

	1	2	3	4	5	6	7	8	
A									A
B									B
C	Manaus10AB\ABG								C
D	X01 Build								D
E	2010.08.02								E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10AD			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
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CHANGE by Devin Hsieh 2-Aug-2010

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23. SATA HDD & ODD
24. USB
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26. LID SW
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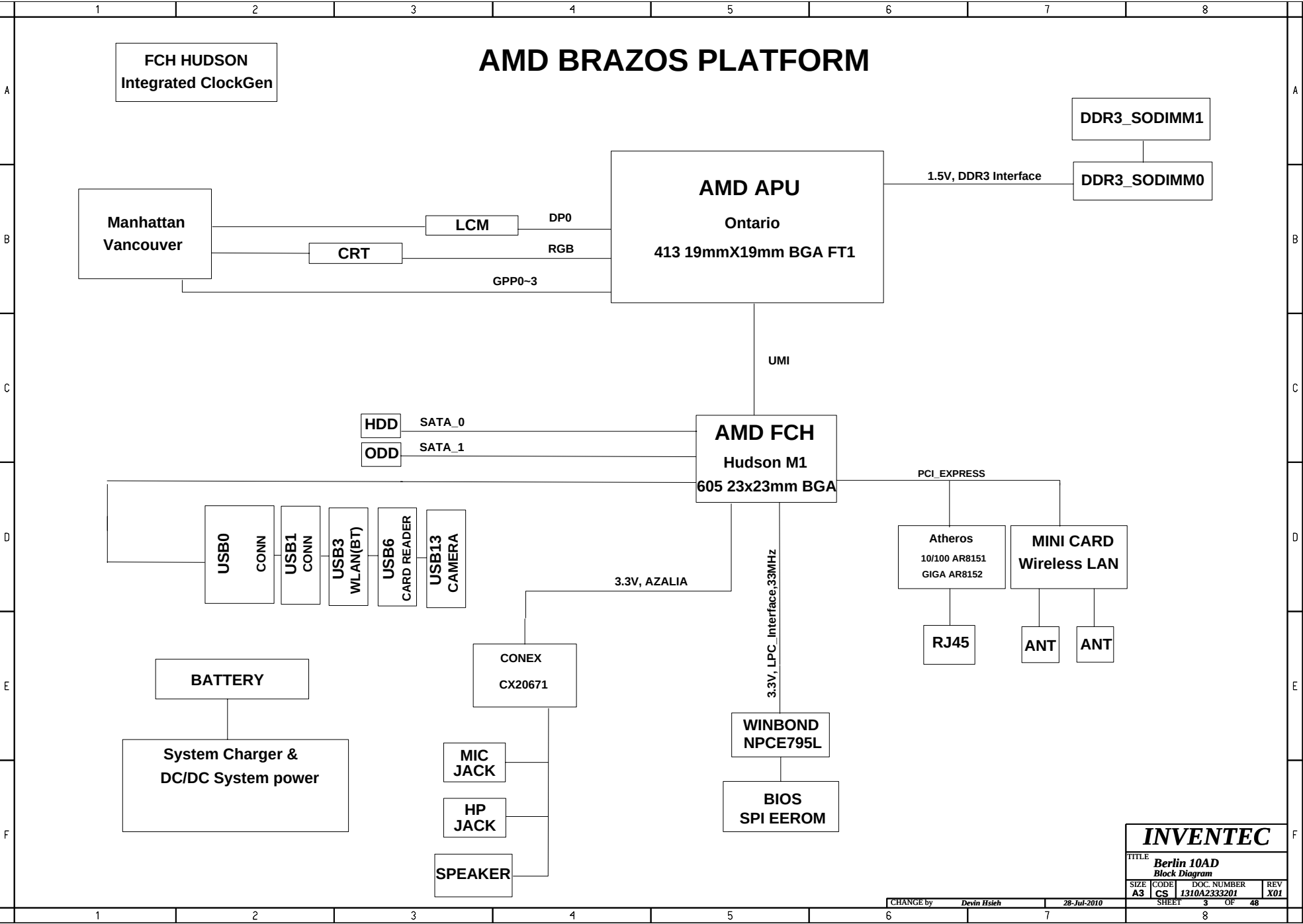
PAGE

28. DDR2 DIMM0
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33. APU-4
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INVENTEC

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Berlin 10AD			
Index			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
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CHANGE by **Devin Hsieh** 28-Jul-2010



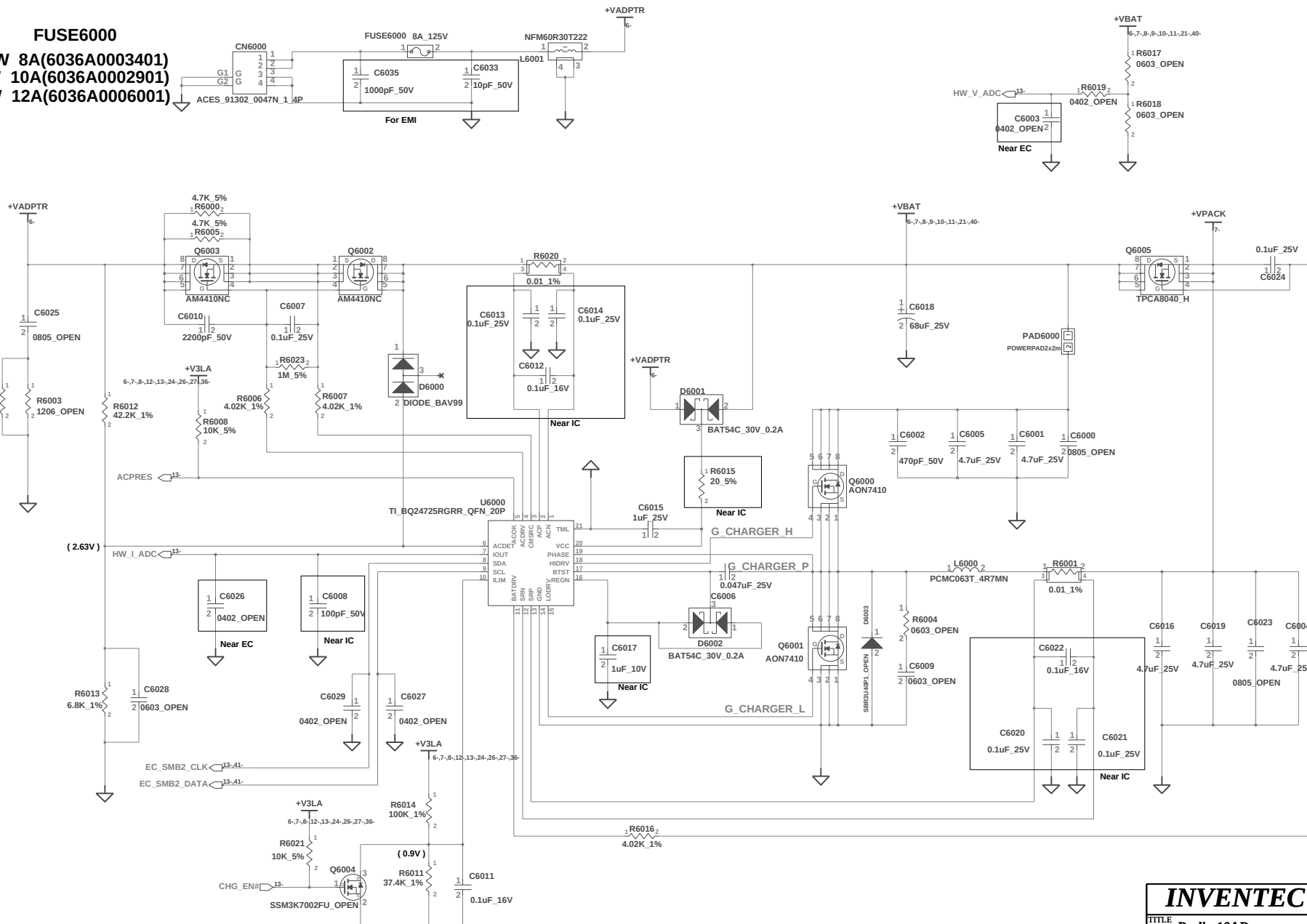
	1	2	3	4	5	6	7	8	
A	Update by power budget								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Berlin 10AD <i>Power Sequence Block</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
CHANGE by <i>Devin Hsieh</i>		2-Nov-2009	
SHEET 4		OF 48	



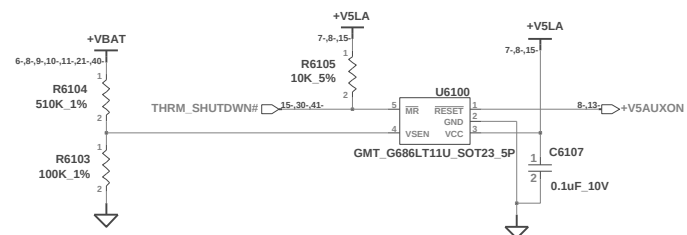
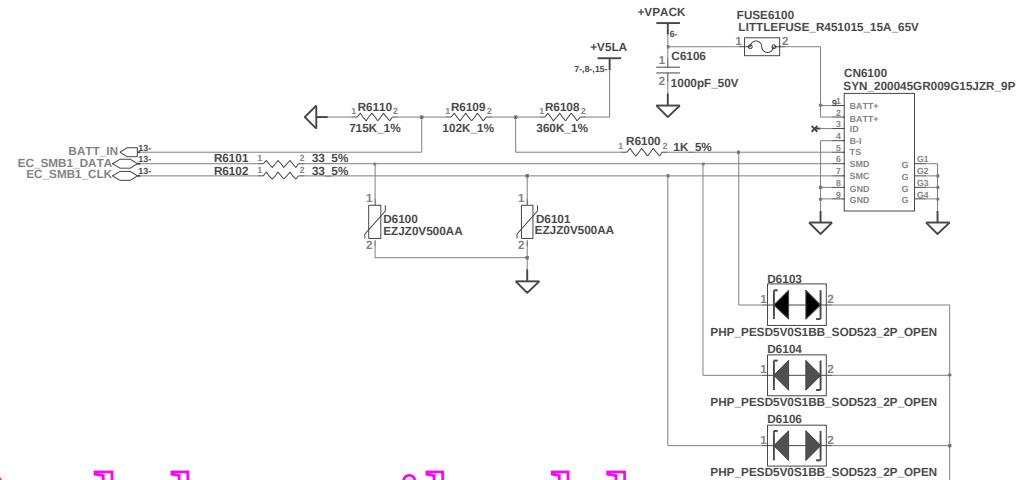
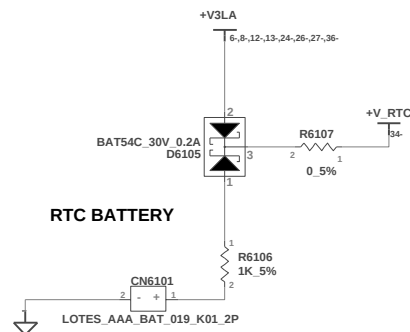
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TITLE Berlin 10AD PCB			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
CHANGE by Devin Hsieh		28-Jul-2010	
		SHEET 5 OF 48	

FUSE6000
65W-75W 8A(6036A0003401)
90W 10A(6036A0002901)
120W 12A(6036A0006001)



INVENTEC			
TITLE			
Berlin 10AD			
Charger			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
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		8	

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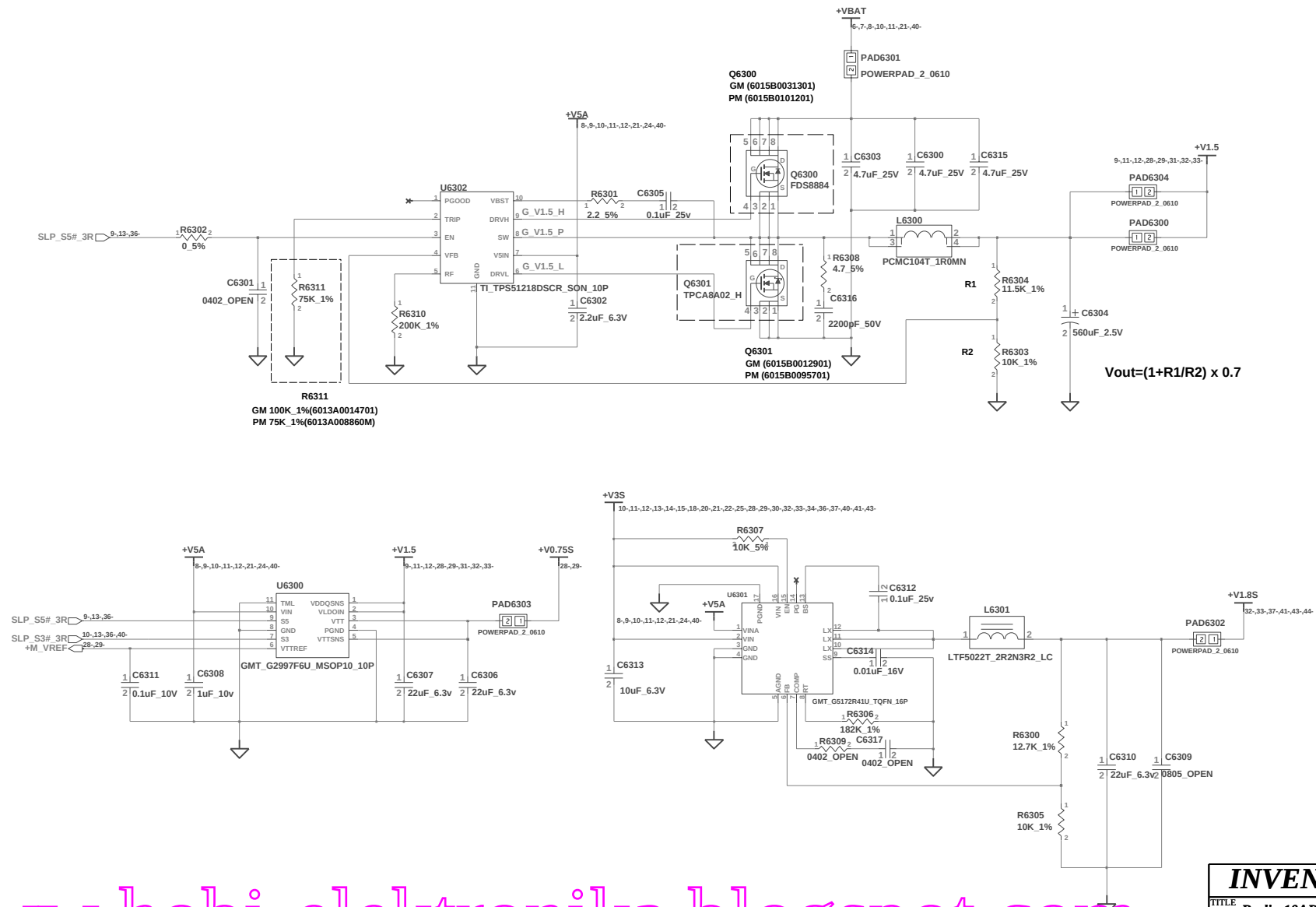
INVENTEC

TITLE
Berlin 10AD
Battery, Reset IC

SIZE A3	CODE CS	DOC NUMBER 1310A2333201	REV X01
SHEET 7		OF 48	

CHANGE by **Devlin Hsieh** 2-Nov-2009

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



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INVENTEC			
TITLE			
Berlin 10AD			
+CPU_VDDR, +V0.75, +V1.5			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		9	OF 48

