

<http://hobi-elektronika.net>

Manaus 10

CS BUILD

2010.03.18

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					<i>Berlin 10</i>			
RESPONSIBLE								
SIZE = 3					SIZE	CODE	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					A3	CS	ES	AXI
P/N : XXXXXXXXXXXX					SHEET	1	OF	61

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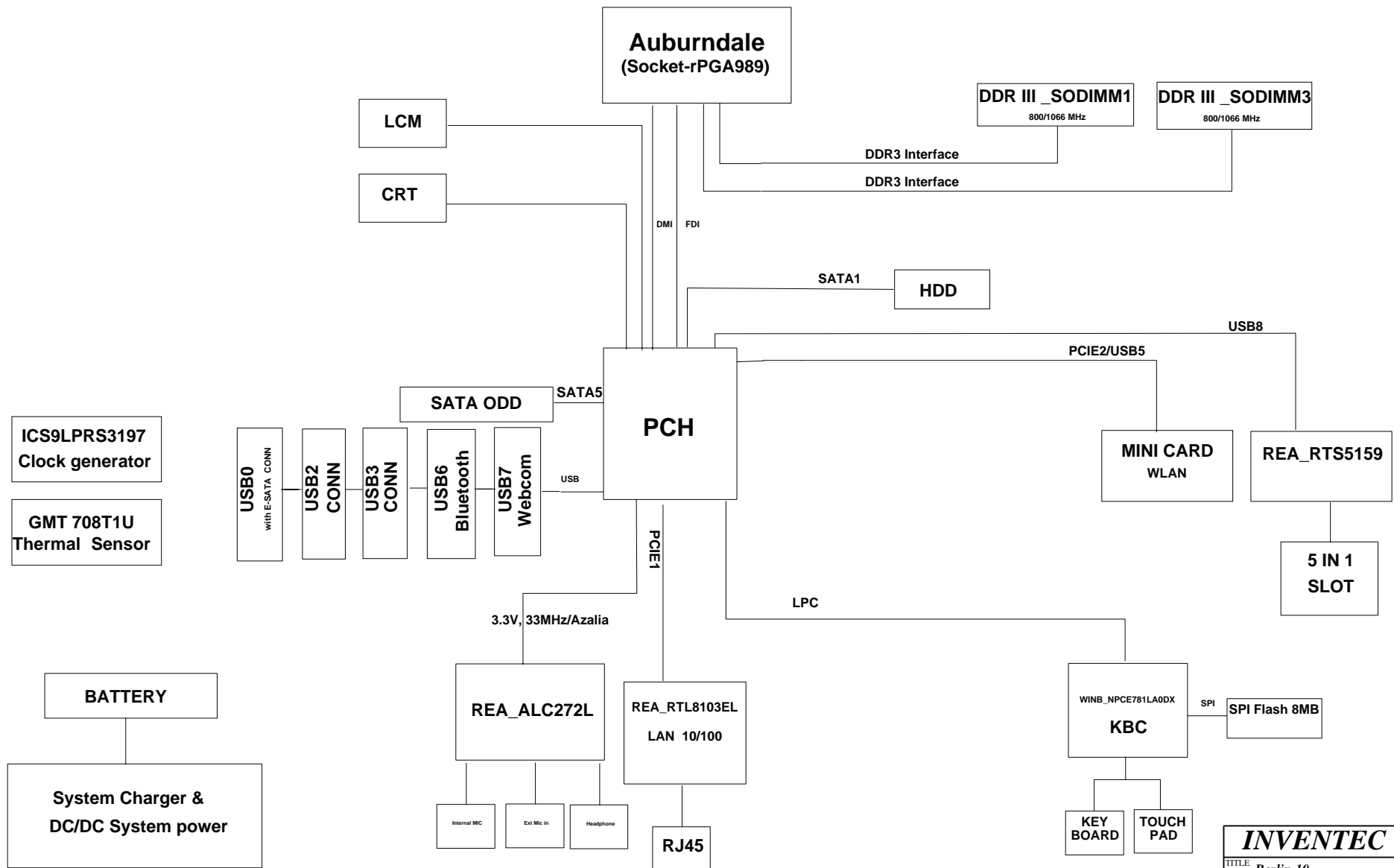
INVENTEC

TITLE
Berlin 10

SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
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CHANGE by *Liu, Bob* 26-Jan-2010

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INVENTEC

TITLE
Berlin 10

SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 4-Jan-2010

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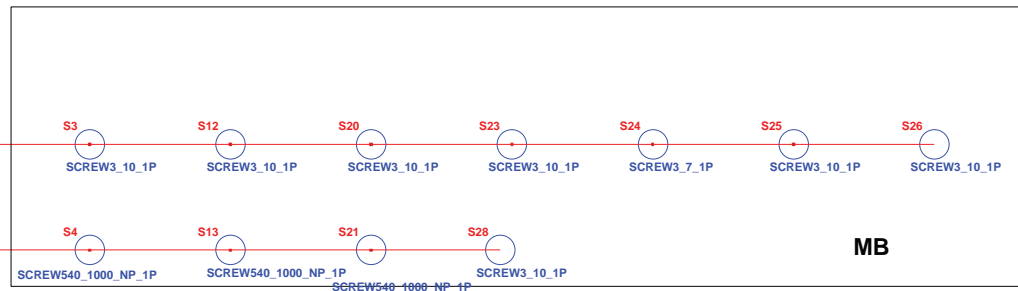
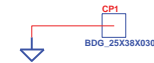
<http://hobi-elektronika.net>

Add Excel Power map

INVENTEC			
TITLE <i>Berlin 10</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		4	OF 61

CHANGE by *Ljn, Bob* 25-Nov-2009

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INVENTEC			
TITLE <i>Berlin 10</i> SCREW			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		5 OF	61

CHANGE by *Liu, Bob* 25-Nov-2009

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

ACES_91302_0047N_1_4P

For EMI

HW_V_ADC

close EC

+VBAT

+VADPTR

NFM60R30T222

L6001

D6005

PDS1040S

D6004

DIODES SMAJ20A_13_F_2P_OPEN

4.7K 5%

R6005

Q6002

AM4410NC

R6036

150_5%

+V3LA

Q6004

SSM3K7002FU

D6000

DIODE_BAV99

R6008

10K_5%

ACPRES

BAT54C_30V_0.2A

17435_LDO

R6012

45.3K_1%

R6013

4.3K_1%

C6028

0.1uF_25V

R6014

10_5%

C6025

1uF_10V

C6021

1uF_10V

C6022

1uF_10V

TP6002

TP6000

EC_SMB2_CLK

EC_SMB2_DATA

NEAR IC

R6016

1K_1%

C6023

1uF_25V

R6010

1K_1%

C6037

0.1uF_25V

L6002

NFM60R30T222

C6018

68uF_25V

Q6005

AM4825P_AP

R6031

0603_OPEN

Q6000

FDMC8884

C6005

4.7uF_25V

C6001

4.7uF_25V

C6002

470pF_50V

C6000

4.7uF_25V

PCMC063T_3R3MN

L6000

R6001

0.02_1%

C6016

4.7uF_25V

C6019

0805_OPEN

Q6001

FDMC8884

D6003

SBR3U40P1

R6004

2.2_5%

C6009

0.0015uF_50V

C6034

2470pF_50V

C6007

0.01uF_16V2

C6027

0.2uF_25V_OPEN

NEAR KBC

C6026

0.1uF_10V

HW_I_ADC

17435_VCC

CHG_EN

0X15	0X14
8.4V : 40D0h	512mA : 0200h_512mA
12.6V : 3140h	1.5A : 0600h_1.54A
16.8V : 41A0h	3A : 0C00h_3.07A

INVENTEC

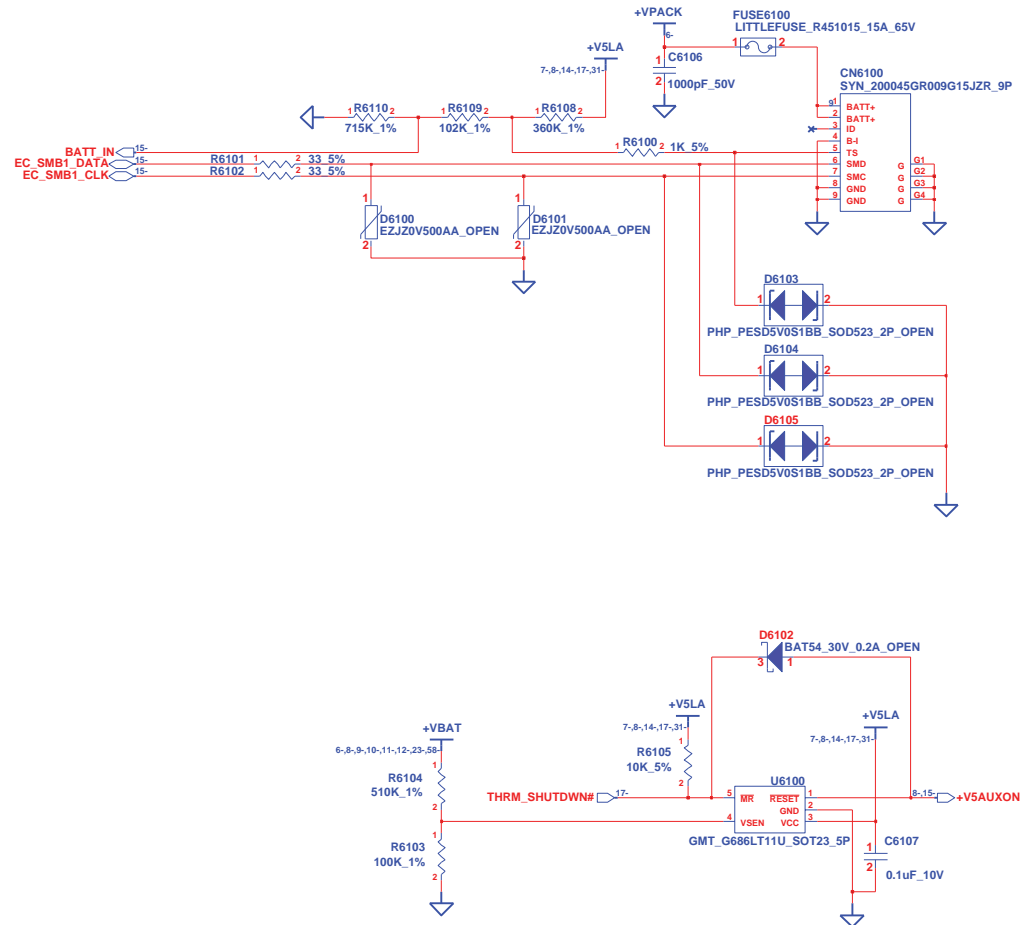
TITLE Berlin 10 SYSTEM POWER

SIZE A3 CODE CS ES DOC. NUMBER REV AXI

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INVENTEC

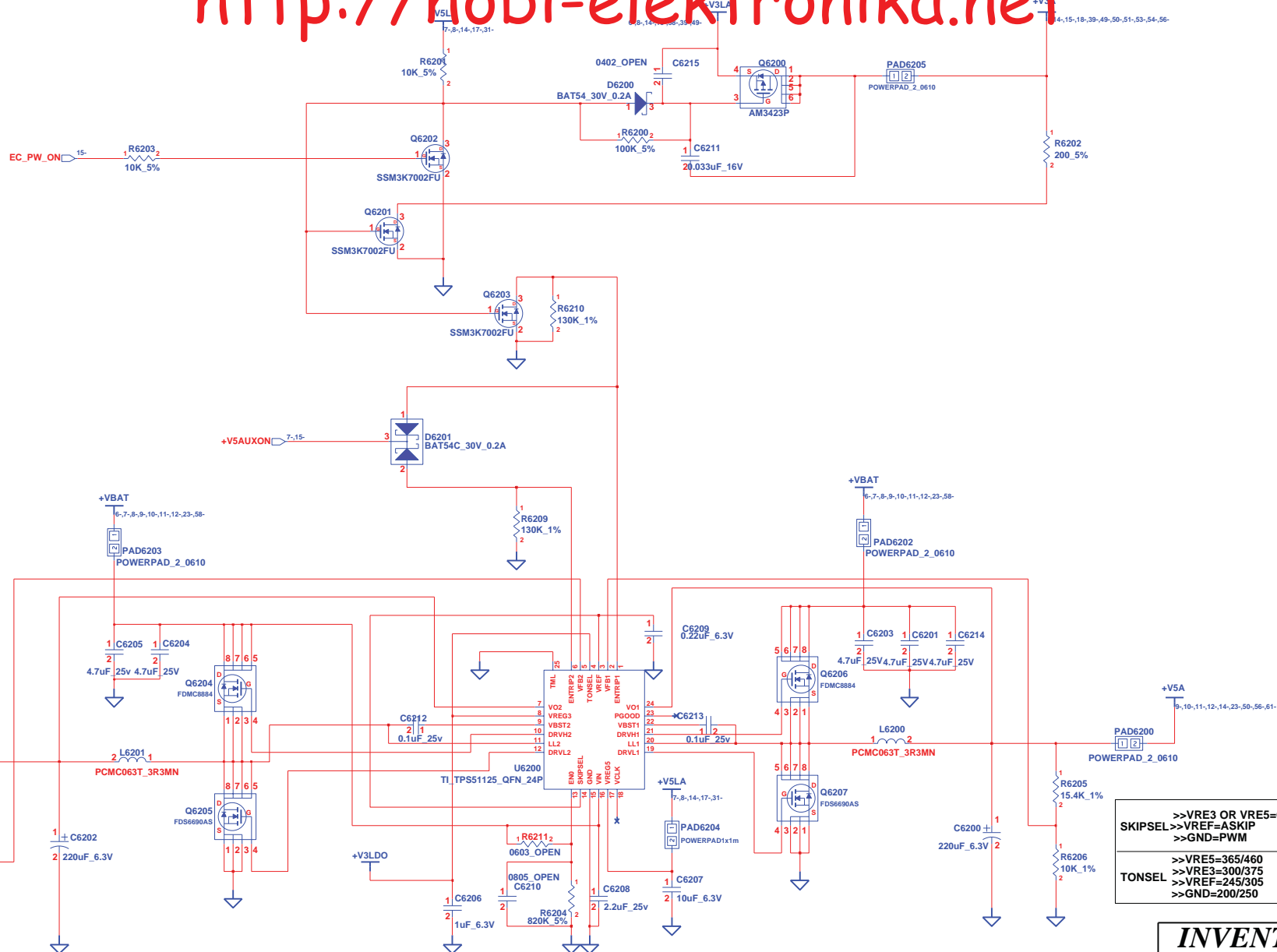
TITLE
Berlin 10
SELECT & BATTERY CONN

SIZE **A3** CODE **CS** ES DOC. NUMBER 7 OF 61 REV **AXI**

CHANGE by *Ljn, Bob* 25-Nov-2009

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>>VRE3 OR VRE5=OOA
 SKIPSEL>>VREF=ASKIP
 >>GND=PWM
 >>VRE5=365/460
 >>VRE3=300/375
 TONSEL >>VREF=245/305
 >>GND=200/250

INVENTEC

TITLE

SYSTEM POWER(3V/5V/12V)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

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The schematic diagram illustrates the power management system for the Berlin 10. It features several key components and stages:

- Input and Initial Regulation:** The circuit starts with a +V3S input, which is regulated by a TI TPS51218DCR (U6302) to produce +V5A. This stage includes a feedback network with resistors R6310, R6311, and R6312, and a compensation capacitor C6302.
- DC-DC Conversion:** A DC-DC converter (U6300) is used to convert +V5A to +V1.5. This stage includes an inductor L6300 and a feedback network with resistors R6303, R6304, and R6305, and a compensation capacitor C6304.
- Linear Regulation and Filtering:** The +V1.5 output is further regulated by a linear regulator (U6300) to produce +V0.75S. This stage includes a feedback network with resistors R6307, R6308, and R6309, and a compensation capacitor C6310.
- Power Distribution and Protection:** The circuit includes various power distribution points (+V3S, +V5A, +V1.5, +V0.75S) and protection components like fuses (F6301, F6302) and diodes (D6301, D6302).
- Component Values:** Key component values include:
 - Resistors: R6301 (2.2k), R6302 (0.5%), R6303 (10k), R6304 (11.5k), R6305 (0.1uF), R6307 (10k), R6308 (10k), R6309 (10k), R6310 (200k), R6311 (100k), R6312 (10k).
 - Capacitors: C6301 (0.5%), C6302 (2.2uF), C6303 (4.7uF), C6304 (560uF), C6307 (22uF), C6308 (1uF), C6309 (22uF), C6310 (0.1uF).
 - Inductors: L6300 (10uH), L6340 (10uH).

