

	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	

MANAUS 10AD

A02 Build

2010.03.17

INVENTEC			
TITLE <i>Manaus10AD</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>1310A2357401</i>	REV X01

CHANGE by *Eddy, Chen* 17-Mar-2010

SHEET 1 OF 43

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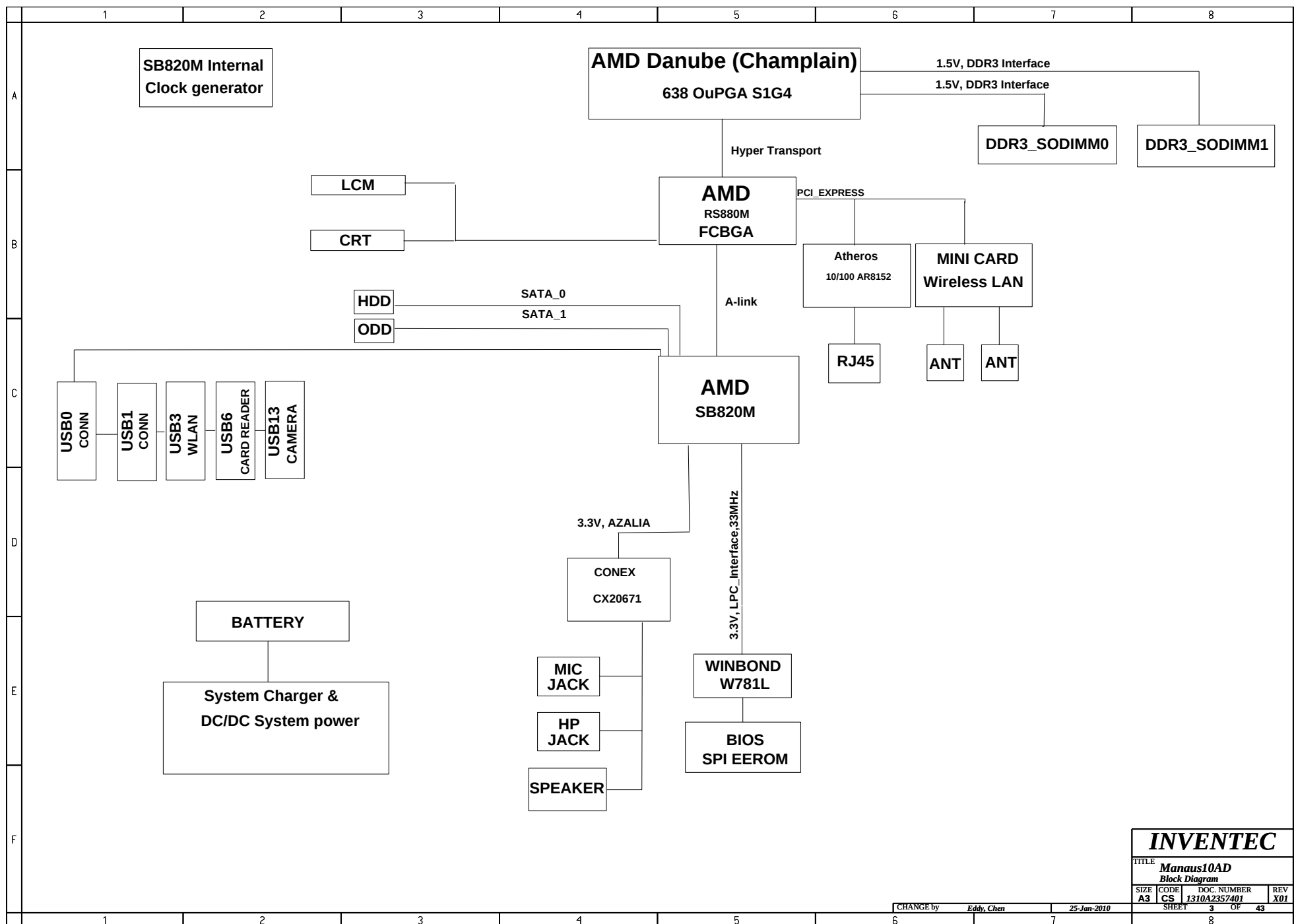
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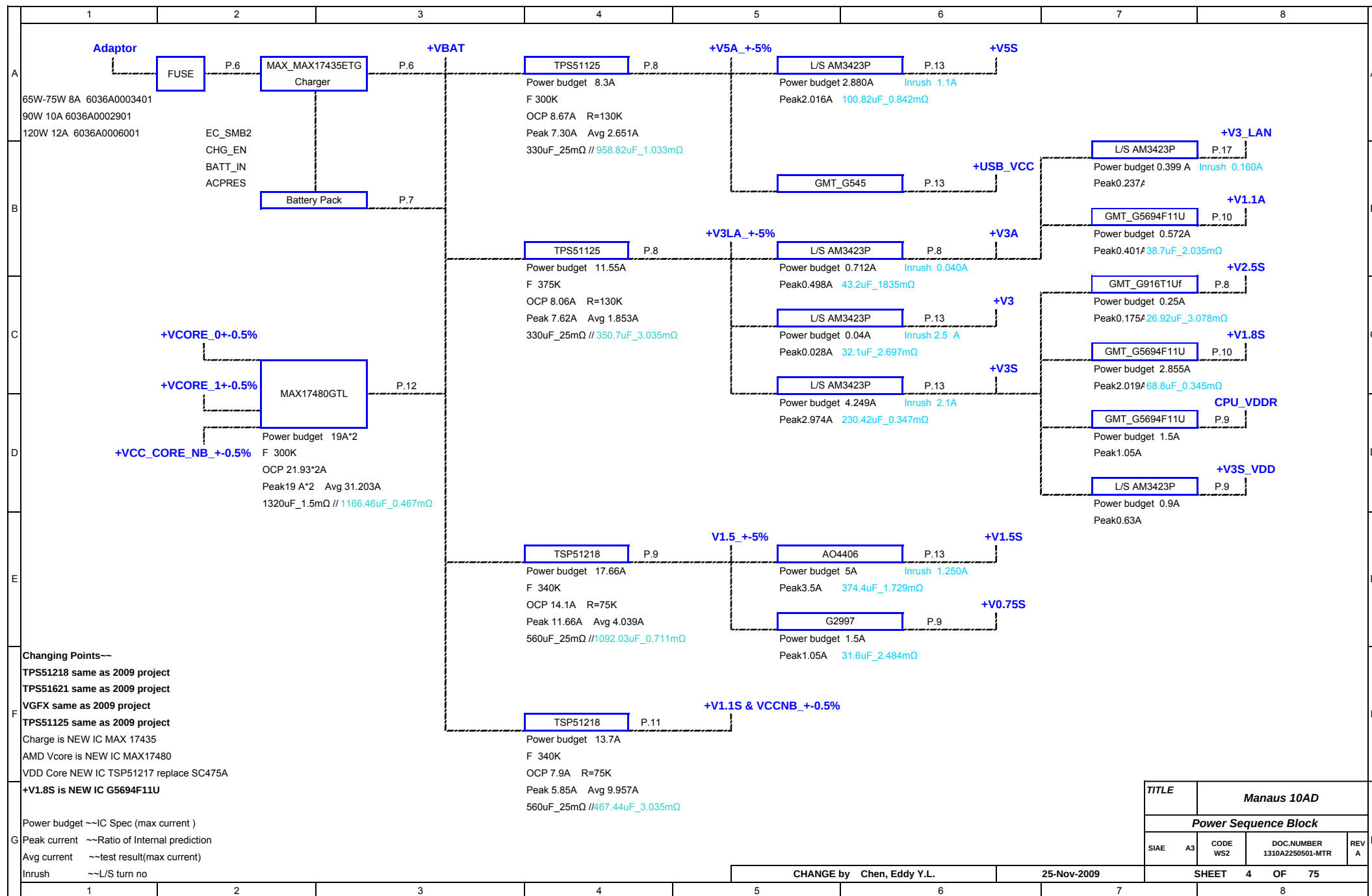
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43. POWER BOARD (DB)

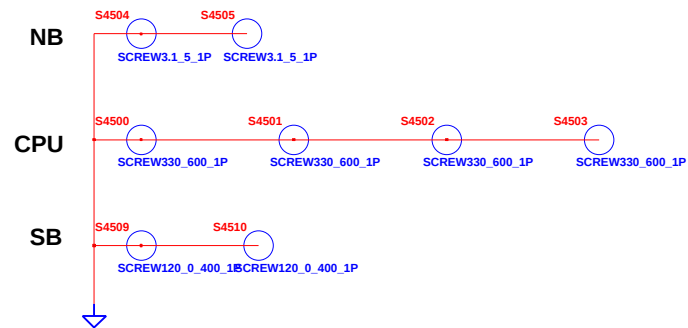
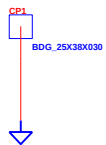
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Manaus10AD			
Index			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
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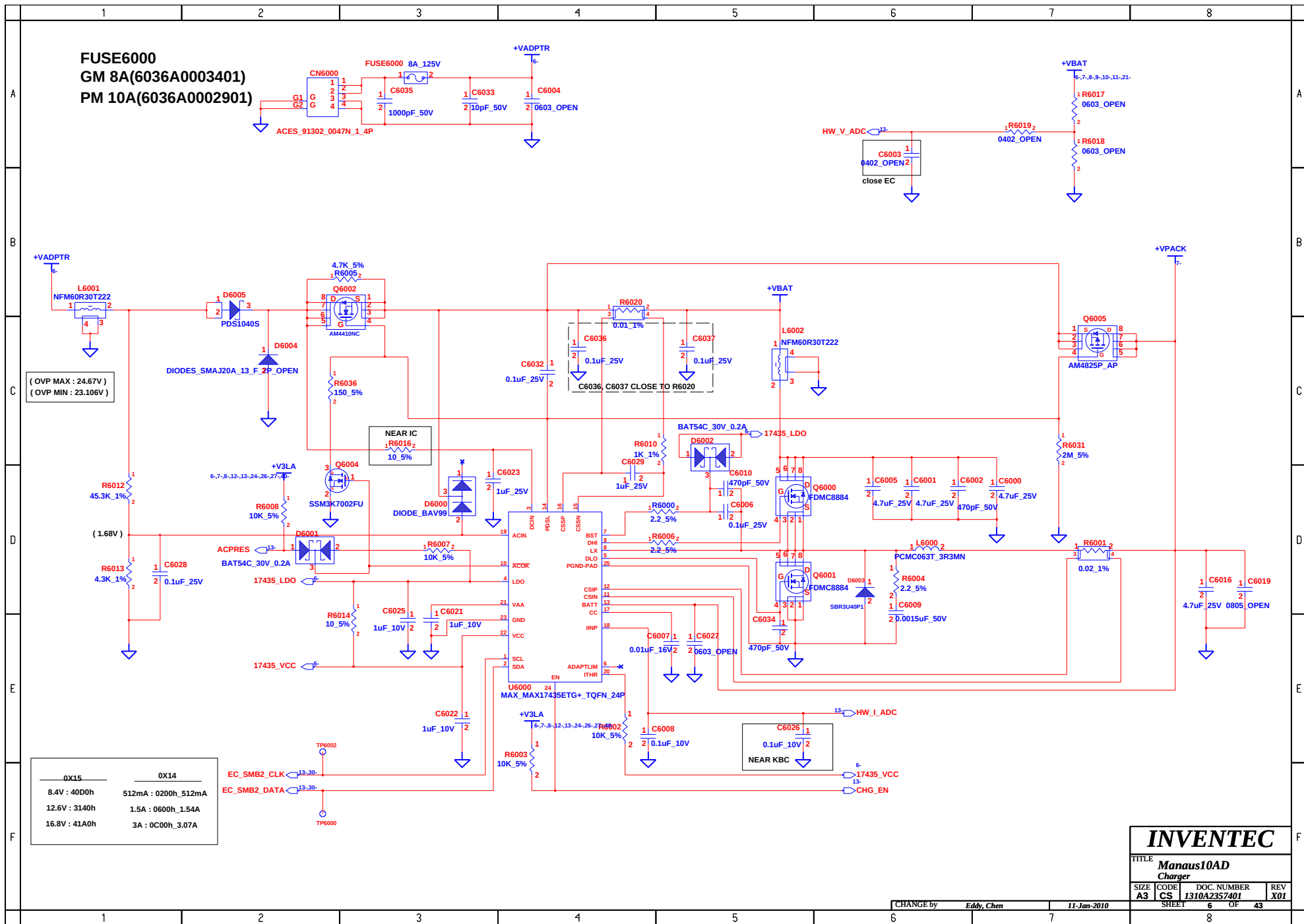
CHANGE by **Eddy, Chen** 25-Jan-2010

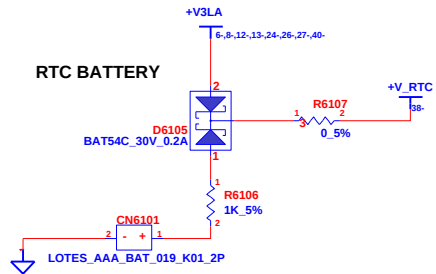
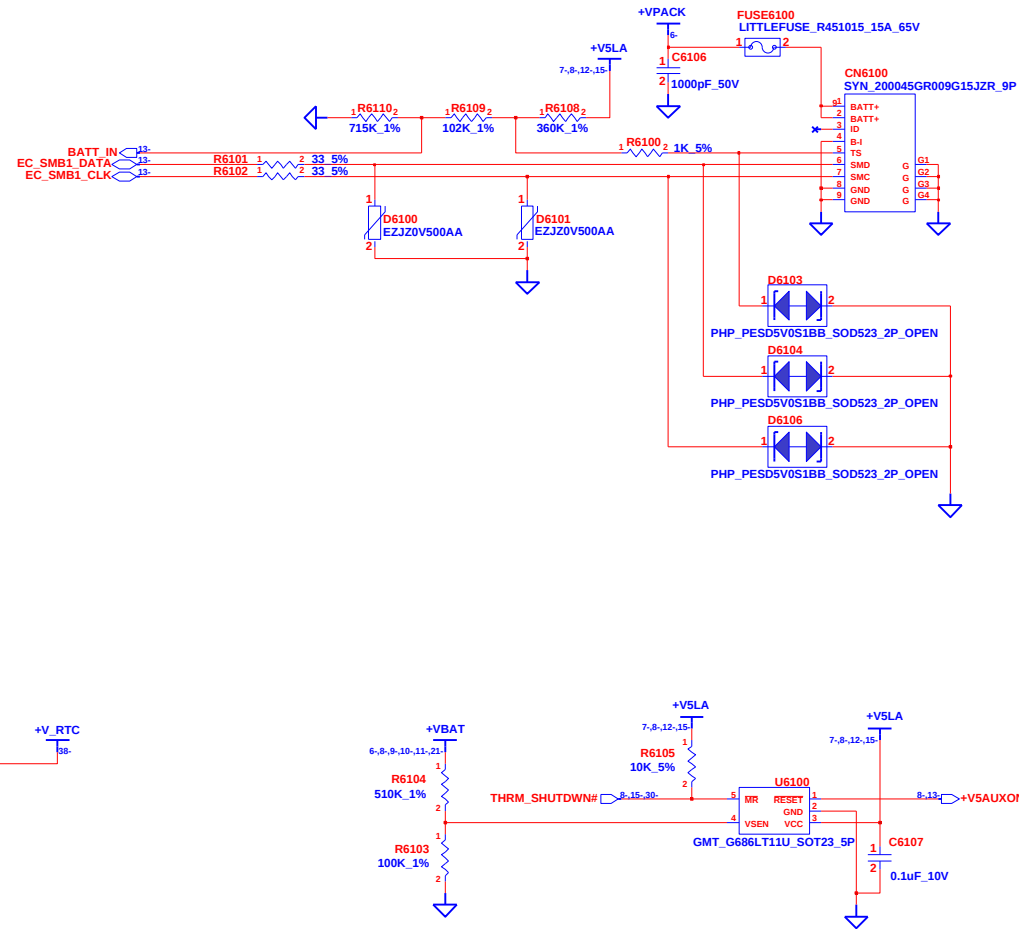