CHANGE by Devin Hsieh 2-Nov-2009

+V1.1A +V1S +V1.1S

+V3S +V5A +V1.1S

INVENTEC

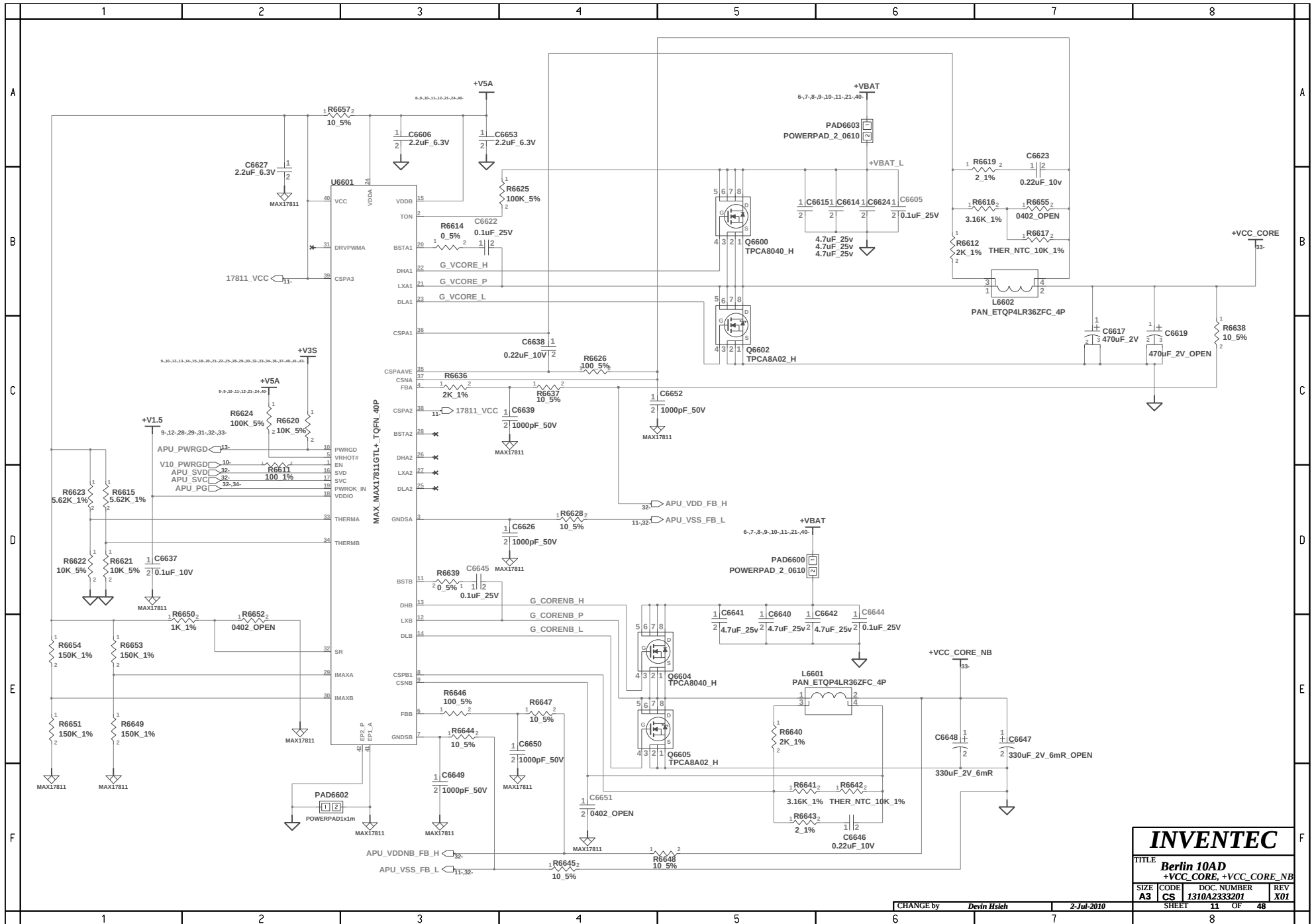
TITLE
Berlin 10AD
+V1.1A, +V1.1S, +V1.8S

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01

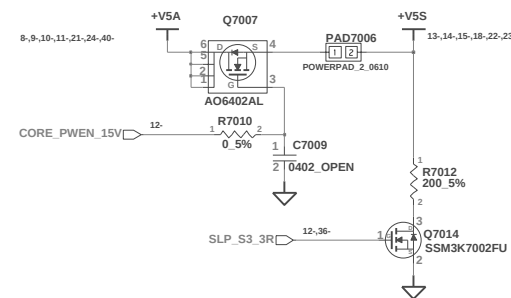
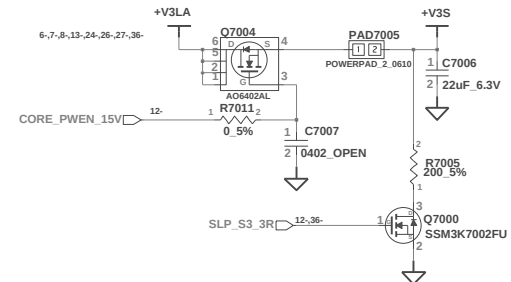
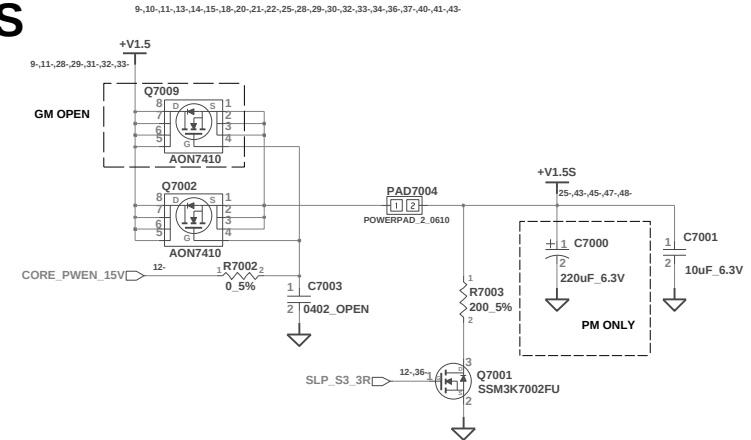
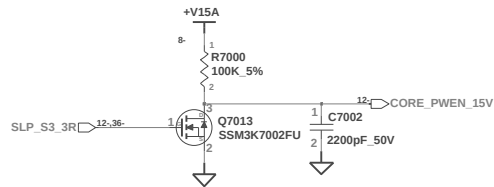
CHANGE by Devin Hsieh 2-Nov-2009

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TITLE			
Berlin 10AD +V1.1A, +V1.1S, +V1.8S			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
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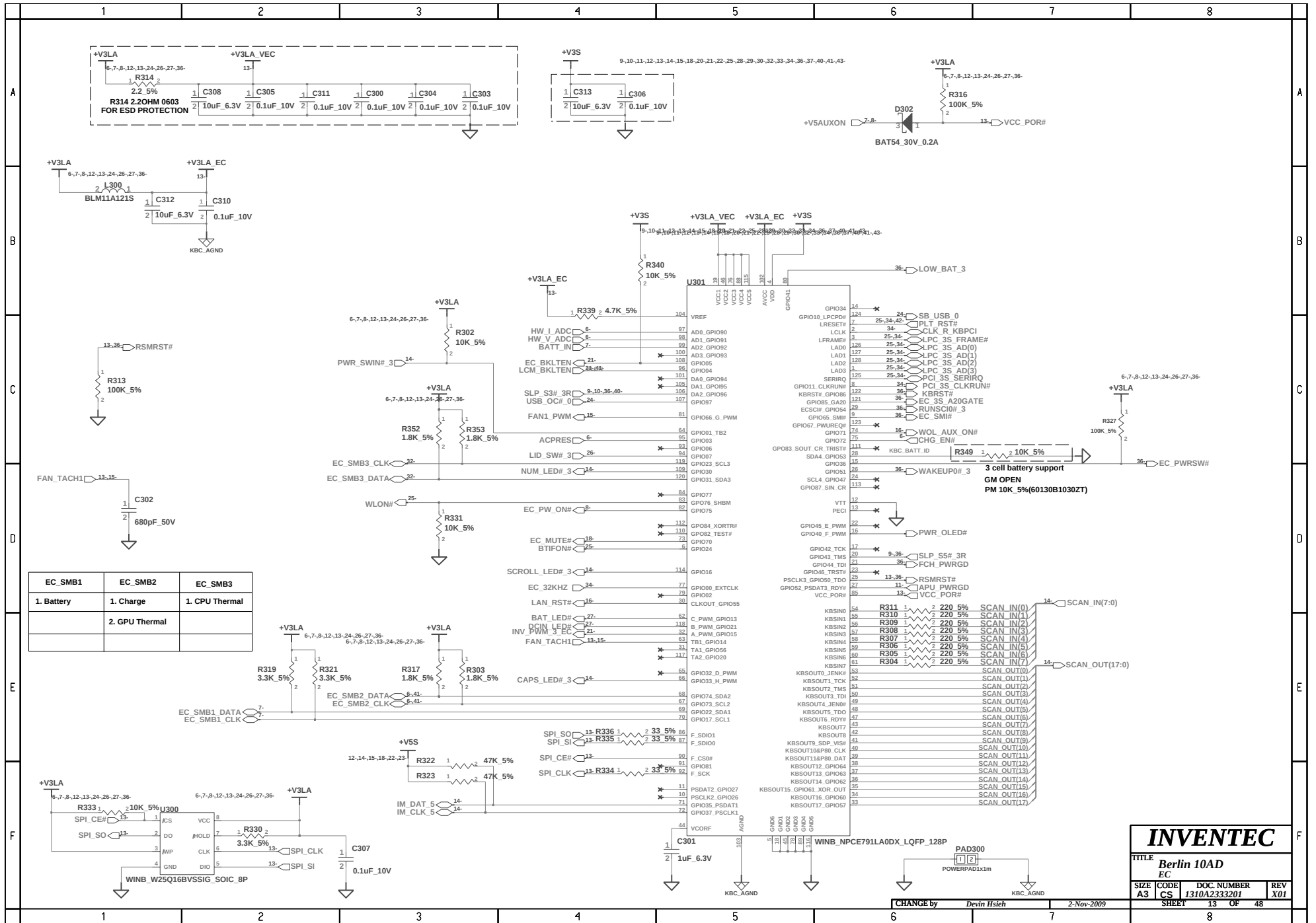
+V3 +V5S +V3S +V1.5S



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INVENTEC			
TITLE Berlin 10AD			
+V3 +V5S +V3S +V1.5S			
SIZE A3	CODE CS	DOC NUMBER 1310A2333201	REV X01
SHEET 12		OF 48	

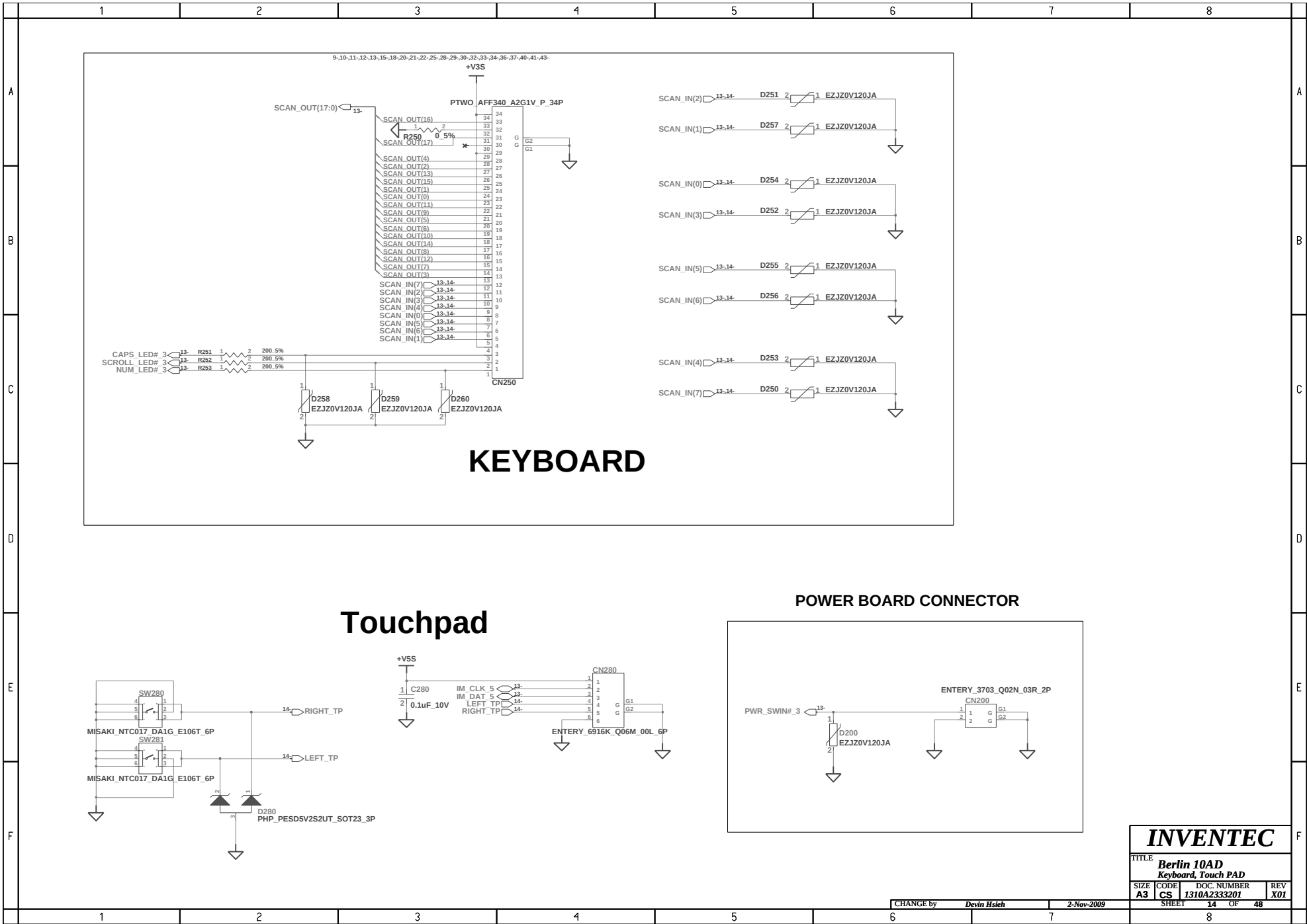
CHANGE by Devin Hsieh 2-Nov-2009

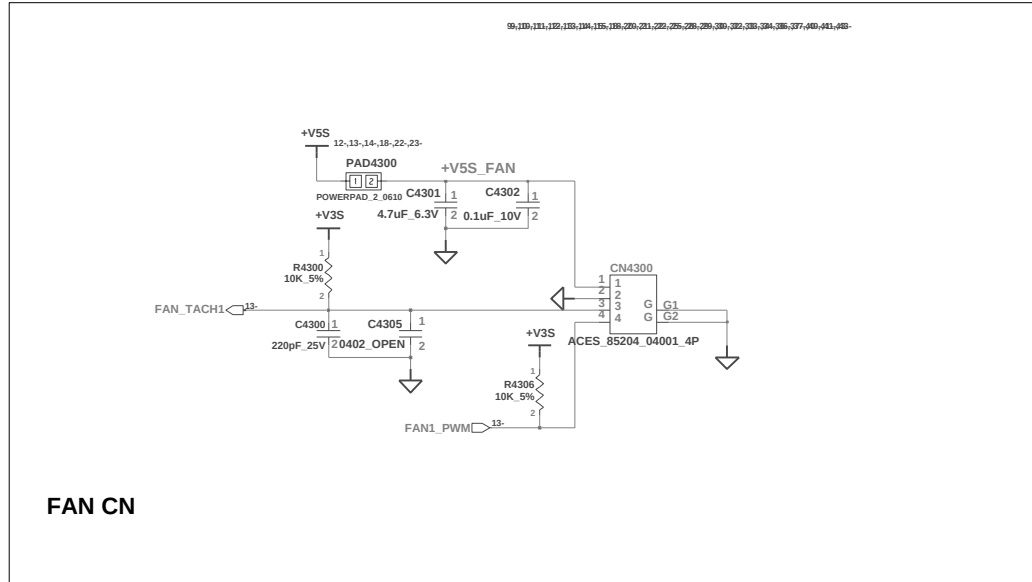


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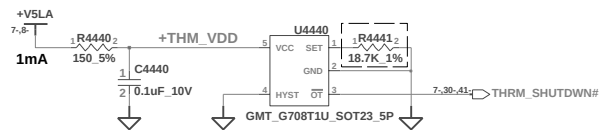
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Berlin 10AD			
EC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		13	OF 48

