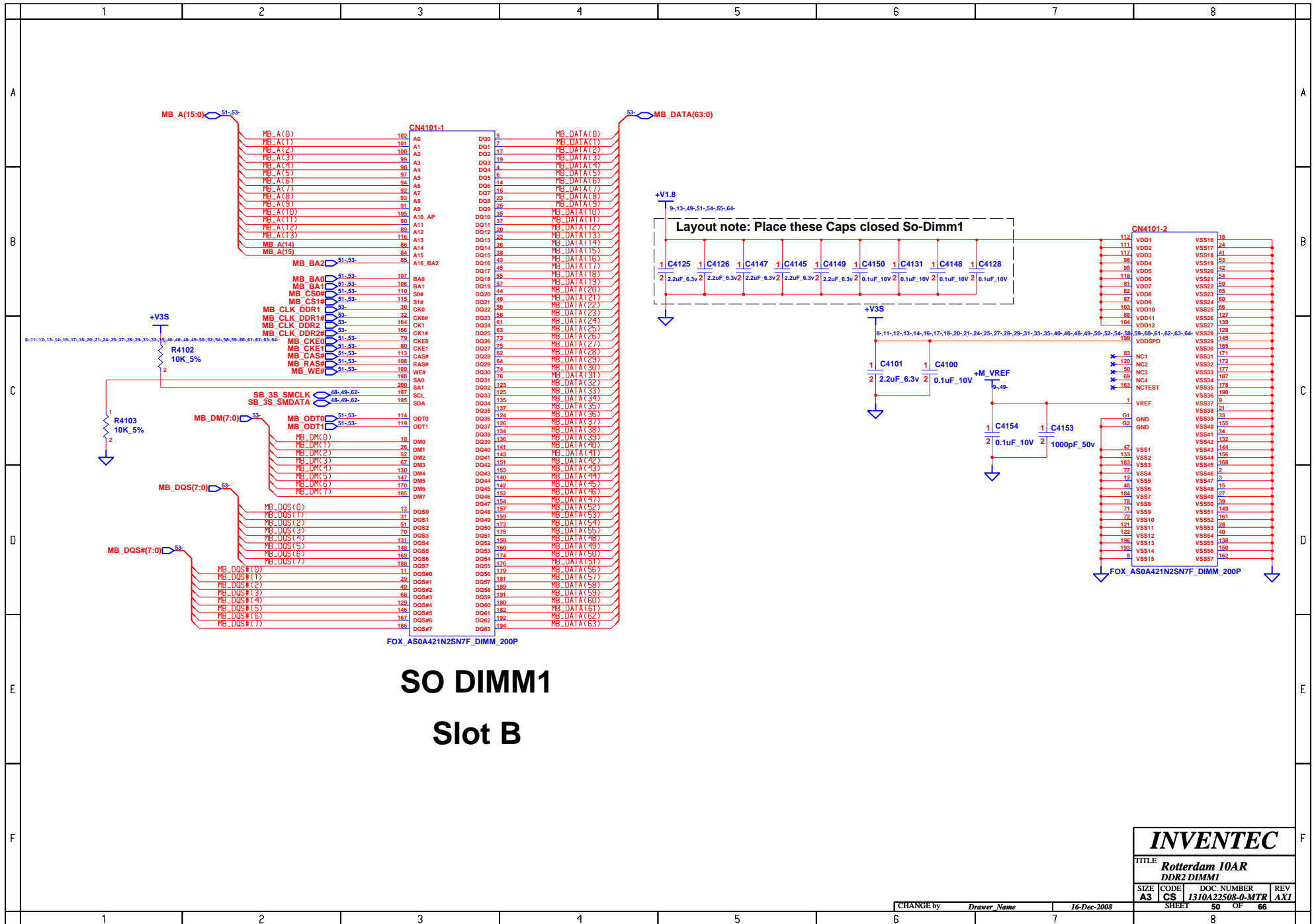


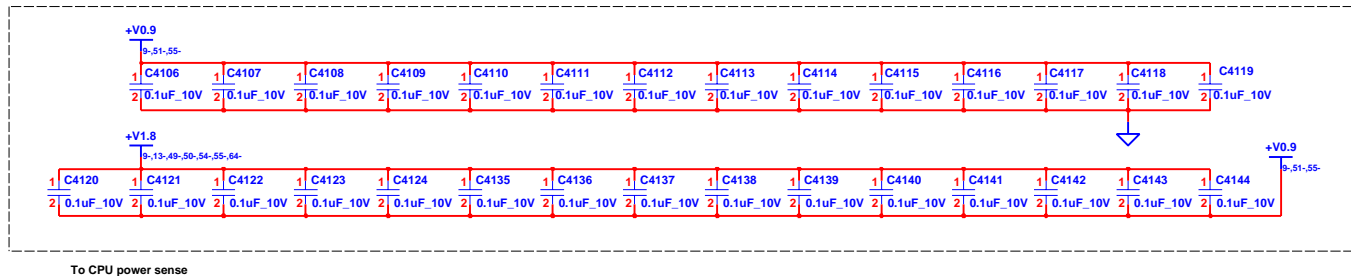
**INVENTEC**

TITLE  
**Rotterdam 10AR  
DDR2 DIMM0**

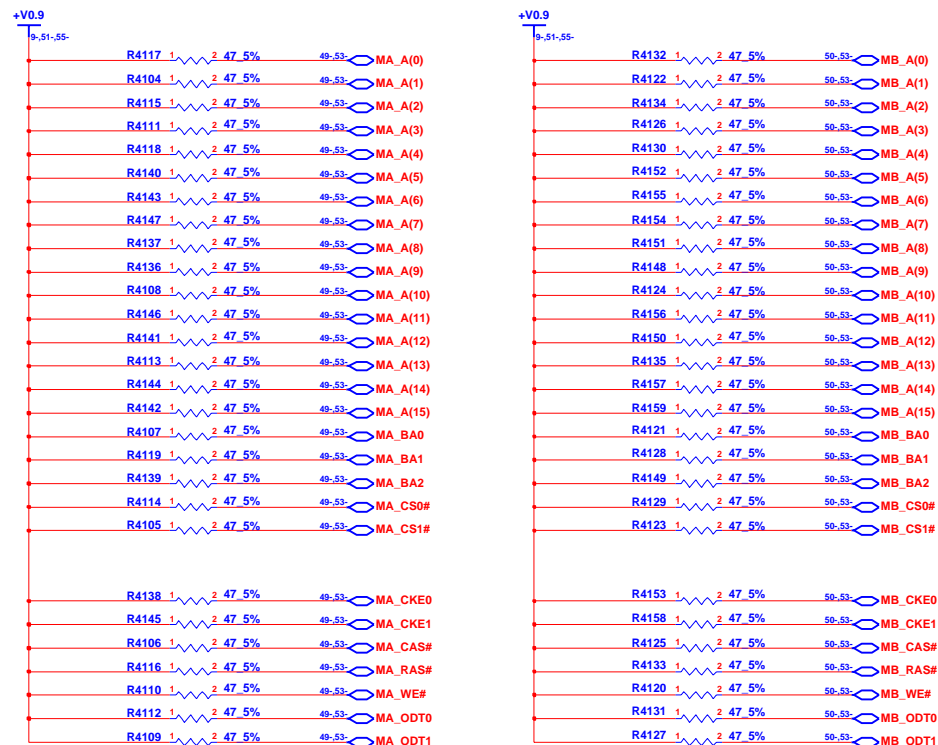
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AX1

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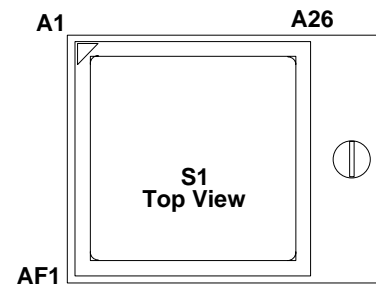
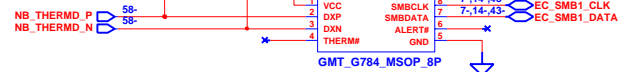


