


A02

2011/03/23

D500 : NA
U9884 ~~NMA~~
CN505 : 6026B0184301
CN507 : 6026B0184301

L7076 : NA } USB 3.0
~~L7077 : 6014A0013901~~
L7075 : 6014A0013901 USB 2.0
CN7004 : 6012B0381501

DRAWER		EE <i>Chang, Irene</i>	DATE <i>2010-12-01</i>	DATE <i>2010-12-01</i>		
DESIGN		<i>Hu, Hook</i>	<i>Hsieh, Alan</i>			
CHECK		<i>2010-12-01</i>	<i>Power</i>			
		<i>Hu, Hook</i>				
REQUESTOR		3				
FILE NAME : KITTY-6050A2424501-A01-2010-12-01						
P/N		VER :		SIZE	SHEET	DOC. NUMBER
6		7		A5	CS	1310A24245-01-MTR A

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10. +V1.8S & +VCCSA
11. VCC & VGFX Core IC
12. +VCC_CORE & +VGFX_CORE
13. VTT & +V1.05S
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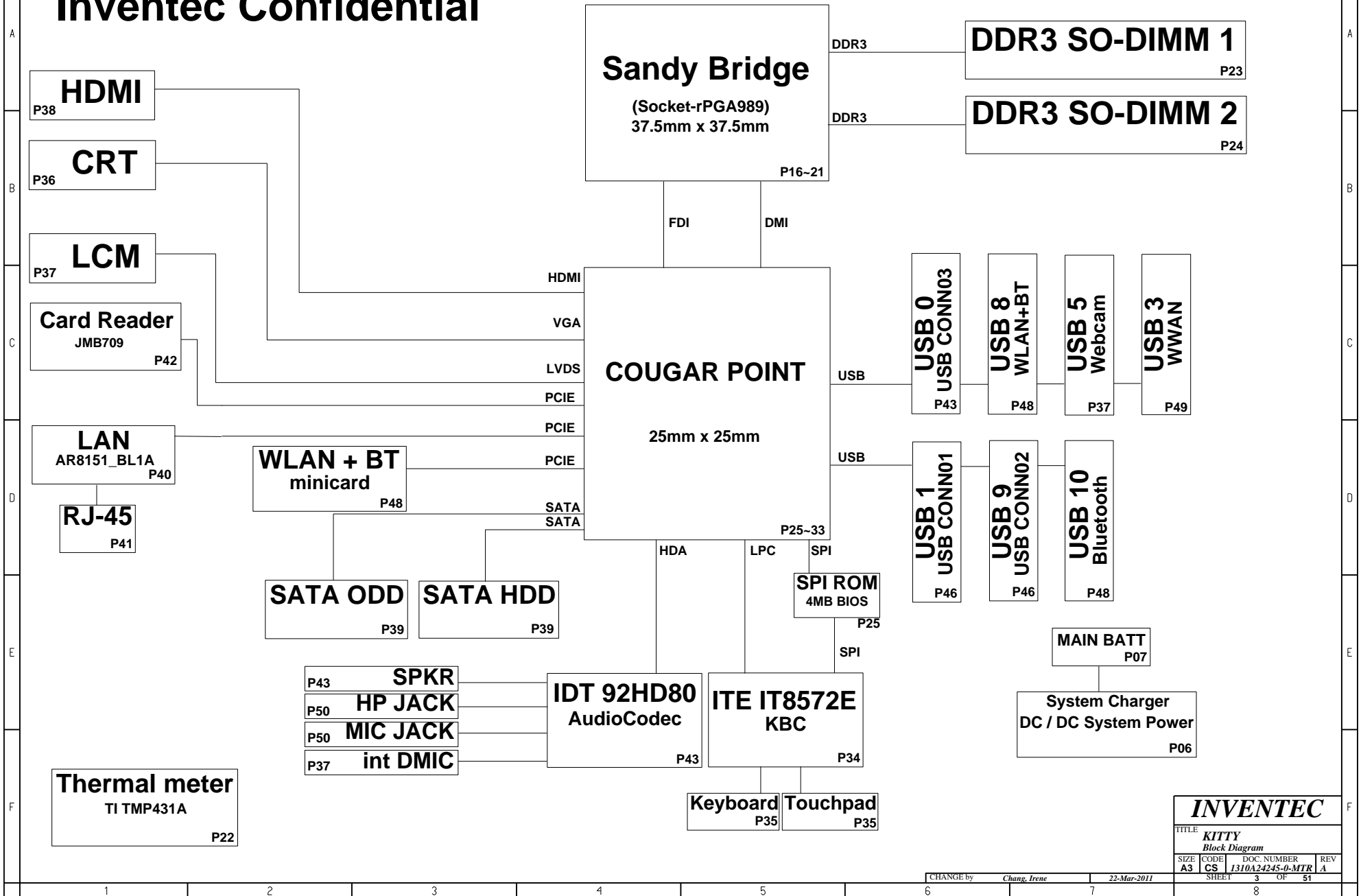
25. PCH-1 (HDA, JTAG, SPI, SATA)
26. PCH-2 (PCI-E, SMBUS, CLK)
27. PCH-3 (DMI, FDI, GPIO)
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38. HDMI CONN
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40. LAN
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47. SCREW& EMI
48. WLAN & BlueTooth
49. WWAN & SIM
50. USB & HP JACK & MIC JACK (DB)
51. Power & Pick button BOARD(DB)