CHANGE by Devin Hsieh 2-Nov-2009





Board Thermal Sensor



Thermal shutdown at 94 C° +/-3 C° from 60 C° to 100 C°

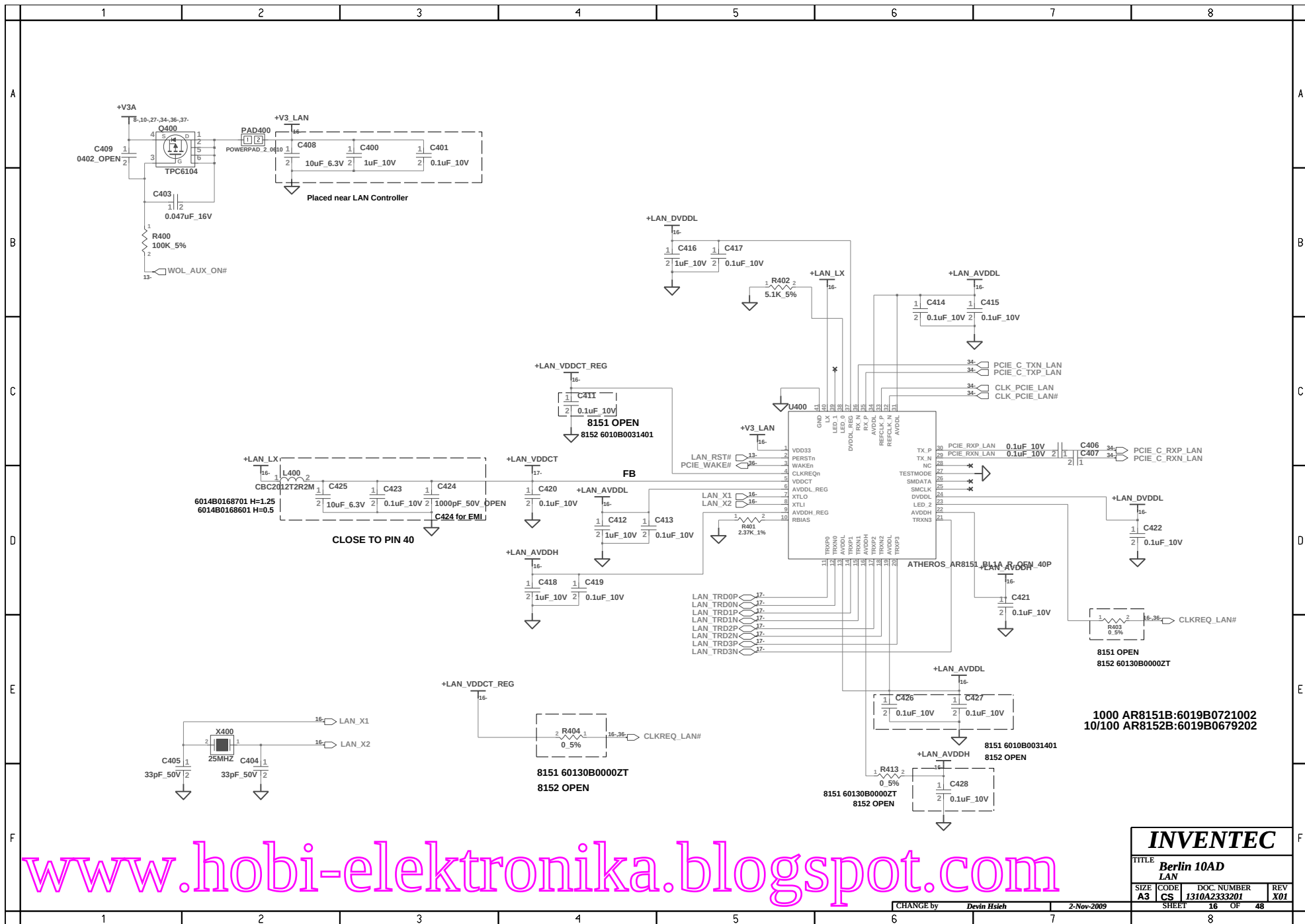
$$RSET = 0.0012 * T^2 - 0.9308 * T + 96.147$$

Hysteresis is 30C

INVENTEC			
TITLE			
Berlin 10AD			
FAN, Thermal controller			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		15	OF 48

CHANGE by Devin Hsieh 2-Nov-2009

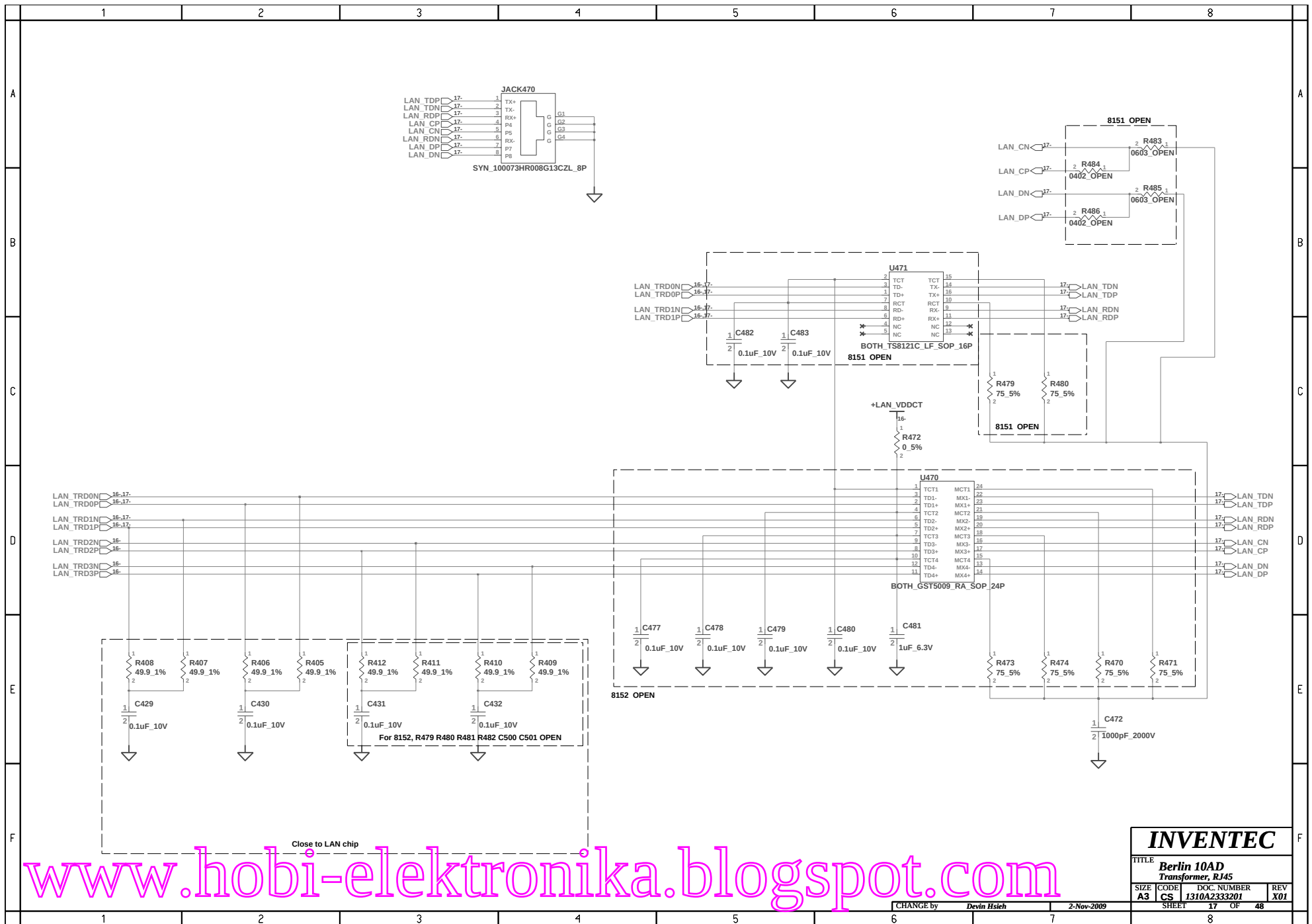
8



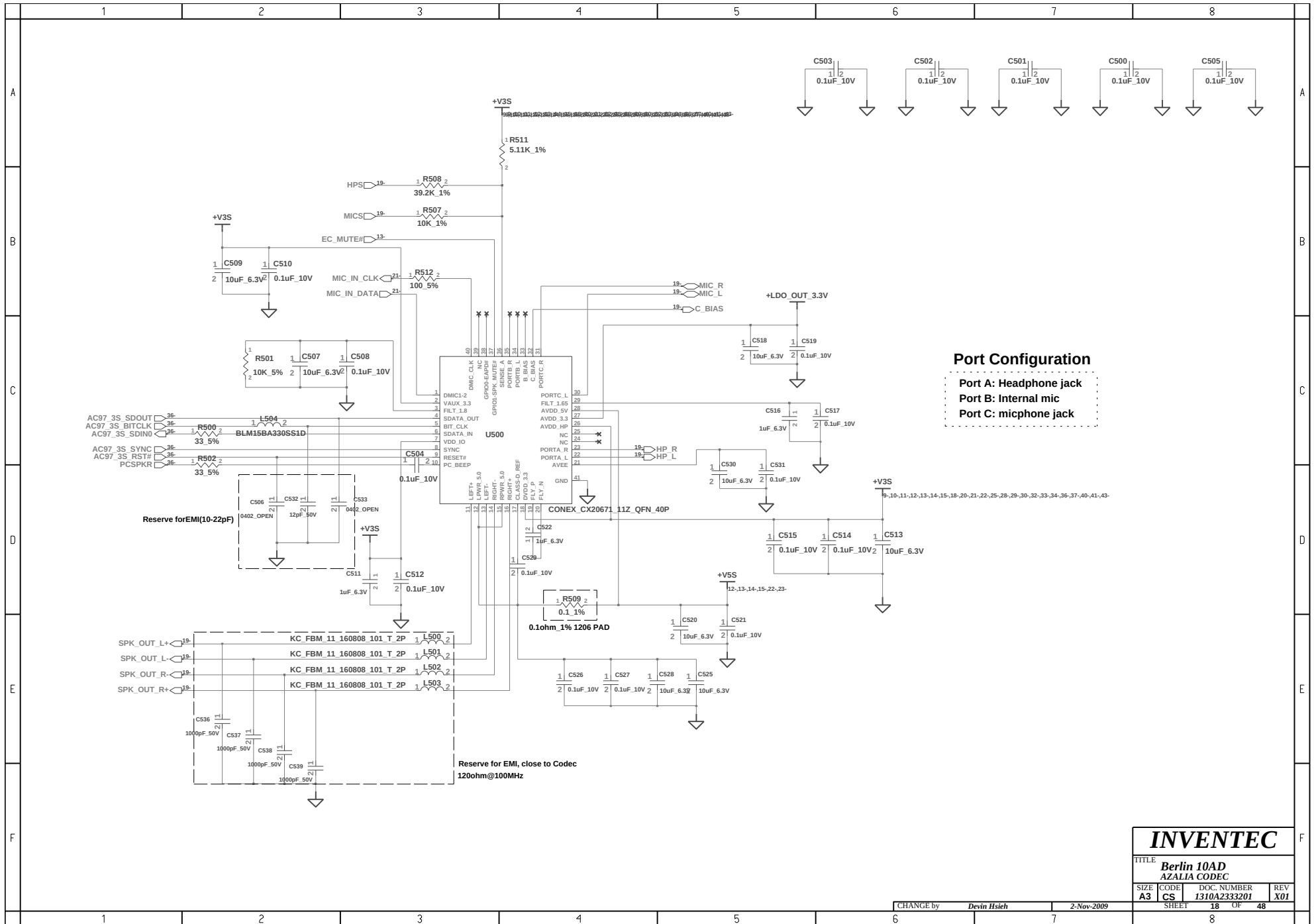
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INVENTEC			
TITLE			
Berlin 10AD			
LAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		16	OF 48

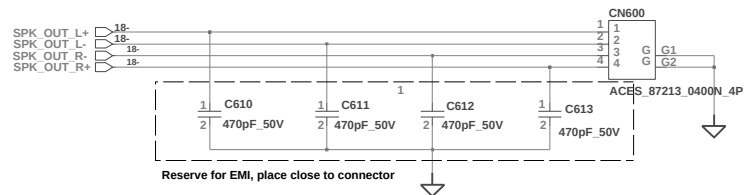
CHANGE by Devin Hsieh 2-Nov-2009



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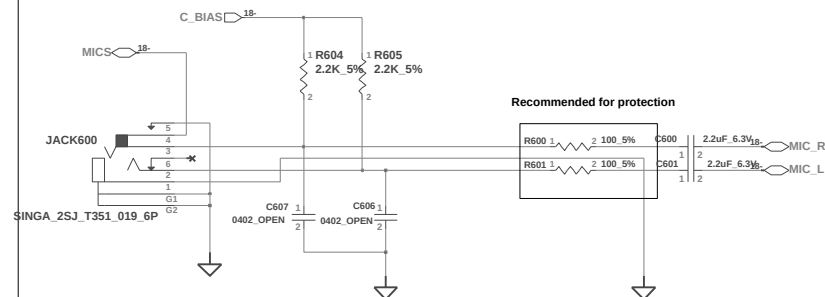


INTERNAL SPEAKERS

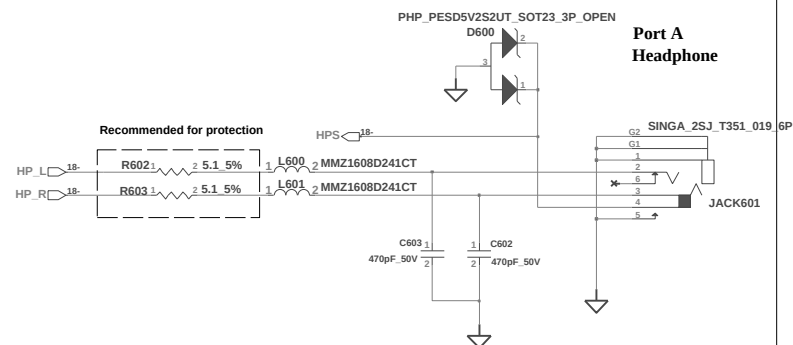


AUDIO JACKS

Port C External microphone



Port A Headphone



INVENTEC

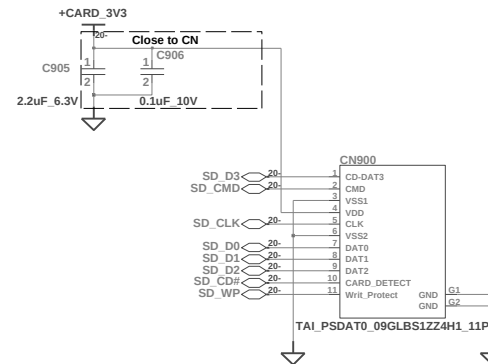
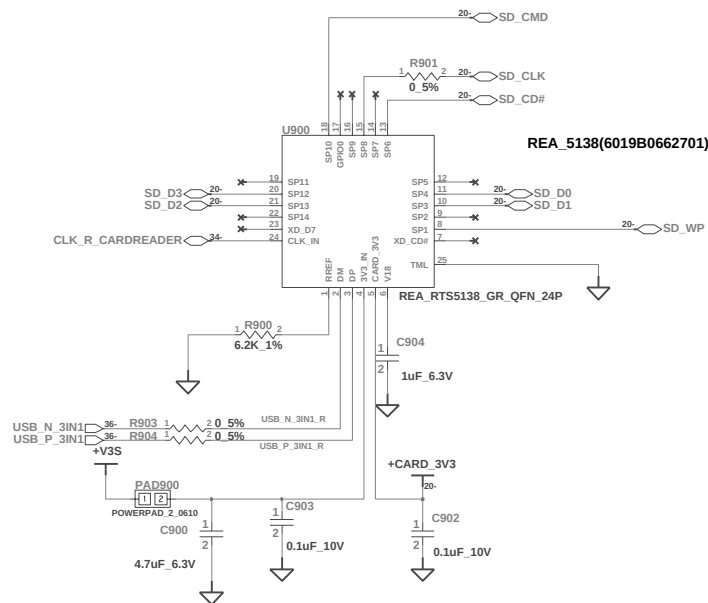
TITLE
Berlin 10AD
MIC & SPEAKER