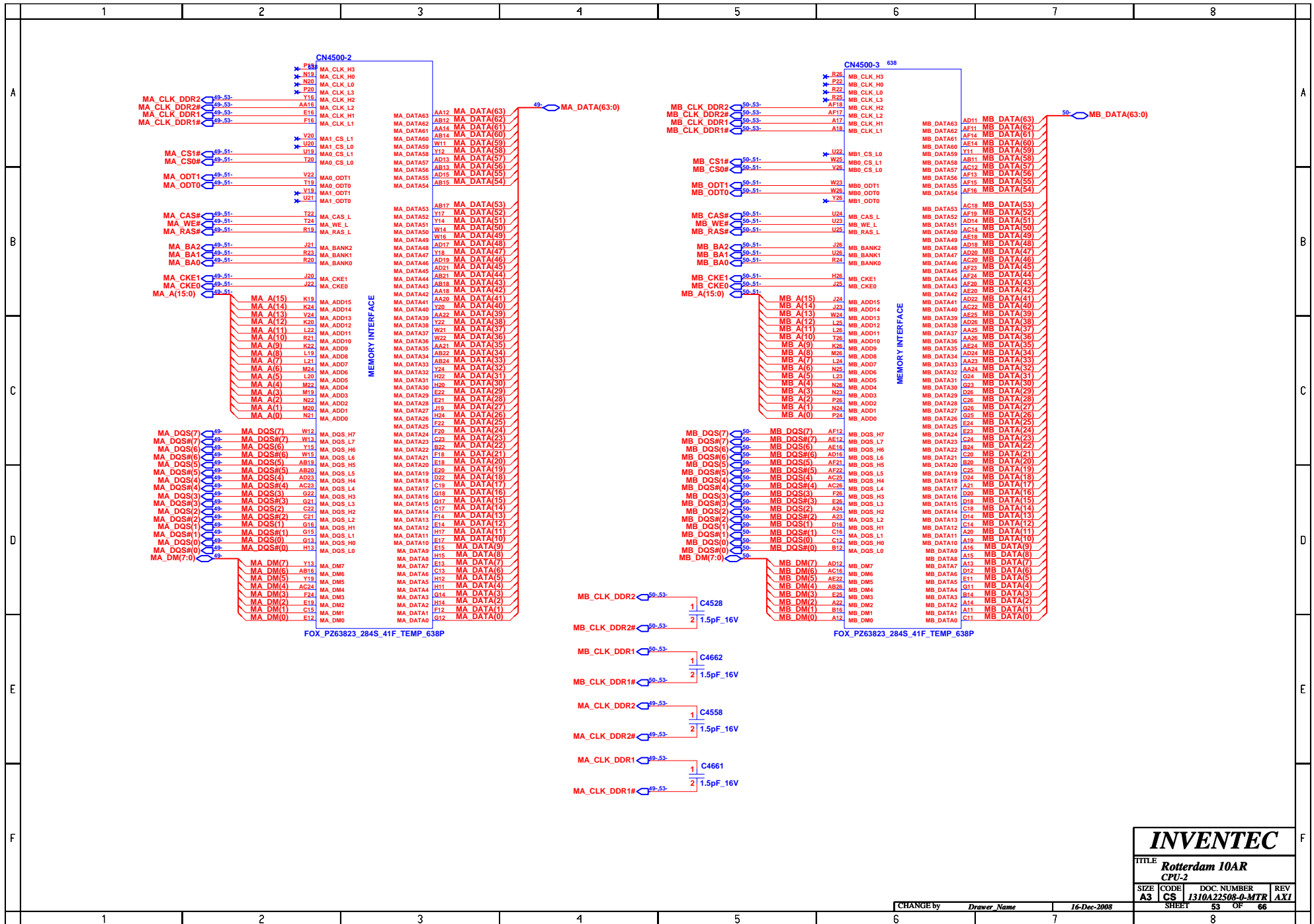
Place CAPs close to DIMM



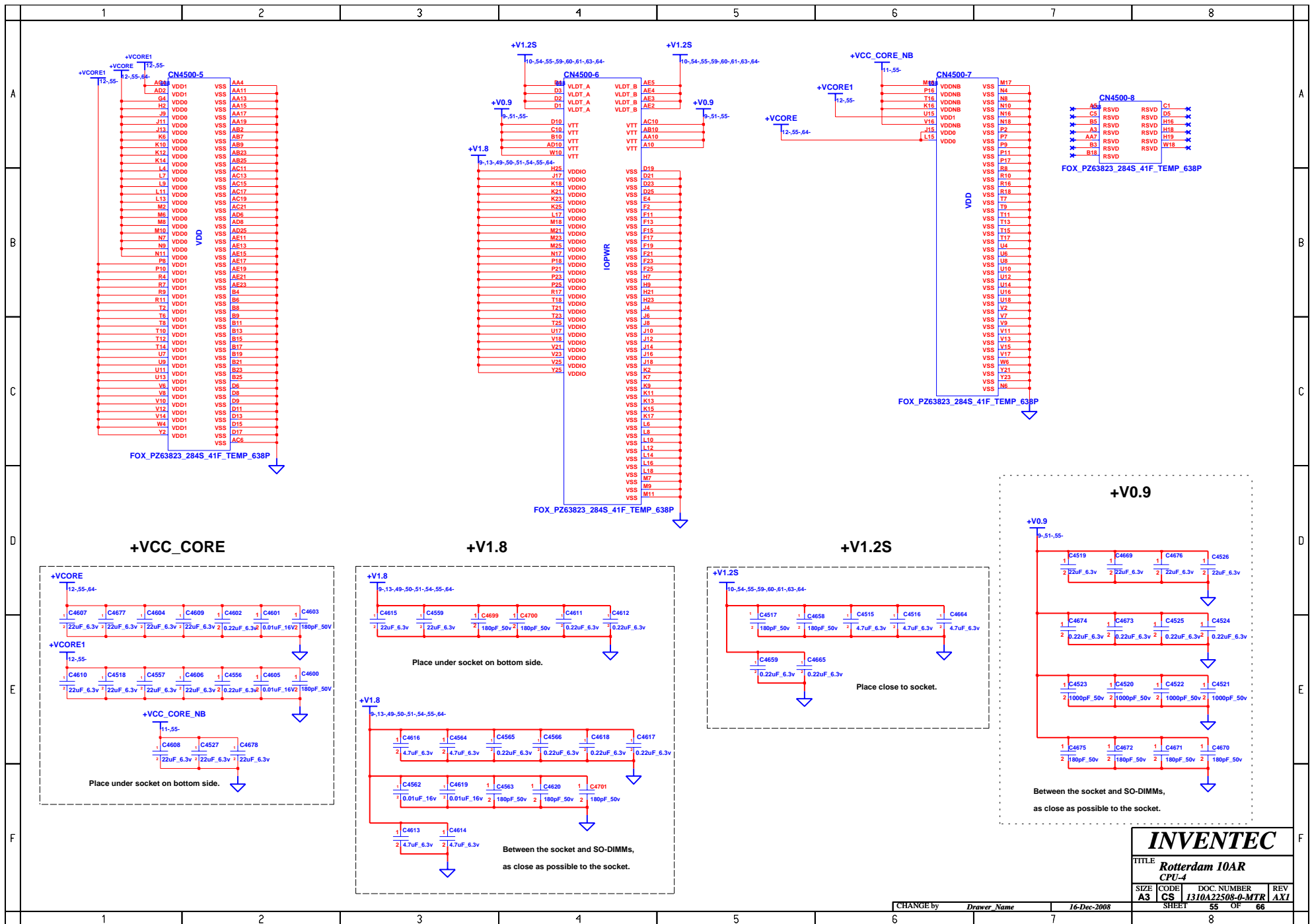
INVENTEC			
TITLE: Rotterdam 10AR			
DDR2 Damping			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI
SHEET		51	OF 66