INVENTEC

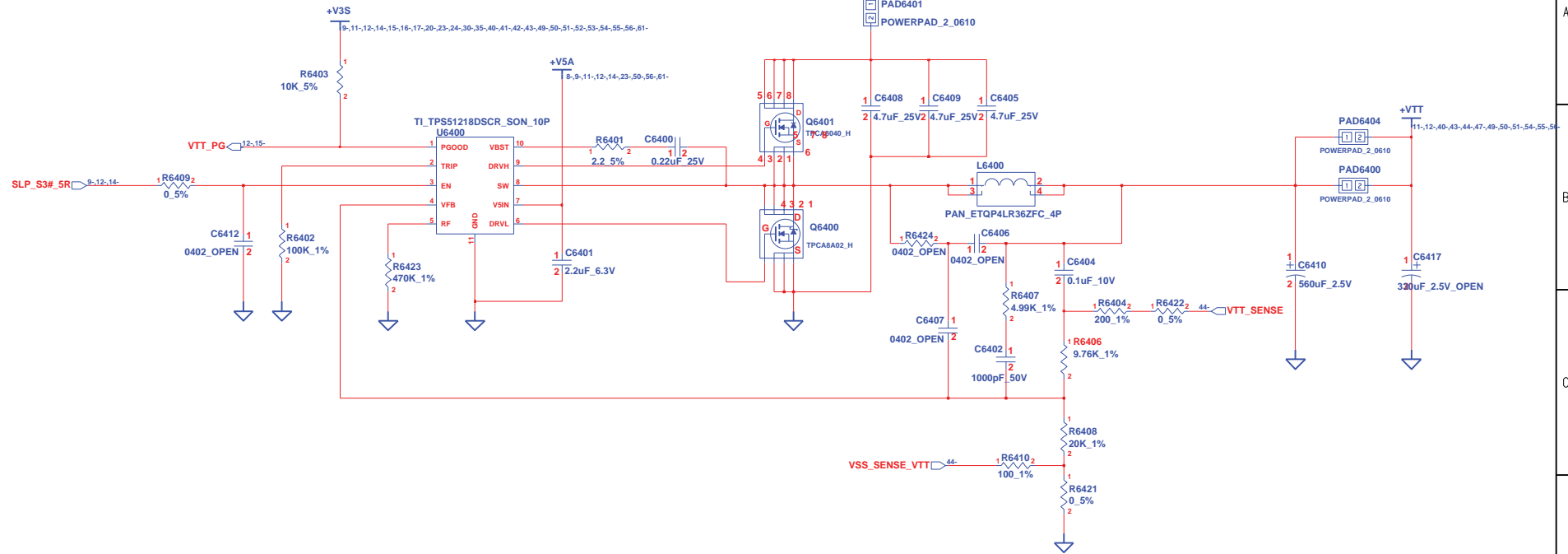
TITLE: Berlin 10
SYSTEM POWER(+V1.8/+V1.25S)

SIZE: A3
CODE: CS
DOC. NUMBER: ES
SHEET: 9 OF 61

CHANGE by: Lin, Bob
25-Nov-2009

TITLE			
Berlin 10 SYSTEM POWER(+V1.8/+V1.25S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
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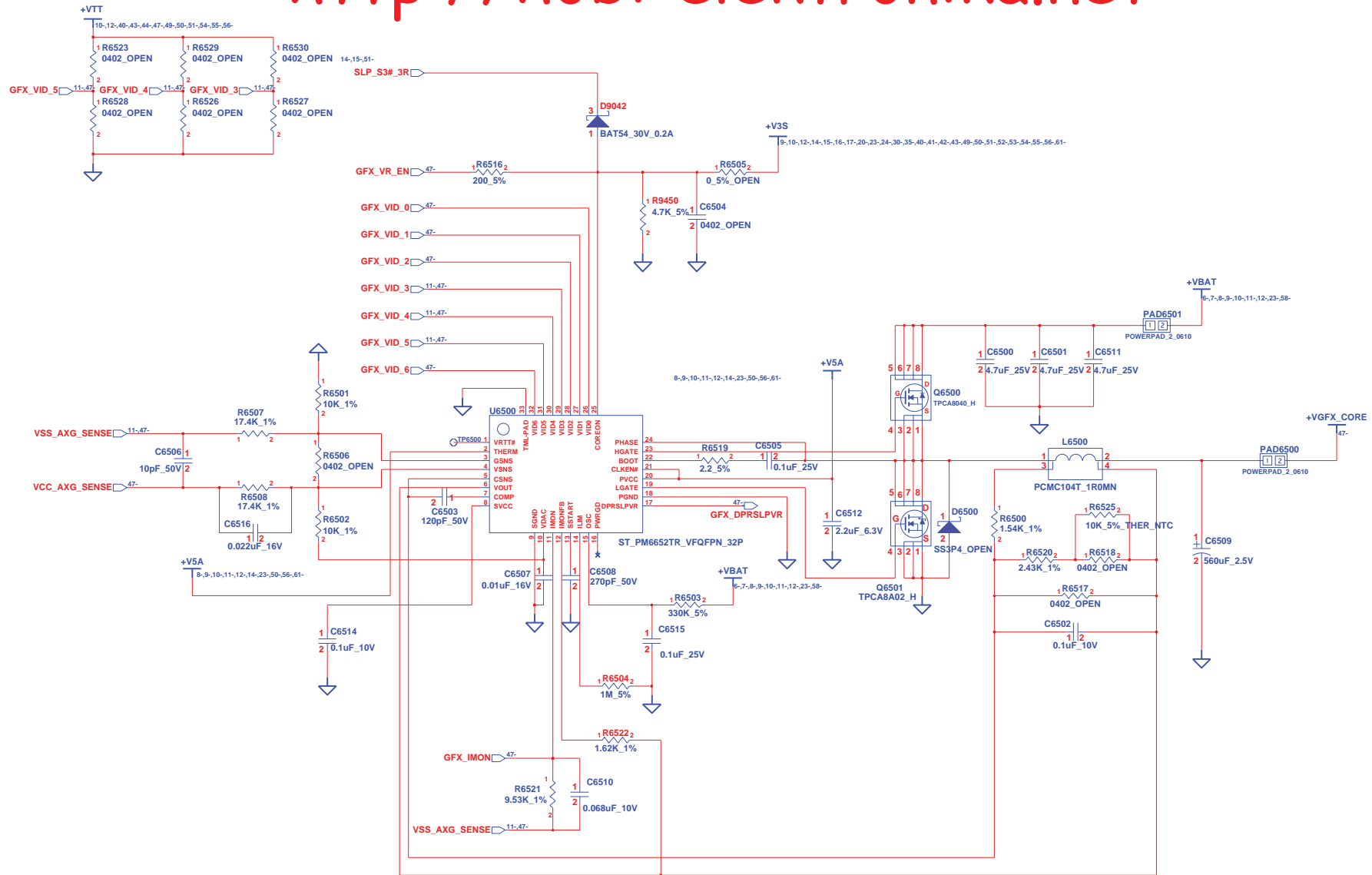
INVENTEC

TITLE			
Berlin 10			
GRAPHIC POWER (+VCCP/+V1.8S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

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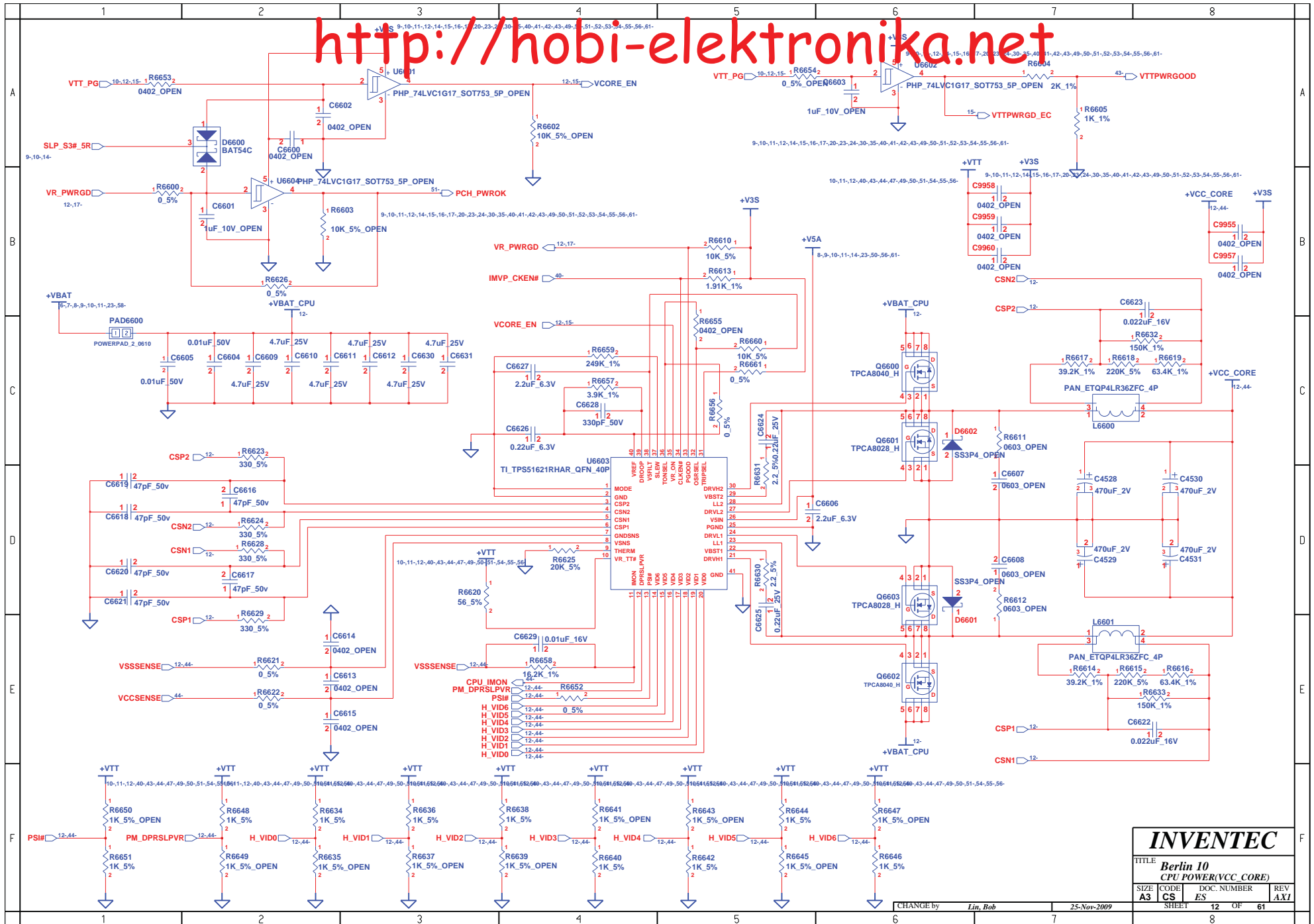


INVENTEC

TITLE			
Berlin 10			
SYSTEM POWER(+VGFX_CORE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

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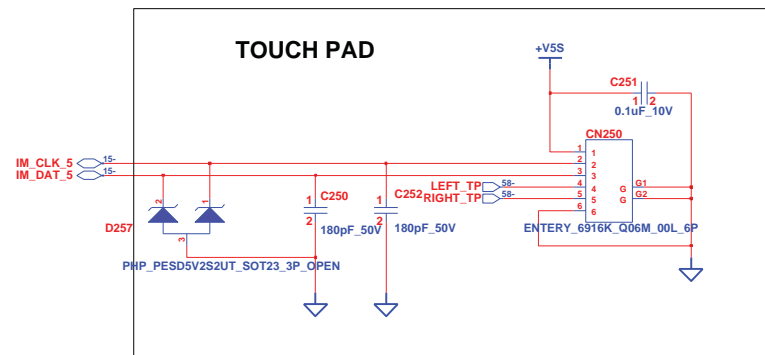
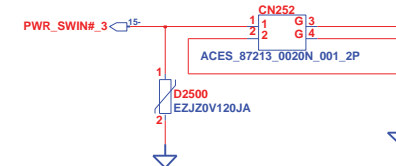
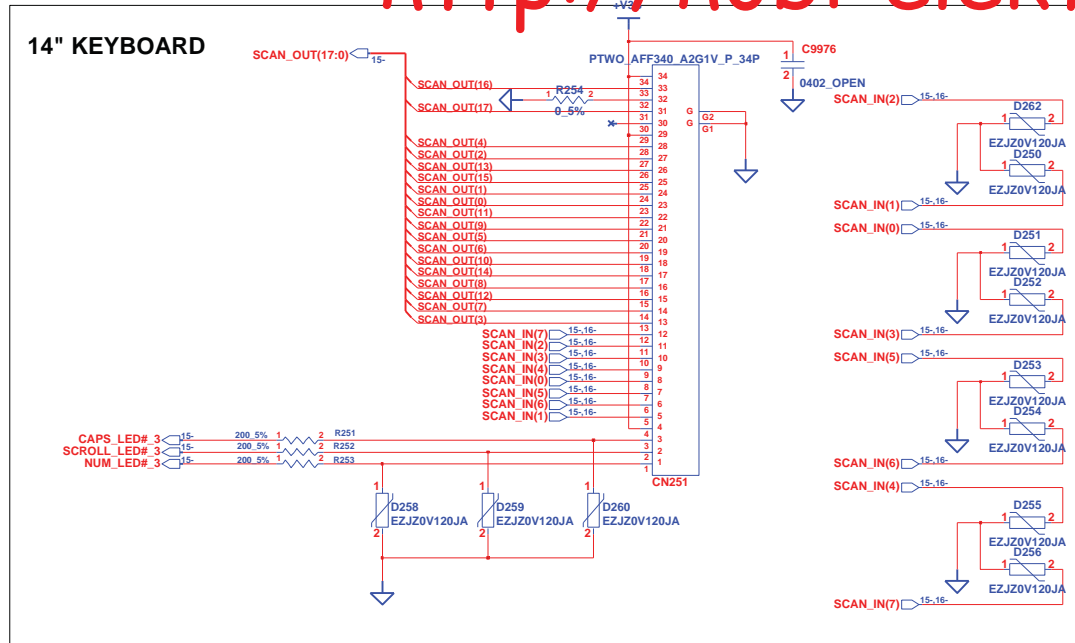
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INVENTEC			
TITLE <i>Berlin 10</i> VGA POWER			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		13	OF 61

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[illegible]

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INVENTEC

TITLE			
Berlin 10			
K/B & TP/B CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

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SHEET 16 OF 61

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FAN CN

THM

THM

GM Thermal shutdown at 80.8°C +/-3°C from 60°C to 100°C
PM Thermal shutdown at 86°C +/-3°C from 60°C to 100°C
RSET=0.0012*T²- 0.9308*T+96.147
Hysteresis is 30C