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01

CHANGE by *Devin Hsieh* 2-Nov-2009

SHEET 19 OF 48

CARD READER & USB BOARD

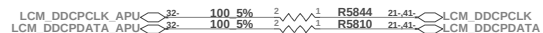
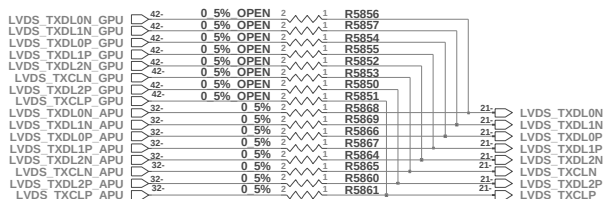


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TITLE Berlin 10AD MDC			
SIZE	CODE	DOC. NUMBER	REV
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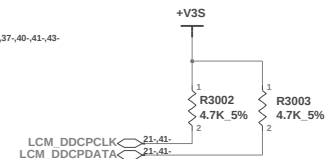
CHANGE by Devin Hsieh 28-Jul-2010

8

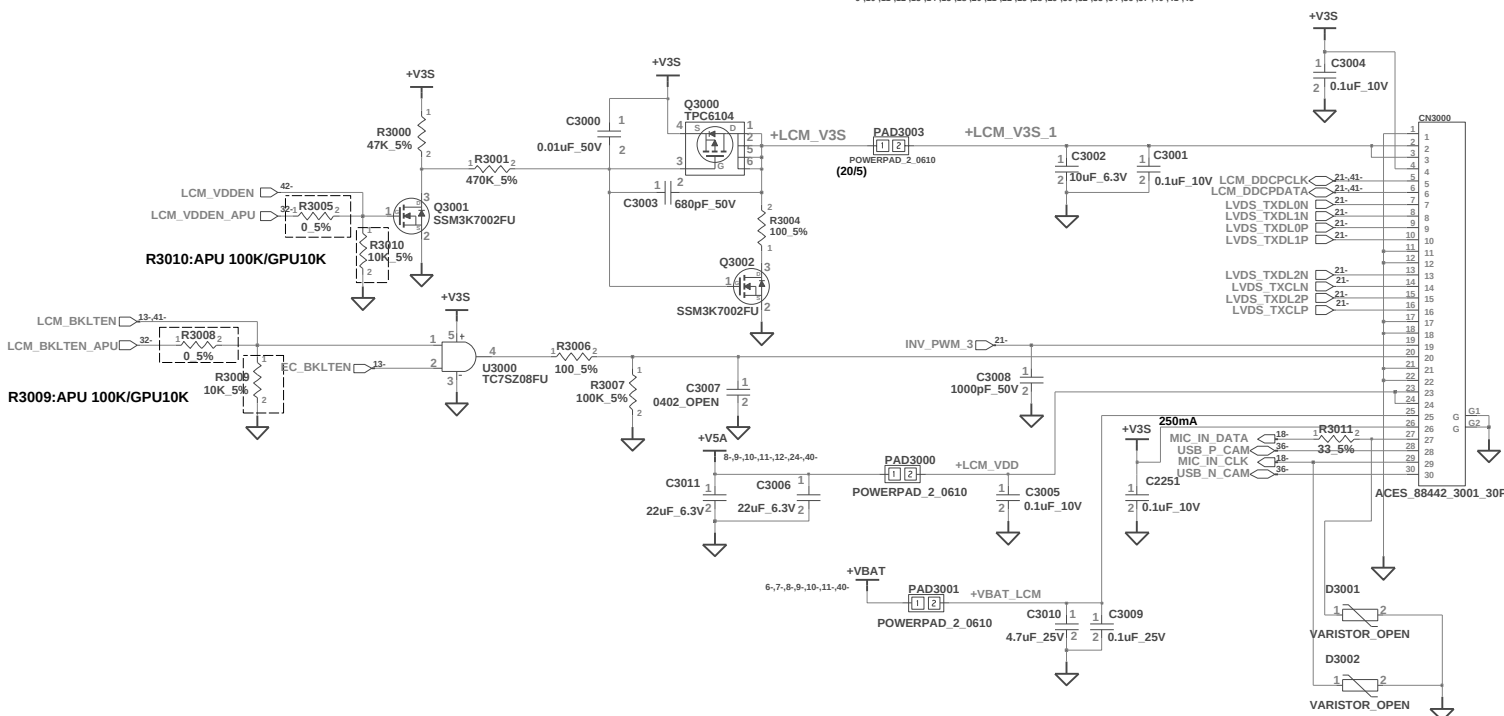
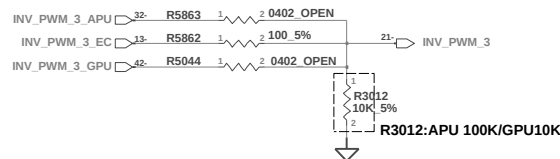
GM/PM CO-LAYOUT



LCM DDC PU values



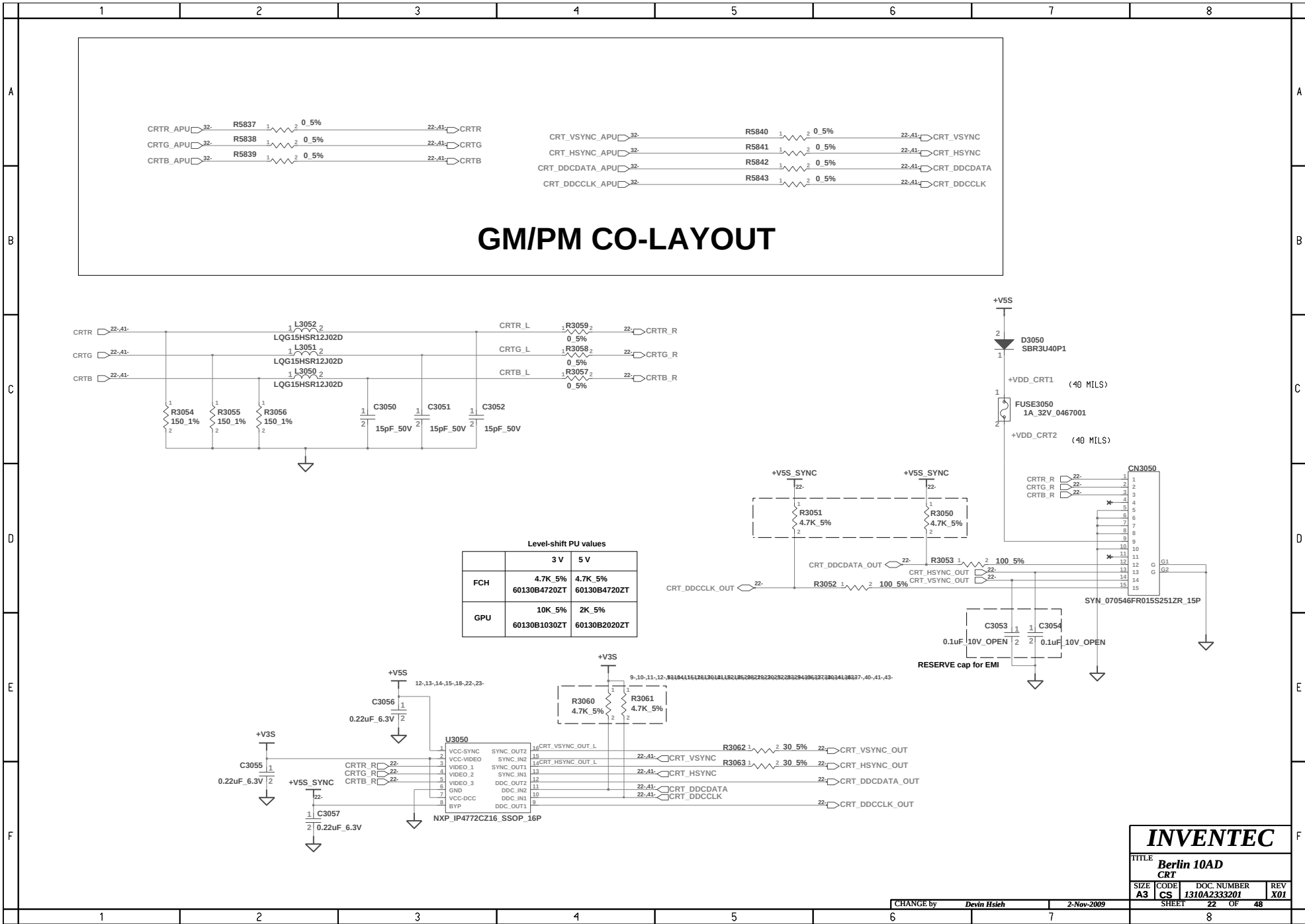
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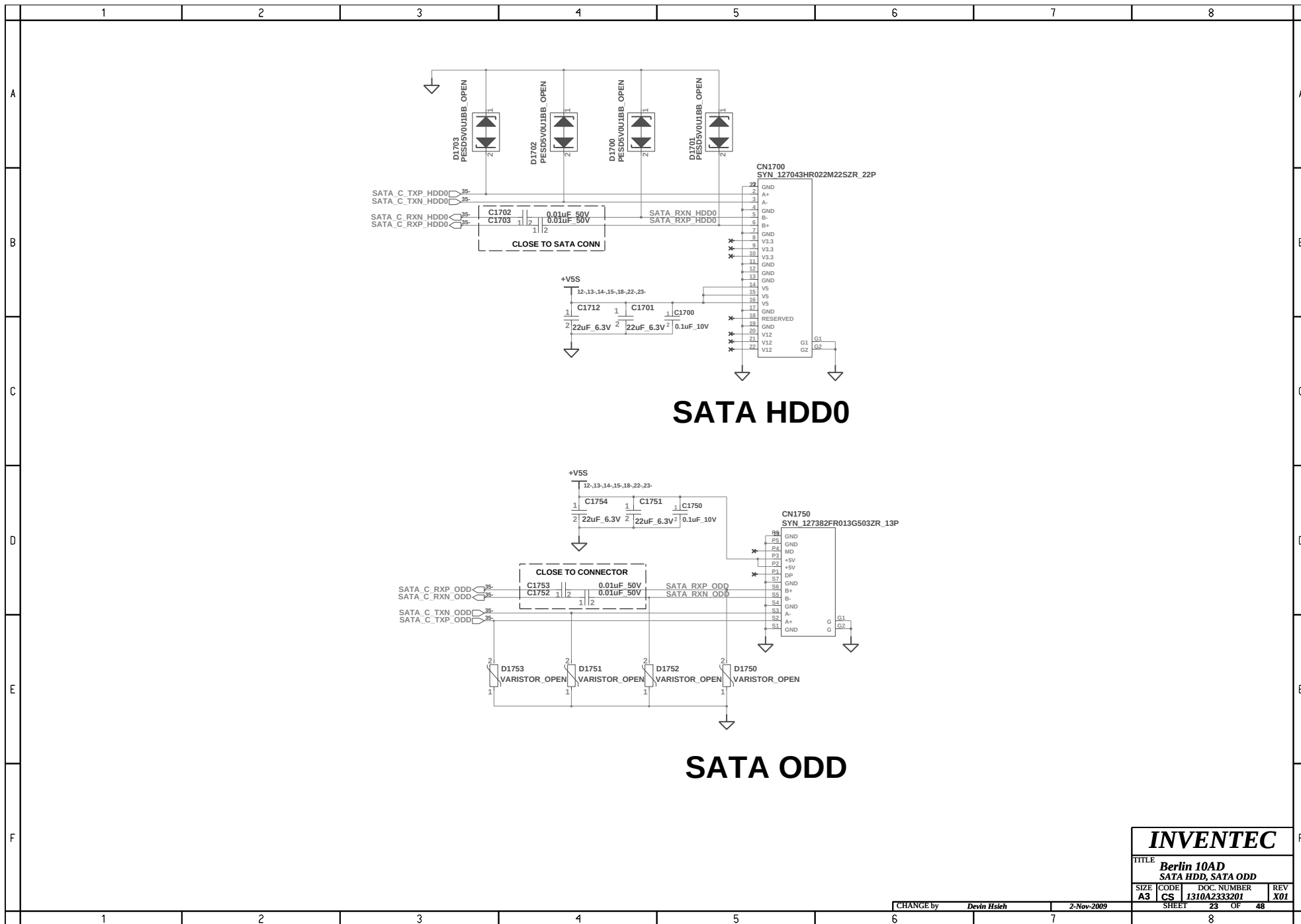


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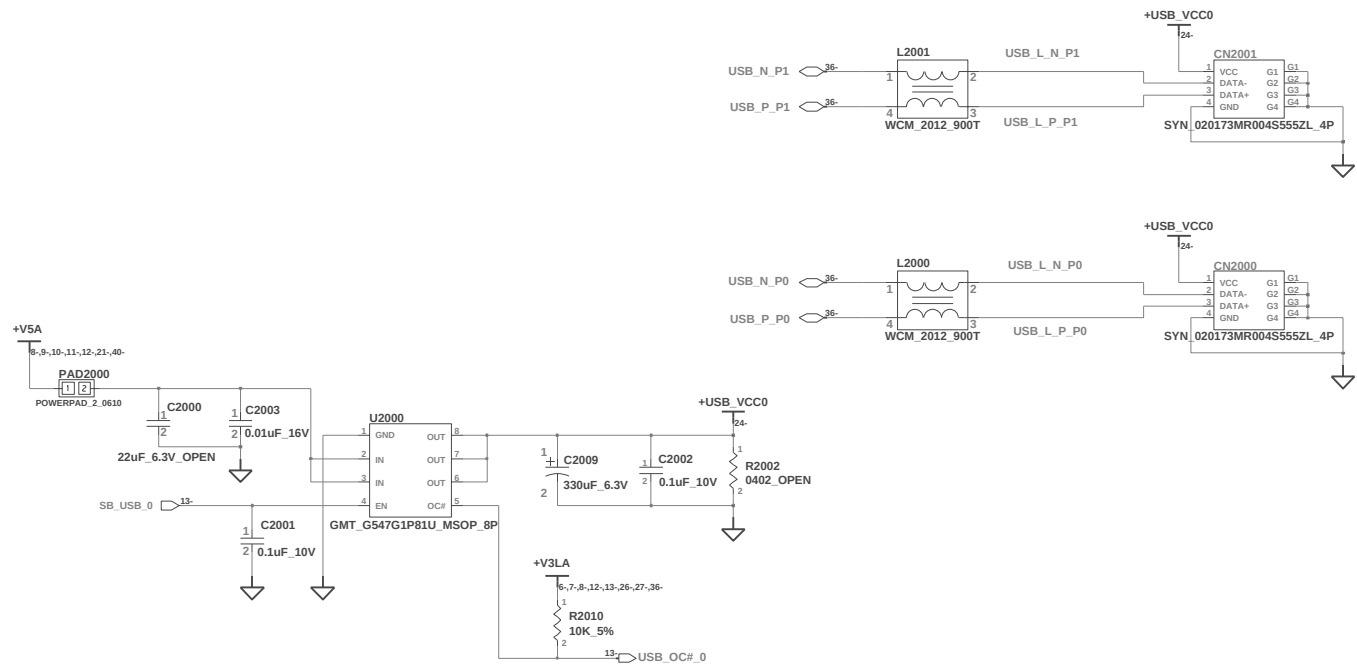
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TITLE Berlin 10AD LCM			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
SHEET 21		OF 48	