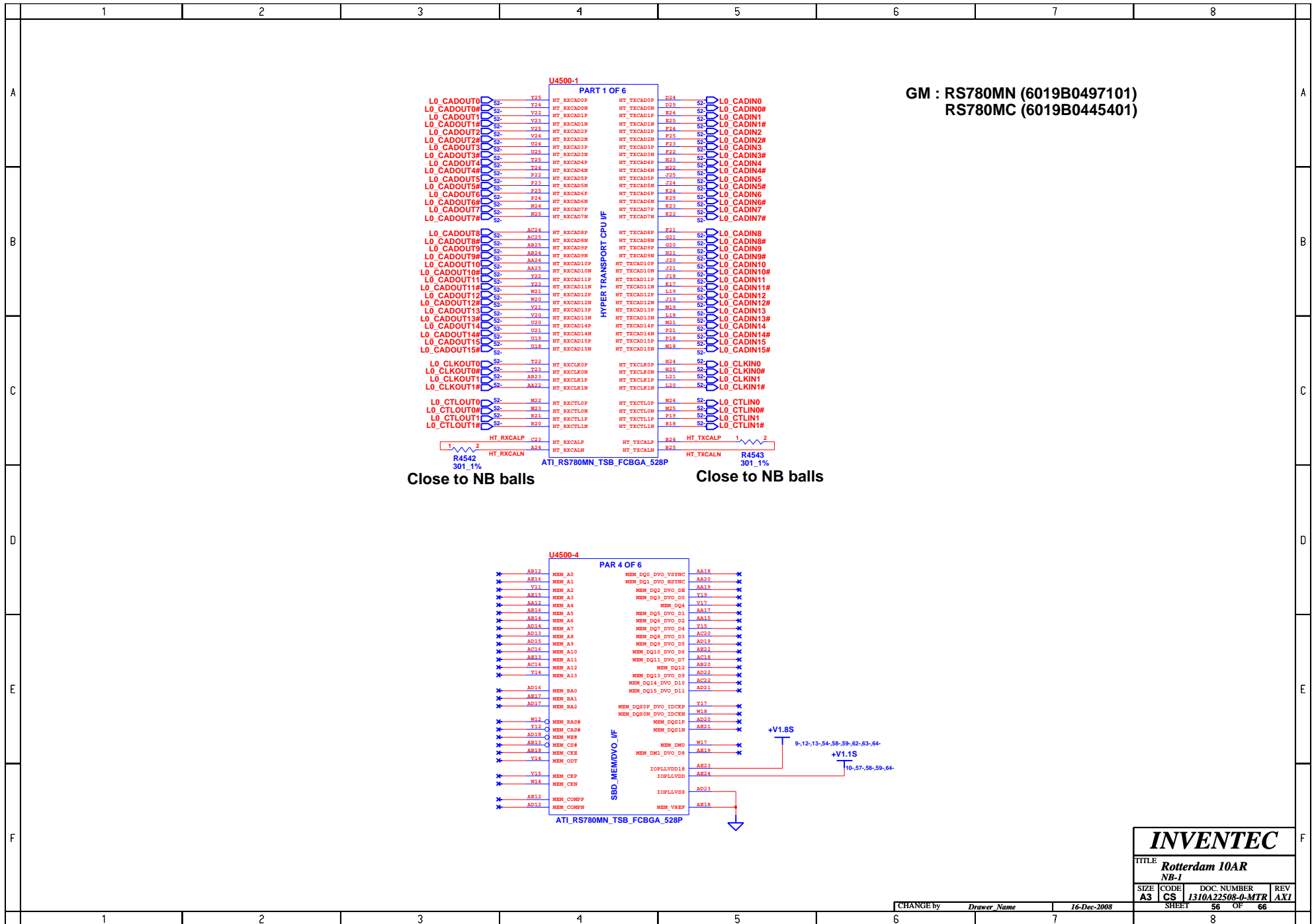
CHANGE by *Drawer Name* 16-Dec-2008