INVENTEC

TITLE: **Berlin 10**
FAN Thermal controller

SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by: *Ljn, Bob* 25-Nov-2009

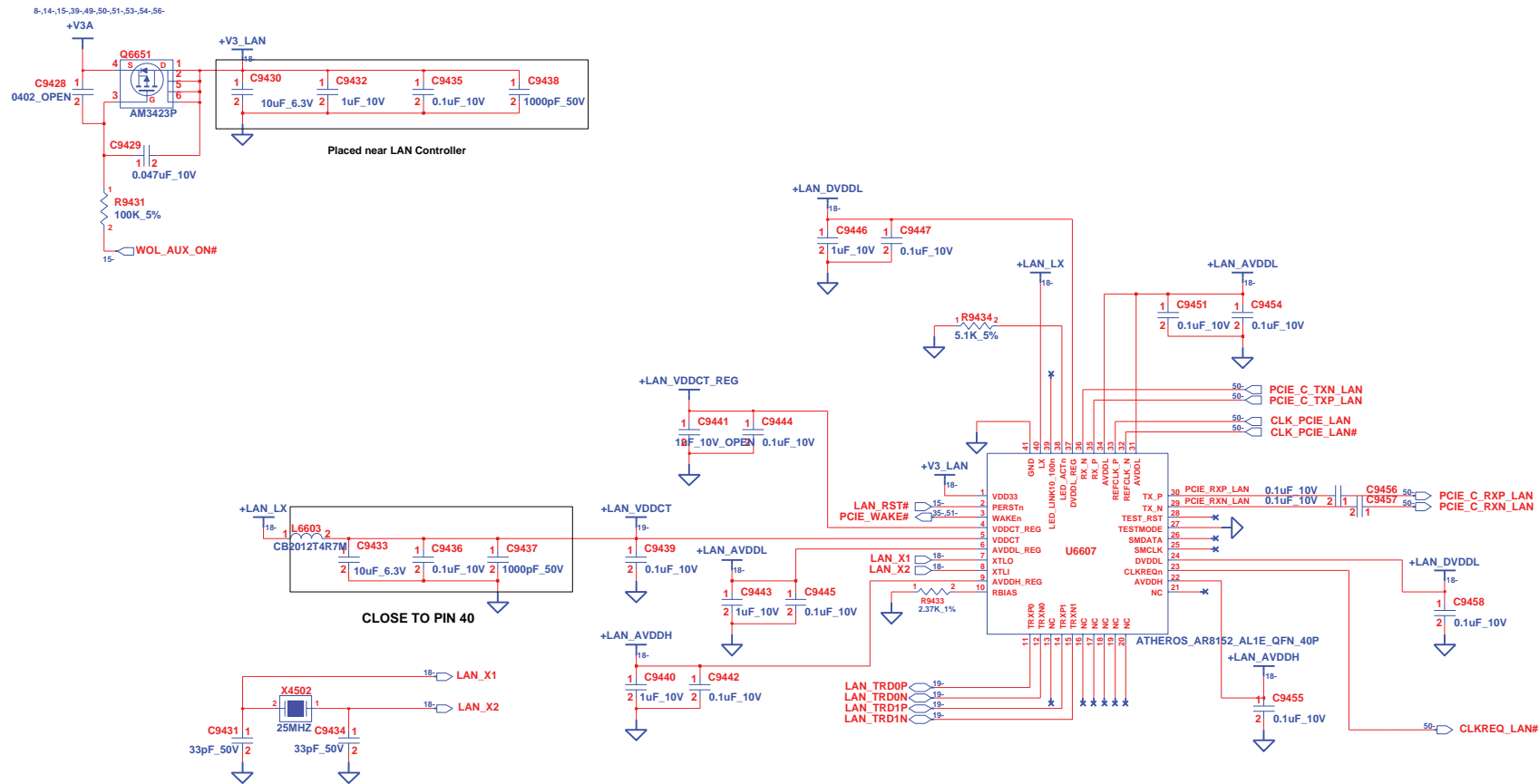
SHEET 17 OF 61

TITLE			
Berlin 10 <i>FAN,Thermal controller</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		17	OF 61

CHANGE by	<i>Lin. Bob</i>	25-Nov-2009
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CS	ES		
SHEET	17	OF	61

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INVENTEC

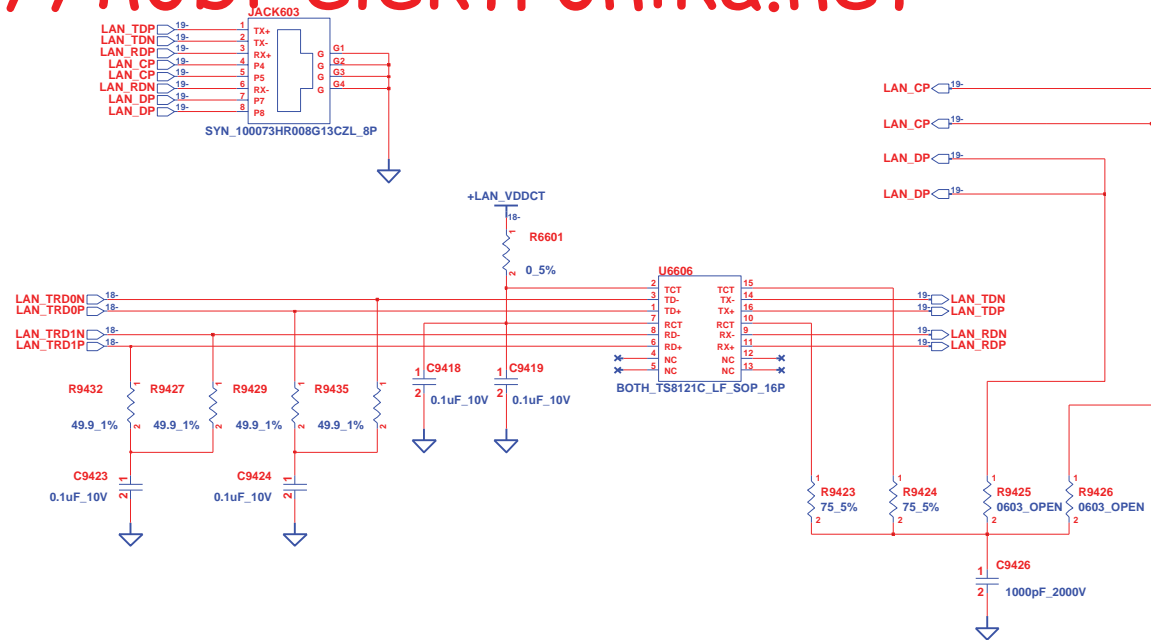
TITLE
Berlin 10
LAN

SIZE A3	CODE CS	ES	DOC. NUMBER	REV AXI
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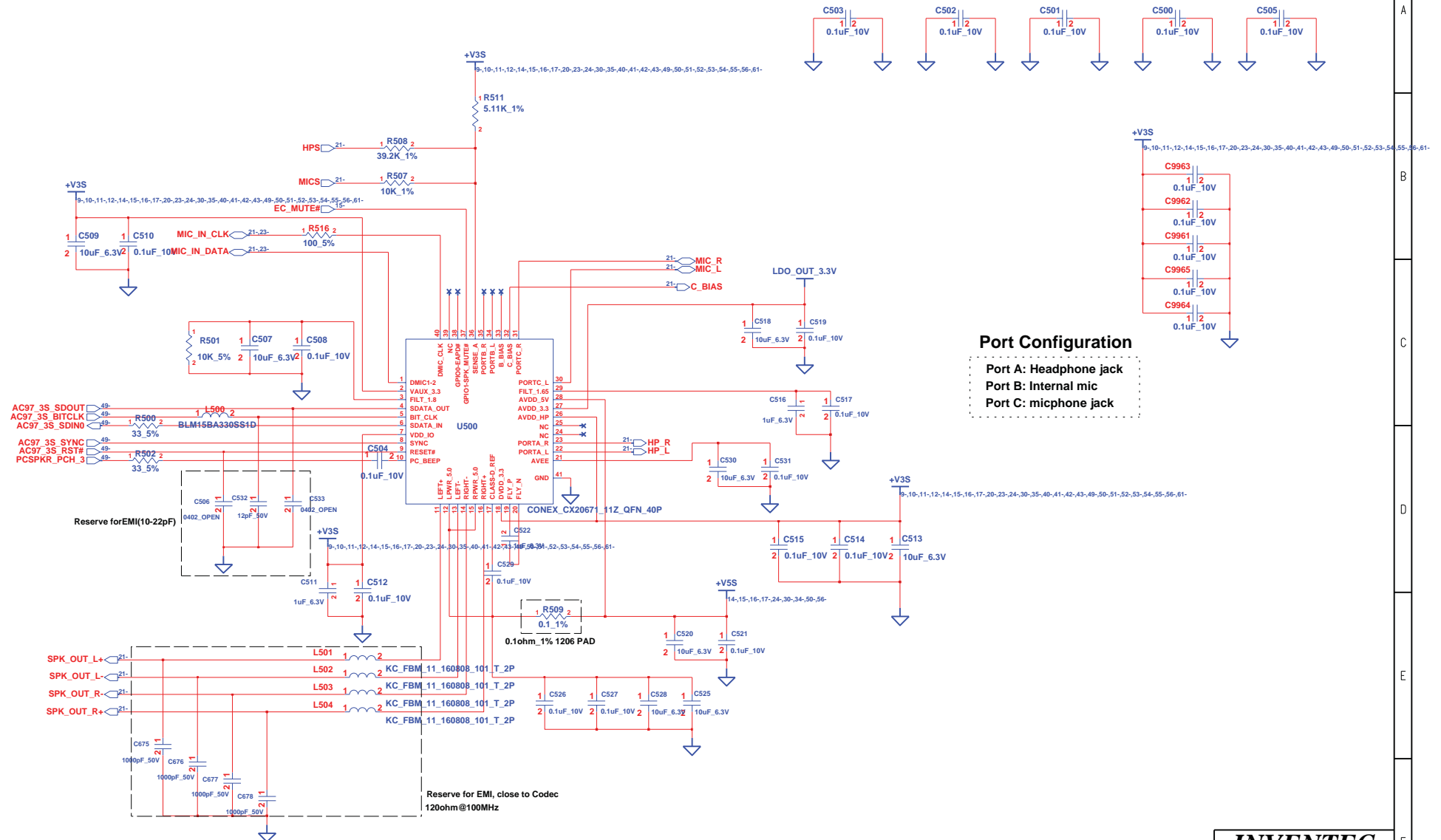
INVENTEC

TITLE			
Berlin 10			
RJ45 & TRANSFORMER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

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Port Configuration

Port A: Headphone jack
Port B: Internal mic
Port C: micphone jack

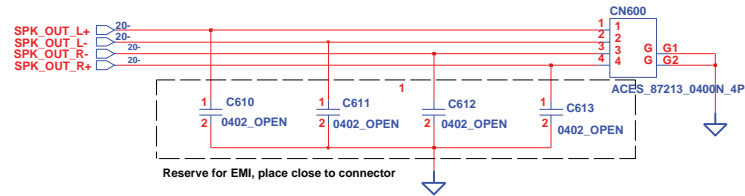
INVENTEC

TITLE Berlin 10 AUDIO CODEC			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
SHEET 20		OF 61	

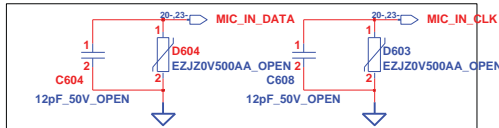
CHANGE by *Liu, Bob* 25-Nov-2009

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INTERNAL SPEAKERS

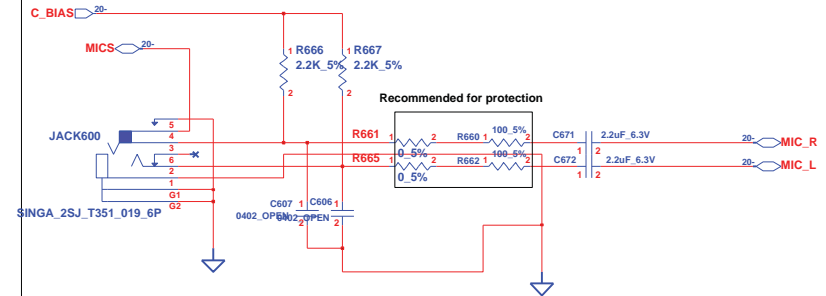


INTERNAL MIC

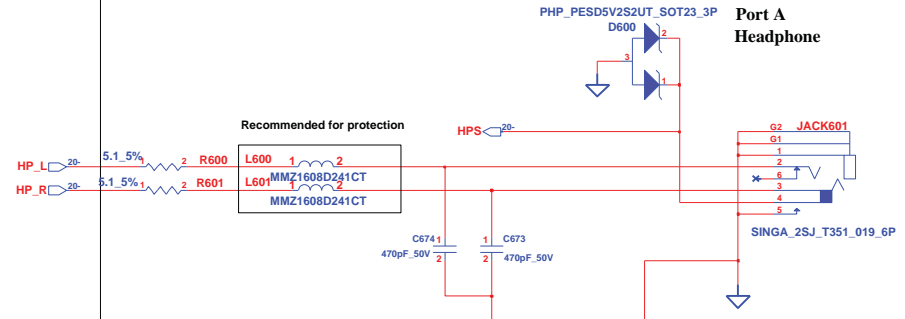


AUDIO JACKS

Port C External microphone



Port A Headphone



INVENTEC

TITLE			
Berlin 10			
AUDIO AMP&MIC&SPEAKER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

SHEET 21 OF 61

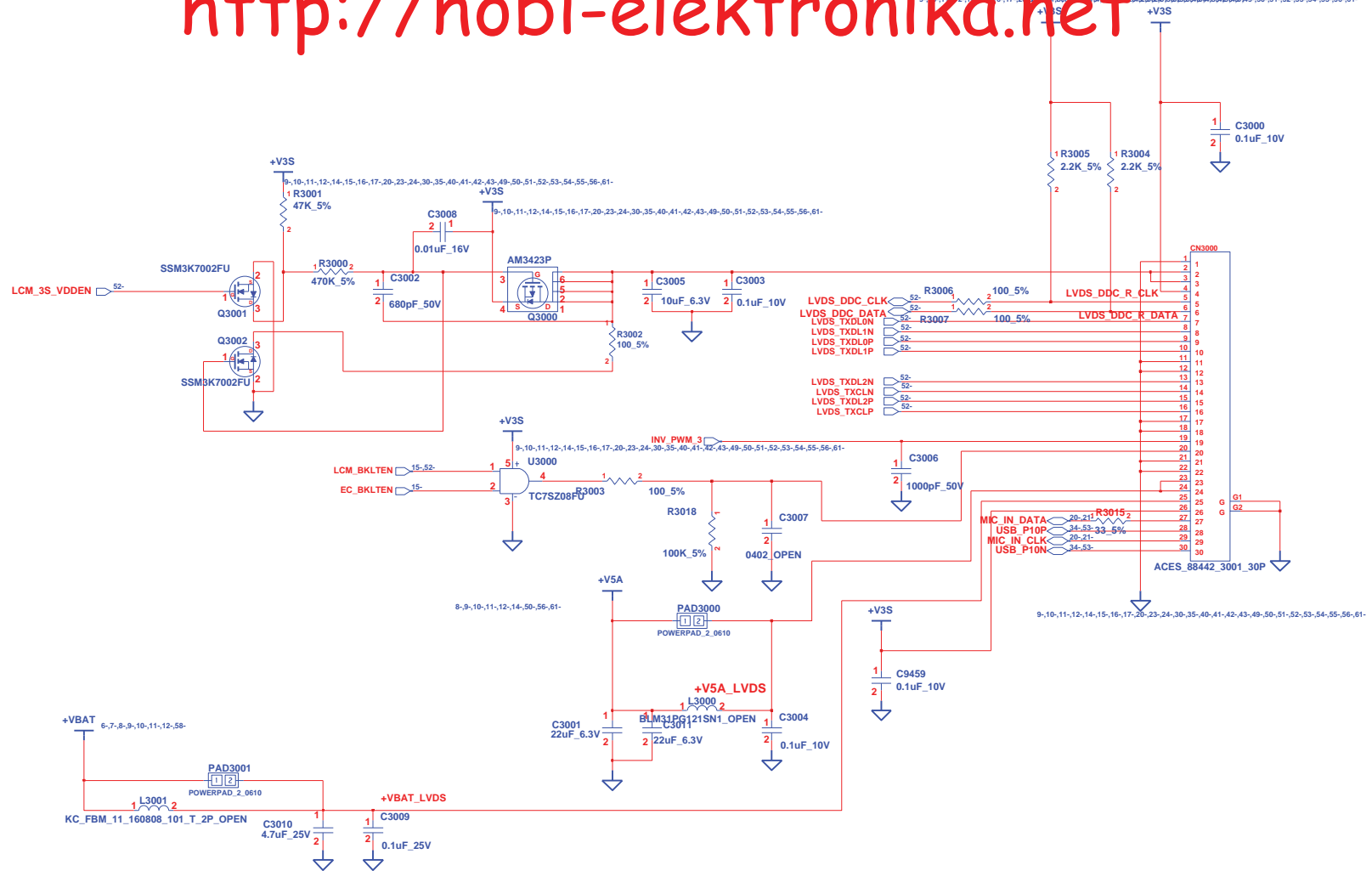
<http://hobi-elektronika.net>

	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	

INVENTEC			
TITLE Berlin 10			
MDC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		22	OF 61