CHANGE by Devin Hsieh 2-Nov-2009





INVENTEC			
TITLE			
Berlin 10AD			
SATA HDD, SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		23	OF 48

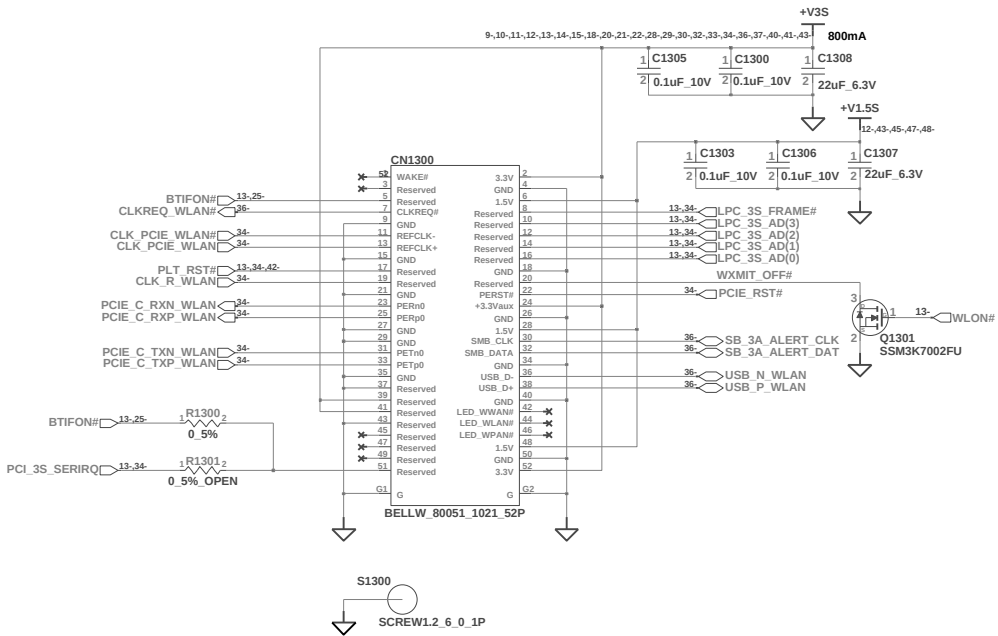


INVENTEC

TITLE			
Berlin 10AD			
e-SATA			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		24	OF 48

CHANGE by Devin Hsieh 2-Nov-2009

Wireless & BT & Debug card



INVENTEC

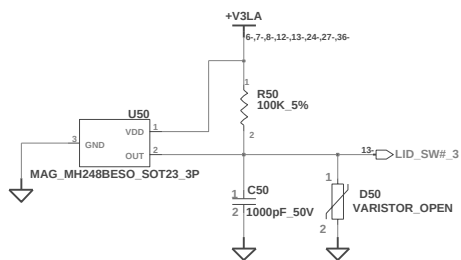
TITLE
Berlin 10AD
WLAN

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by Devin Hsieh 2-Nov-2009

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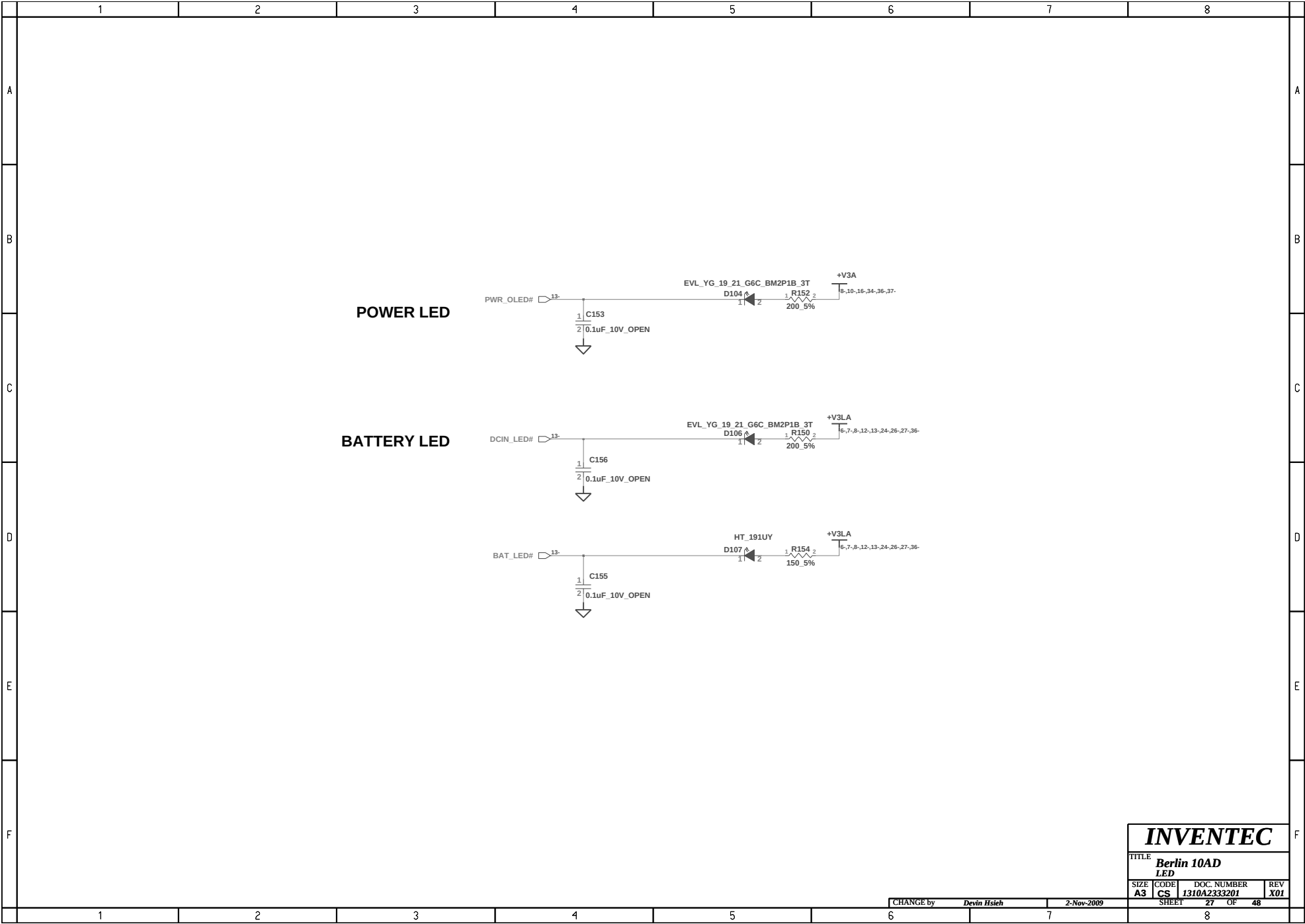
HALL SENSOR



INVENTEC

TITLE			
Berlin 10AD HALL SENSOR			
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SHEET		26	OF 48

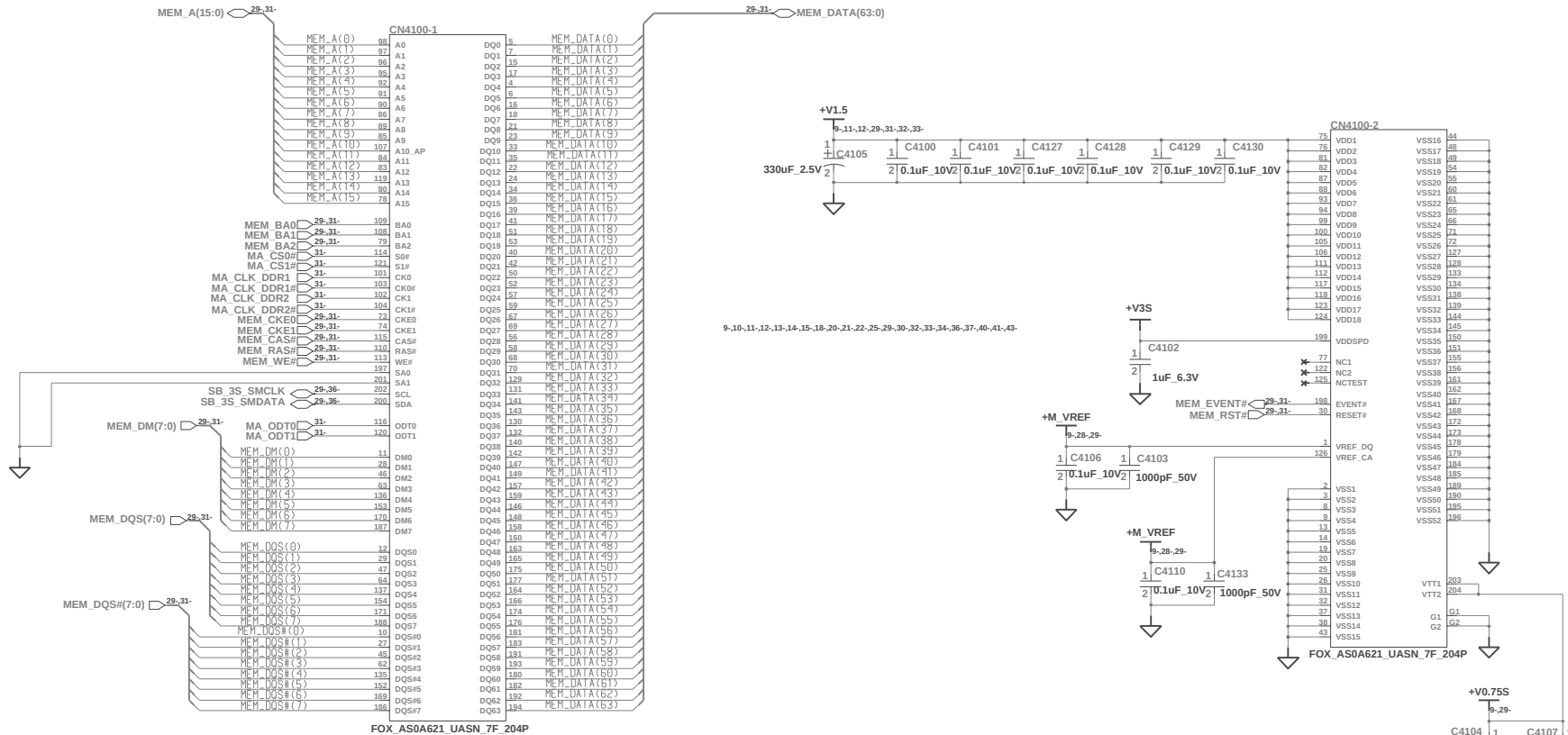
CHANGE by Devin Hsieh 2-Nov-2009



INVENTEC

TITLE **Berlin 10AD LED**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01



SO DIMM0
SLOT A

INVENTEC

TITLE
Berlin 10AD
DDR2 DIMM0

SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2333201	X01

CHANGE by	2-Nov-2009	28	OF	48
Devlin Hsieh				

9,10,11,12,13,14,15,18,20,21,22,25,26,28,29,30,32,33,34,36,37,40,41,43-

9,10,11,12,13,14,15,18,20,21,22,25,26,28,29,30,32,33,34,36,37,40,41,43-

SO DIMM1 SLOT B

+V1.5
9,11,12,28,29,31,32,33-

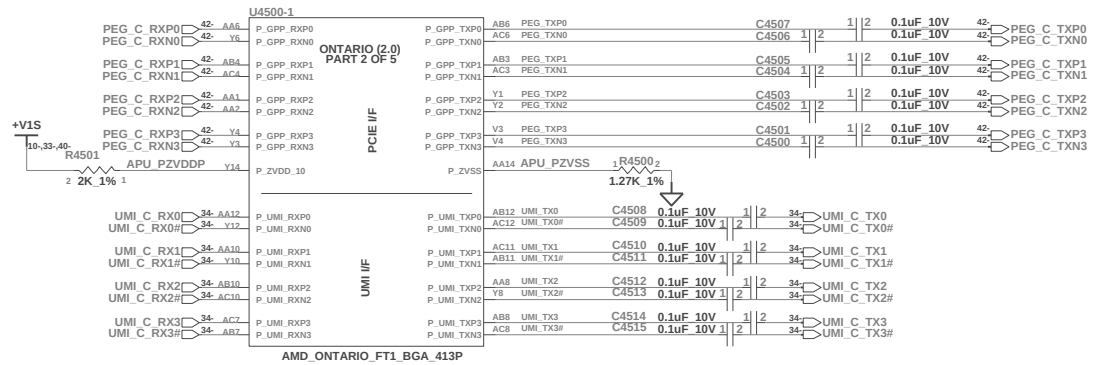
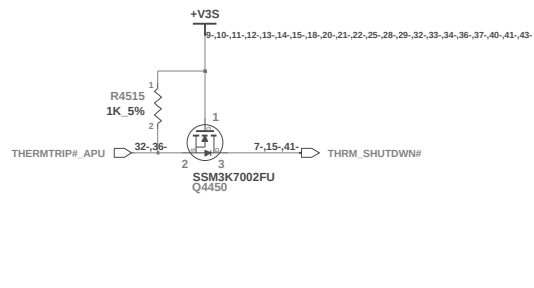
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28,29,31-

INVENTEC

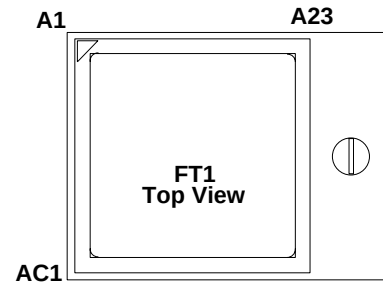
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DDR2 DIMM1
SIZE CODE DOC. NUMBER REV
A3 CS 1310A2333201 X01