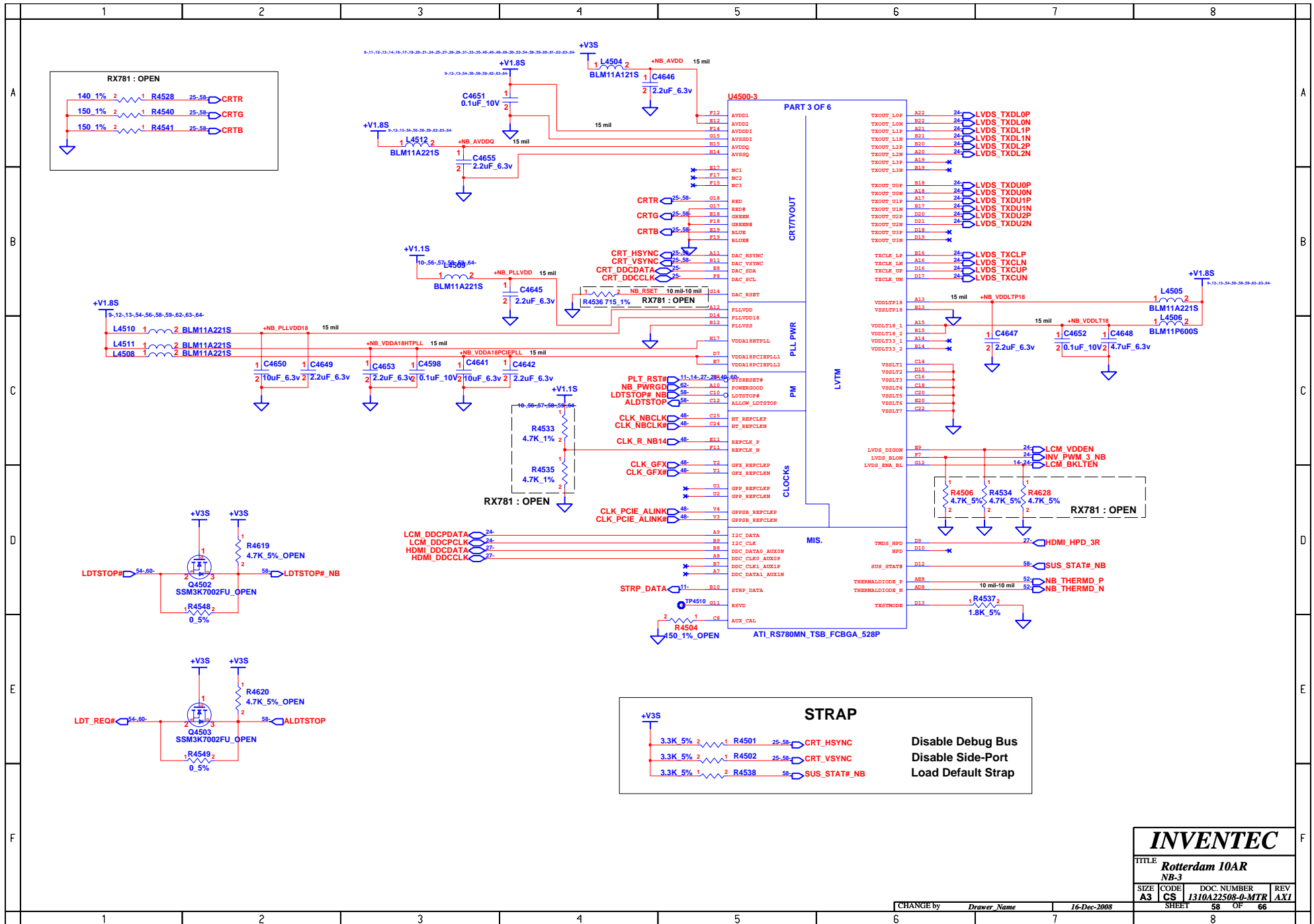