INVENTEC			
TITLE Manaus10AD			
PCB			
SIZE A3	CODE CS	DOC. NUMBER 1310A2357401	REV X01
SHEET 5		OF 43	
8			





INVENTEC

TITLE			
Mana10AD			
Battery, Reset IC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
SHEET		7	OF 43

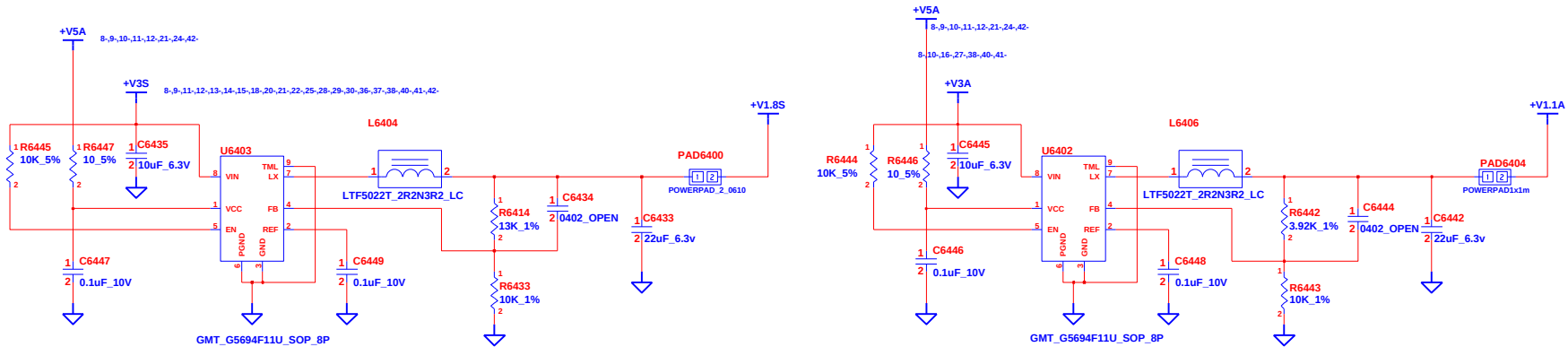
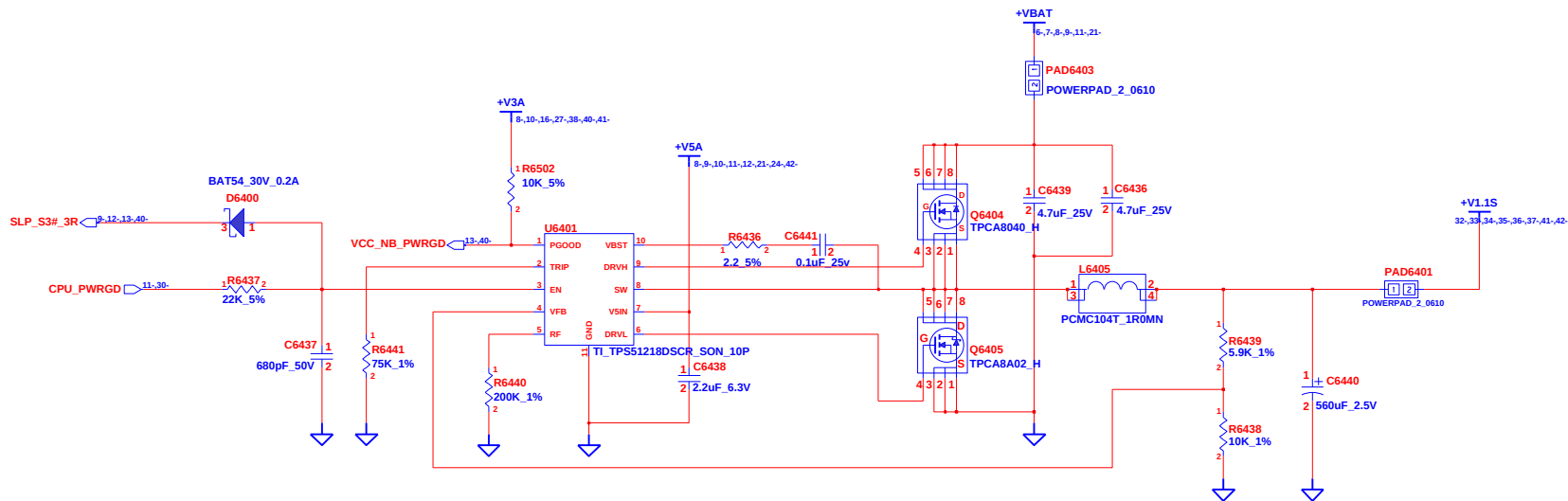
CHANGE by Eddy, Chen 11-Jan-2010

8

VDDR_EN	+CPU_VDD
0	0.9V
1	1.05V

TITLE Manaus10AD +CPU_VDDR, +V0.75, +V1.5			
SIZE A3	CODE CS	DOC. NUMBER 1310A2357401	REV X01

+V1.1A +V1.1S +V1.8S



INVENTEC

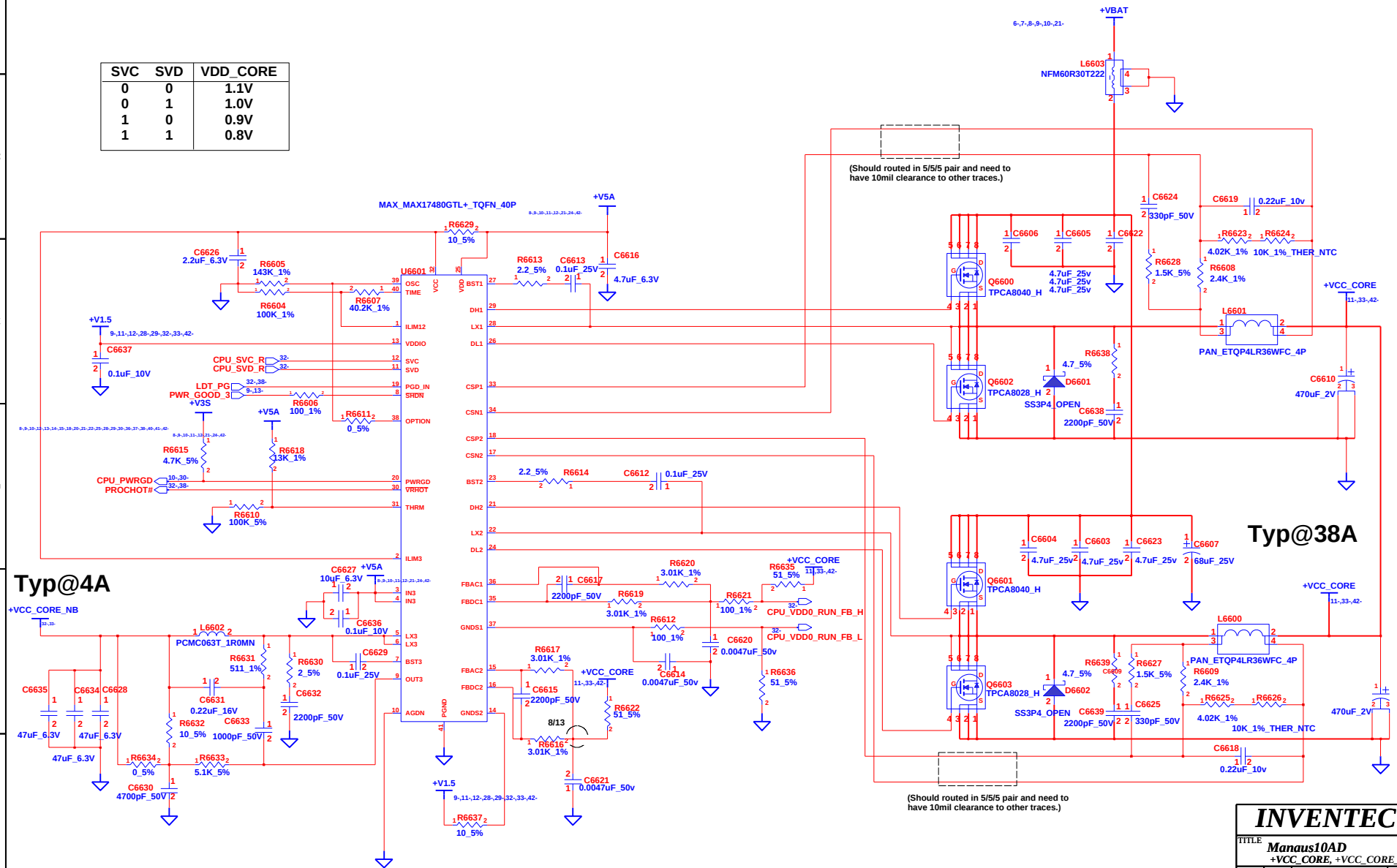
TITLE
Manaus10AD
+V1.1A, +V1.1S, +V1.8S

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01

CHANGE by **Eddy, Chen** 11-Jan-2010

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SVC	SVD	VDD_CORE
0	0	1.1V
0	1	1.0V
1	0	0.9V
1	1	0.8V