CHANGE by Lin, Bob 4-Jan-2010

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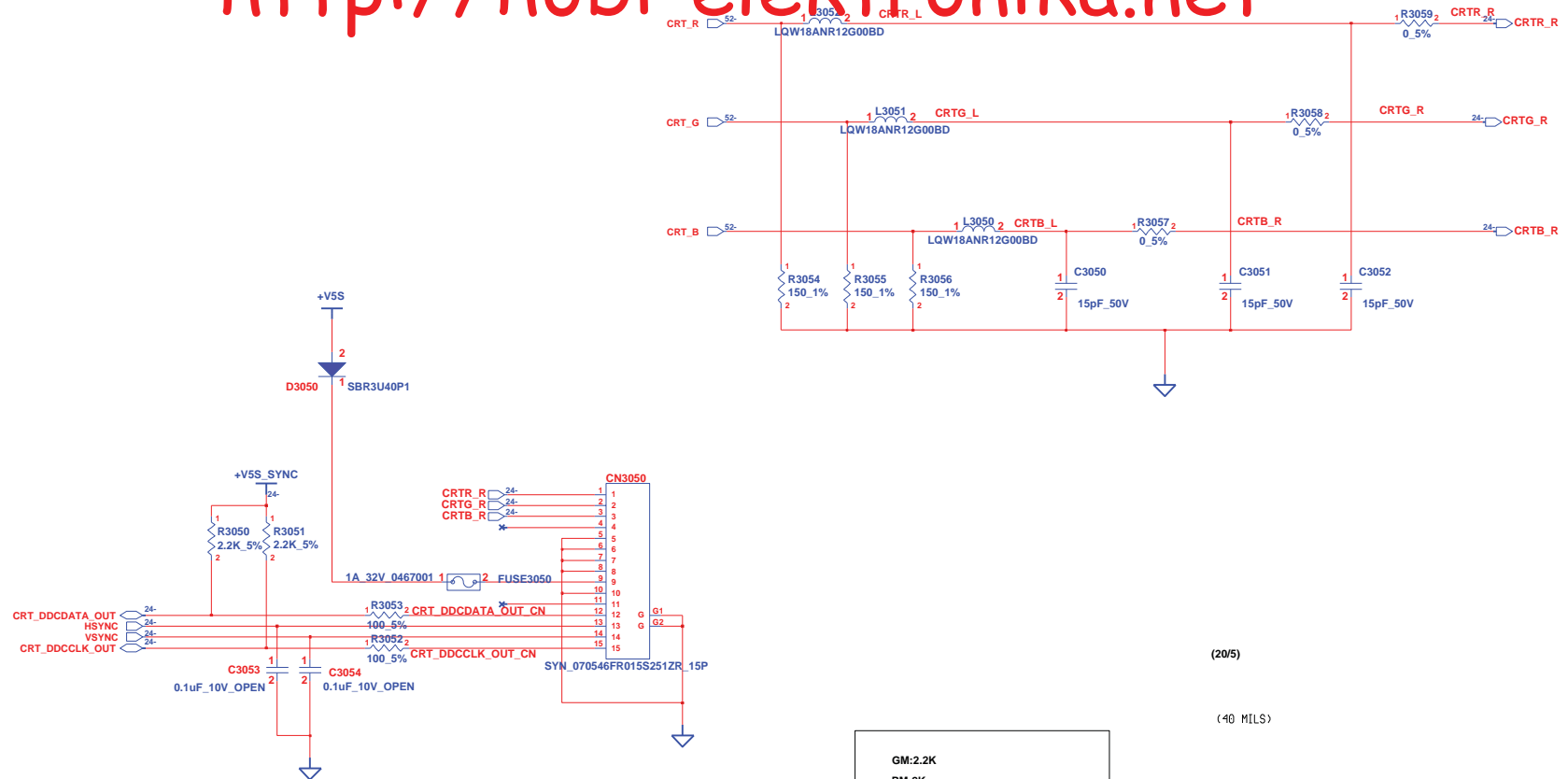
INVENTEC

TITLE			
Berlin 10			
LCM CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

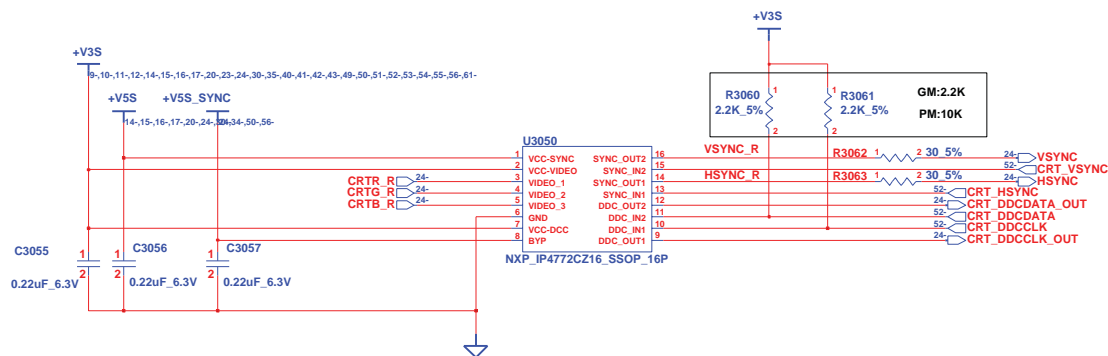
SHEET 23 OF 61

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GM:2.2K
PM:2K

9,10,11,12,14,15,16,17,20,23,24,30,35,40,41,42,43,49,50,51,52,53,54,55,56,61



RESERVE cap for EMI

INVENTEC

TITLE			
Berlin 10 RGB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Ljn, Bob</i>		25-Nov-2009	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10</i>			
CEC			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		25	OF 61

<http://hobi-elektronika.net>

	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	

INVENTEC			
TITLE Berlin 10 HDMI Level Shifter			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
CHANGE by Lip, Bob		4-Jan-2010	
SHEET		26	OF 61

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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10 HDMI CONN</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		27	OF 61

<http://hobi-elektronika.net>

	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	

INVENTEC			
TITLE Berlin 10 EXPRESS CARD			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
SHEET		28	OF 61

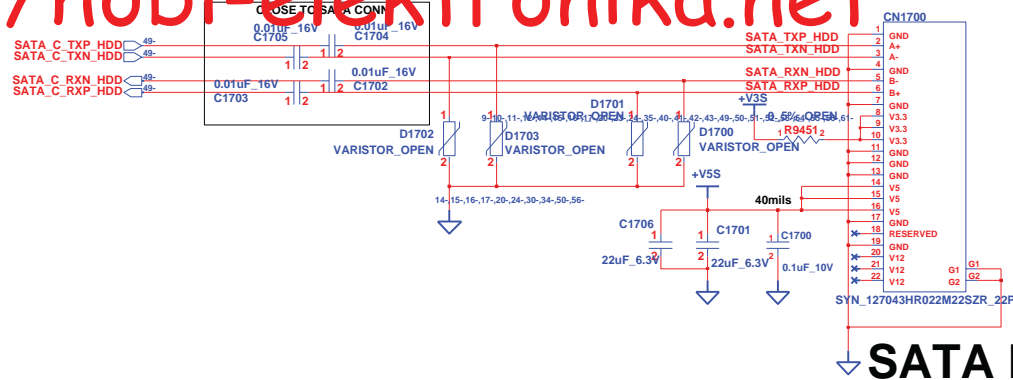
CHANGE by *Lip, Bob* 4-Jan-2010

<http://hobi-elektronika.net>

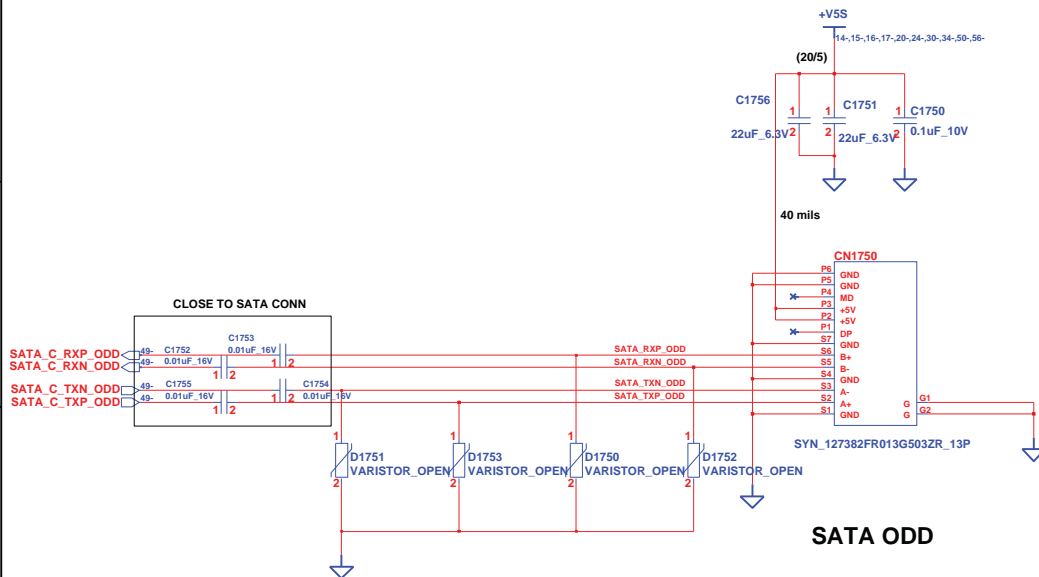
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A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10 Cardreader</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		29	OF 61

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SATA HDD01



SATA ODD

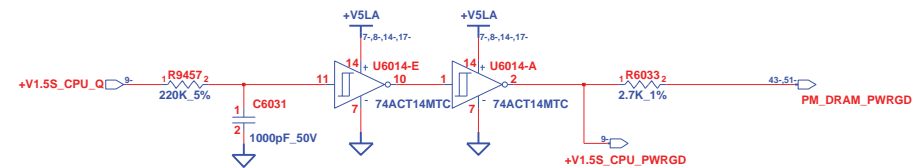
INVENTEC

TITLE			
Berlin 10			
SATA HDD & ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

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INVENTEC			
TITLE <i>Berlin 10</i>			
E-SATA			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
SHEET		31 OF	61

CHANGE by *Liu, Bob* 25-Nov-2009

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

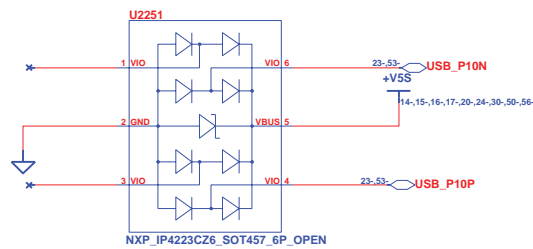
INVENTEC			
TITLE Berlin 10 USB CONN			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
SHEET		32	OF 61

<http://hobi-elektronika.net>

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10 Bluetooth</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		33	OF 61

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INVENTEC

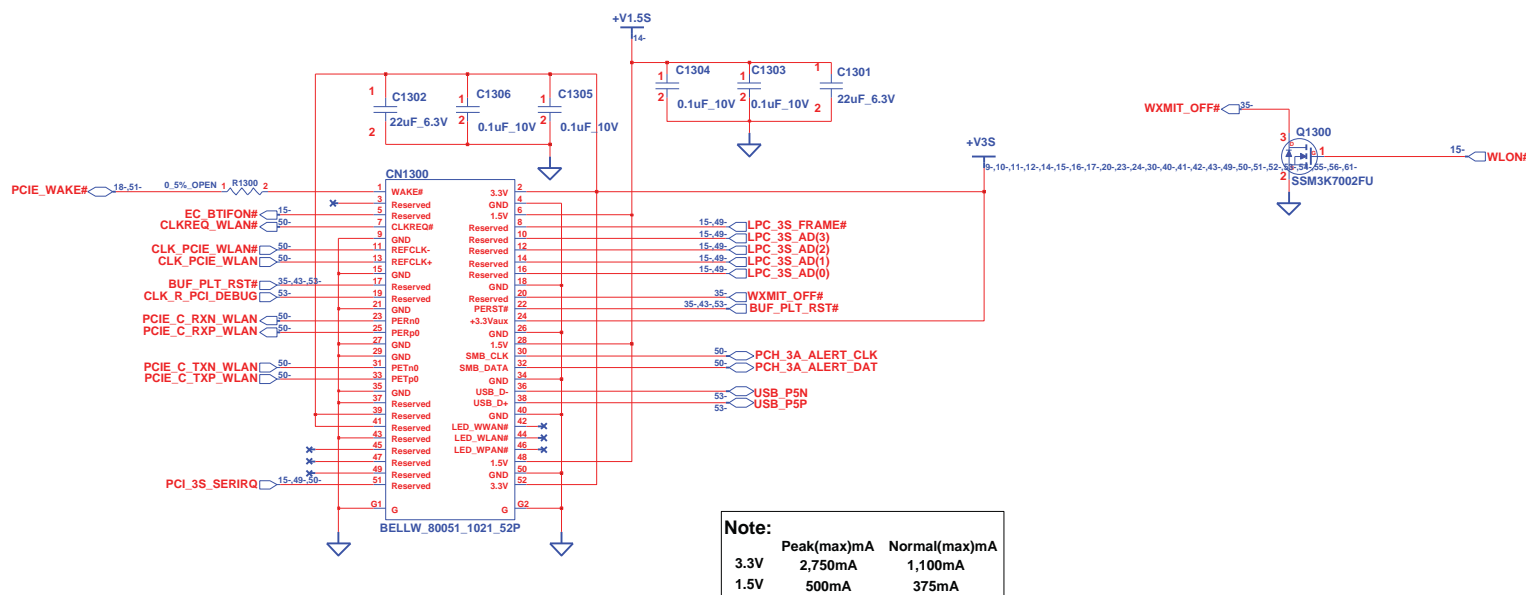
TITLE			
Berlin 10			
Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		34 OF	61

CHANGE by Lin, Bob 4-Jan-2010

8

Wireless & Debug card

<http://hobi-elektronika.net>



MINI CARD 1

INVENTEC

TITLE			
Berlin 10			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
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CHANGE by Lin, Bob 25-Nov-2009

8

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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
1	2	3	4	5	6	7	8		

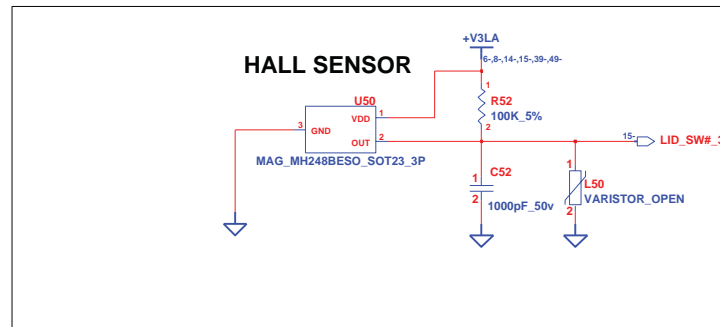
INVENTEC			
TITLE <i>Berlin 10</i> <i>3D sensor</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

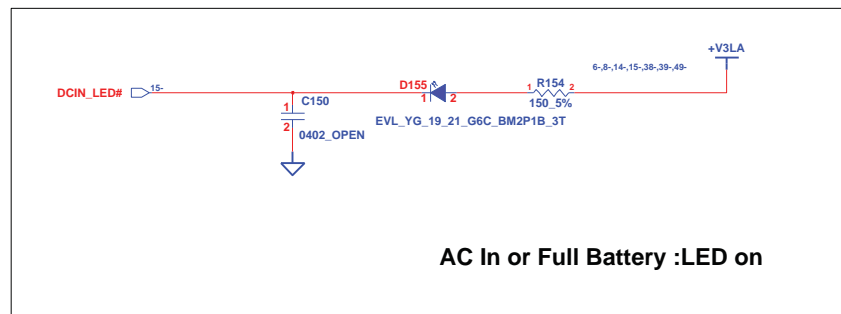
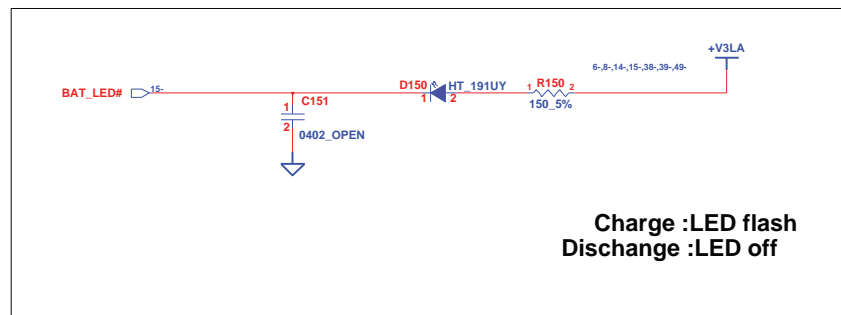
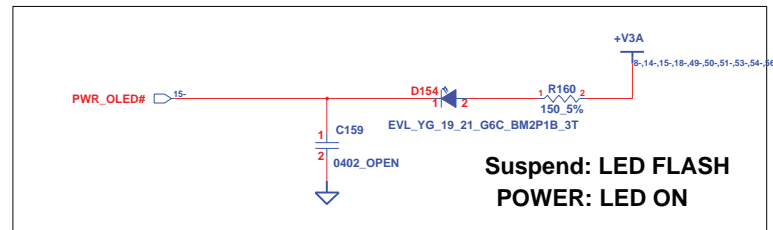
INVENTEC			
TITLE Berlin 10 KILL SW			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
CHANGE by <i>Lip, Bob</i>		4-Jan-2010	
SHEET		37	OF 61