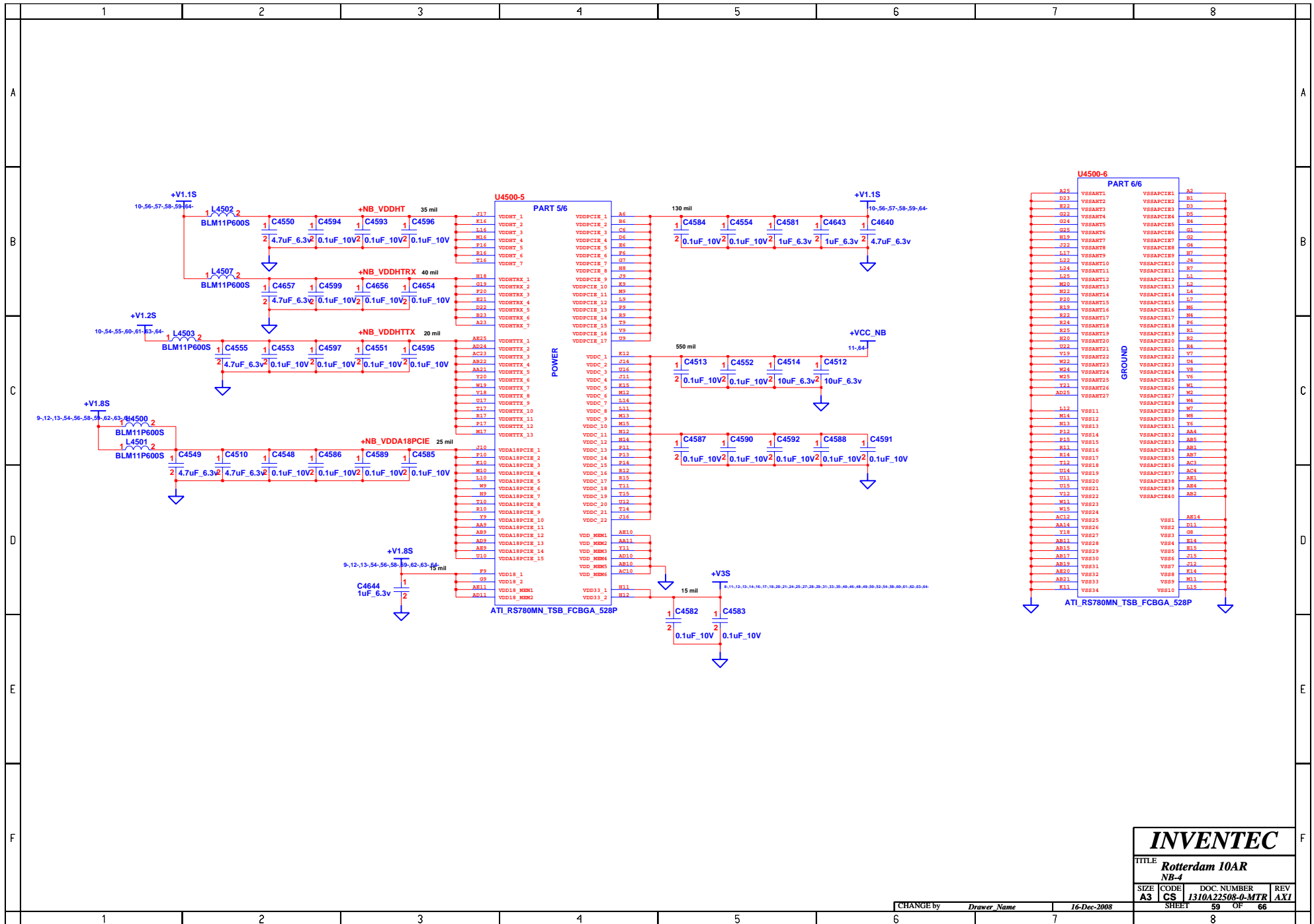


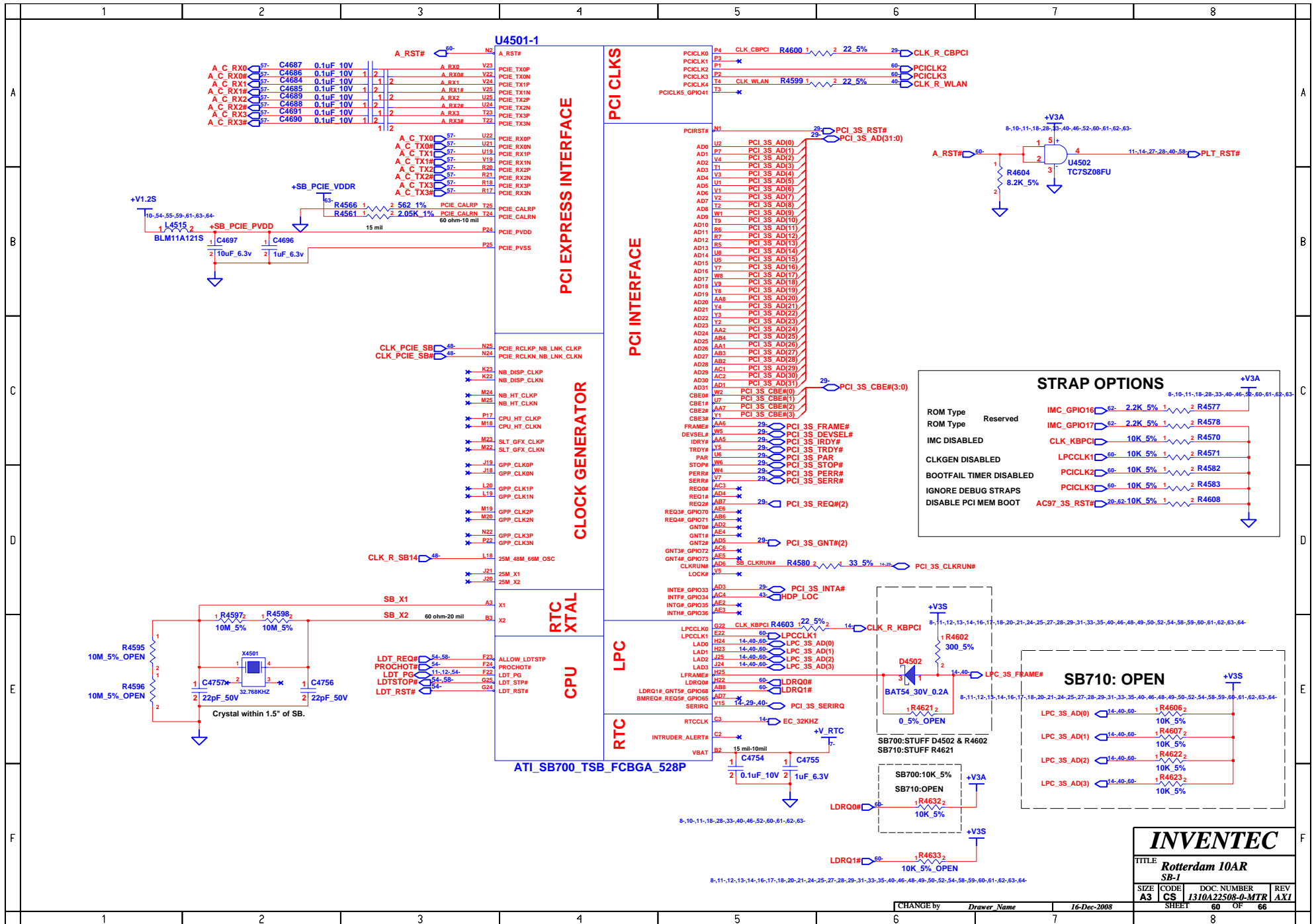