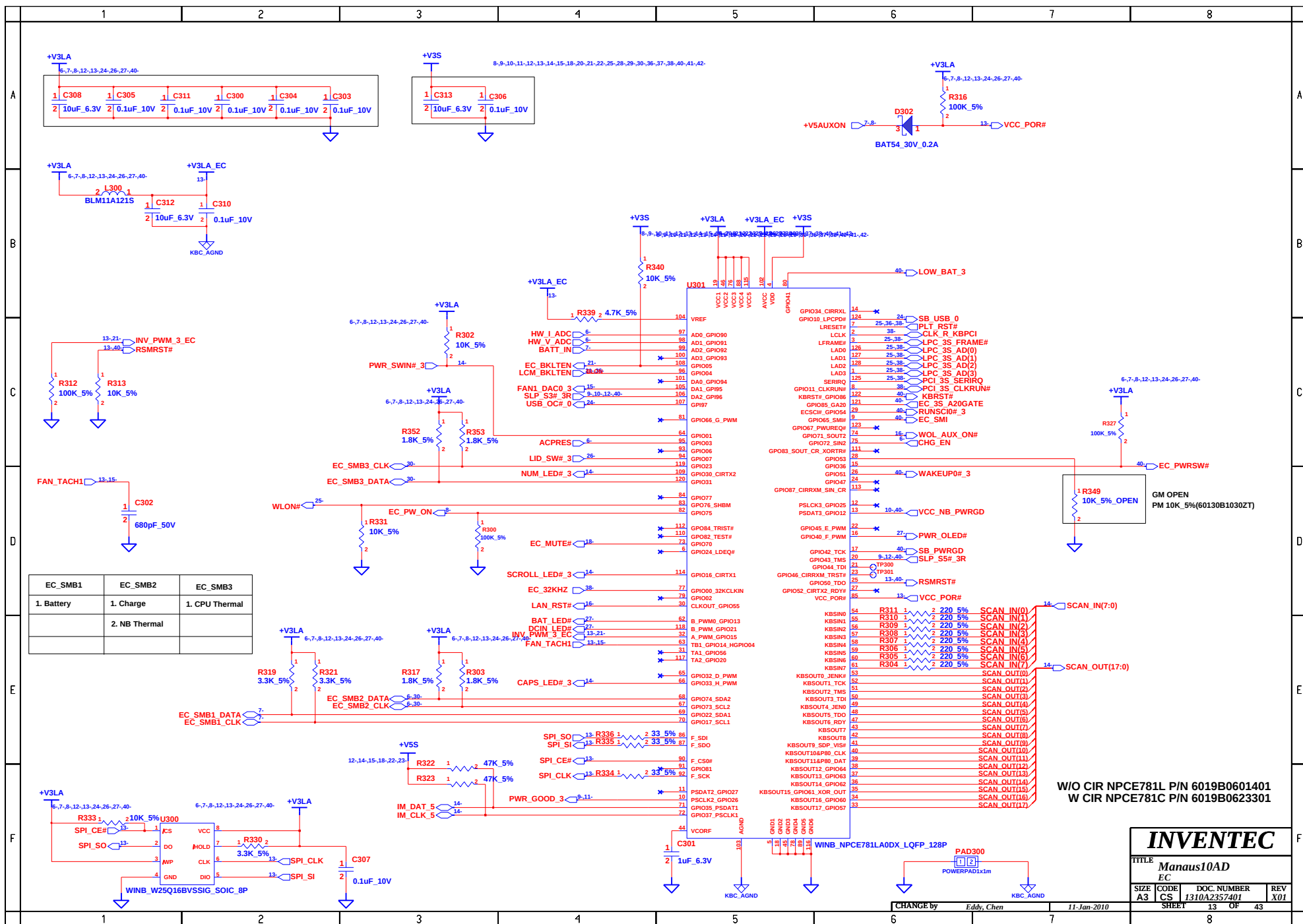


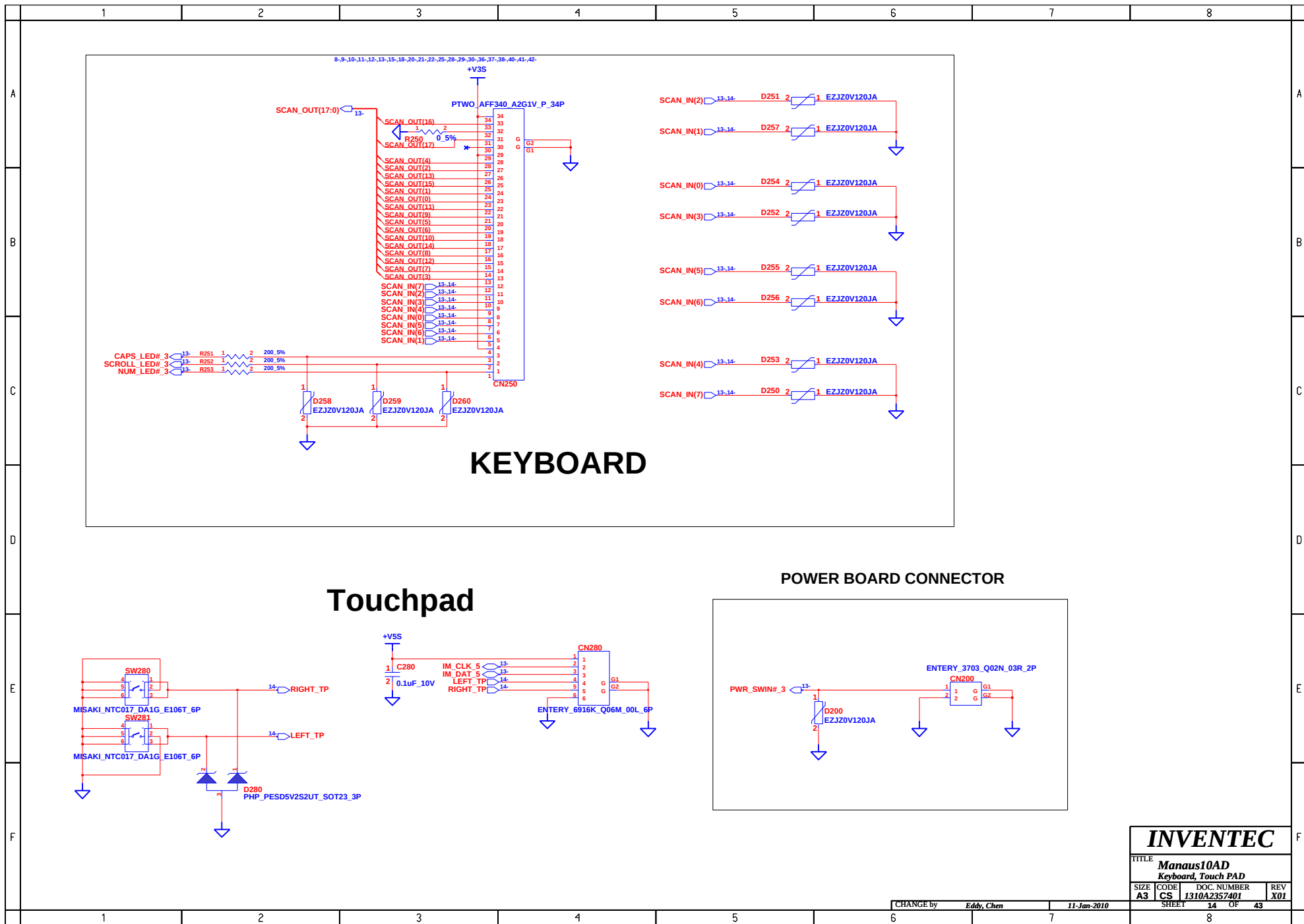
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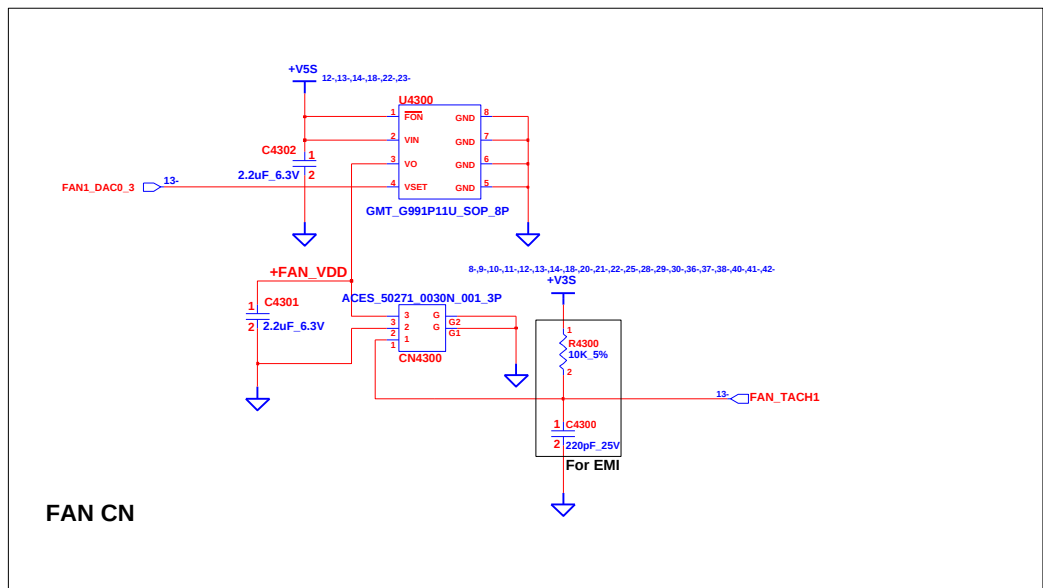
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Mana10AD			
+VCC_CORE, +VCC_CORE_NB			
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A3	CS	1310A2357401	X01

CHANGE by Eddy, Chen 11-Jan-2010

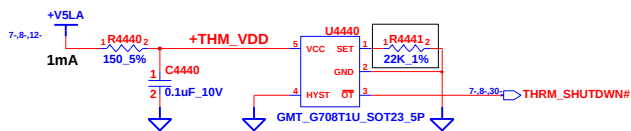
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Board Thermal Sensor



Thermal shutdown at 90 C° +/-3 C° from 60 C° to 100 C°

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

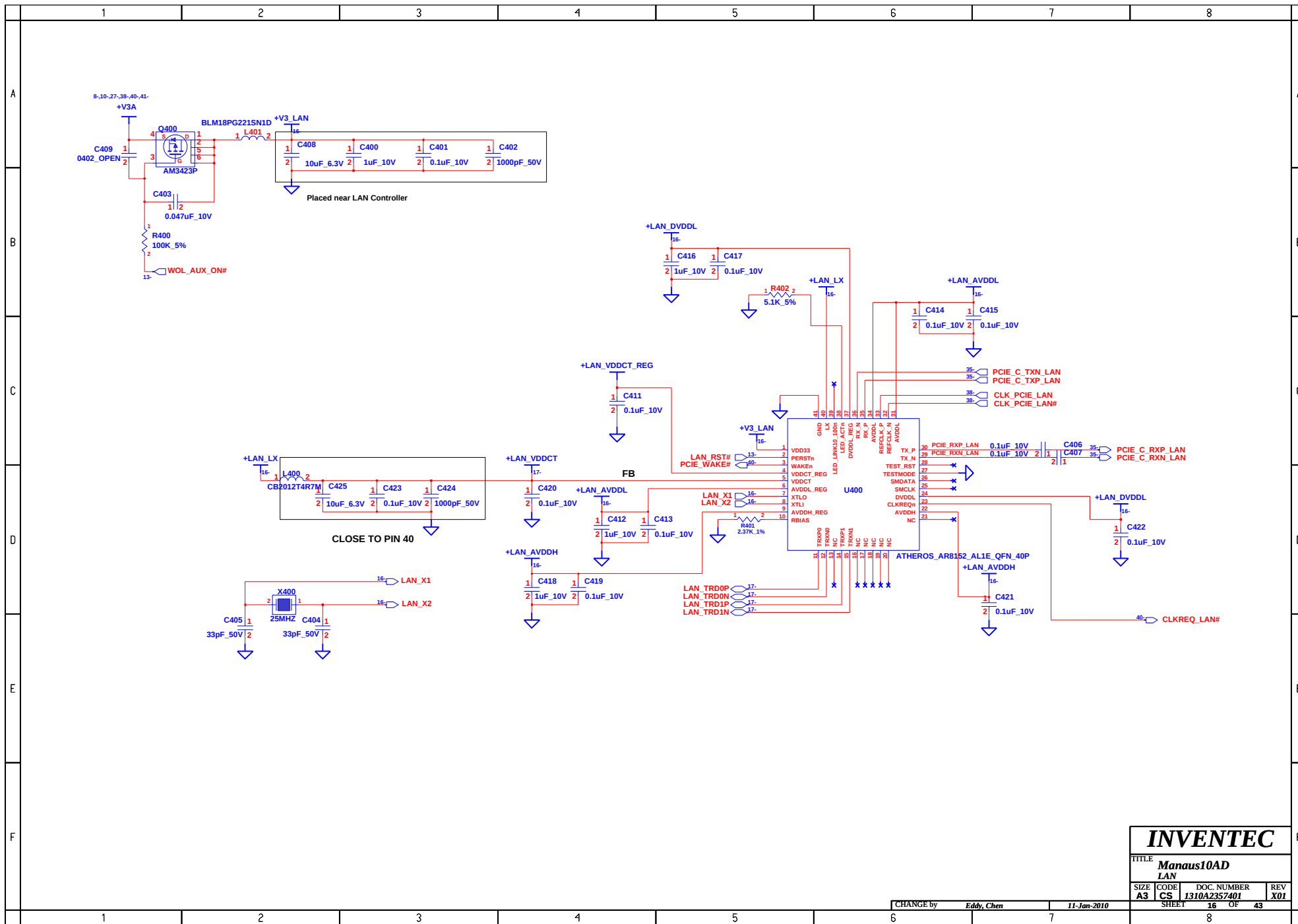
Hysteresis is 30C

INVENTEC

TITLE			
Manaus10AD			
FAN, Thermal controller			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01

CHANGE by Eddy, Chen 11-Jan-2010

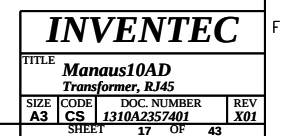
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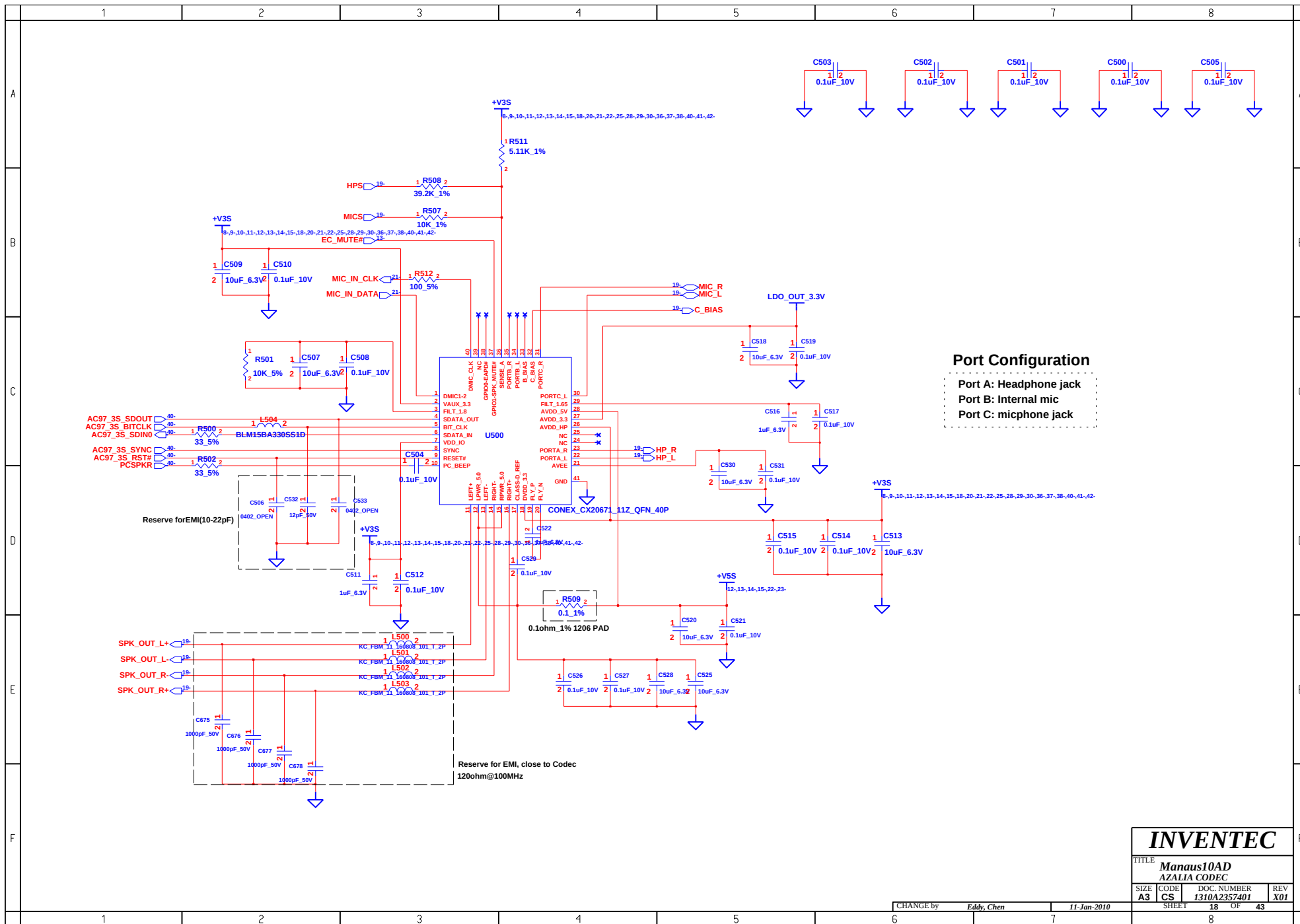


INVENTEC

TITLE			
Mana10AD			
LAN			
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CHANGE by Eddy, Chen 11-Jan-2010





INVENTEC

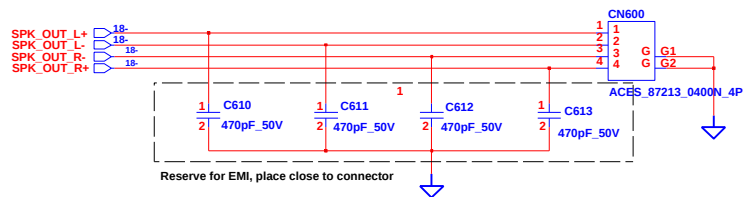
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CHANGE by *Eddy, Chen* 11-Jan-2010