<http://hobi-elektronika.net>



INVENTEC			
TITLE <i>Berlin 10</i>			
LID SW			
SIZE A3	CODE CS	DOC. NUMBER	REV AXI
CHANGE by <i>Lip, Bob</i>		25-Nov-2009	
SHEET		38 OF	61
		8	

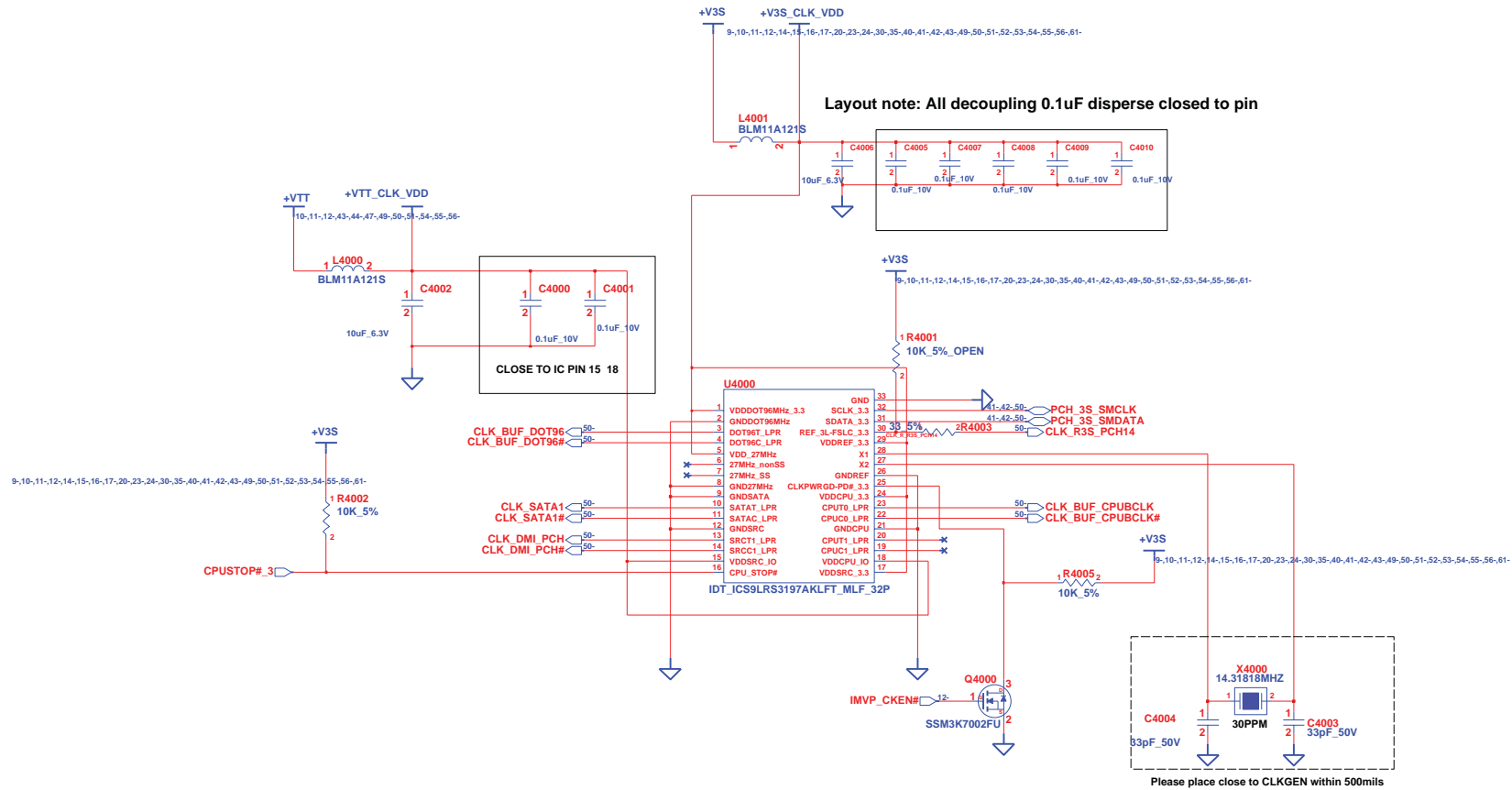
<http://hobi-elektronika.net>



INVENTEC			
TITLE <i>Berlin 10</i>			
LED			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		39 OF	61

CHANGE by *Liu, Bob* 25-Nov-2009

<http://hobi-elektronika.net>

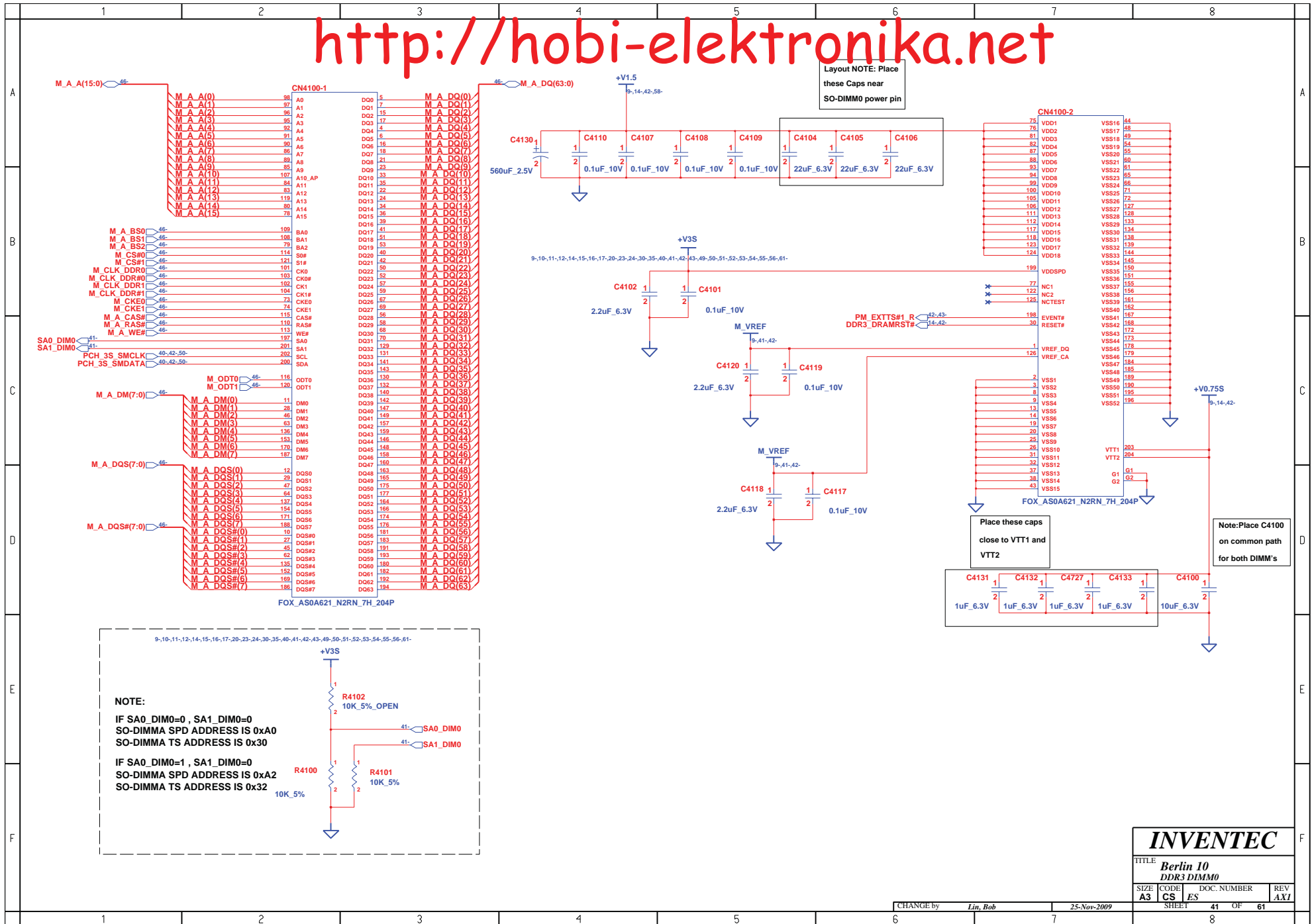


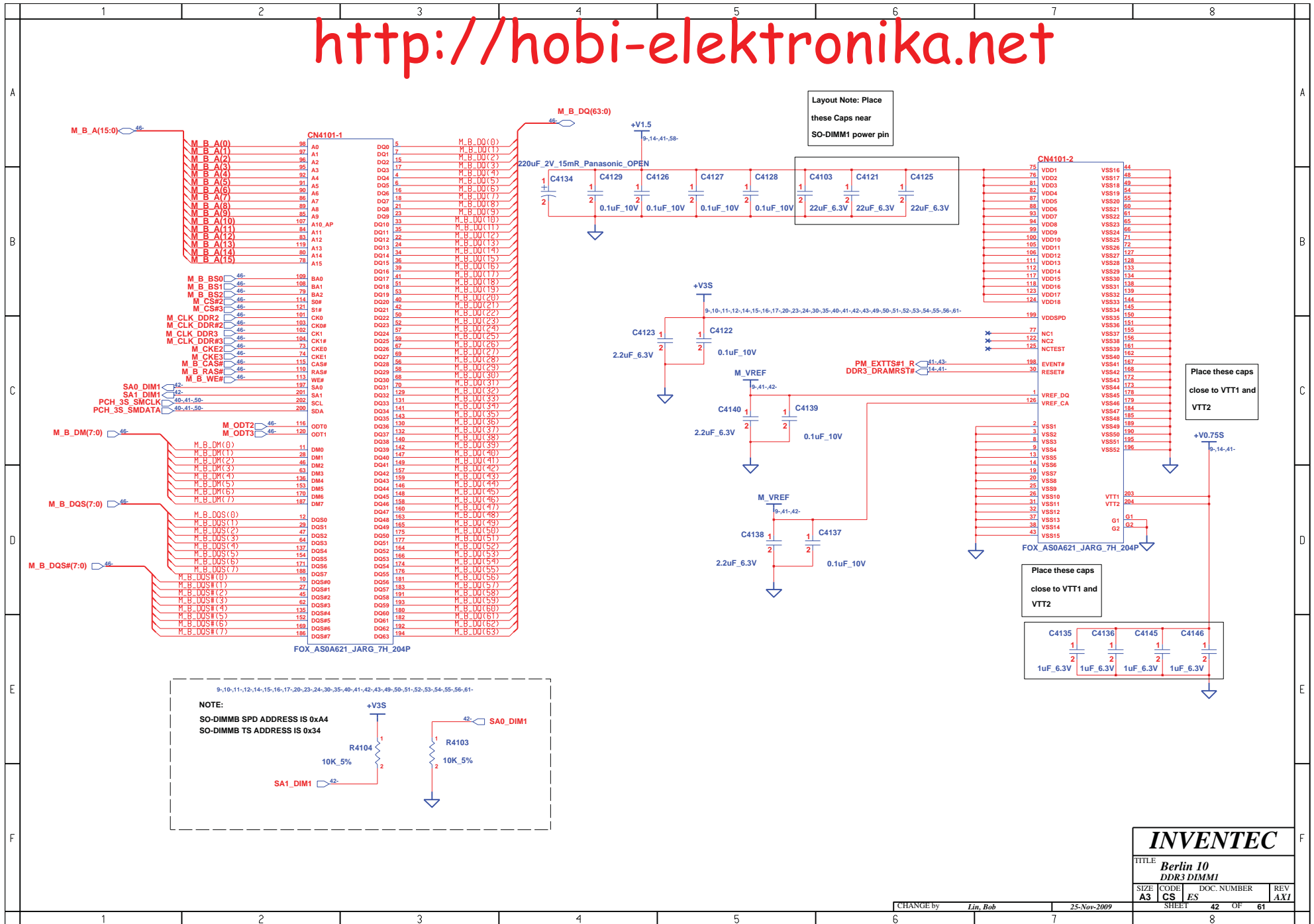
INVENTEC

TITLE			
Berlin 10			
CLOCK GENERATOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