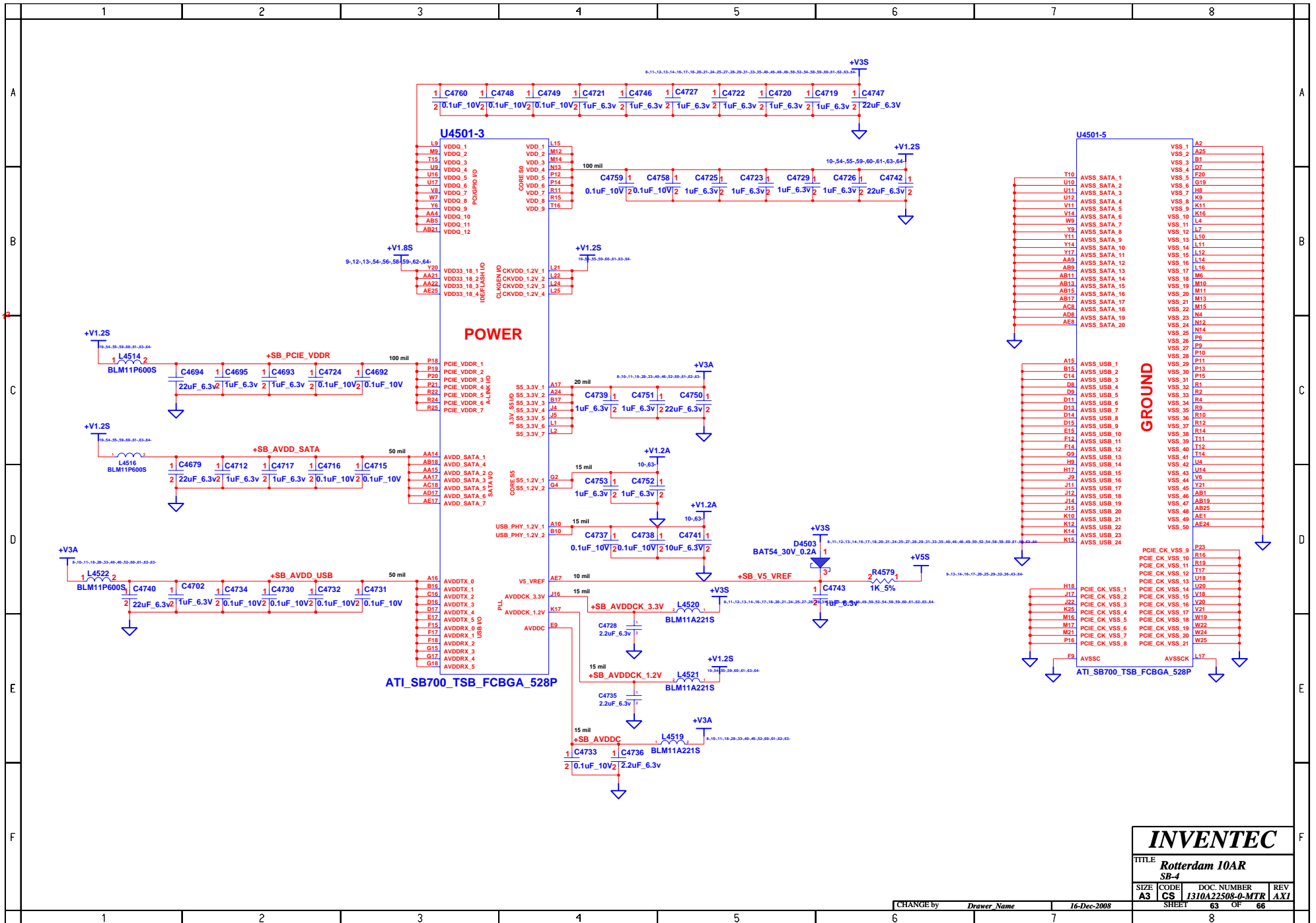