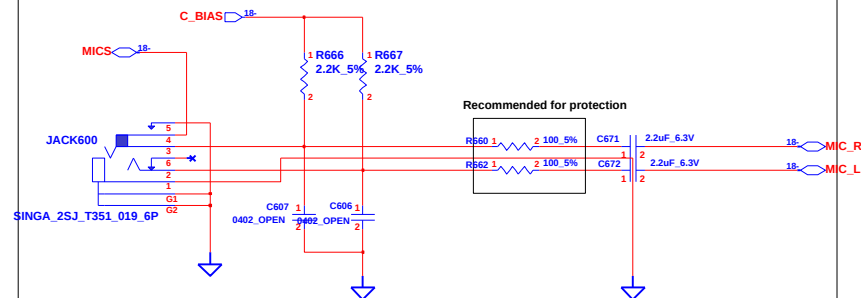
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INTERNAL SPEAKERS

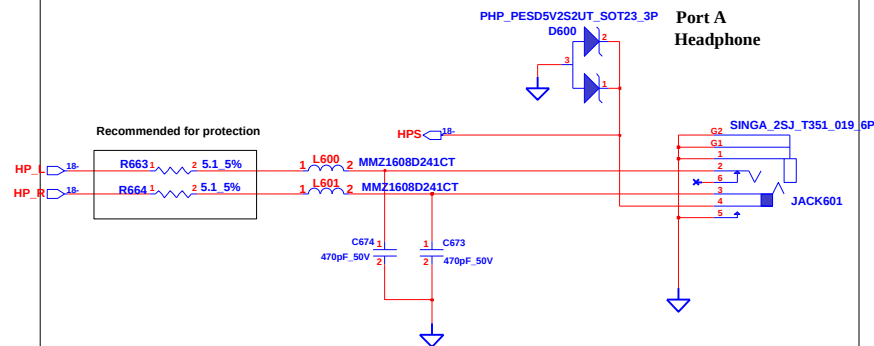


AUDIO JACKS

Port C External microphone



Port A Headphone

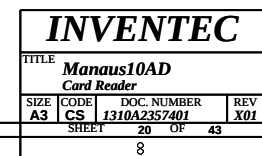


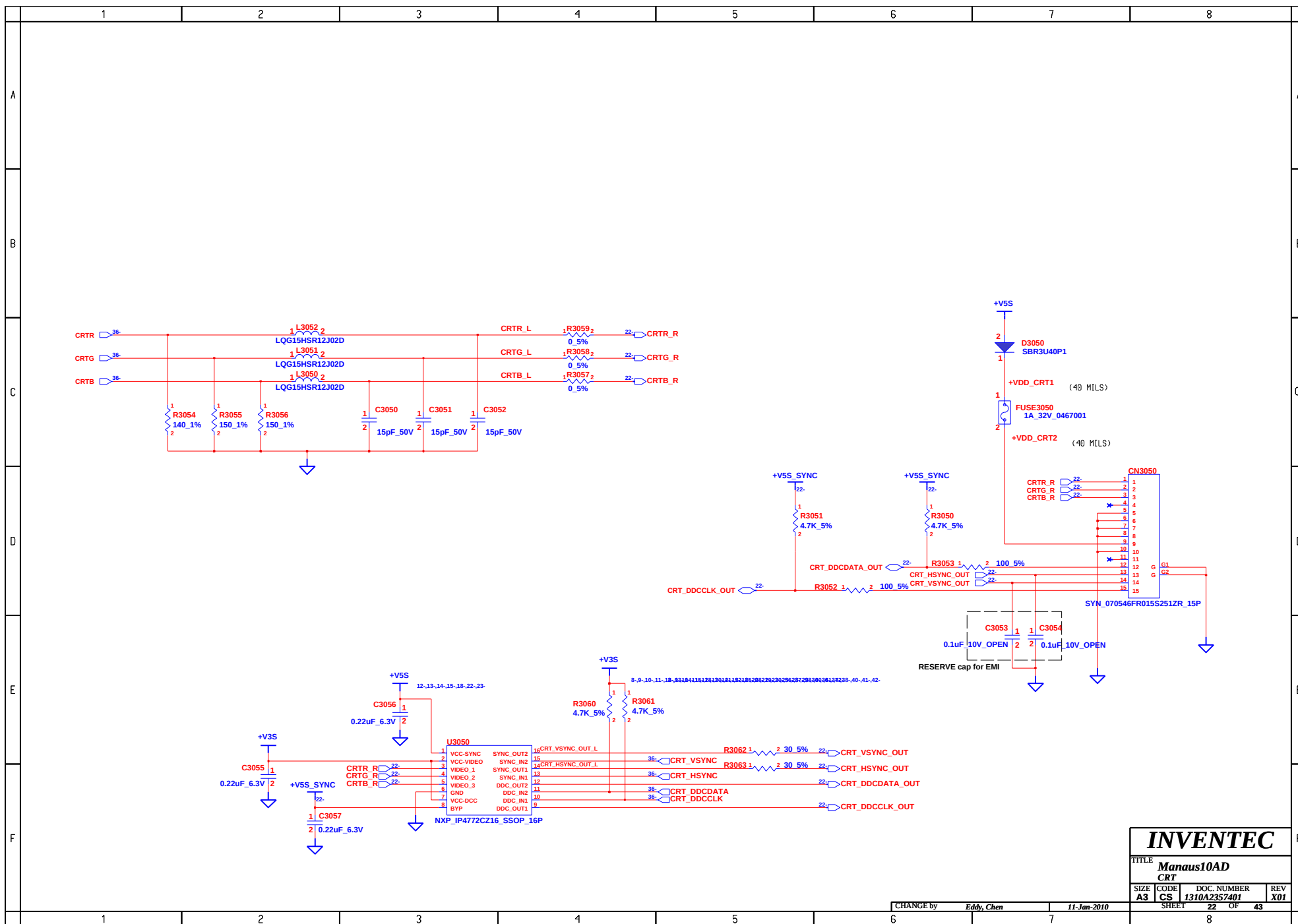
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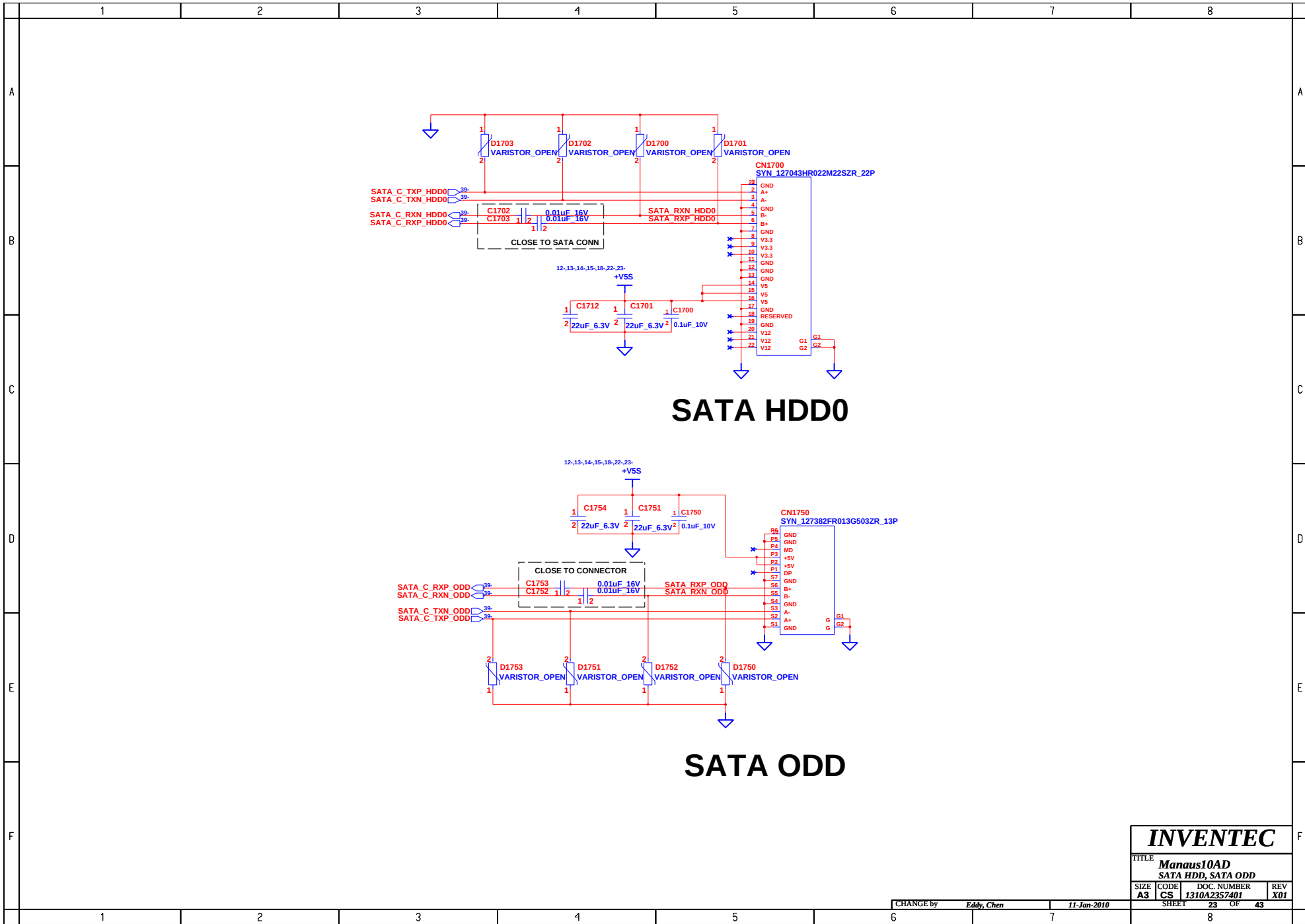
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Manaus10AD			
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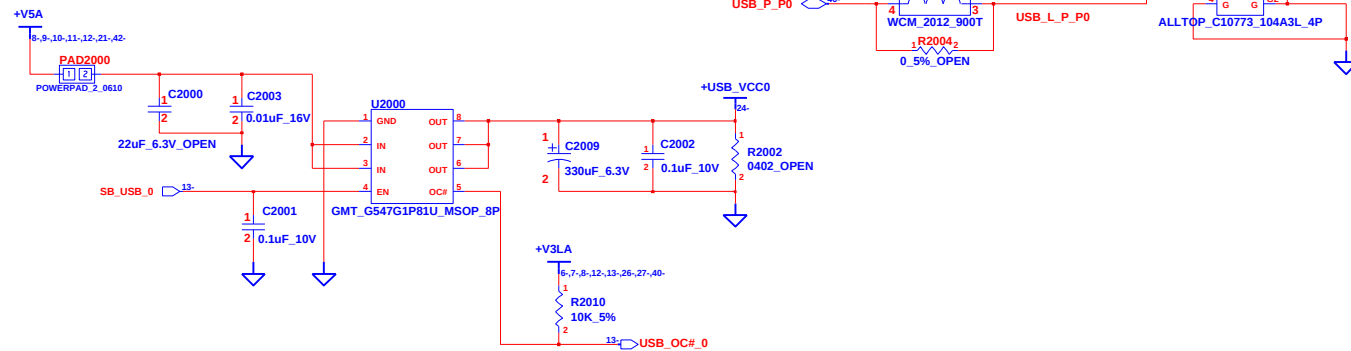
CHANGE by Eddy, Chen 11-Jan-2010

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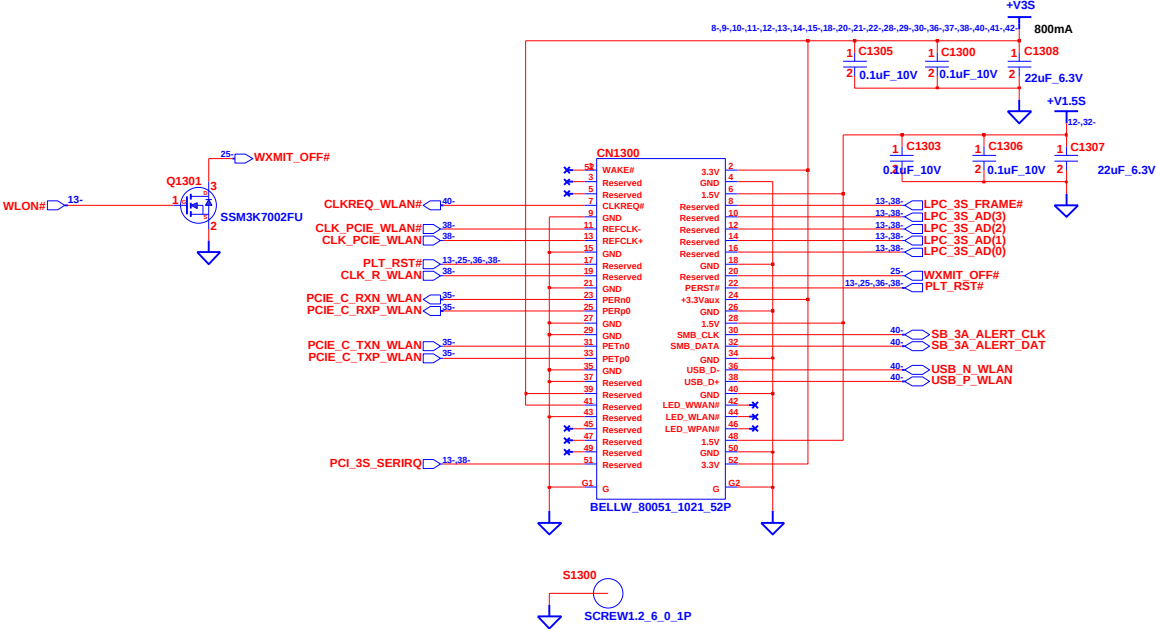




INVENTEC			
TITLE			
Manaus10AD			
e-SATA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
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Wireless & Debug card

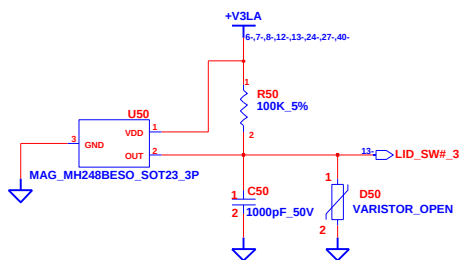


INVENTEC

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Manaus10AD			
WLAN			
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A3	CS	1310A2357401	X01
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CHANGE by Eddy, Chen 11-Jan-2010