CHANGE by **Devin Hsieh** 2-Nov-2009

SHEET 29 OF 48

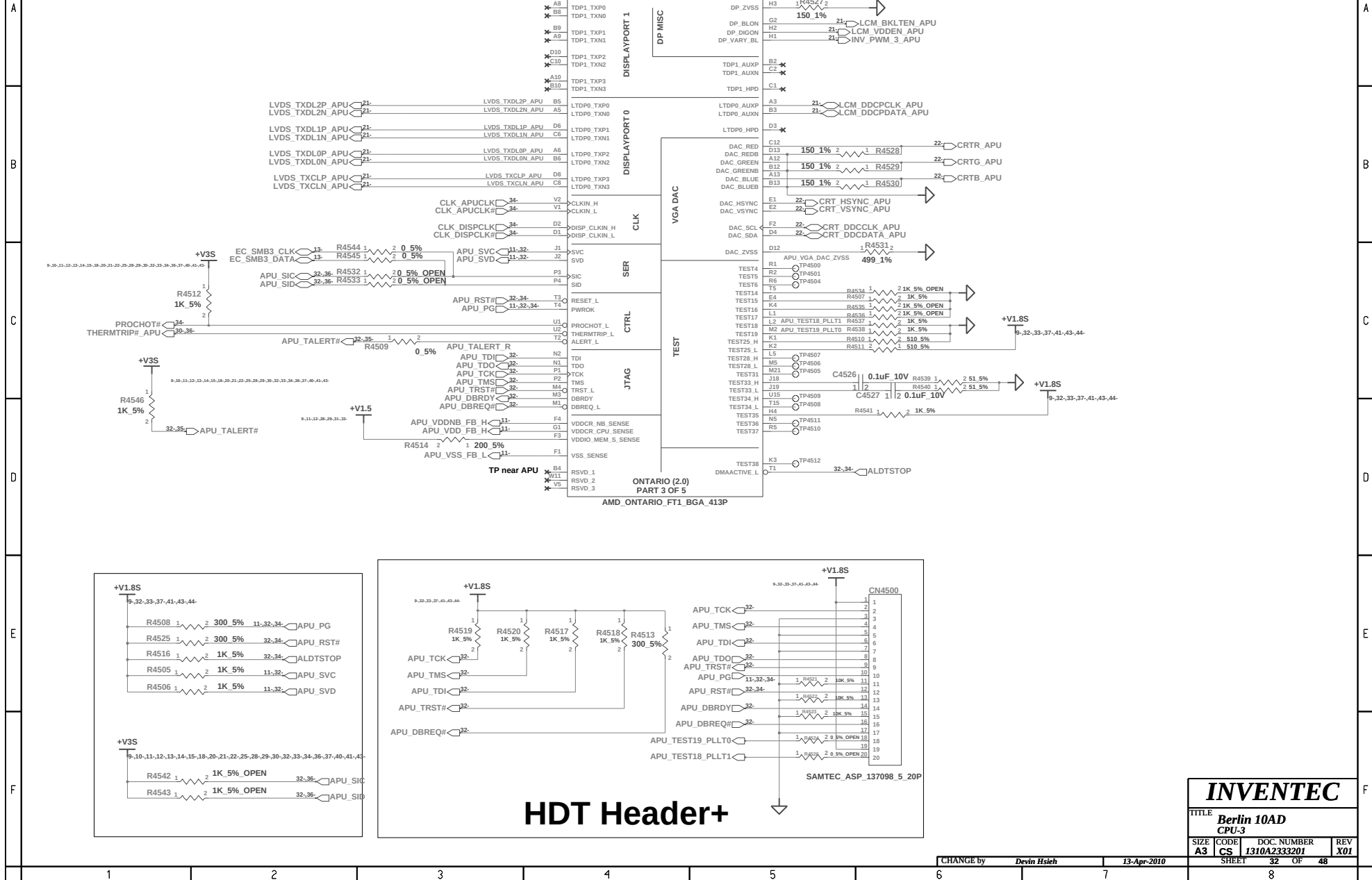


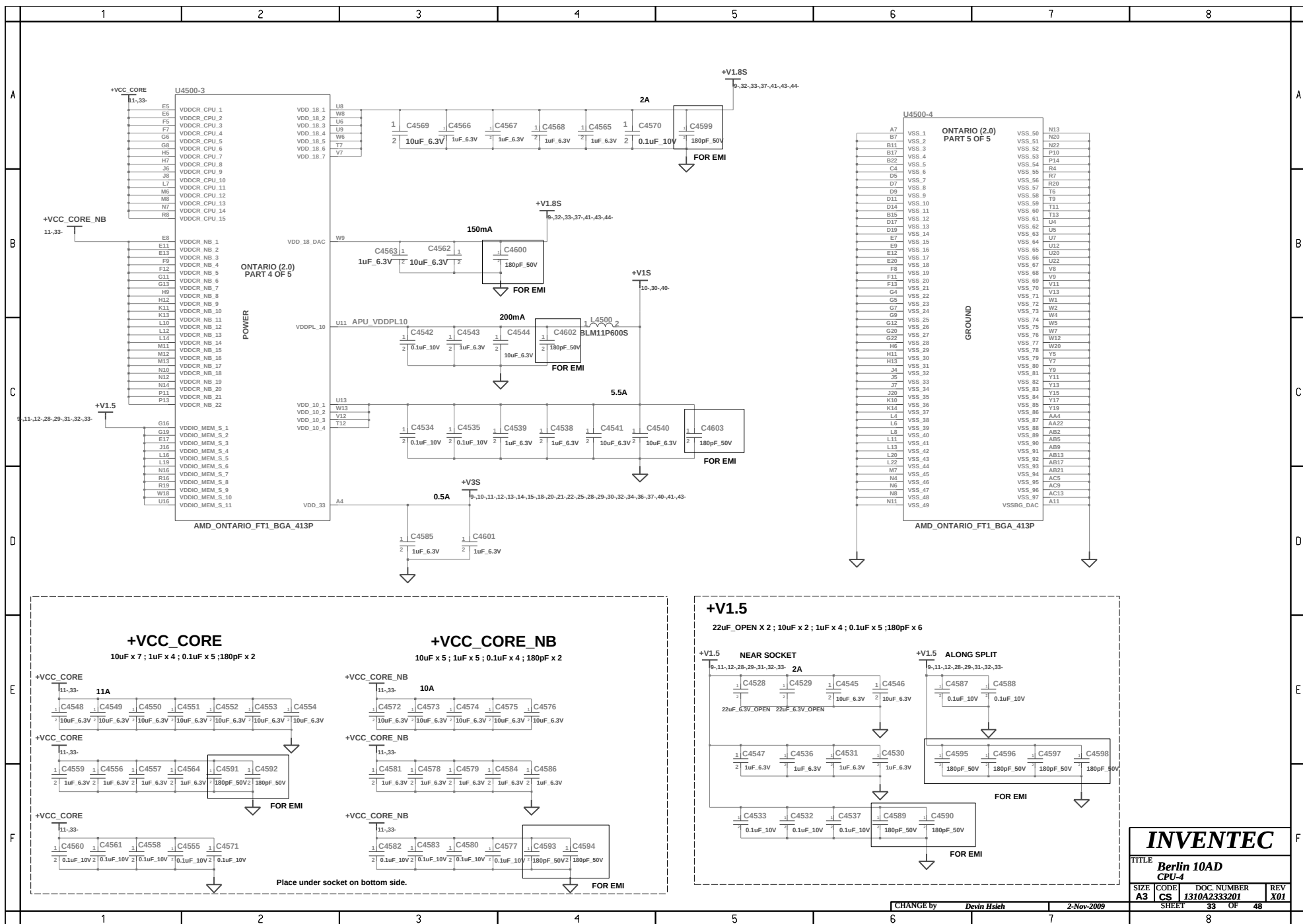
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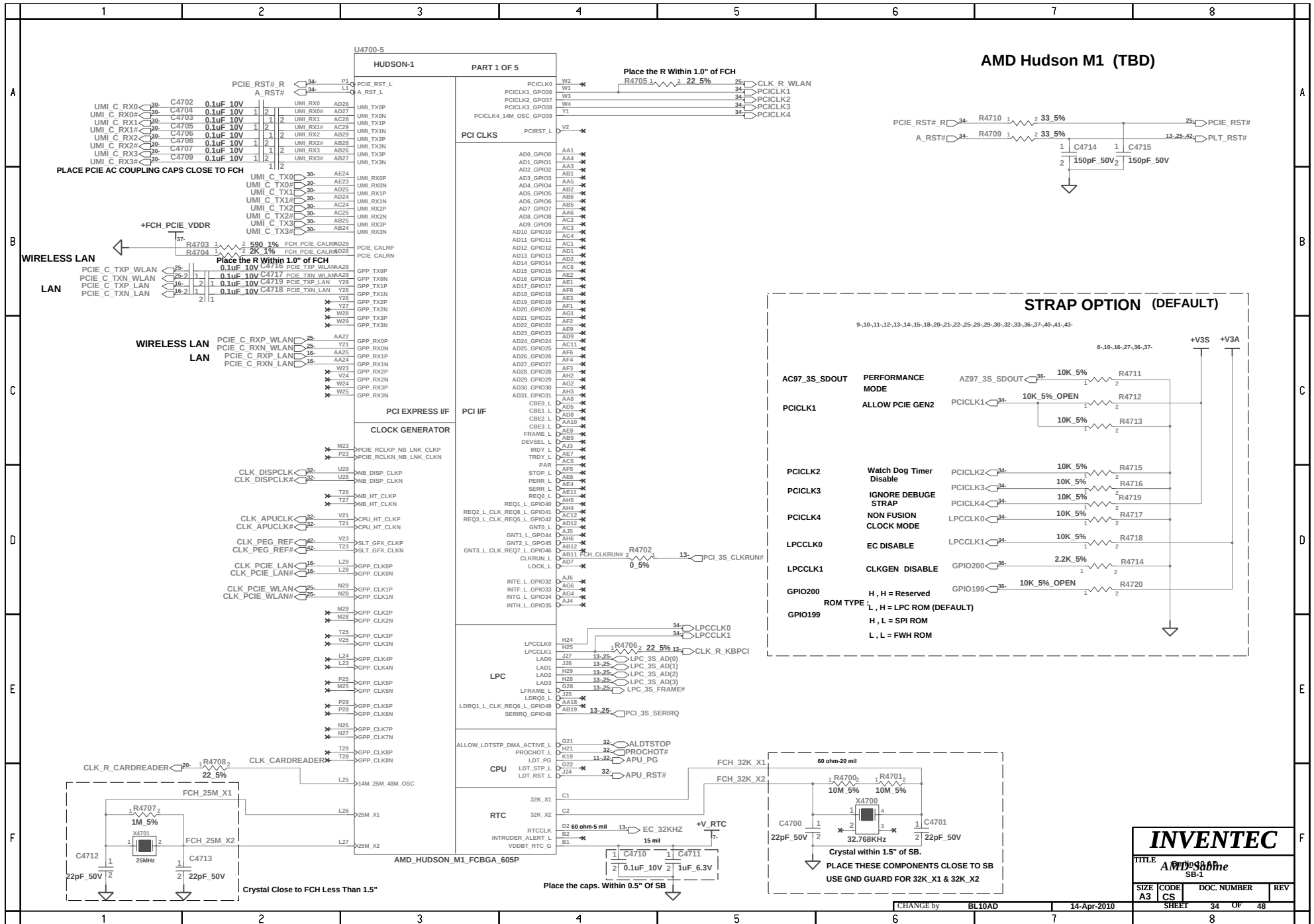


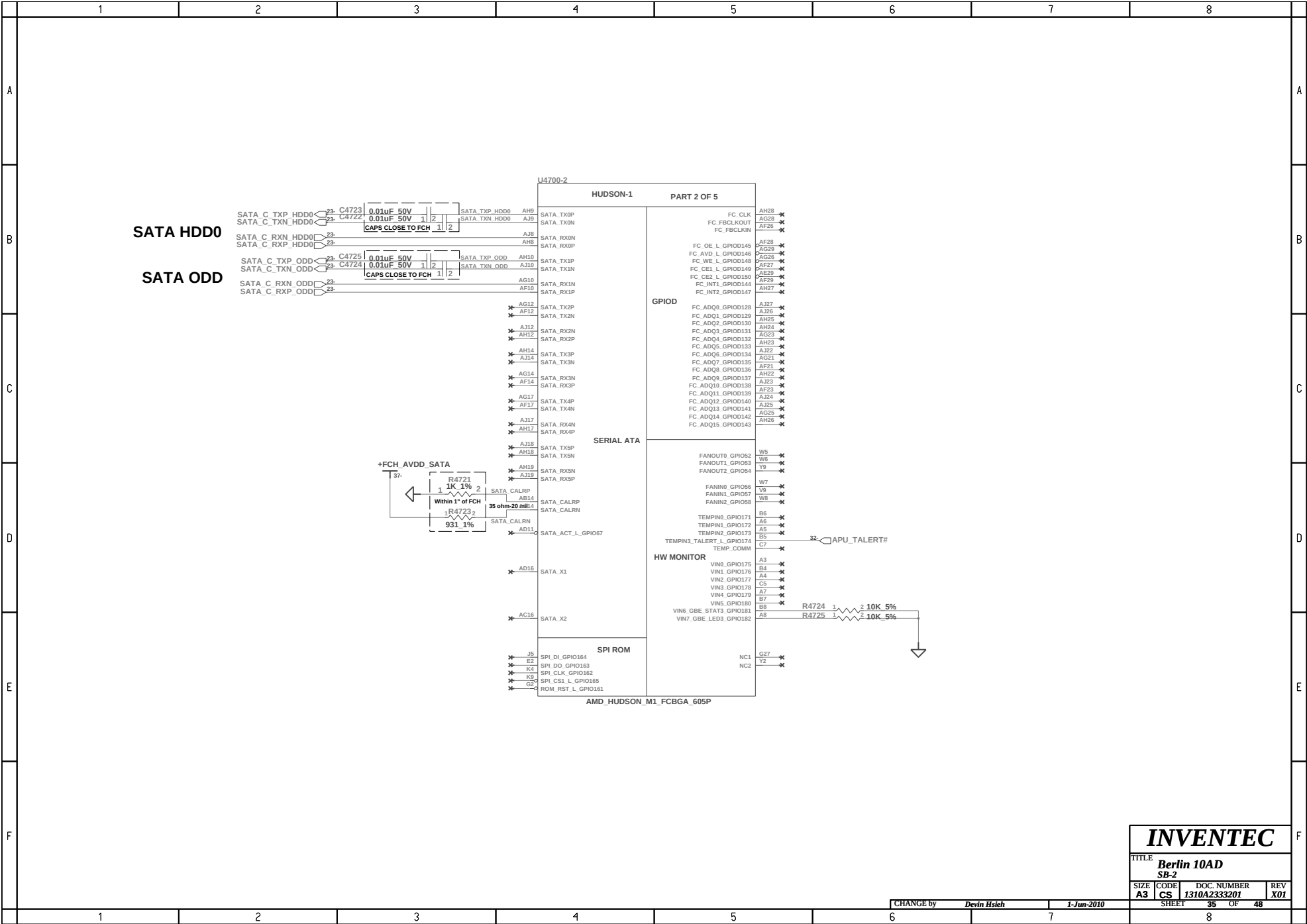
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Berlin 10AD CPU-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2333201	X01
SHEET		30	OF 48