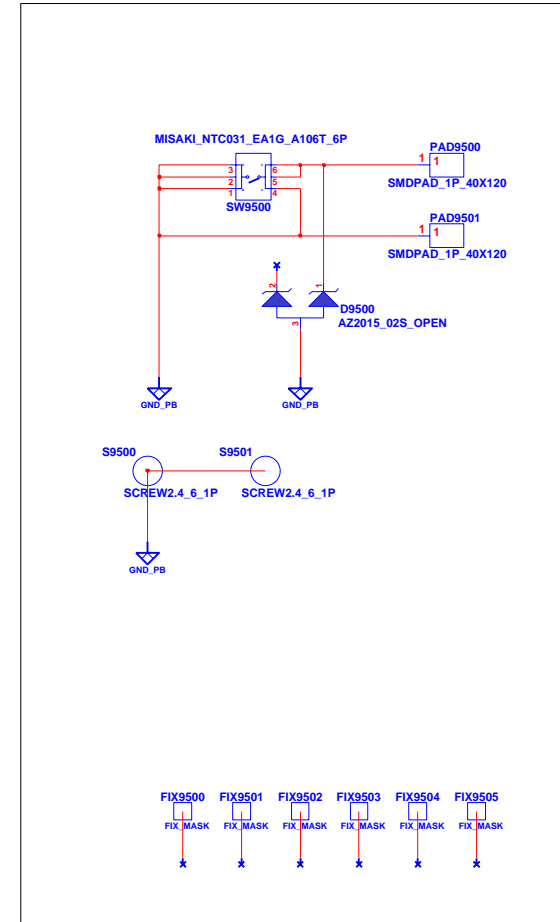
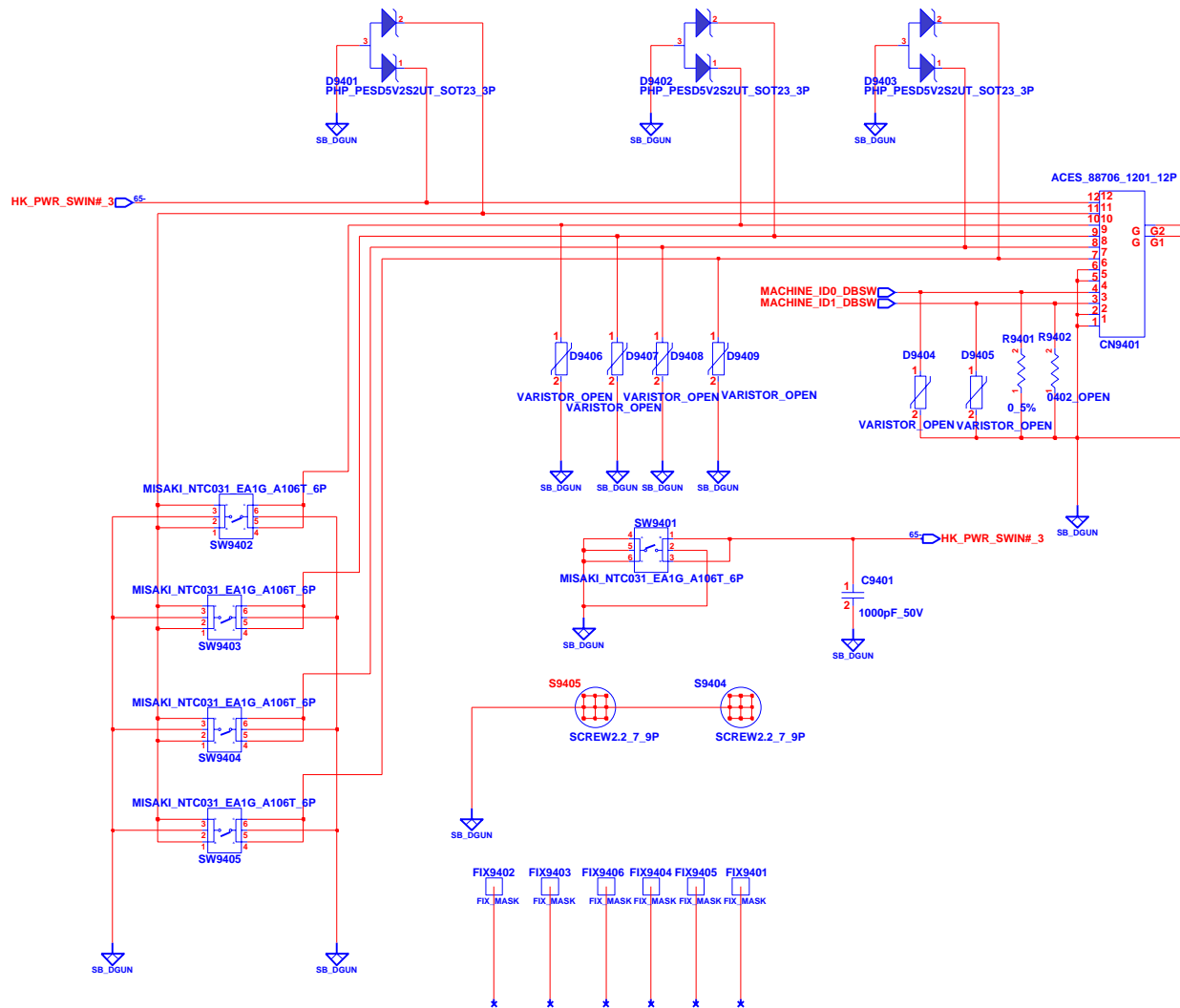