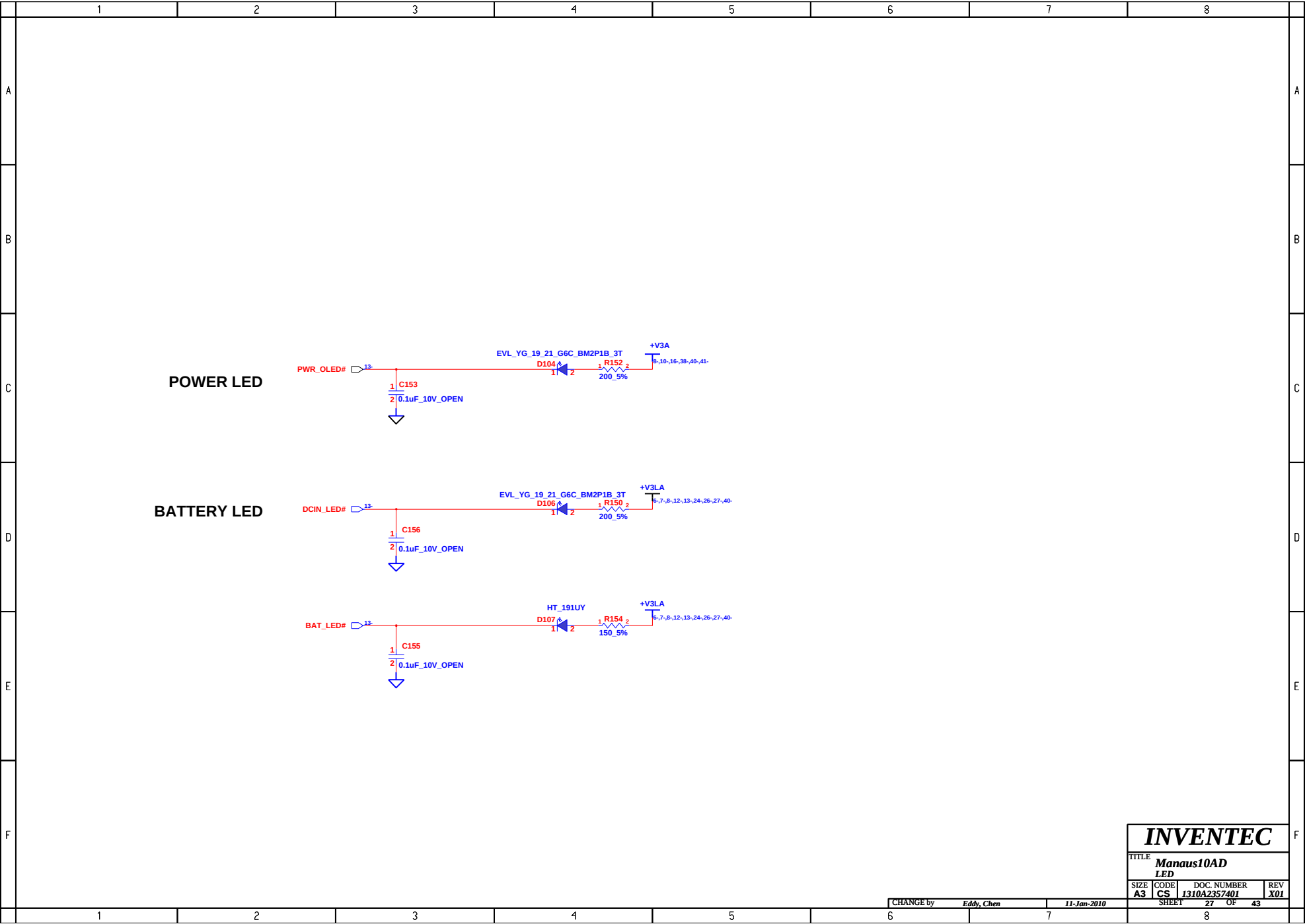
HALL SENSOR



INVENTEC

TITLE			
Manaus10AD			
HALL SENSOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
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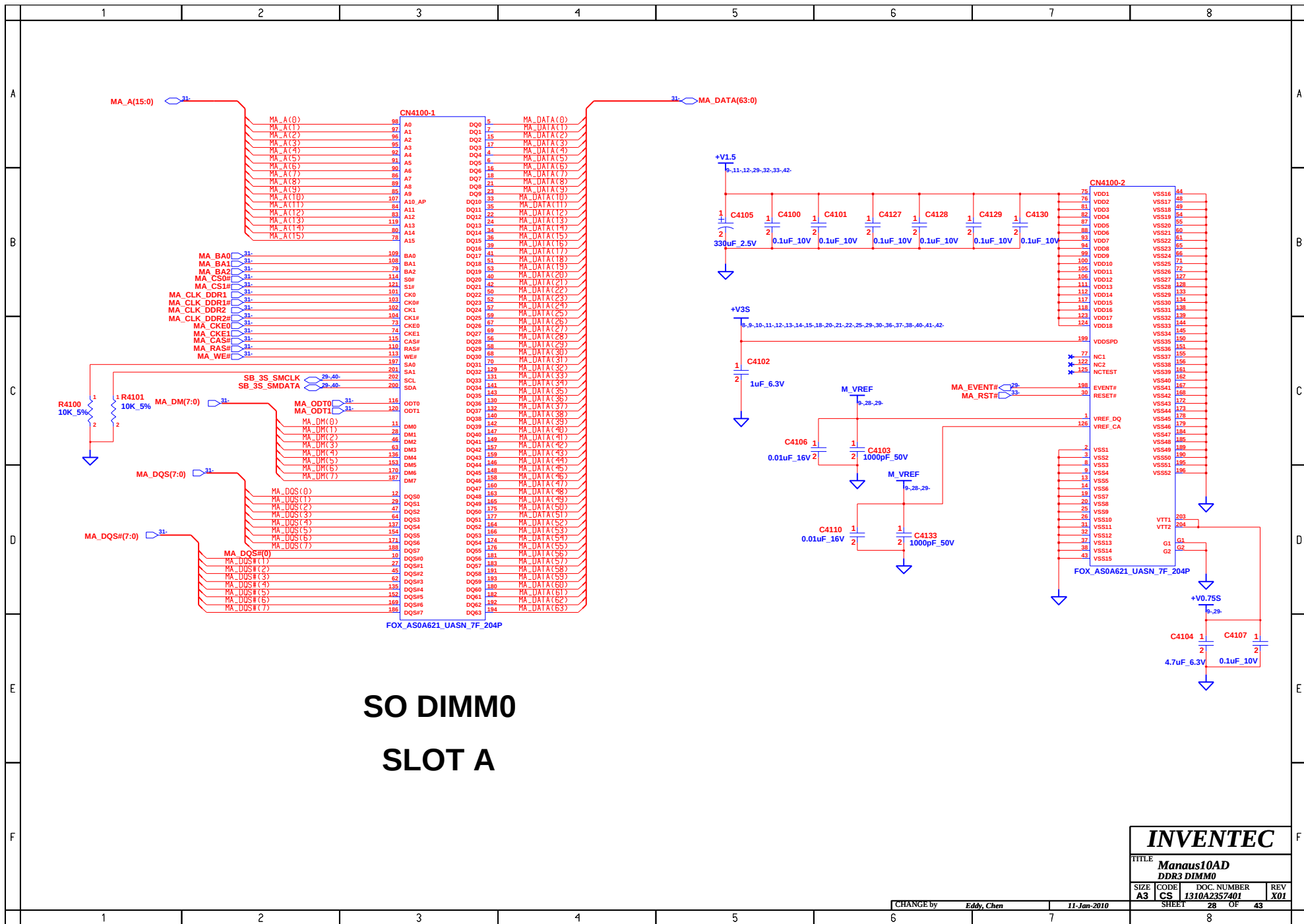
CHANGE by Eddy, Chen 11-Jan-2010



INVENTEC

TITLE
Manaus10AD
LED

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01



SO DIMM0
SLOT A

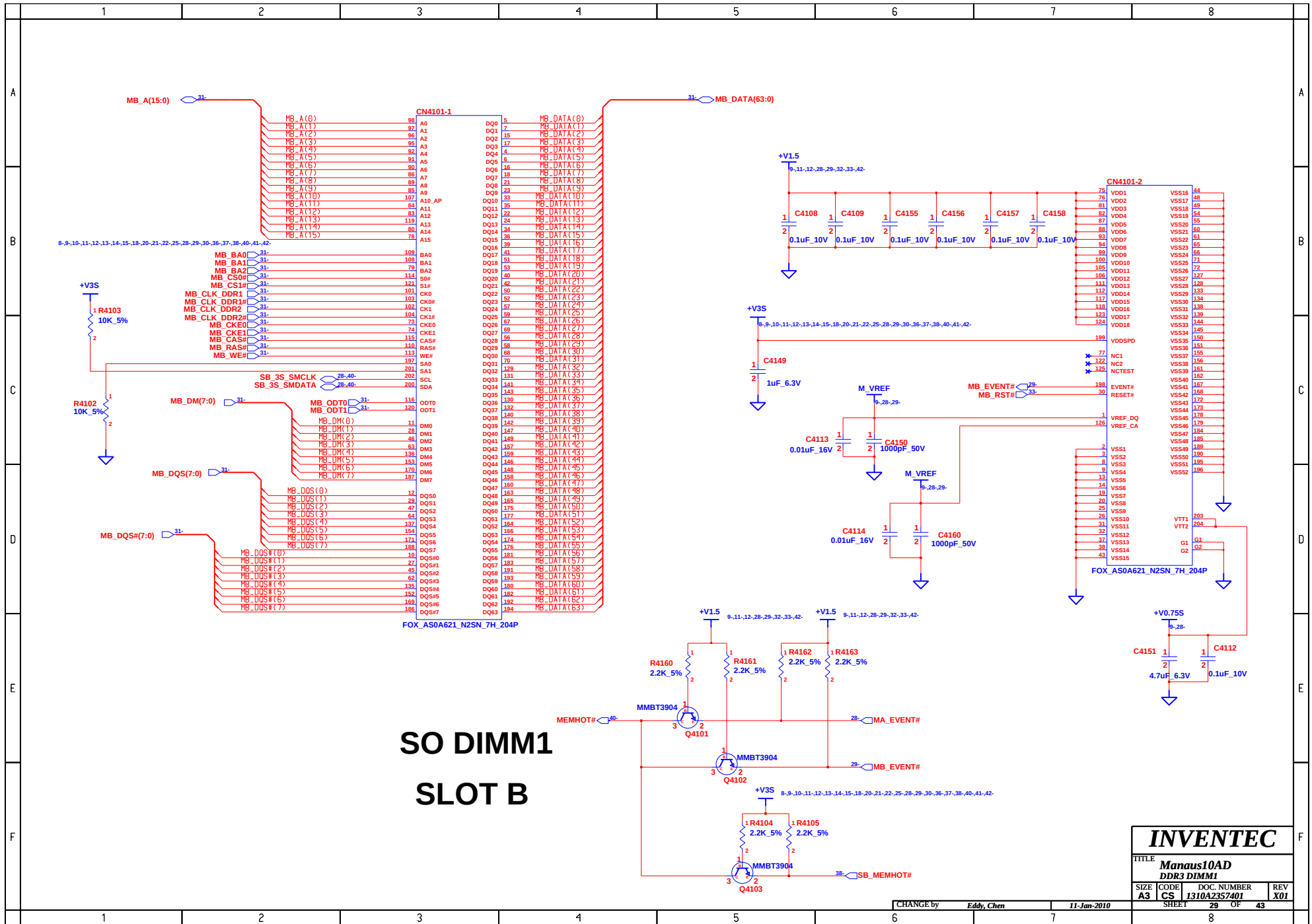
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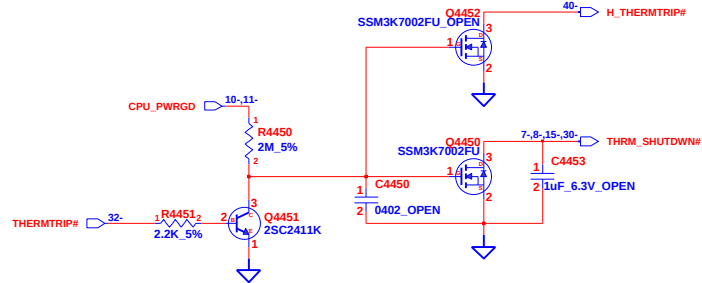
TITLE
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DDR3 DIMM0

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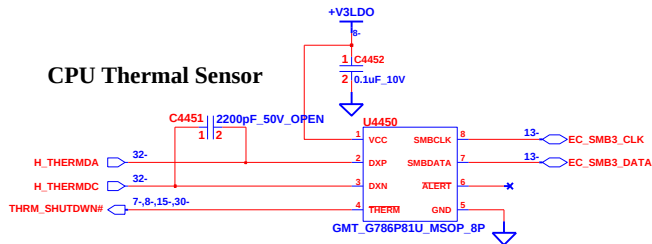
CHANGE by Eddy, Chen 11-Jan-2010

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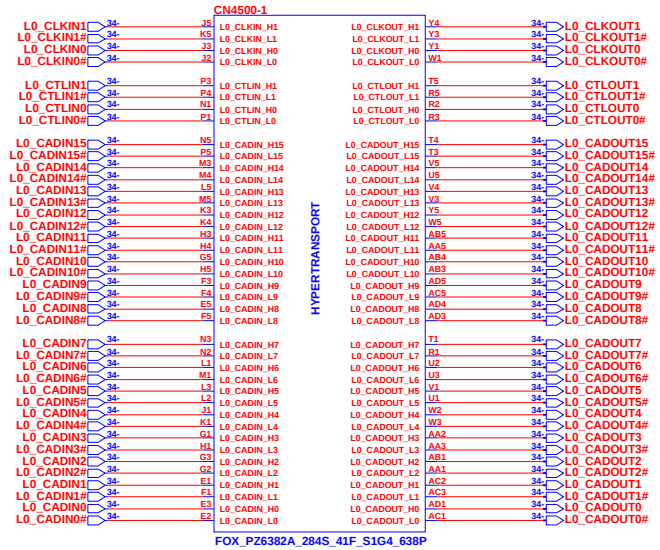
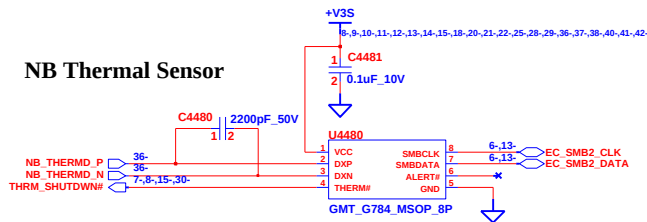