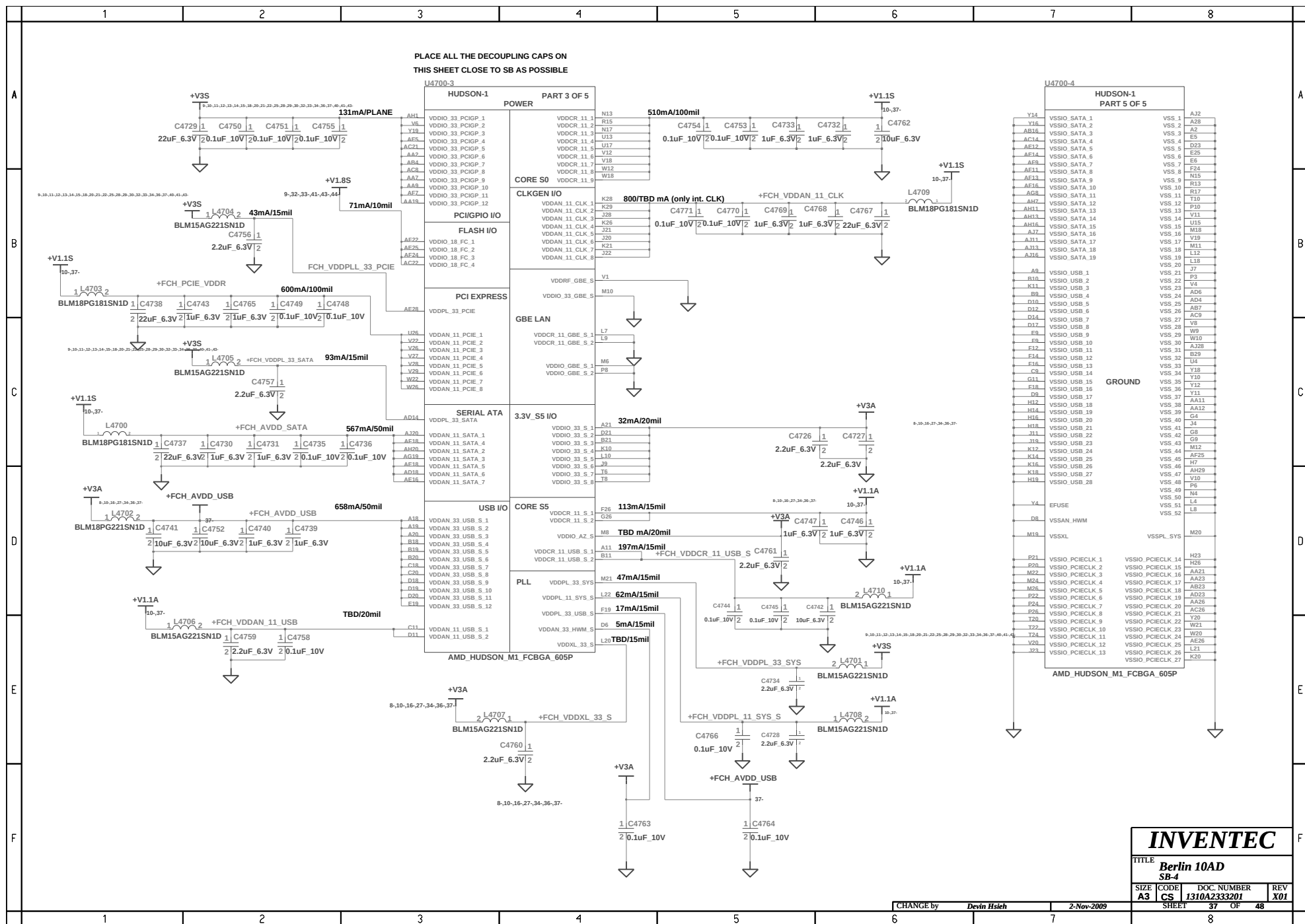
CHANGE by Devin Hsieh 3-May-2010







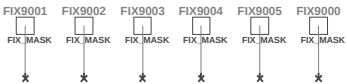
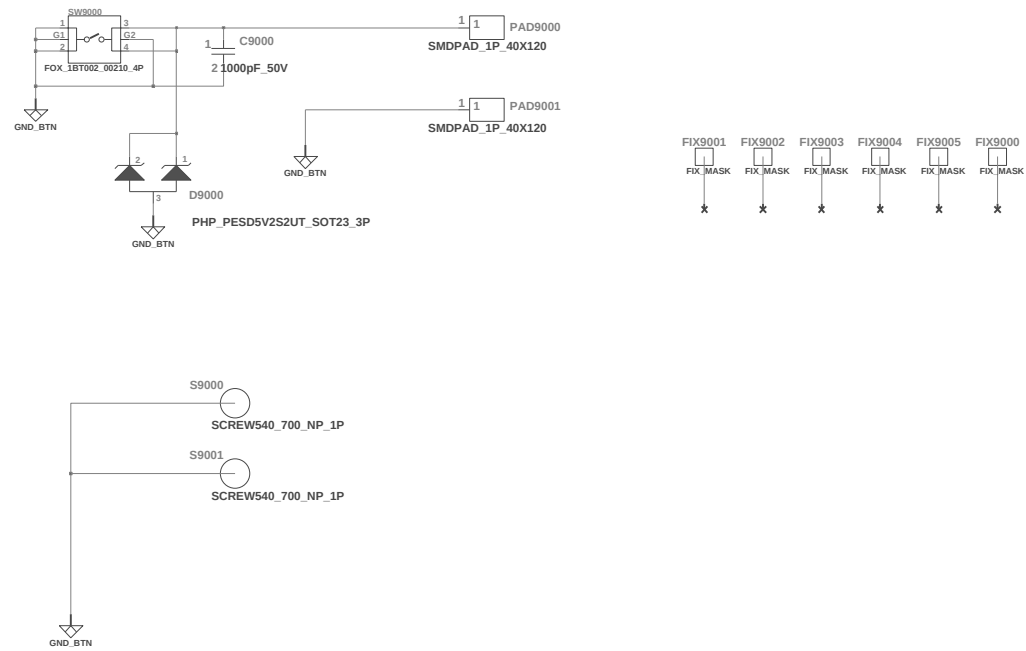




	1	2	3	4	5	6	7	8	
A	EMI								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

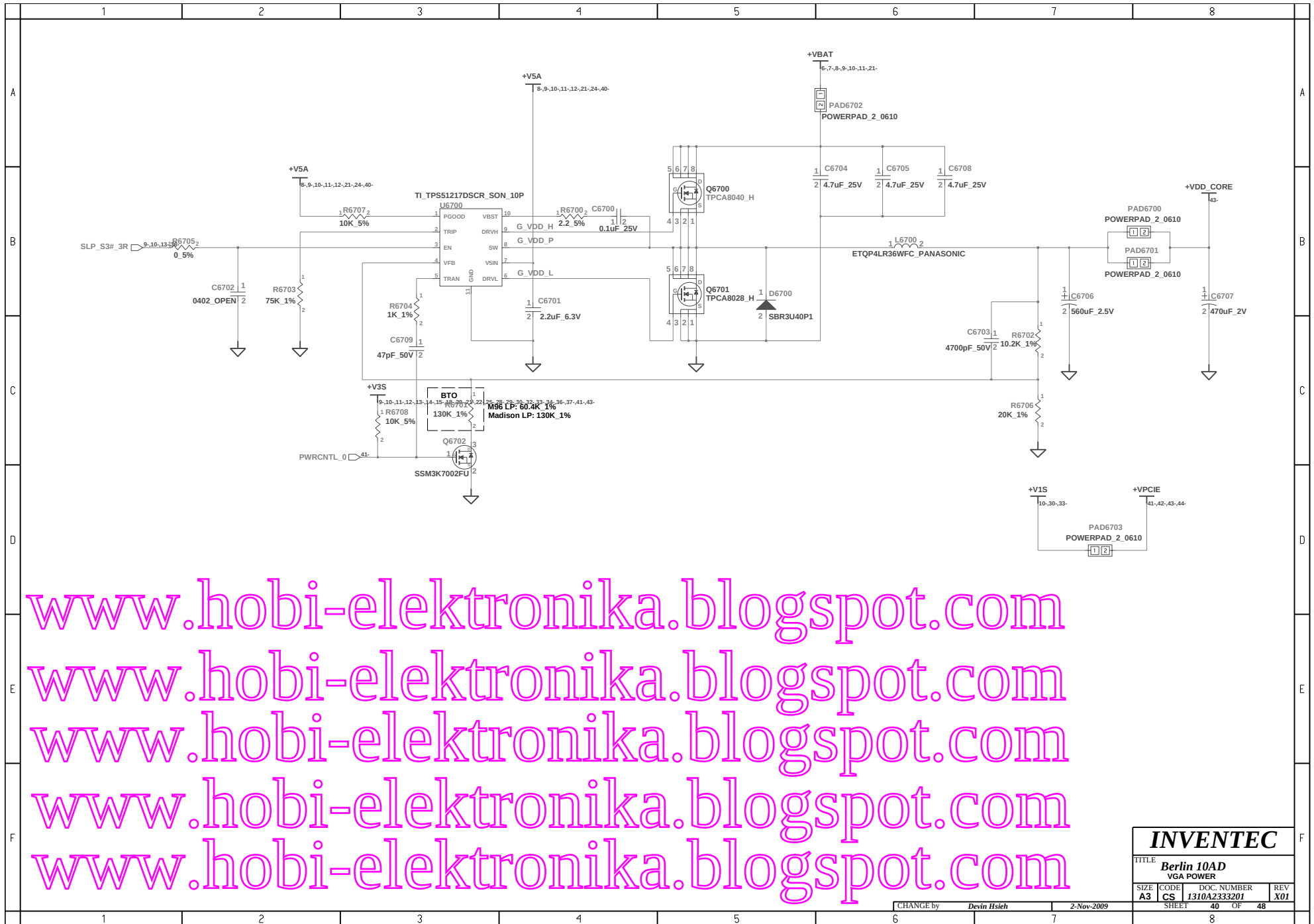
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TITLE Berlin 10AD EMI			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
CHANGE by Devin Hsieh		5-Jul-2010	
SHEET 38		OF 48	

POWER BUTTON

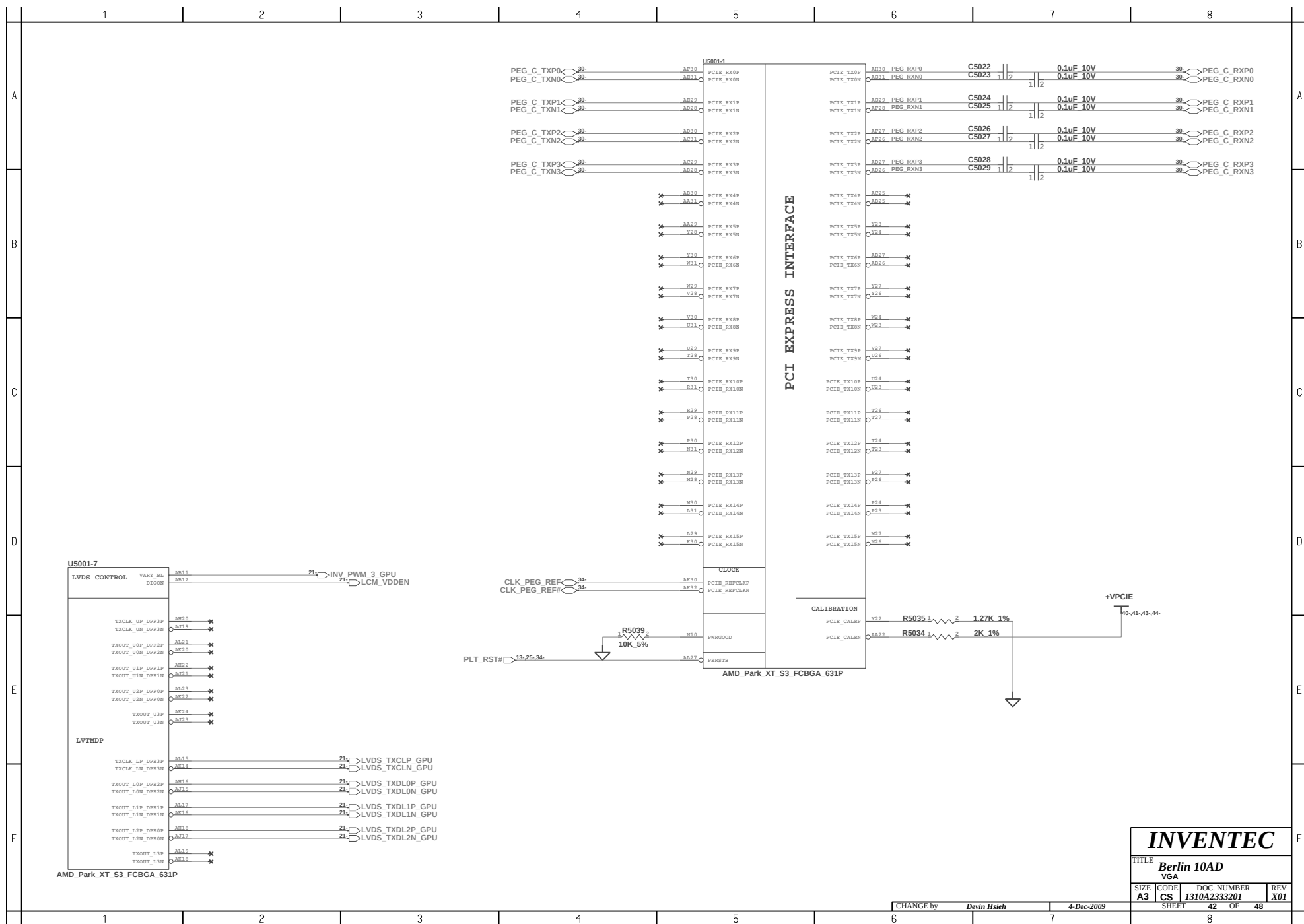


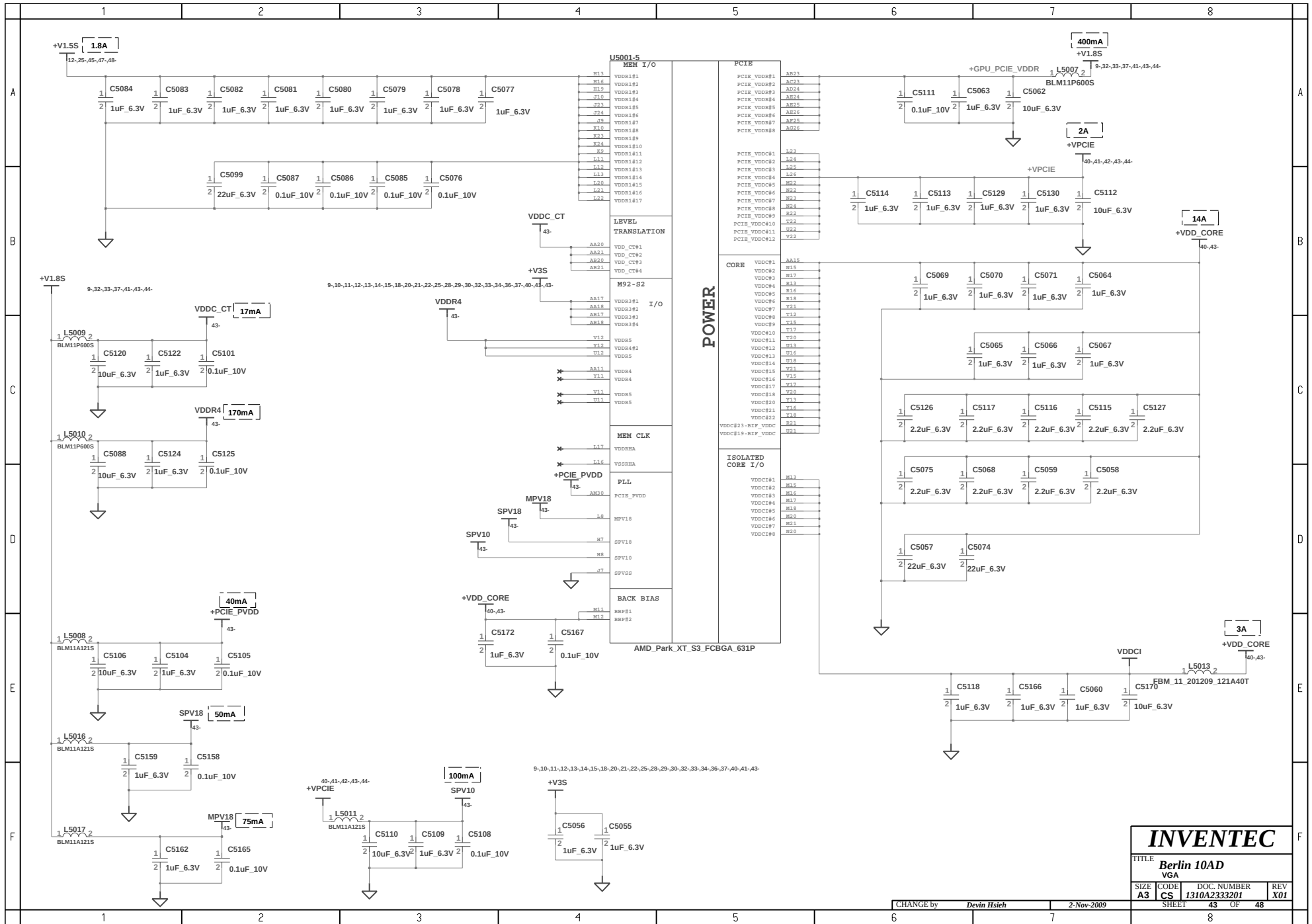
INVENTEC			
TITLE Berlin 10AD Pick Button Board			
SIZE A3	CODE CS	DOC. NUMBER 1310A2333201	REV X01
SHEET 39		OF 48	