[illegible]

# HOTKEY BOARD 0 BUTTON BOARD



**INVENTEC**

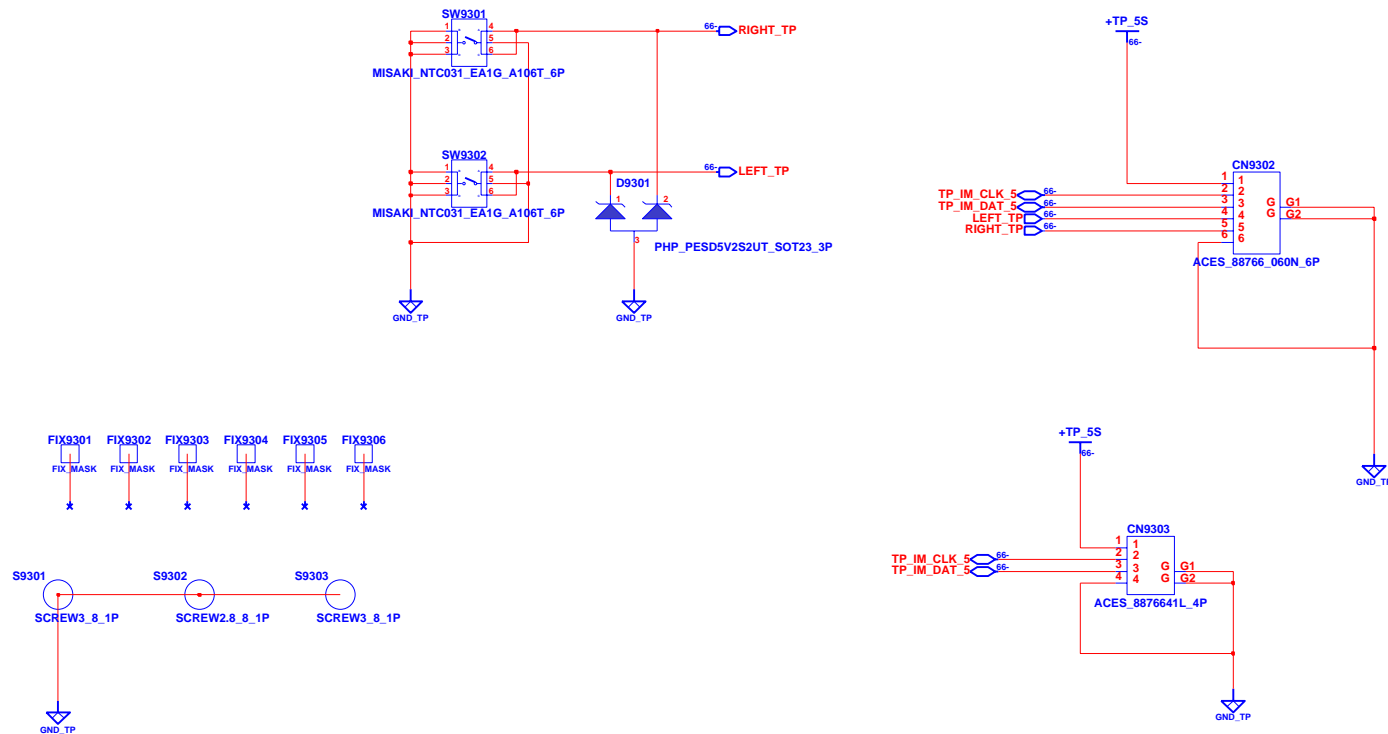
TITLE  
**Rotterdam 10AR**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI

CHANGE by *Drawer Name* 3-Apr-2009

SHEET 65 OF 66

# TOUCH PAD BOARD



**INVENTEC**

TITLE  
**Rotterdam 10AR**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22508-0-MTR	AXI

CHANGE by *Drawer Name* 16-Dec-2008

SHEET 66 OF 66