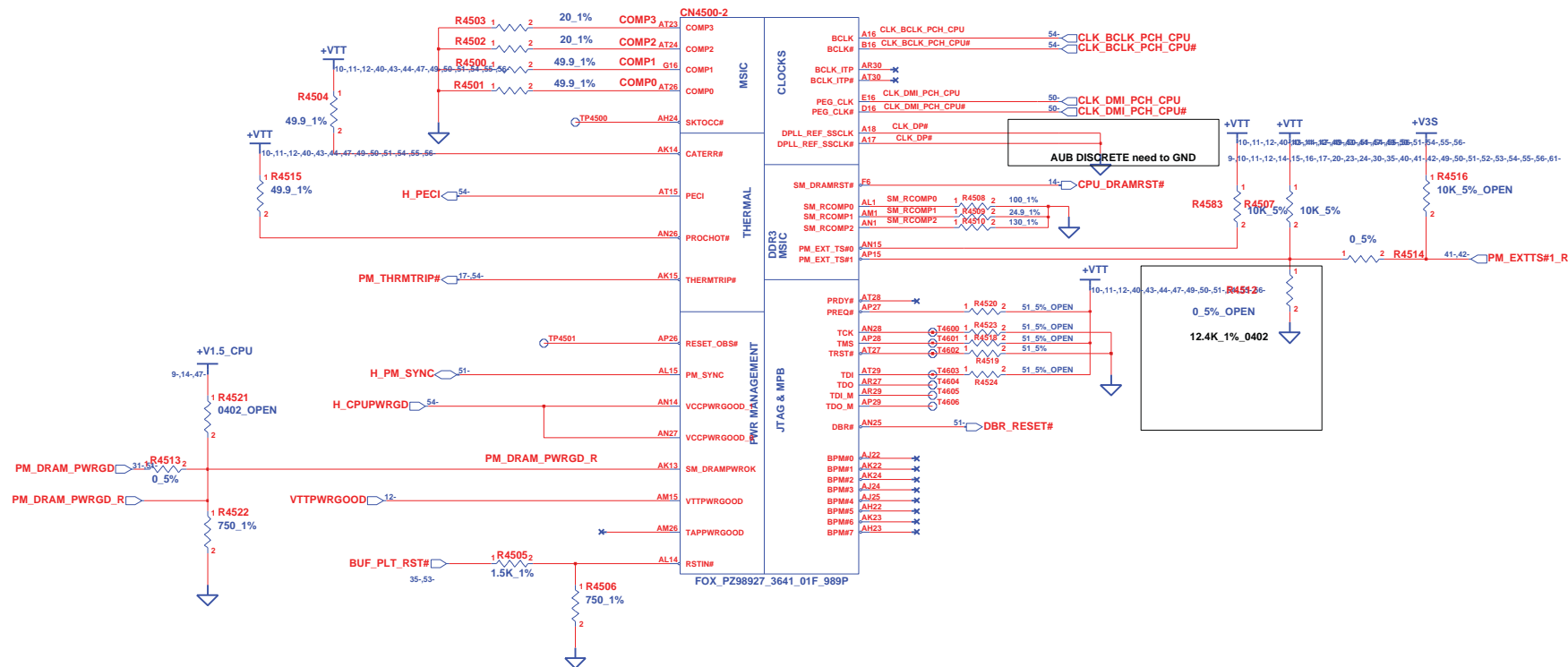
CHANGE by Lin, Bob 25-Nov-2009

SHEET 40 OF 61





<http://hobi-elektronika.net>



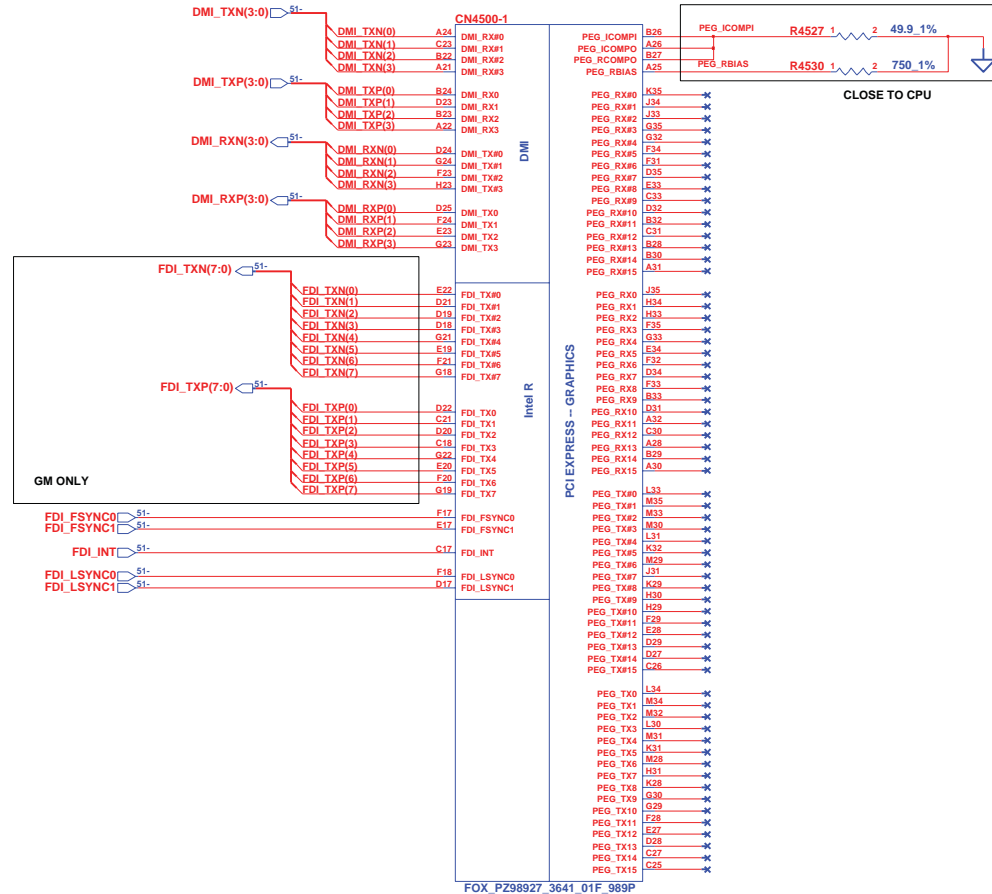
INVENTEC

TITLE			
Berlin 10 CPU 1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

SHEET 43 OF 61

<http://hobi-elektronika.net>



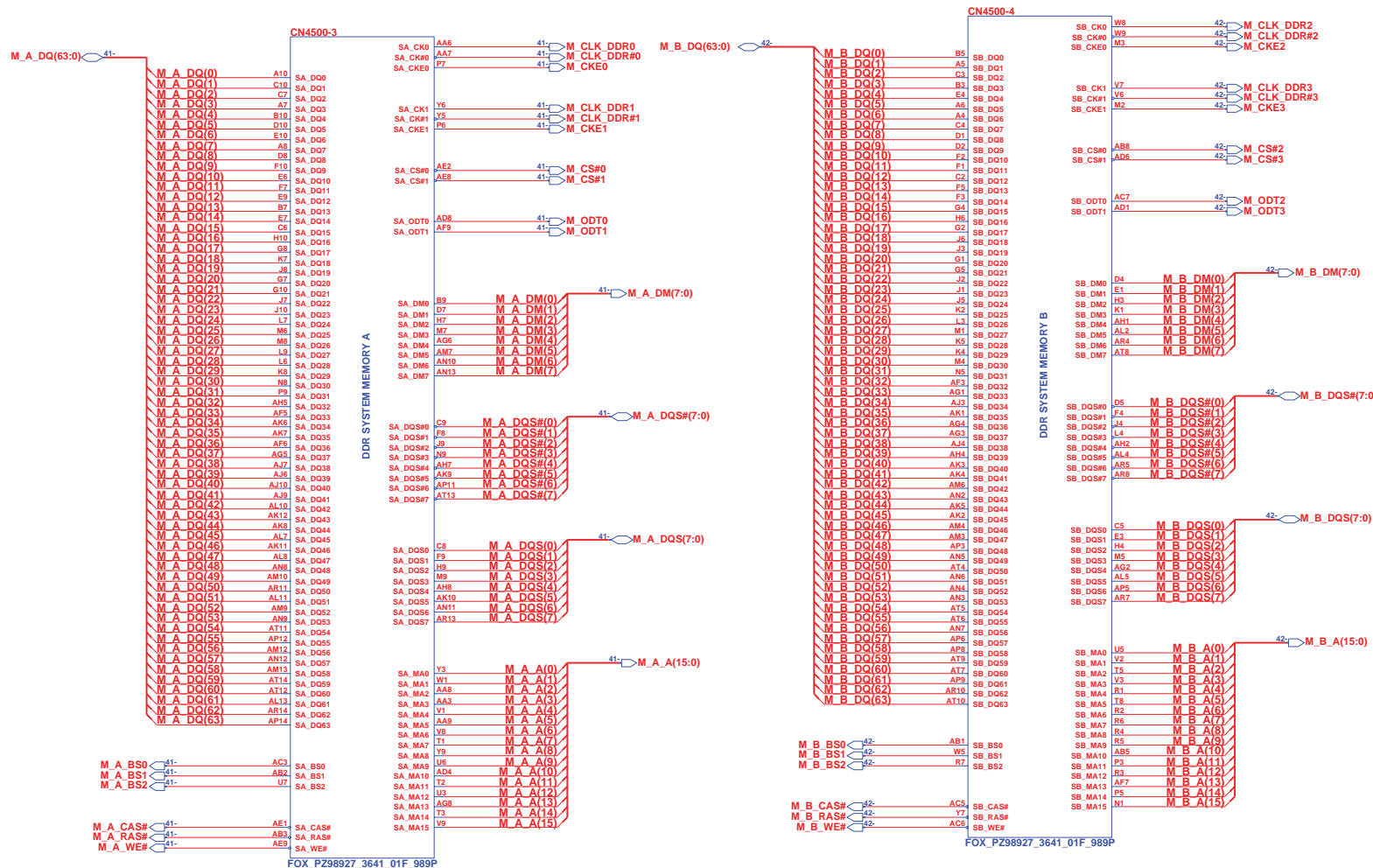
INVENTEC

TITLE			
Berlin 10			
CPU 3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		45 OF	61

CHANGE by Lin, Bob 25-Nov-2009

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INVENTEC

TITLE
Berlin 10
CPU 4
SIZE A3 CODE ES DOC. NUMBER REV AXI

CHANGE by Lin, Bob 25-Nov-2009

SHEET 46 OF 61

[illegible]

TITLE			
<i>Berlin 10</i> <i>CPU 5</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>ES</i>	<i>AXI</i>

CHANGE by	<i>Lin, Bob</i>	25-Nov-2009
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CS ES
SHEET 47 OF 61

[illegible]

TITLE			
<i>Berlin 10</i>			
<i>CPU 6</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>ES</i>	AX

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RTC BATTERY
+V3LA
6-8-14-15-38-39-
D4400 BAT54C_30V_0.2A
+V_RTC
49-56-
R4401 1K_1%
C4401 1uF_6.3V
CN4400 LOTES_AAA_BAT_019_K01_2P

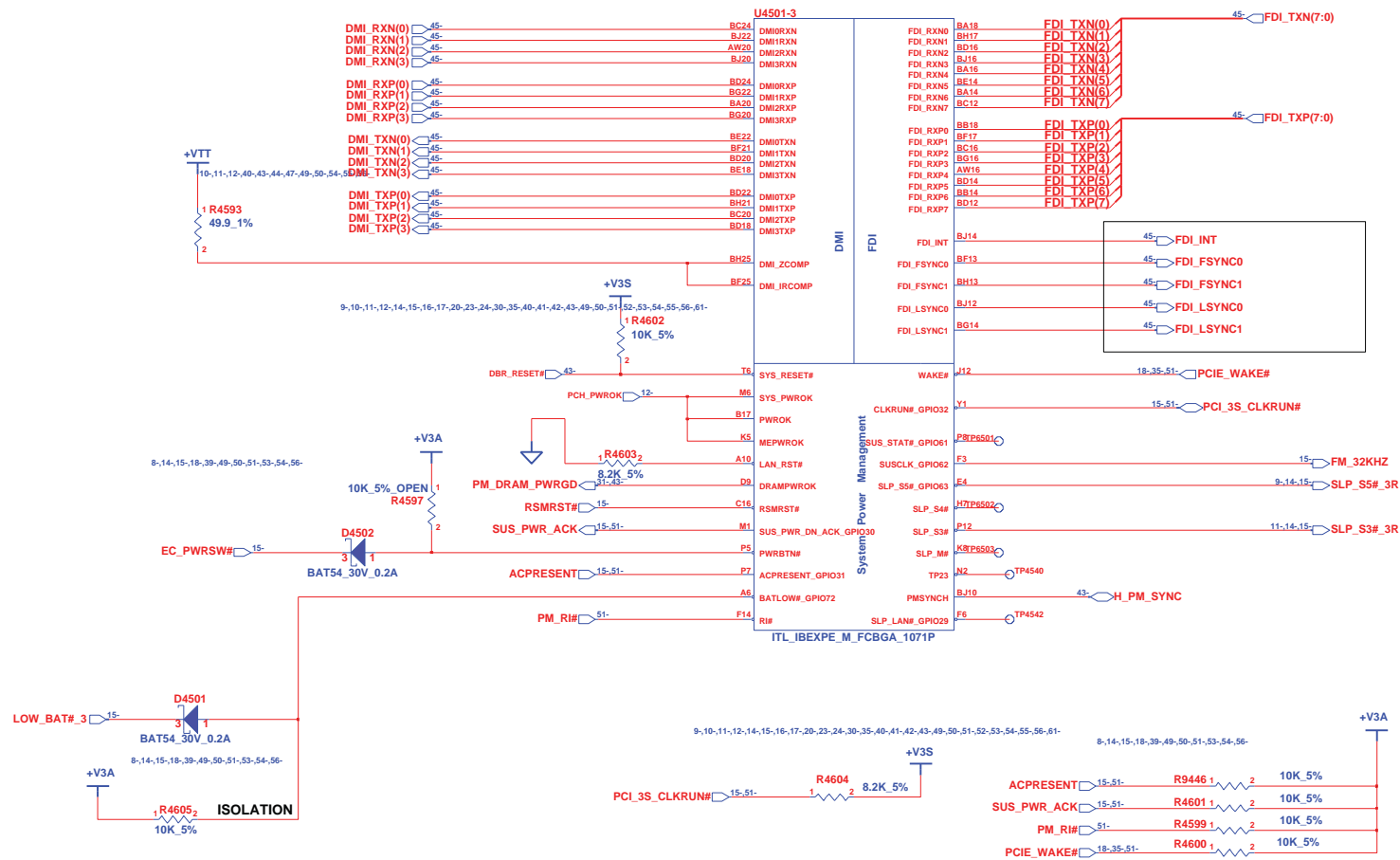
INTVRMEN-Integrated SUS 1.1V VRM Enable high-Enable Internal VRs
Strap pin: should not pull high
AC97_3S_BITCLK_R
AC97_3S_SYNC_R
AC97_3S_RST#_R
PCSPKR_PCH_3
AC97_3S_SDIN0
AC97_3S_SDOUT_FLASH_OVERRIDE
R4549 33_1%
R4544 33_1%
R4545 33_1%
R4546 33_1%
R4553 10K_5%
R4570 0_5%
R4554 3.3K_5%
C4598 1uF_6.3V
R4558 1M_5%
C4599 1uF_6.3V
R4557 20K_1%
C4597 1uF_6.3V
R4560 330K_5%
R4541 10M_5%
X4500 32.768KHz
C4587 18pF_50V
C4586 18pF_50V
R4960 0402_OPEN
R4962 0402_OPEN
R4964 0402_OPEN
R4966 0402_OPEN
R4968 0402_OPEN
R4963 0402_OPEN
R4965 0402_OPEN
R4967 0402_OPEN
R4969 0402_OPEN
JTAG_TDI#
JTAG_TMS#
JTAG_TDO#
JTAG_TRST#
LPC_3S_AD(0)
LPC_3S_AD(1)
LPC_3S_AD(2)
LPC_3S_AD(3)
LPC_3S_FRAME#
PCI_3S_SERIRQ
SATA0RXN
SATA0RXP
SATA0TXN
SATA0TXP
SATA1RXN
SATA1RXP
SATA1TXN
SATA1TXP
SATA2RXN
SATA2RXP
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SATA102RXN
SATA102RXP
SATA102TXN
SATA102TXP
SATA103RXN
SATA103RXP
SATA1

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The schematic diagram illustrates the electrical connections for the Berlin 10 PCH 2 PCB. It features a central ITL_IBEXPE_M_FCBGA_1071P package with various pins connected to external components and connectors. The diagram is organized into several functional blocks:

- LAN:** Shows connections for LAN signals, including LAN+, LAN-, and LAN#. It includes components like R4564, R4579, R4607, R4608, R4612, and R4580.
- WLAN:** Shows connections for WLAN signals, including WLAN+, WLAN-, and WLAN#. It includes components like R4579, R4607, R4608, R4612, and R4580.
- NEW CARD:** Shows connections for a new card, including CLKREQ_LAN#, CLKREQ_GPU#, CLKREQ_WLAN#, and CLKREQ_NCARD#. It includes components like R4580, R4581, R4582, R4583, R4584, R4585, R4586, R4587, R4588, R4589, R4590, R4591, R4592, R4593, R4594, R4595, R4596, R4597, R4598, R4599, R4600, R4601, R4602, R4603, R4604, R4605, R4606, R4607, R4608, R4609, R4610, R4611, R4612, R4613, R4614, R4615, R4616, R4617, R4618, R4619, R4620, R4621, R4622, R4623, R4624, R4625, R4626, R4627, R4628, R4629, R4630, R4631, R4632, R4633, R4634, R4635, R4636, R4637, R4638, R4639, R4640, R4641, R4642, R4643, R4644, R4645, R4646, R4647, R4648, R4649, R4650, R4651, R4652, R4653, R4654, R4655, R4656, R4657, R4658, R4659, R4660, R4661, R4662, R4663, R4664, R4665, R4666, R4667, R4668, R4669, R4670, R4671, R4672, R4673, R4674, R4675, R4676, R4677, R4678, R4679, R4680, R4681, R4682, R4683, R4684, R4685, R4686, R4687, R4688, R4689, R4690, R4691, R4692, R4693, R4694, R4695, R4696, R4697, R4698, R4699, R4700, R4701, R4702, R4703, R4704, R4705, R4706, R4707, R4708, R4709, R4710, R4711, R4712, R4713, R4714, R4715, R4716, R4717, R4718, R4719, R4720, R4721, R4722, R4723, R4724, R4725, R4726, R4727, R4728, R4729, R4730, R4731, R4732, R4733, R4734, R4735, R4736, R4737, R4738, R4739, R4740, R4741, R4742, R4743, R4744, R4745, R4746, R4747, R4748, R4749, R4750, R4751, R4752, R4753, R4754, R4755, R4756, R4757, R4758, R4759, R4760, R4761, R4762, R4763, R4764, R4765, R4766, R4767, R4768, R4769, R4770, R4771, R4772, R4773, R4774, R4775, R4776, R4777, R4778, R4779, R4780, R4781, R4782, R4783, R4784, R4785, R4786, R4787, R4788, R4789, R4790, R4791, R4792, R4793, R4794, R4795, R4796, R4797, R4798, R4799, R4800, R4801, R4802, R4803, R4804, R4805, R4806, R4807, R4808, R4809, R4810, R4811, R4812, R4813, R4814, R4815, R4816, R4817, R4818, R4819, R4820, R4821, R4822, R4823, R4824, R4825, R4826, R4827, R4828, R4829, R4830, R4831, R4832, R4833, R4834, R4835, R4836, R4837, R4838, R4839, R4840, R4841, R4842, R4843, R4844, R4845, R4846, R4847, R4848, R4849, R4850, R4851, R4852, R4853, R4854, R4855, R4856, R4857, R4858, R4859, R4860, R4861, R4862, R4863, R4864, R4865, R4866, R4867, R4868, R4869, R4870, R4871, R4872, R4873, R4874, R4875, R4876, R4877, R4878, R4879, R4880, R4881, R4882, R4883, R4884, R4885, R4886, R4887, R4888, R4889, R4890, R4891, R4892, R4893, R4894, R4895, R4896, R4897, R4898, R4899, R4900, R4901, R4902, R4903, R4904, R4905, R4906, R4907, R4908, R4909, R4910, R4911, R4912, R4913, R4914, R4915, R4916, R4917, R4918, R4919, R4920, R4921, R4922, R4923, R4924, R4925, R4926, R4927, R4928, R4929, R4930, R4931, R4932, R4933, R4934, R4935, R4936, R4937, R4938, R4939, R4940, R4941, R4942, R4943, R4944, R4945, R4946, R4947, R4948, R4949, R4950, R4951, R4952, R4953, R4954, R4955, R4956, R4957, R4958, R4959, R4960, R4961, R4962, R4963, R4964, R4965, R4966, R4967, R4968, R4969, R4970, R4971, R4972, R4973, R4974, R4975, R4976, R4977, R4978, R4979, R4980, R4981, R4982, R4983, R4984, R4985, R4986, R4987, R4988, R4989, R4990, R4991, R4992, R4993, R4994, R4995, R4996, R4997, R4998, R4999, R5000, R5001, R5002, R5003, R5004, R5005, R5006, R5007, R5008, R5009, R5010, R5011, R5012, R5013, R5014, R5015, R5016, R5017, R5018, R5019, R5020, R5021, R5022, R5023, R5024, R5025, R5026, R5027, R5028, R5029, R5030, R5031, R5032, R5033, R5034, R5035, R5036, R5037, R5038, R5039, R5040, R5041, R5042, R5043, R5044, R5045, R5046, R5047, R5048, R5049, R5050, R5051, R5052, R5053, R5054, R5055, R5056, R5057, R5058, R5059, R5060, R5061, R5062, R5063, R5064, R5065, R5066, R5067, R5068, R5069, R5070, R5071, R5072, R5073, R5074, R5075, R5076, R5077, R5078, R5079, R5080, R5081, R5082, R5083, R5084, R5085, R5086, R5087, R5088, R5089, R5090, R5091, R5092, R5093, R5094, R5095, R5096, R5097, R5098, R5099, R5100, R5101, R5102, R5103, R5104, R5105, R5106, R5107, R5108, R5109, R5110, R5111, R5112, R5113, R5114, R5115, R5116, R5117, R5118, R5119, R5120, R5121, R5122, R5123, R5124, R5125, R5126, R5127, R5128, R5129, R5130, R5131, R5132, R5133, R5134, R5135, R5136, R5137, R5138, R5139, R5140, R5141, R5142, R5143, R5144, R5145, R5146, R5147, R5148, R5149, R5150, R5151, R5152, R5153, R5154, R5155, R5156, R5157, R5158, R5159, R5160, R5161, R5162, R5163, R5164, R5165, R5166, R5167, R5168, R5169, R5170, R5171, R5172, R5173, R5174, R5175, R5176, R5177, R5178, R5179, R5180, R5181, R5182, R5183, R5184, R5185, R5186, R5187, R5188, R5189, R5190, R5191, R5192, R5193, R5194, R5195,