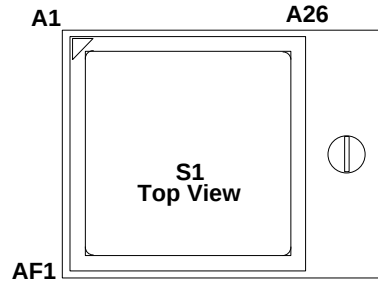
CPU Thermal Sensor



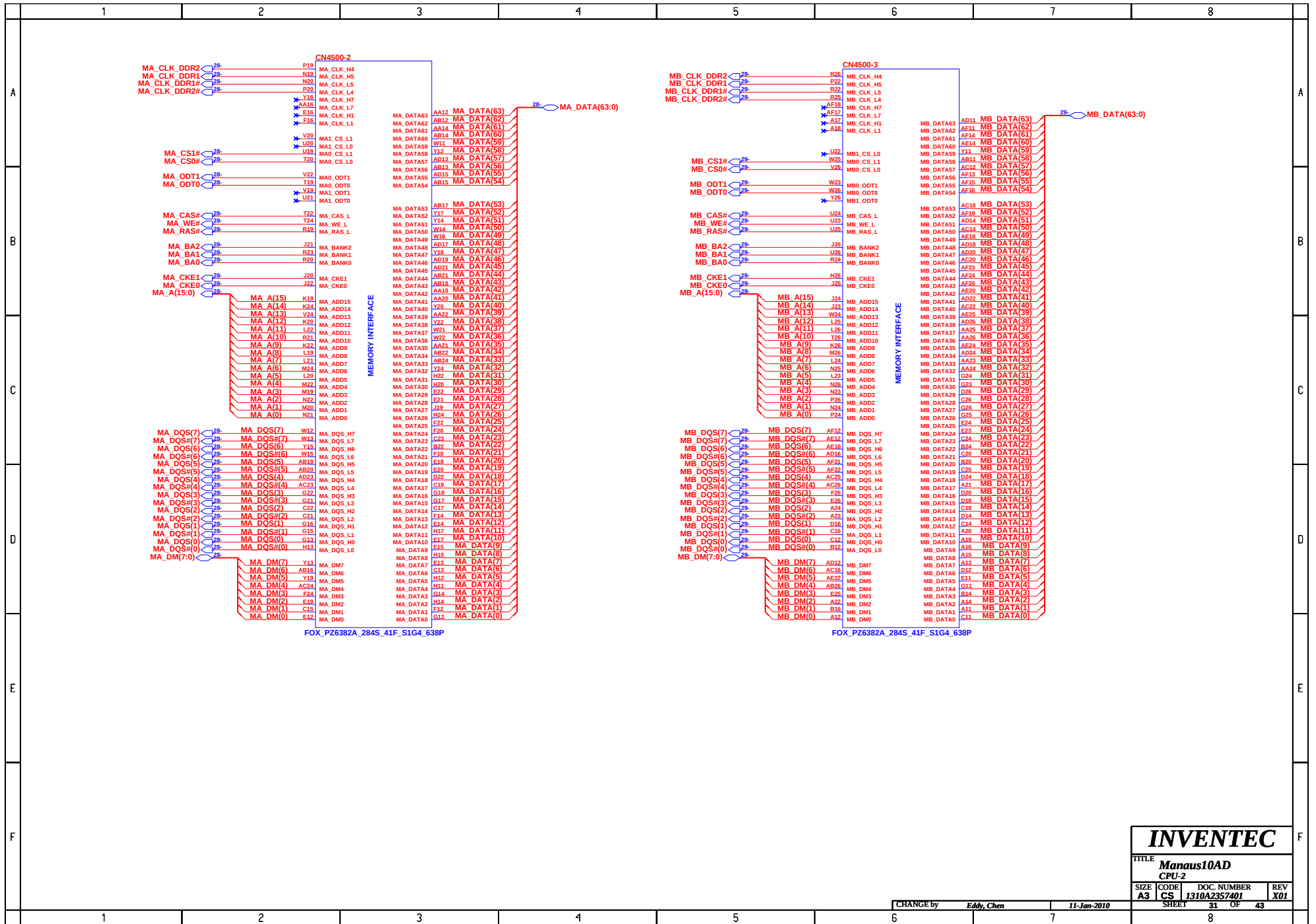
NB Thermal Sensor



Layout: Add stitching caps if crossing plane split.



INVENTEC			
TITLE			
Manaus10AD			
CPU-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
CHANGE by		11-Jan-2010	
Eddy, Chen			
SHEET		30	OF 43



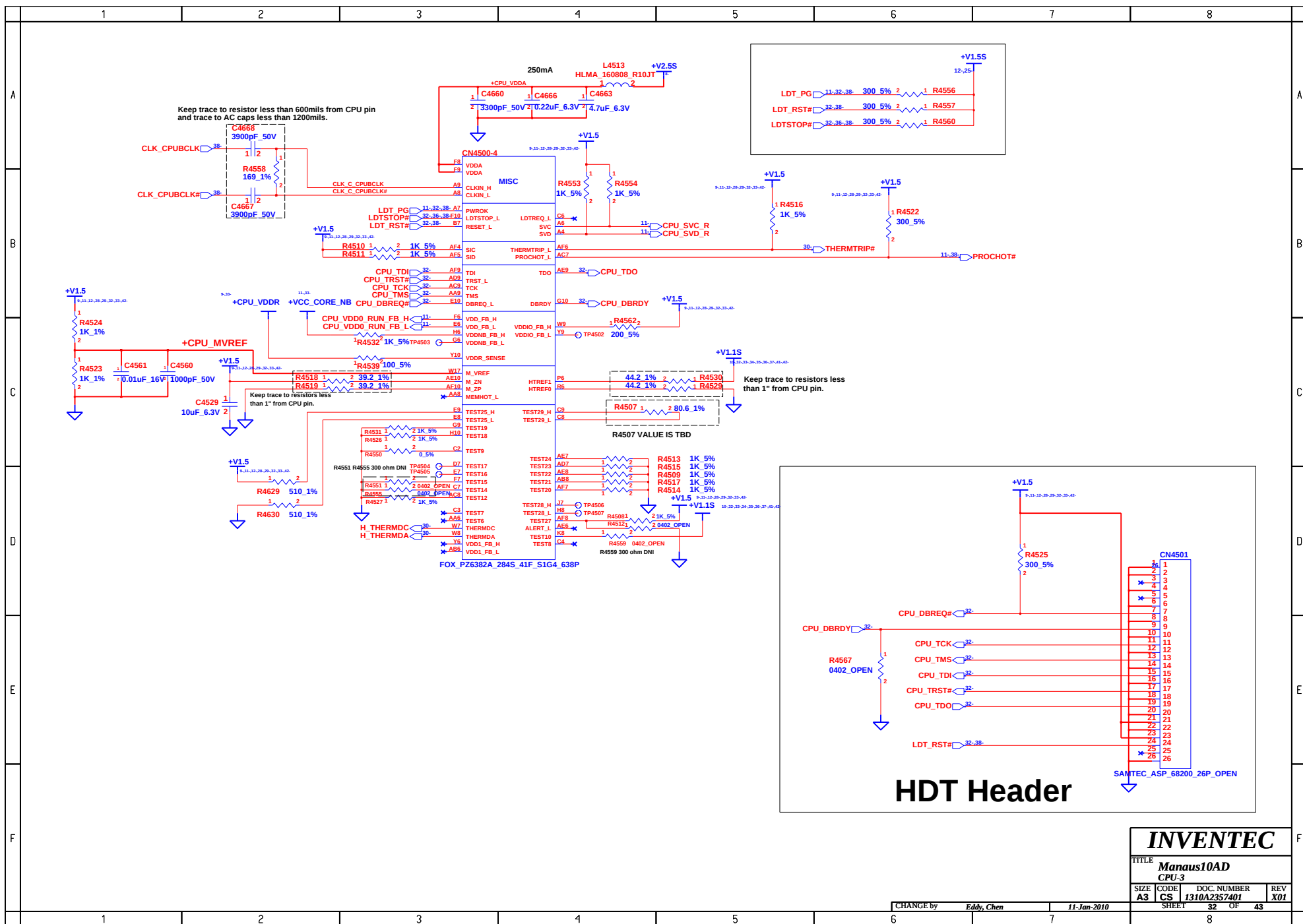
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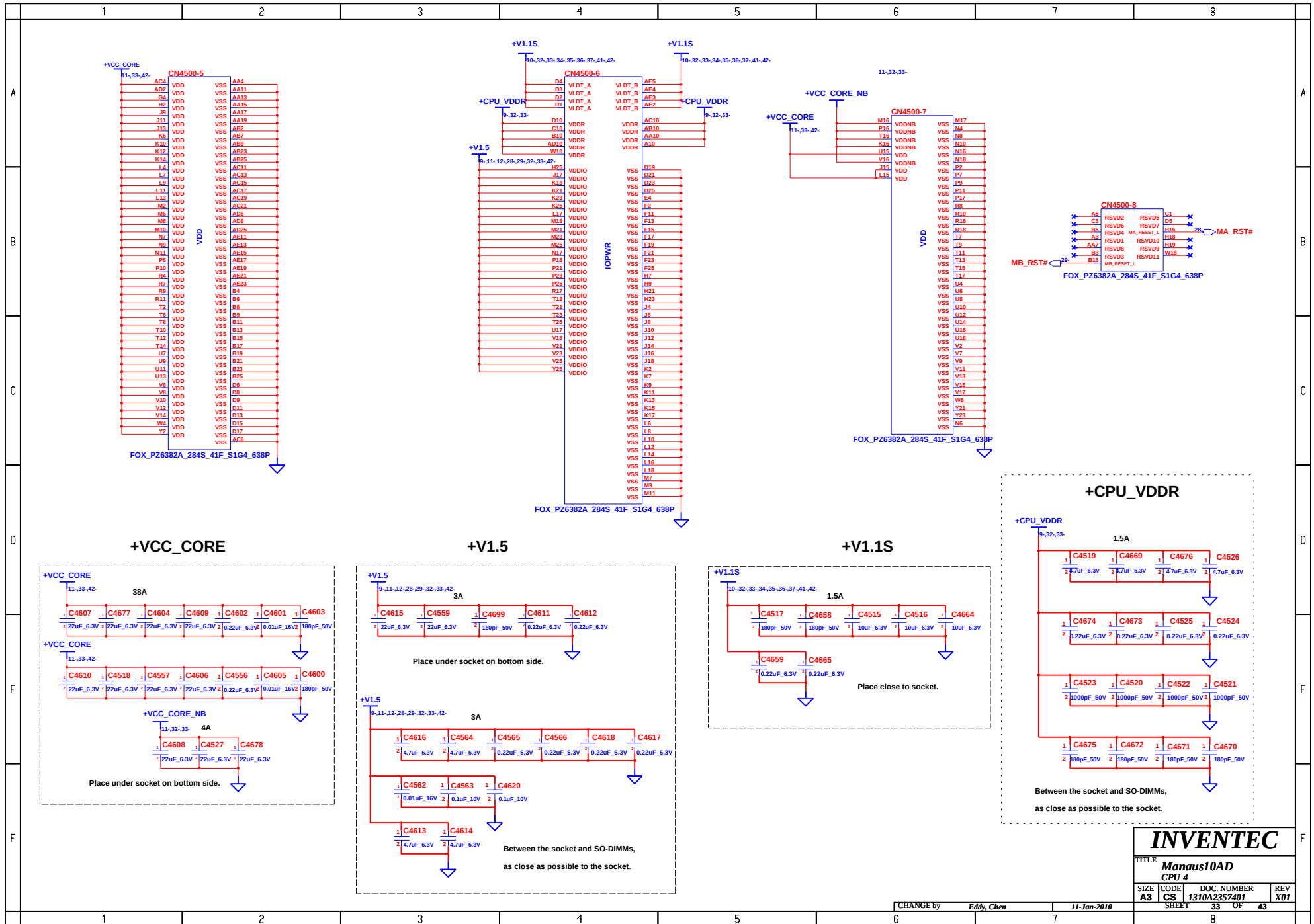
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**Manaus10AD
CPU-2**

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by Eddy, Chen 11-Jan-2010

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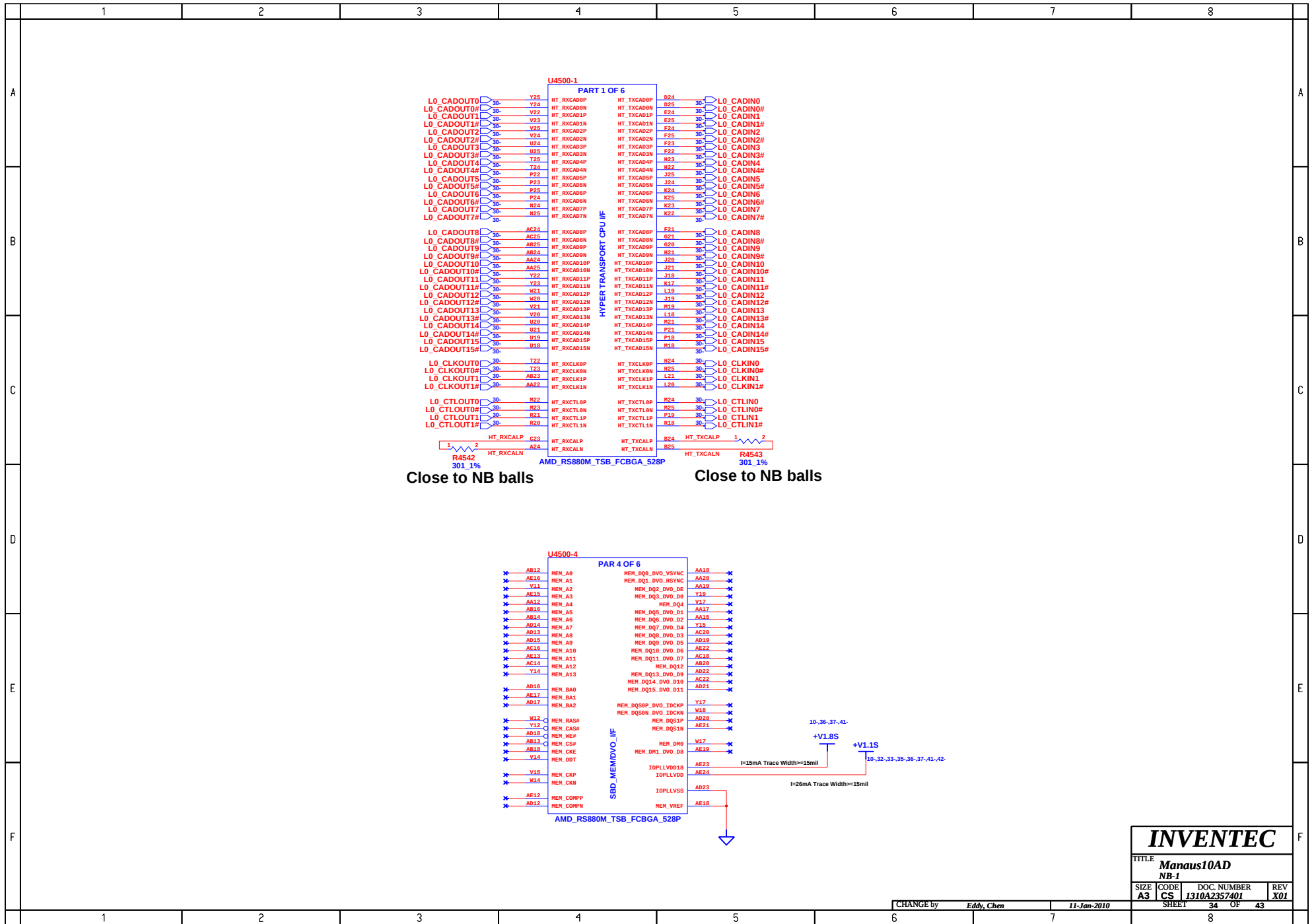