CHANGE by Devin Hsieh 28-Jul-2010



INVENTEC				
TITLE				
Berlin 10AD				
VGA POWER				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	1310A2333201	X01	
CHANGE by		2-Nov-2009	SHEET	
Devlin Hsieh			40 OF 48	
			8	

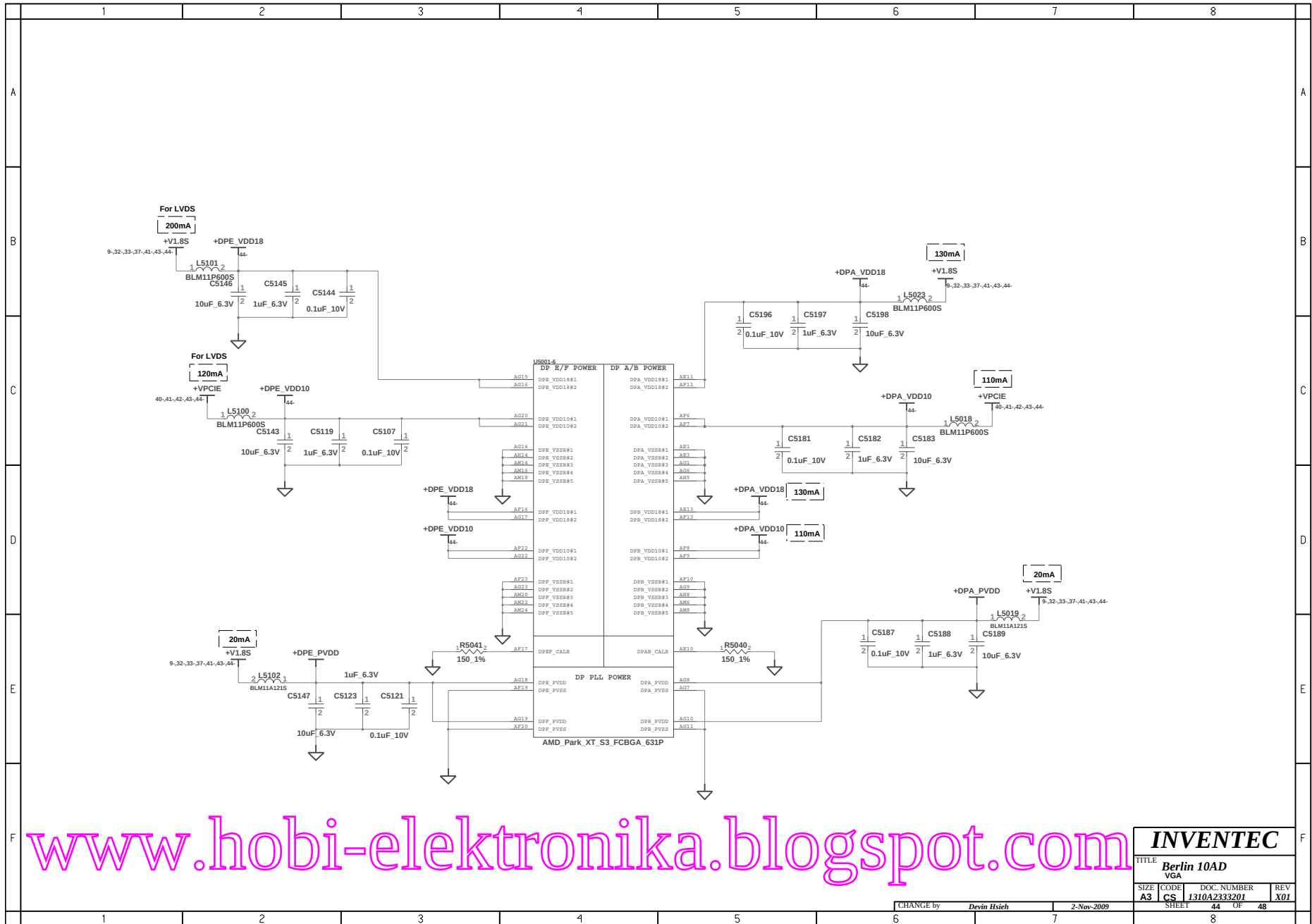




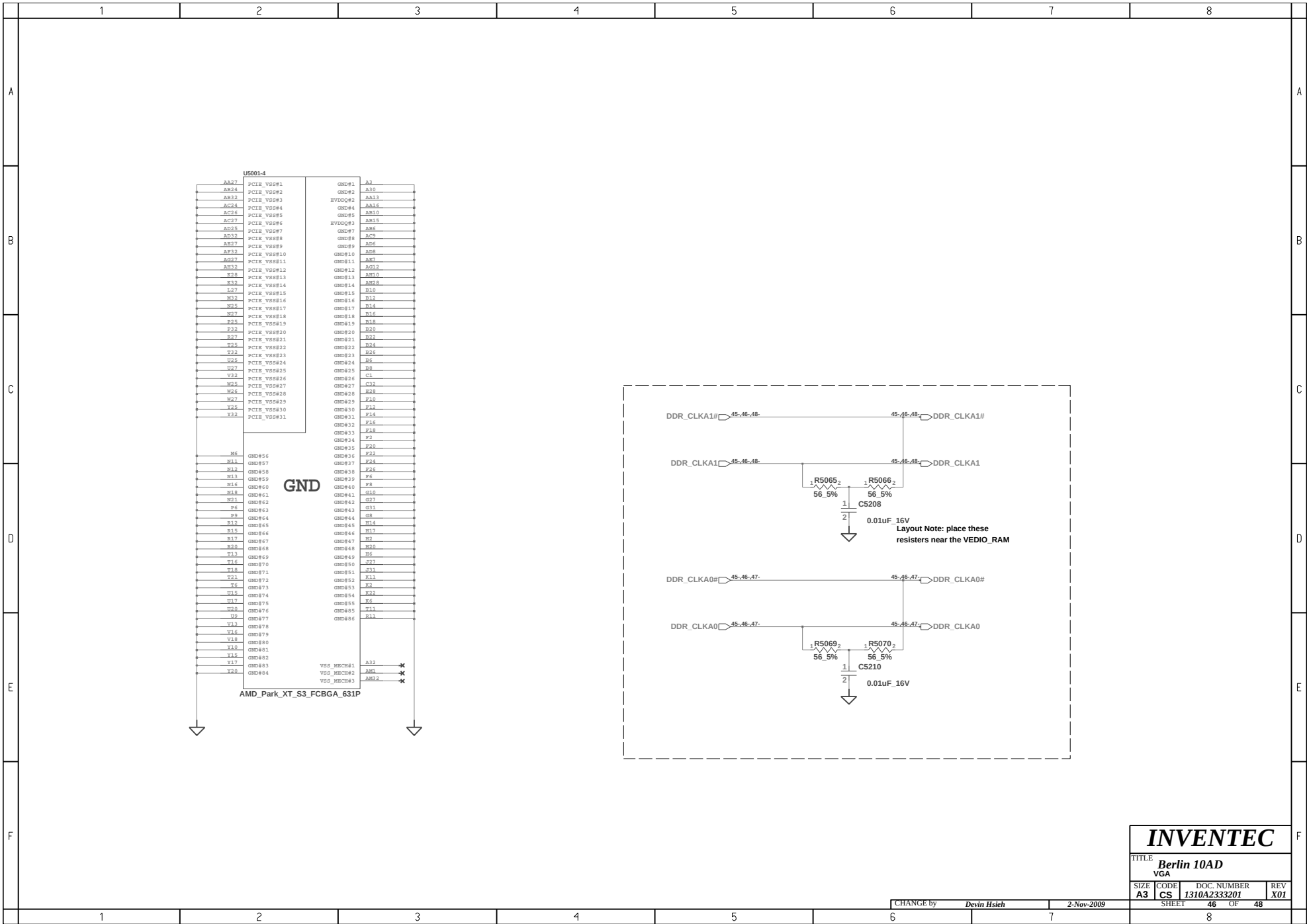
INVENTEC

TITLE
Berlin 10AD
VGA

SIZE A3 CODE CS DOC. NUMBER 1310A2333201 SHEET 43 OF 48 REV X01



INVENTEC				
TITLE: Berlin 10AD				
VGA				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	1310A2333201	X01	
CHANGE by		2-Nov-2009	SHEET 44 OF 48	



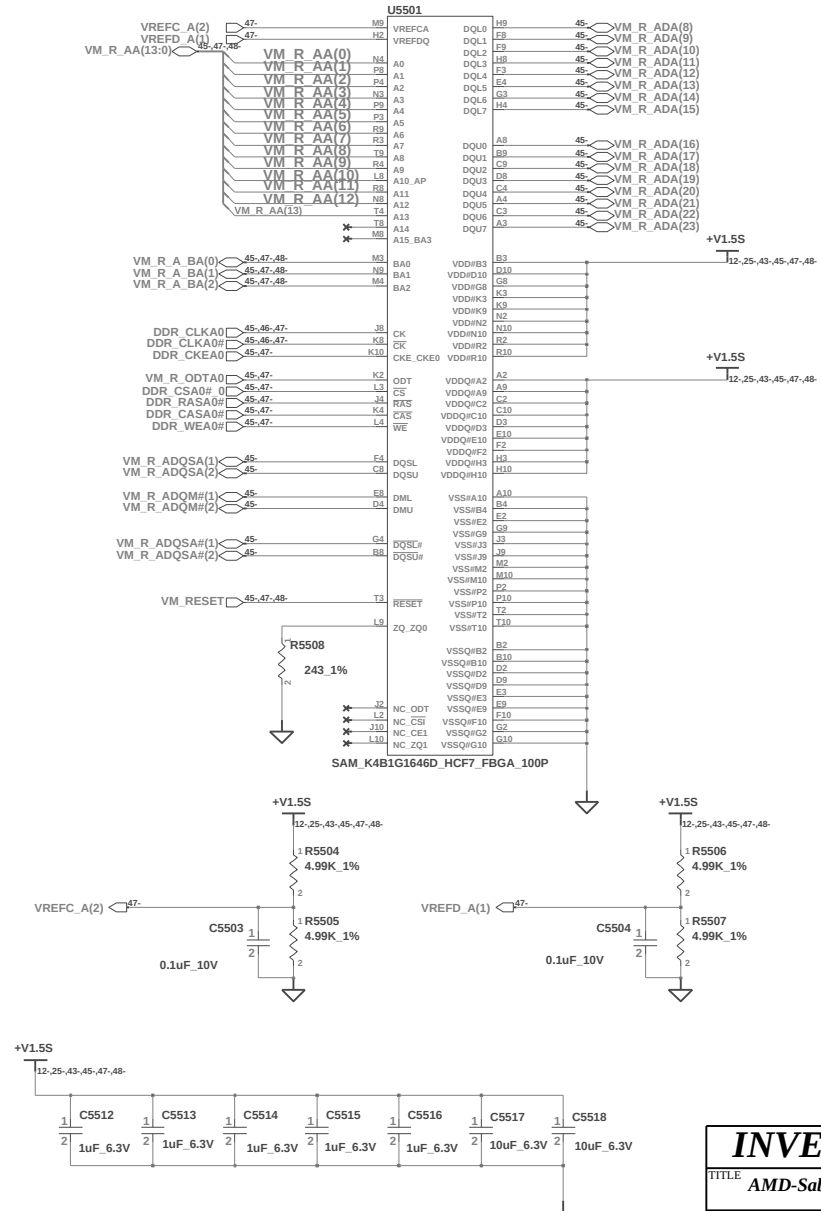
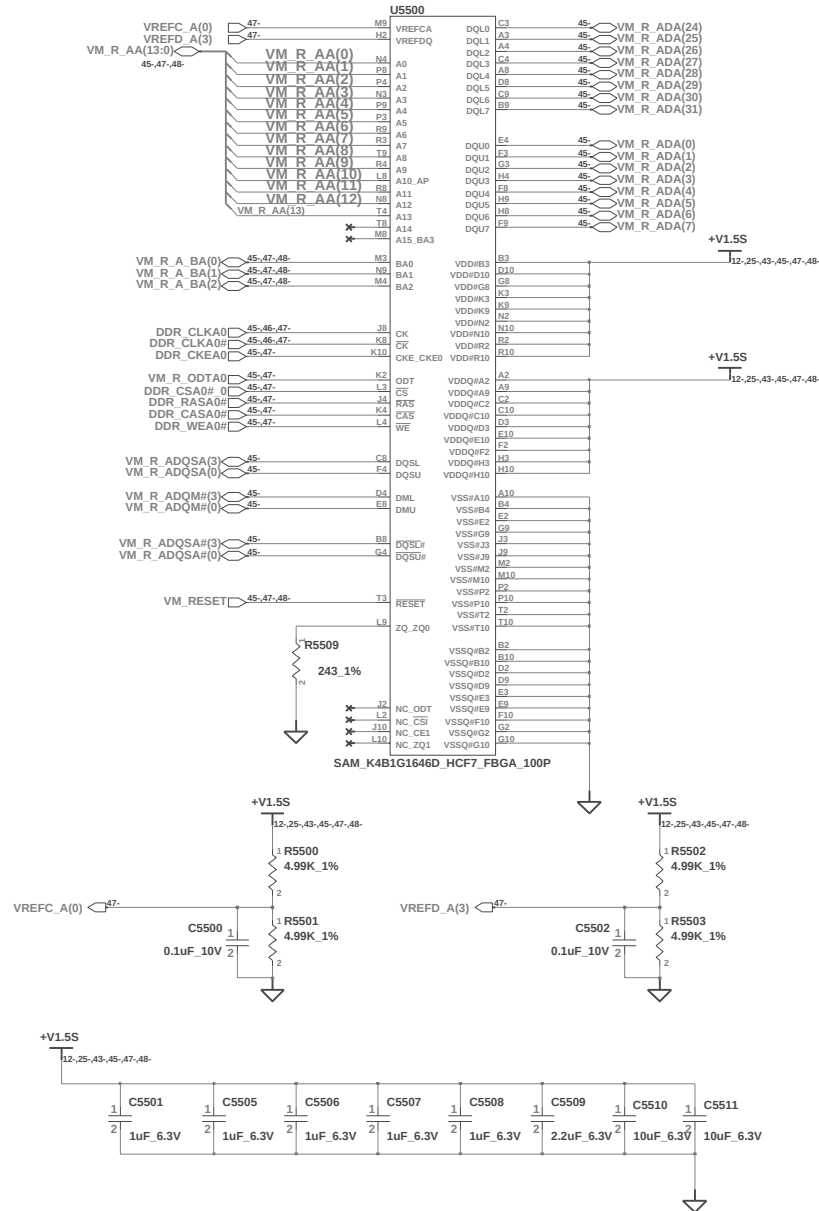
INVENTEC

TITLE
Berlin 10AD
VGA

SIZE A3	CODE CS	DOC. NUMBER I310A2333201	REV X01
SHEET 46		OF 48	

CHANGE by Devin Hsieh 2-Nov-2009

PARK Use channel A



INVENTEC

TITLE
AMD-Sabine

SIZE CODE DOC. NUMBER REV
A3 CS SHEET 47 OF 48

CHANGE by BL10AD 29-Apr-2010