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INVENTEC

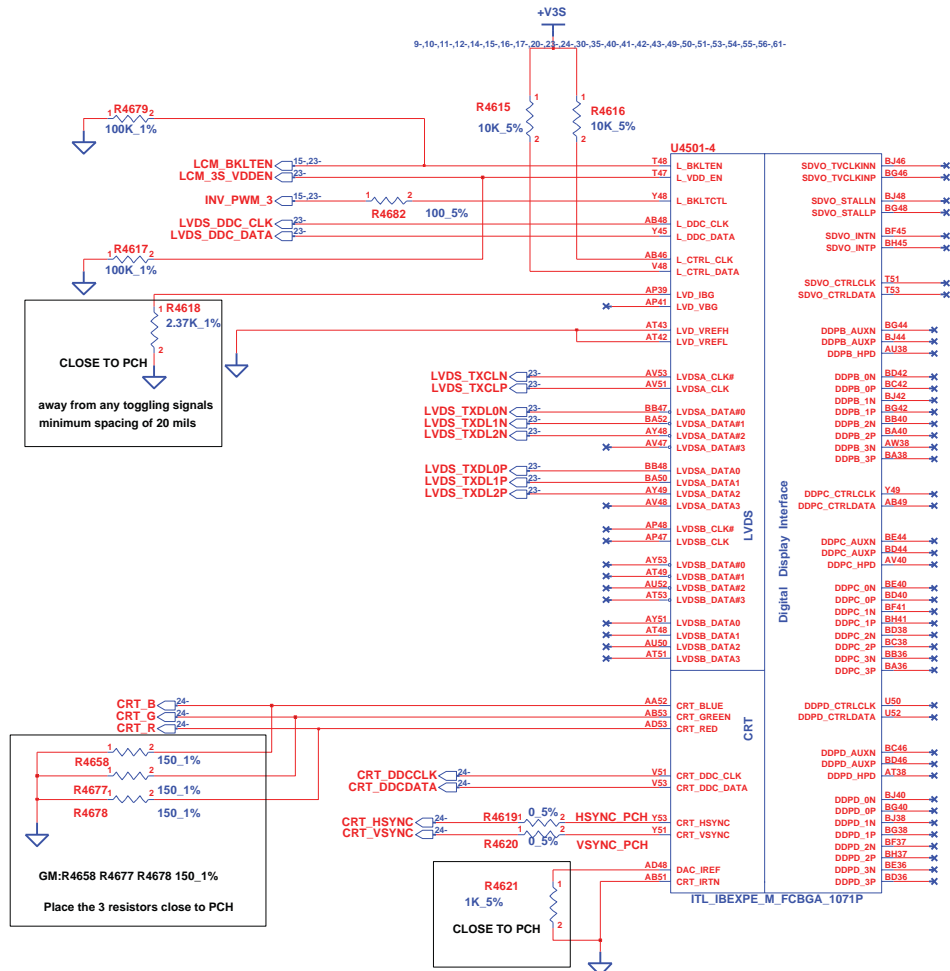
TITLE			
Berlin 10			
PCH 3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

SHEET 51 OF 61

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<http://hobi-elektronika.net>



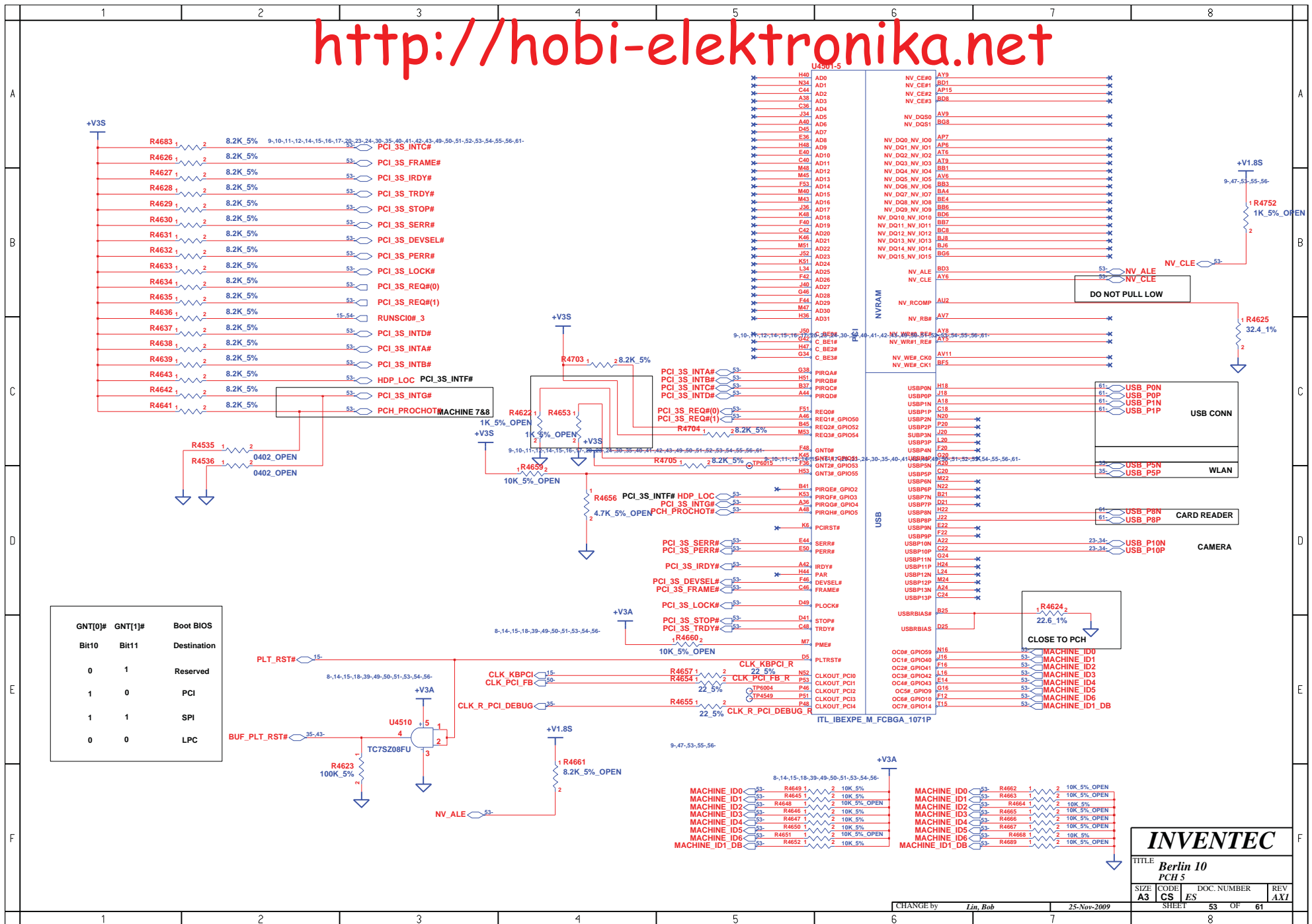
INVENTEC

TITLE			
Berlin 10			
PCH 4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI

CHANGE by Lin, Bob 25-Nov-2009

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INVENTEC

TITLE
Berlin 10
PCH 5

SIZE CODE ES DOC. NUMBER REV
A3 CS ES 53 OF 61 AXI

CHANGE by Lin, Bob 25-Nov-2009

8

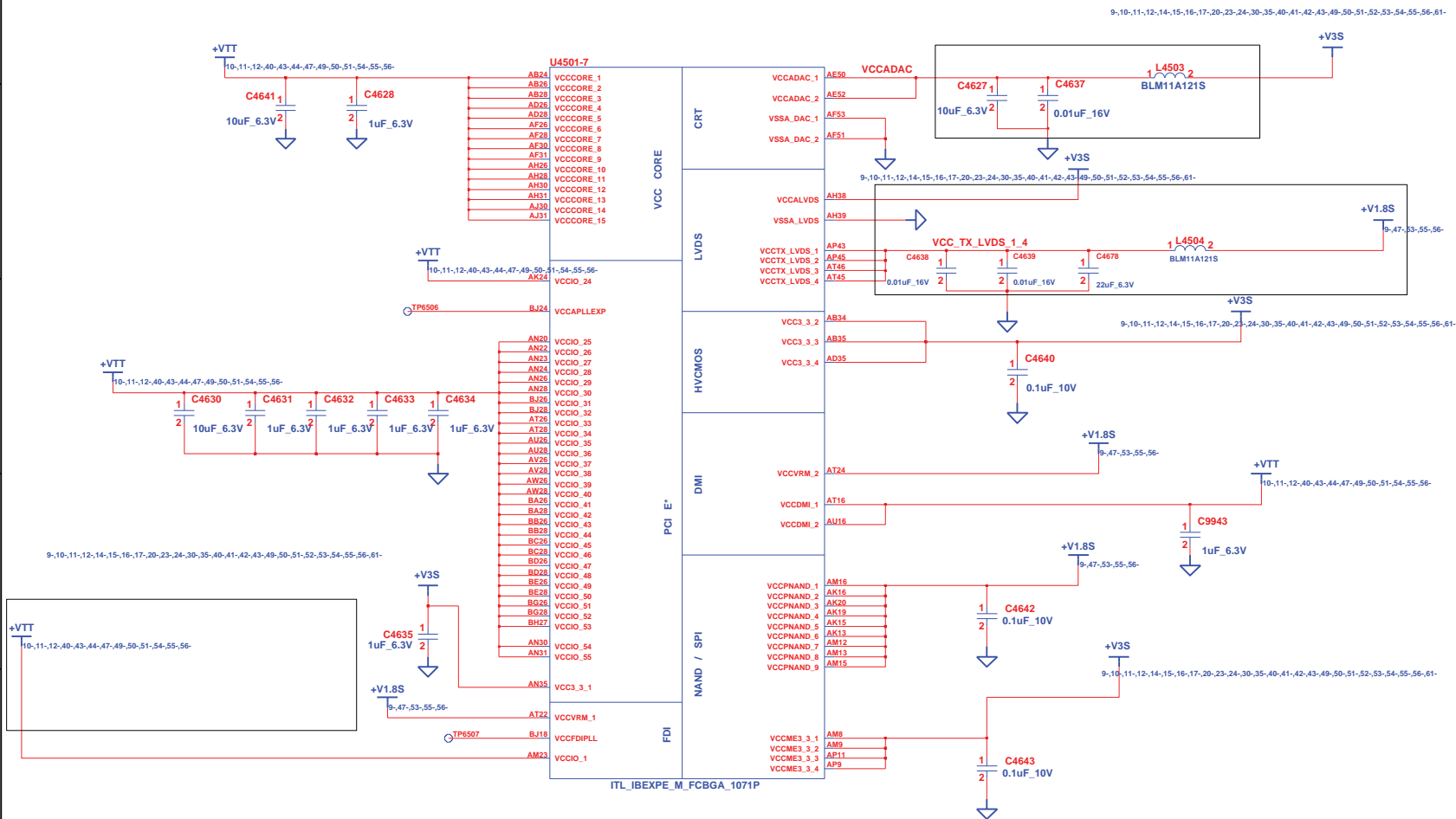
[illegible]

TITLE			
<i>Berlin 10</i>			
<i>PCH 6</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>ES</i>	<i>AXI</i>

CS ES
SHEET 54 OF 61

8

<http://hobi-elektronika.net>



HDA_SYNC signal is used as a strap
to select whether VccVRM is connected to 1.8V or 1.5V

INVENTEC

TITLE Berlin 10 PCH 7-POWER			
SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
SHEET 55		OF 61	

CHANGE by *Liu, Bob* 25-Nov-2009

[illegible]

TITLE			
<i>Berlin 10</i> <i>PCH 8-POWER</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>ES</i>	<i>AX</i>
SHEET		56	OF 61

CHANGE by	<i>Lin, Bob</i>	25-Nov-2009
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CS ES
SHEET 56 OF 61