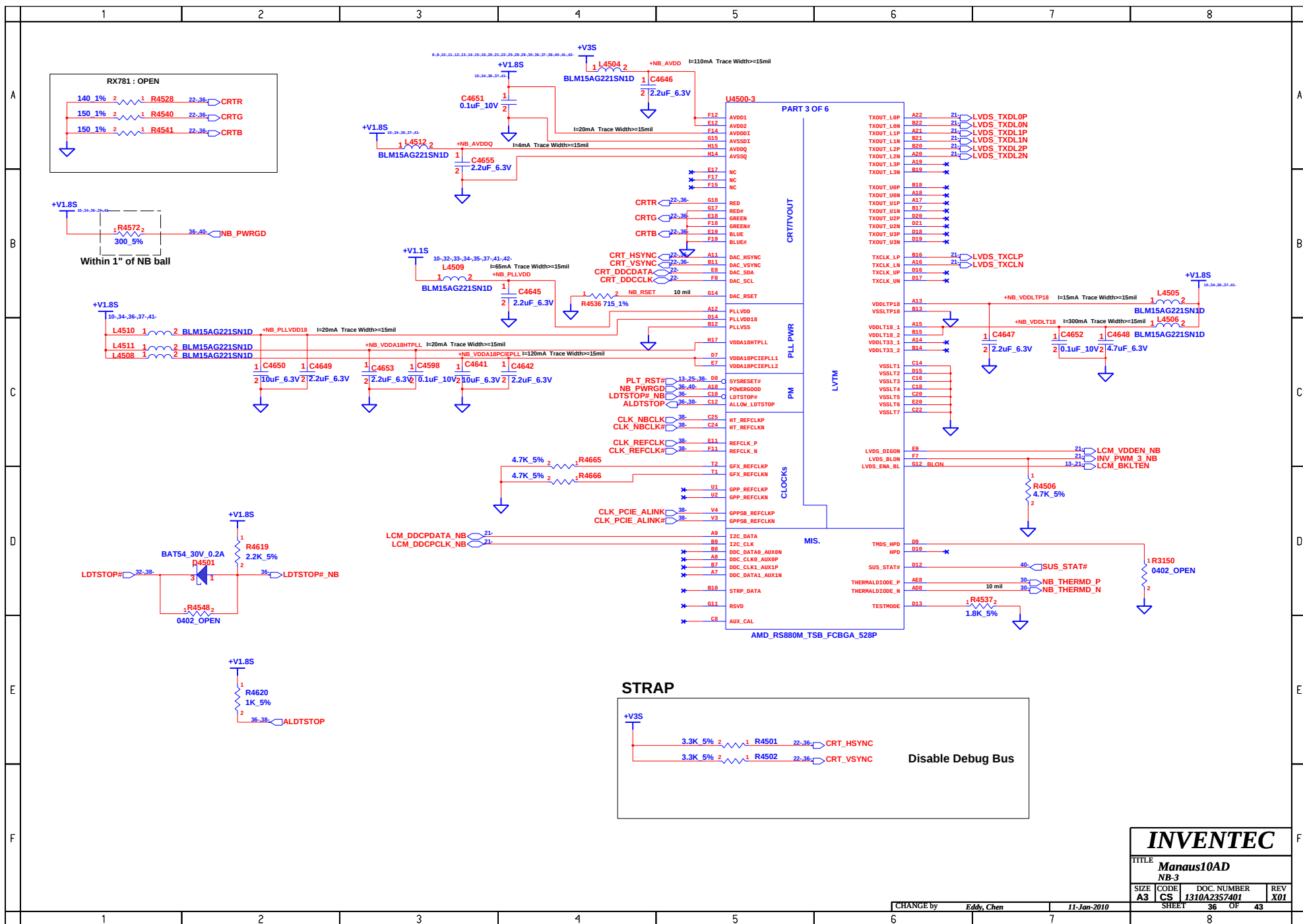


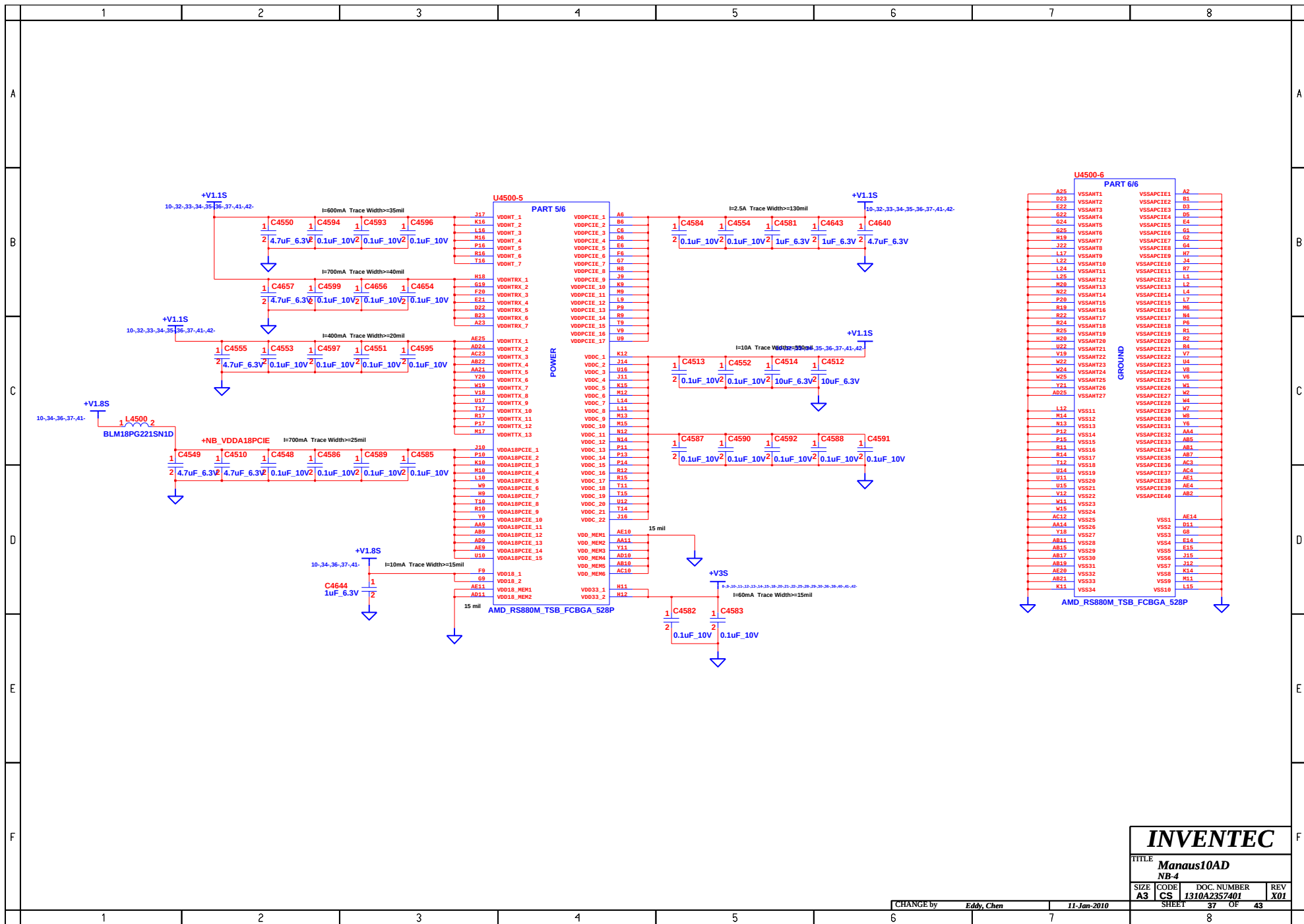
INVENTEC

TITLE Mana10AD CPU-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A2357401	REV X01
SHEET 33		OF 43	

CHANGE by **Eddy, Chen** 11-Jan-2010



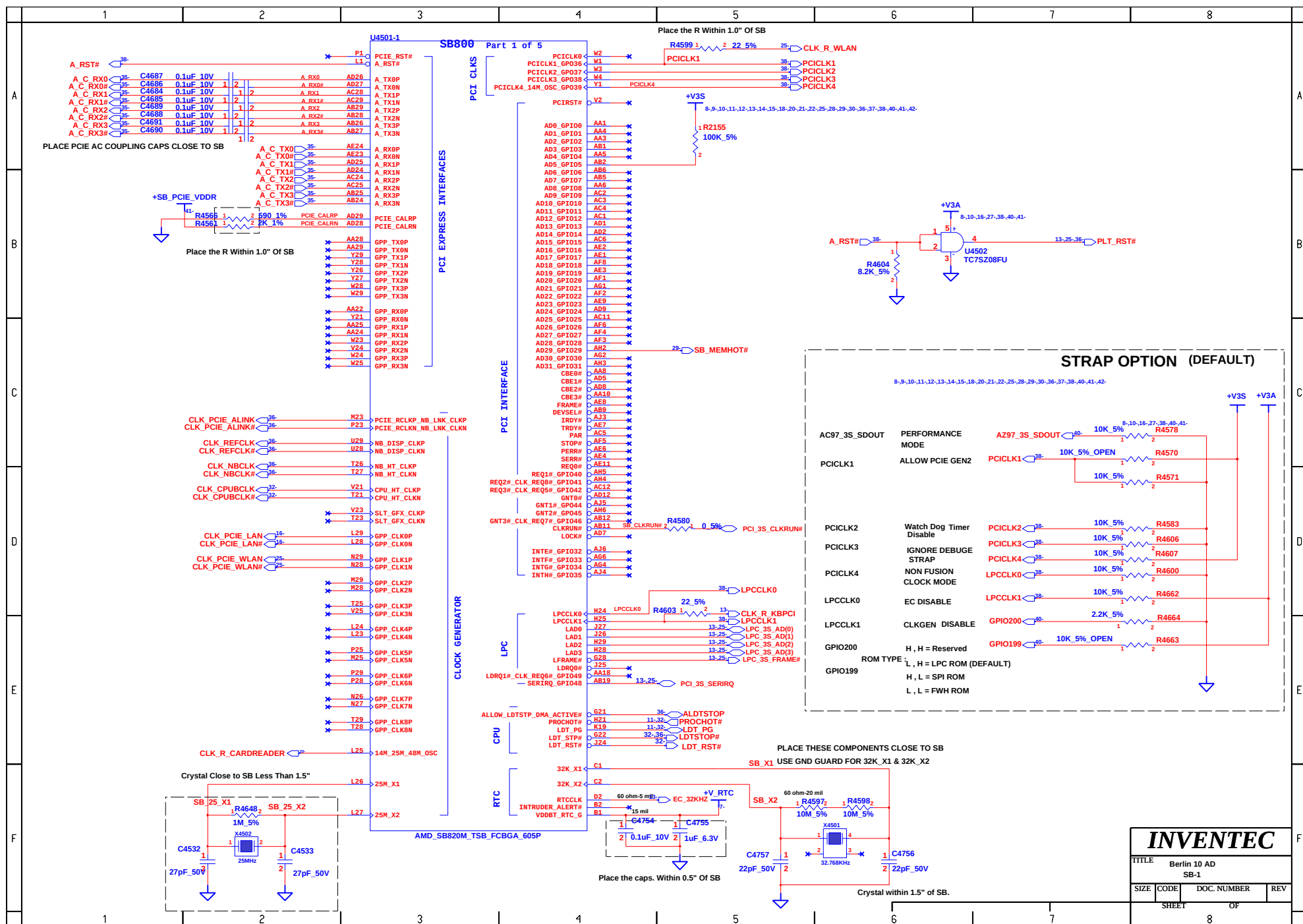


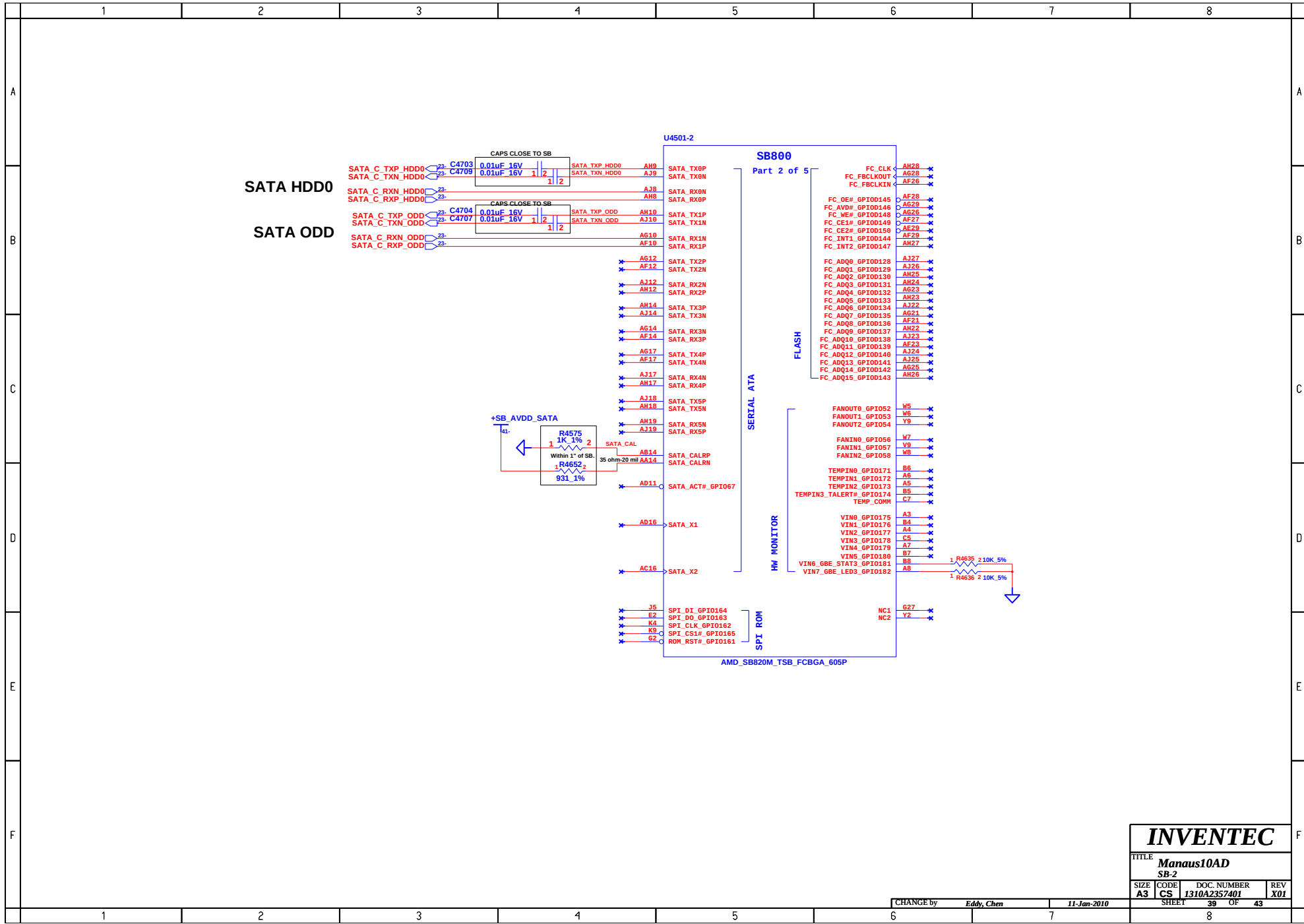


INVENTEC

TITLE			
Manaus10AD			
NB-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01