http://hobi-elektronika.net

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

U4501-9

AB16 VSS. 0

AA19 VSS. 1

AA20 VSS. 2

AA22 VSS. 3

AM19 VSS. 4

AA44 VSS. 5

AA25 VSS. 6

AA28 VSS. 7

AA30 VSS. 8

AA31 VSS. 9

AA32 VSS. 10

AB11 VSS. 11

AB15 VSS. 12

AB23 VSS. 13

AB30 VSS. 14

AB31 VSS. 15

AB32 VSS. 16

AB39 VSS. 17

AB43 VSS. 18

AB47 VSS. 19

AB5 VSS. 20

AB5 VSS. 21

AC2 VSS. 22

AC24 VSS. 23

AD11 VSS. 24

AD12 VSS. 25

AD16 VSS. 26

AD23 VSS. 27

AD29 VSS. 28

AD31 VSS. 29

AD32 VSS. 30

AD34 VSS. 31

AD22 VSS. 32

AD42 VSS. 33

AD46 VSS. 34

AD49 VSS. 35

AD7 VSS. 36

AE2 VSS. 37

AE4 VSS. 38

AF12 VSS. 39

Y13 VSS. 40

AH49 VSS. 41

AU4 VSS. 42

AF35 VSS. 43

AP13 VSS. 44

AN34 VSS. 45

AF46 VSS. 46

AF46 VSS. 47

AF49 VSS. 48

AF5 VSS. 49

AF9 VSS. 50

AG2 VSS. 51

AG52 VSS. 52

AH11 VSS. 53

AH12 VSS. 54

AH16 VSS. 55

AH24 VSS. 56

AH32 VSS. 57

AV18 VSS. 58

AH43 VSS. 59

AH47 VSS. 60

AH7 VSS. 61

AJ19 VSS. 62

AJ2 VSS. 63

AJ20 VSS. 64

AJ22 VSS. 65

AJ23 VSS. 66

AJ26 VSS. 67

AJ28 VSS. 68

AJ32 VSS. 69

AJ34 VSS. 70

AT5 VSS. 71

A44 VSS. 72

AK12 VSS. 73

AM41 VSS. 74

AN19 VSS. 75

AK26 VSS. 76

AK22 VSS. 77

AK22 VSS. 78

AK28 VSS. 79

VSS. 80

AK30

VSS. 81

AK31

VSS. 82

AK32

VSS. 83

AK34

VSS. 84

AK35

VSS. 85

AK38

VSS. 86

AK43

VSS. 87

AK46

VSS. 88

AK5

VSS. 89

AK8

VSS. 91

AL2

VSS. 92

AL52

VSS. 93

AM11

VSS. 94

BB44

VSS. 95

AD24

VSS. 96

AM20

VSS. 97

AM22

VSS. 98

AM24

VSS. 99

AM26

VSS. 100

AM28

VSS. 101

BA42

VSS. 102

AM30

VSS. 103

AM31

VSS. 104

AM32

VSS. 105

AM34

VSS. 106

AM35

VSS. 107

AM36

VSS. 108

AM39

VSS. 109

AM42

VSS. 110

AM40

VSS. 111

AV22

VSS. 112

AM49

VSS. 113

AM7

VSS. 114

AA90

VSS. 115

BB10

VSS. 116

AN32

VSS. 117

AN50

VSS. 118

AN52

VSS. 119

AF12

VSS. 120

AP42

VSS. 121

AP46

VSS. 122

AP49

VSS. 123

AP5

VSS. 124

AP8

VSS. 125

AP8

VSS. 126

AR2

VSS. 127

AR52

VSS. 128

AT11

VSS. 129

BA12

VSS. 130

AH46

VSS. 131

AT32

VSS. 132

AT36

VSS. 133

AT41

VSS. 134

AT47

VSS. 135

AT7

VSS. 136

AV12

VSS. 137

AV16

VSS. 138

AV20

VSS. 139

AV24

VSS. 140

AV30

VSS. 141

AV34

VSS. 142

AV38

VSS. 143

AV42

VSS. 144

AV46

VSS. 145

AV5

VSS. 146

AV8

VSS. 147

AV14

VSS. 148

AW19

VSS. 149

AW2

VSS. 150

BF9

VSS. 151

AW32

VSS. 152

AW36

VSS. 153

AW40

VSS. 154

AW52

VSS. 155

AY11

VSS. 156

AY43

VSS. 157

AY47

VSS. 158

U4501-10

AY7 VSS. 159

B11 VSS. 160

B15 VSS. 161

B19 VSS. 162

B23 VSS. 163

B31 VSS. 164

B35 VSS. 165

B39 VSS. 166

B43 VSS. 167

B47 VSS. 168

B7 VSS. 169

BG12 VSS. 170

BB12 VSS. 171

BB16 VSS. 172

BB20 VSS. 173

BB24 VSS. 174

BB30 VSS. 175

BB34 VSS. 176

BB38 VSS. 177

BB42 VSS. 178

BB49 VSS. 179

BB5 VSS. 180

BC19 VSS. 181

BC14 VSS. 182

BC18 VSS. 183

BC2 VSS. 184

BC22 VSS. 185

BC32 VSS. 186

BC36 VSS. 187

BC40 VSS. 188

BC44 VSS. 189

BC52 VSS. 190

BH9 VSS. 191

BD49 VSS. 192

BD49 VSS. 193

BD5 VSS. 194

BE12 VSS. 195

BE16 VSS. 196

BE20 VSS. 197

BE24 VSS. 198

BE30 VSS. 199

BE34 VSS. 200

BE38 VSS. 201

BE42 VSS. 202

BE46 VSS. 203

BE50 VSS. 204

BE54 VSS. 205

BE6 VSS. 206

BE8 VSS. 207

BF3 VSS. 208

BF49 VSS. 209

BF51 VSS. 210

BG18 VSS. 211

BG24 VSS. 212

BG4 VSS. 213

BG50 VSS. 214

BH11 VSS. 215

BH15 VSS. 216

BH19 VSS. 217

BH23 VSS. 218

BH31 VSS. 219

BH35 VSS. 220

BH39 VSS. 221

BH43 VSS. 222

BH47 VSS. 223

BH7 VSS. 224

C12 VSS. 225

C50 VSS. 226

D51 VSS. 227

E12 VSS. 228

E16 VSS. 229

E20 VSS. 230

E24 VSS. 231

E30 VSS. 232

E34 VSS. 233

E38 VSS. 234

E42 VSS. 235

E46 VSS. 236

E48 VSS. 237

E6 VSS. 238

E8 VSS. 239

F49 VSS. 240

F5 VSS. 241

G10 VSS. 242

G14 VSS. 243

G18 VSS. 244

G2 VSS. 245

G22 VSS. 246

G32 VSS. 247

G36 VSS. 248

G40 VSS. 249

G44 VSS. 250

G52 VSS. 251

AF39 VSS. 252

H16 VSS. 253

H20 VSS. 254

H30 VSS. 255

H34 VSS. 256

H38 VSS. 257

H42 VSS. 258

VSS. 259

H5

VSS. 260

J24

VSS. 261

K11

VSS. 262

K43

VSS. 263

K47

VSS. 264

K7

VSS. 265

L14

VSS. 266

L18

VSS. 267

L2

VSS. 268

L22

VSS. 269

L32

VSS. 270

L36

VSS. 271

L40

VSS. 272

L52

VSS. 273

M12

VSS. 274

M16

VSS. 275

M20

VSS. 276

M39

VSS. 277

M34

VSS. 278

M38

VSS. 279

M42

VSS. 280

M46

VSS. 281

M49

VSS. 282

M5

VSS. 283

M8

VSS. 284

M24

VSS. 285

P11

VSS. 286

AD15

VSS. 287

P22

VSS. 288

P30

VSS. 289

P32

VSS. 290

P34

VSS. 291

P42

VSS. 292

P45

VSS. 293

P47

VSS. 294

R2

VSS. 295

R52

VSS. 296

T12

VSS. 297

T41

VSS. 298

T46

VSS. 299

T49

VSS. 300

T8

VSS. 301

T5

VSS. 302

U30

VSS. 303

U31

VSS. 304

U32

VSS. 305

U34

VSS. 306

P38

VSS. 307

V11

VSS. 308

P16

VSS. 309

V19

VSS. 310

V20

VSS. 311

V22

VSS. 312

V30

VSS. 313

V31

VSS. 314

V32

VSS. 315

V34

VSS. 316

V35

VSS. 317

V38

VSS. 318

V43

VSS. 319

V46

VSS. 320

V47

VSS. 321

V49

VSS. 322

V5

VSS. 323

V7

VSS. 324

V8

VSS. 325

V2

VSS. 326

W2

VSS. 327

W52

VSS. 328

Y11

VSS. 329

Y12

VSS. 330

Y15

VSS. 331

Y19

VSS. 332

Y23

VSS. 333

Y28

VSS. 334

Y30

VSS. 335

Y31

VSS. 336

Y32

VSS. 337

Y39

VSS. 338

Y43

VSS. 339

Y46

VSS. 340

P49

VSS. 341

Y5

VSS. 342

Y6

VSS. 343

Y8

VSS. 344

P24

VSS. 345

T43

VSS. 346

AD51

VSS. 347

AT8

VSS. 348

AD47

VSS. 349

T47

VSS. 350

AT12

VSS. 351

AM6

VSS. 352

AT13

VSS. 353

AM5

VSS. 354

AK45

VSS. 355

AK39

VSS. 356

AV14

ITL_IBEXPE_M_FCBGA_1071P

ITL_IBEXPE_M_FCBGA_1071P

INVENTEC

TITLE

Berlin 10

PCH 9

SIZE A3

CODE CS

ES

DOC. NUMBER

REV AXI

CHANGE by Lin, Bob

25-Nov-2009

SHEET 57

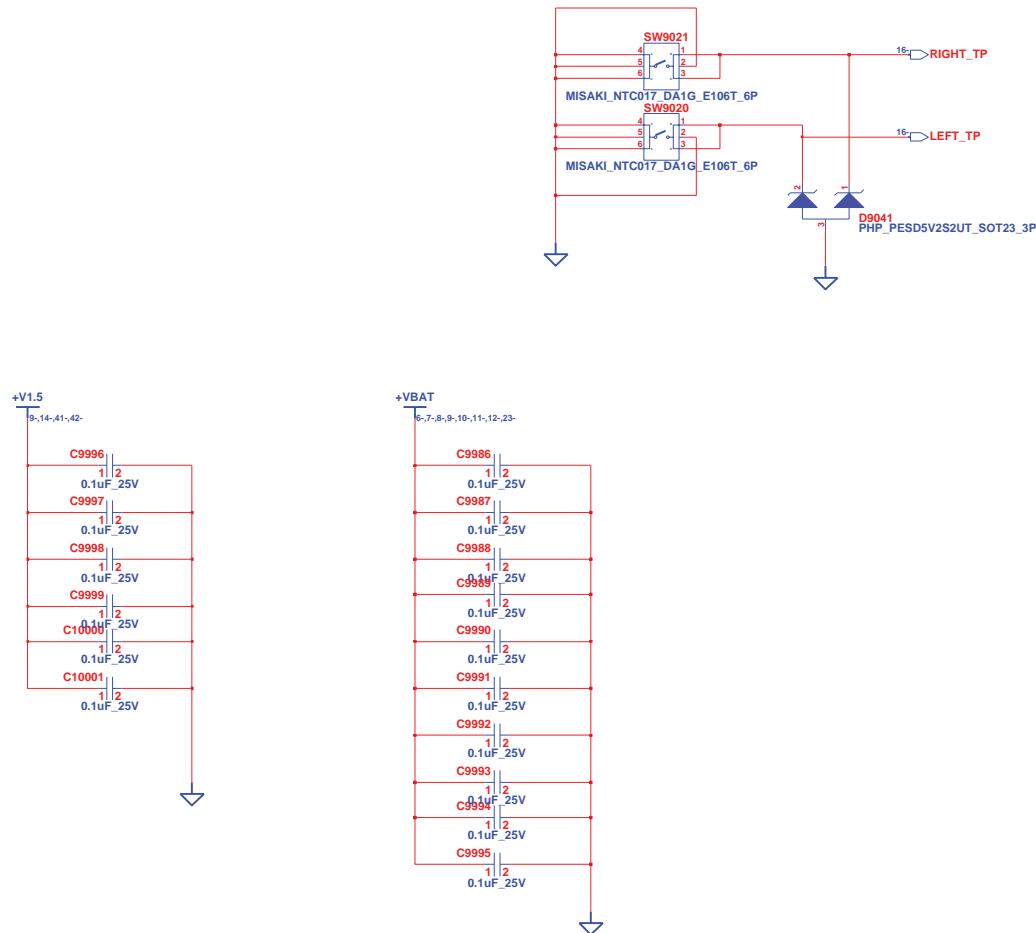
OF 61

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<http://hobi-elektronika.net>

PICK BUTTON and EMI

(For - Touchpad Module, Touchpad Switch)



INVENTEC

TITLE			
Berlin 10			
Hot key board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
SHEET		58 OF	61

CHANGE by Lin, Bob 7-Jan-2010

8

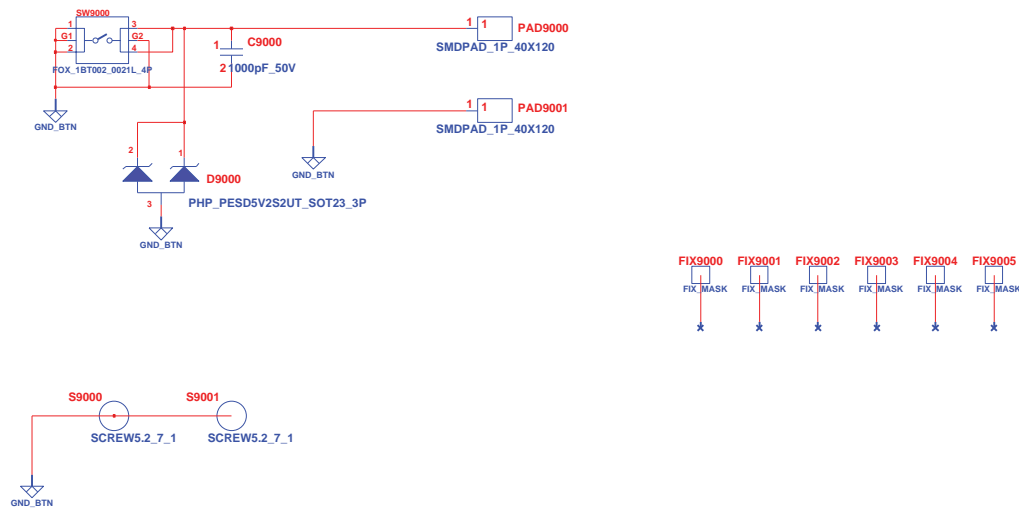
<http://hobi-elektronika.net>

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Lip, Bob</i>		5-Jan-2010	
1	2	3	4	5	6	7	8		

INVENTEC			
TITLE <i>Berlin 10</i> <i>Touch pad</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>ES</i>	REV AXI
SHEET		59	OF 61

<http://hobi-elektronika.net>

POWER BUTTON

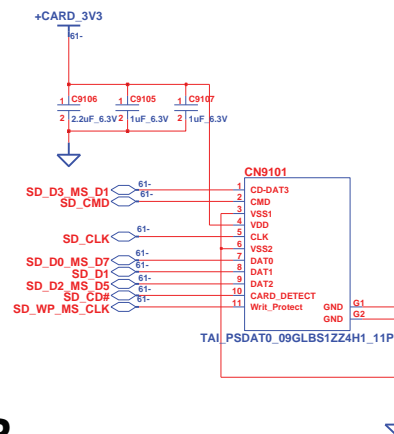
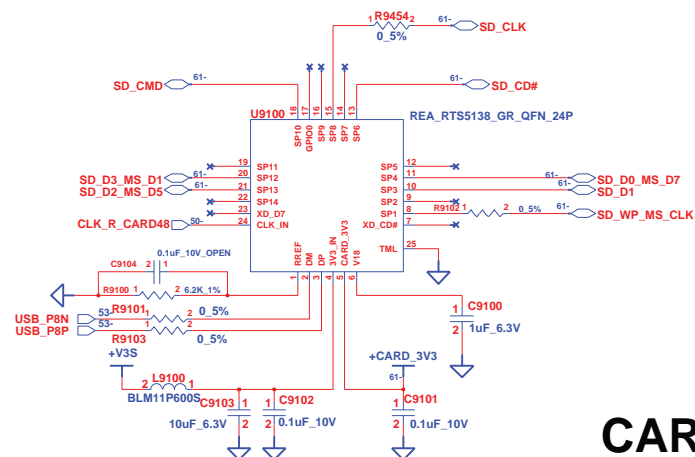
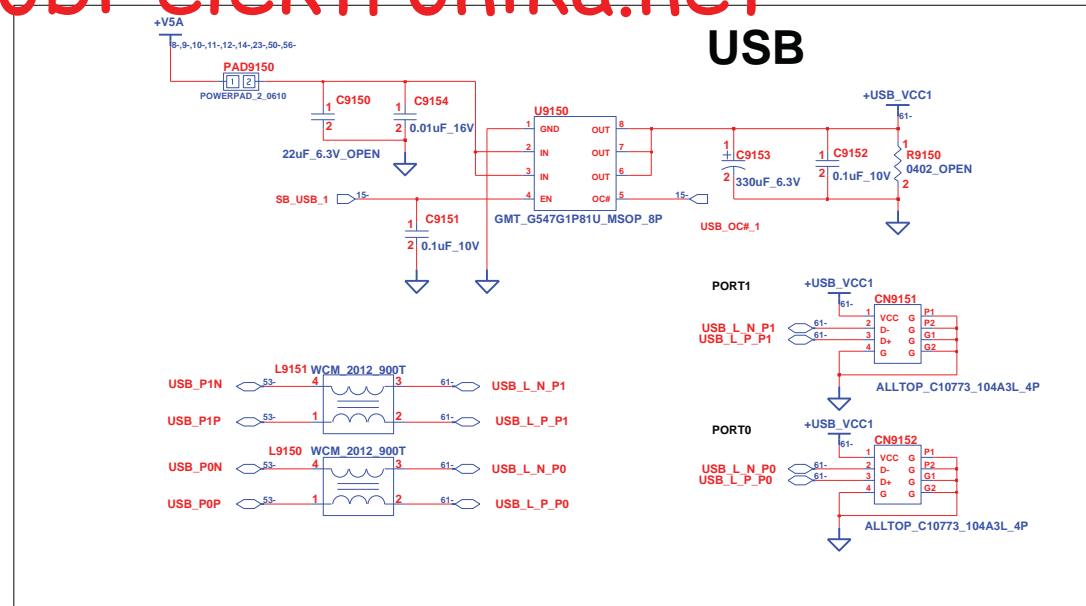


EMI

INVENTEC			
TITLE			
Berlin 10			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	ES	AXI
CHANGE by		17-Mar-2010	
Lin, Bob			
SHEET		60	OF 61
		8	

<http://hobi-elektronika.net>

CARD READER & USB



CARD READER

INVENTEC

TITLE
Berlin 10

SIZE A3	CODE CS	DOC. NUMBER ES	REV AXI
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CHANGE by *Ljn, Bob* 25-Nov-2009

SHEET 61 OF 61