CHANGE by	Eddy, Chen	11-Jan-2010
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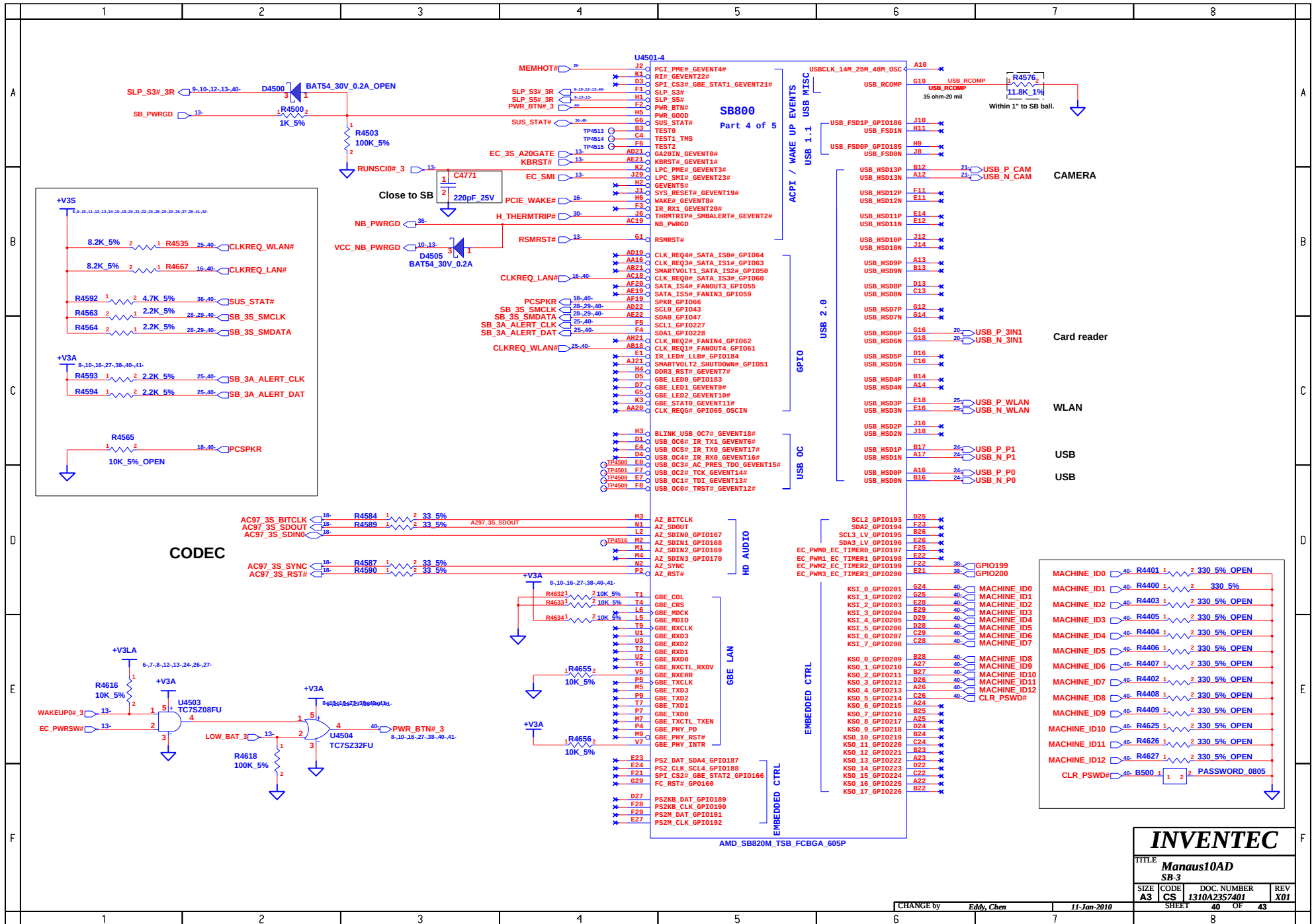


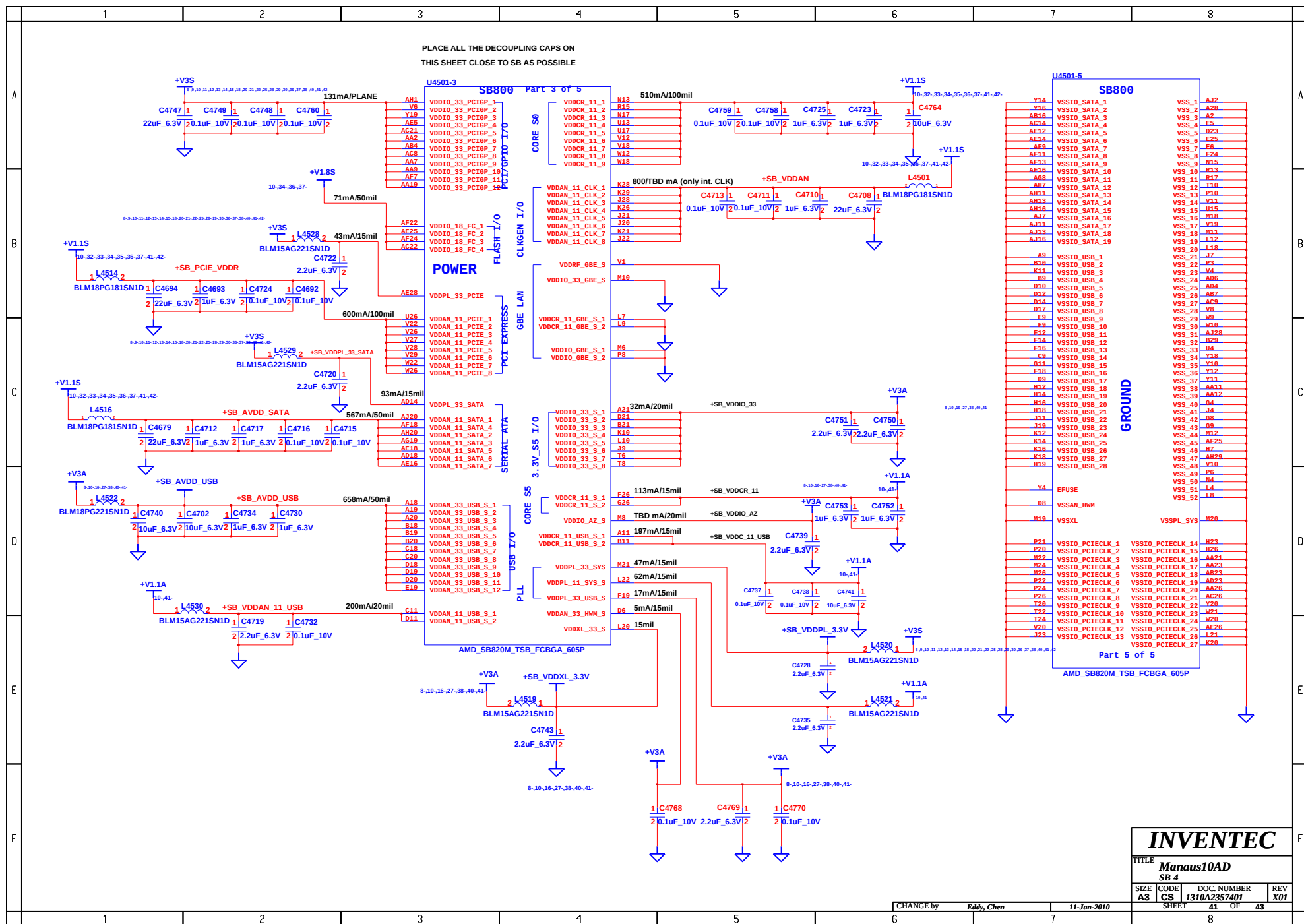
INVENTEC

TITLE
Manaus10AD
SB-2

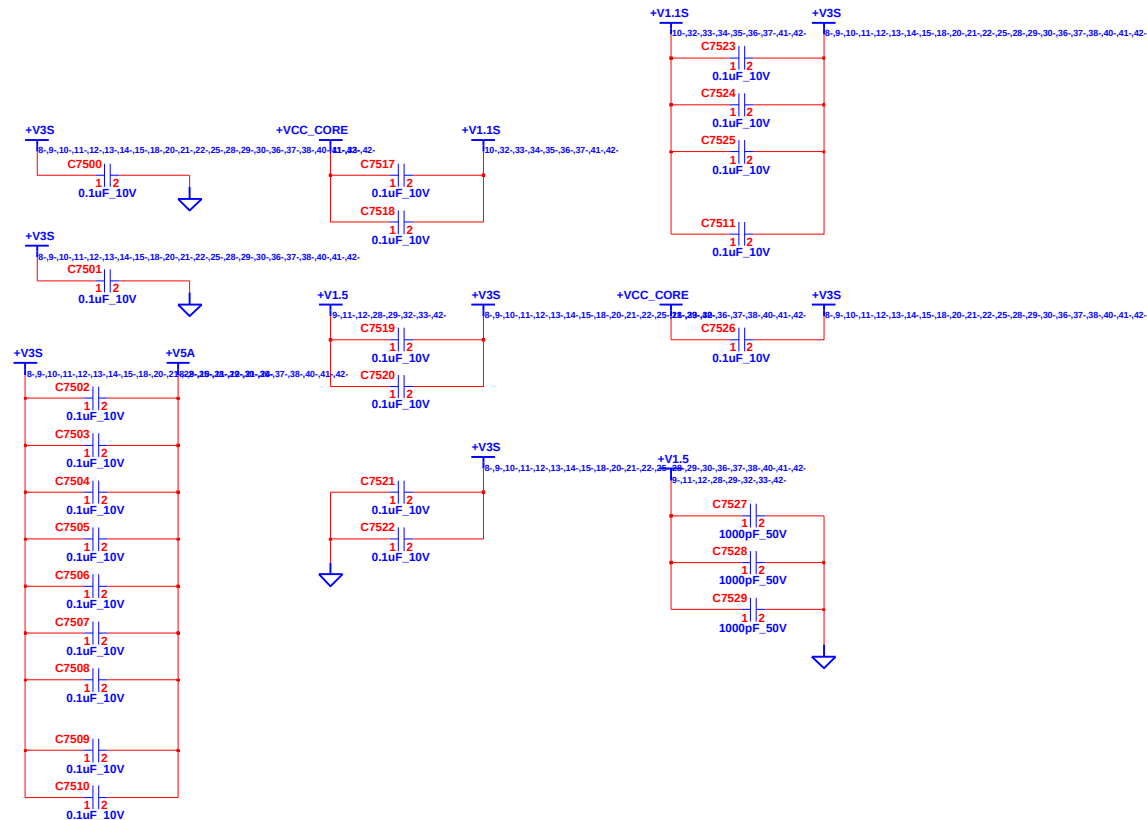
SIZE A3	CODE CS	DOC. NUMBER 1310A2357401	REV X01
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CHANGE by **Eddy, Chen** 11-Jan-2010





EMI

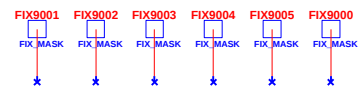
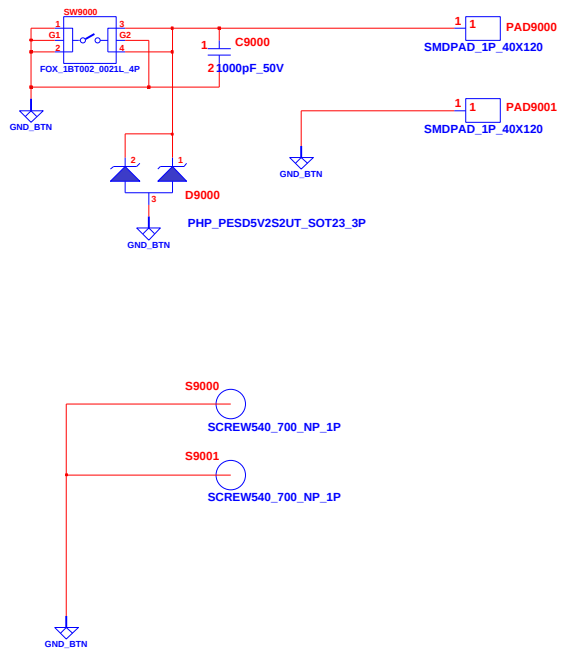


INVENTEC

TITLE			
Manaus10AD			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2357401	X01
SHEET		42	OF 43

CHANGE by Eddy, Chen 11-Jan-2010

POWER BUTTON



INVENTEC

TITLE
Manaus10AD
Pick Button Board

SIZE A3	CODE CS	DOC. NUMBER 1310A2357401	REV X01
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CHANGE by *Eddy, Chen* 16-Mar-2010

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