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TITLE KITTY <i>Index</i>			
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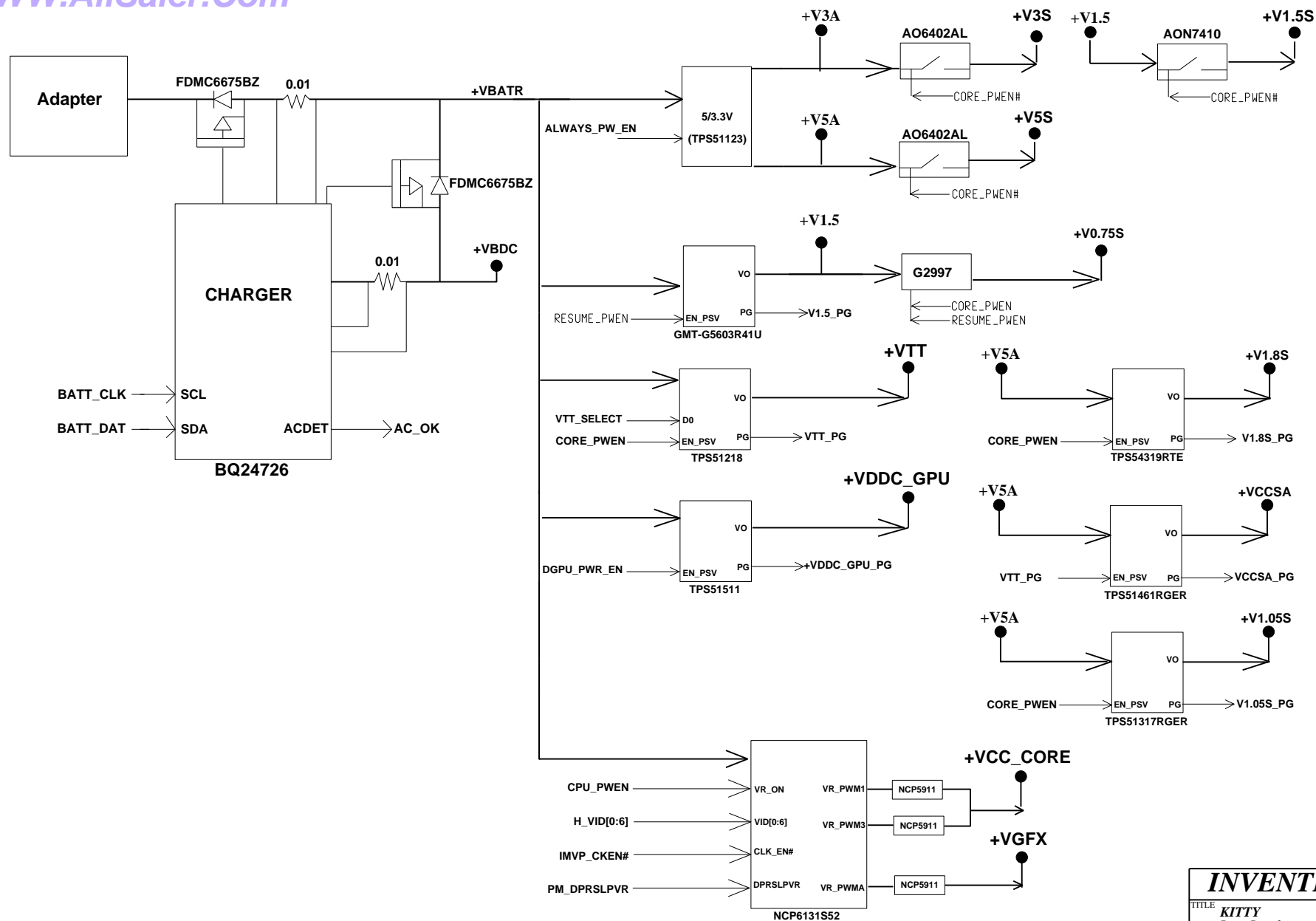
CHANGE by *Chang, Irene* 22-Mar-2011

Inventec Confidential



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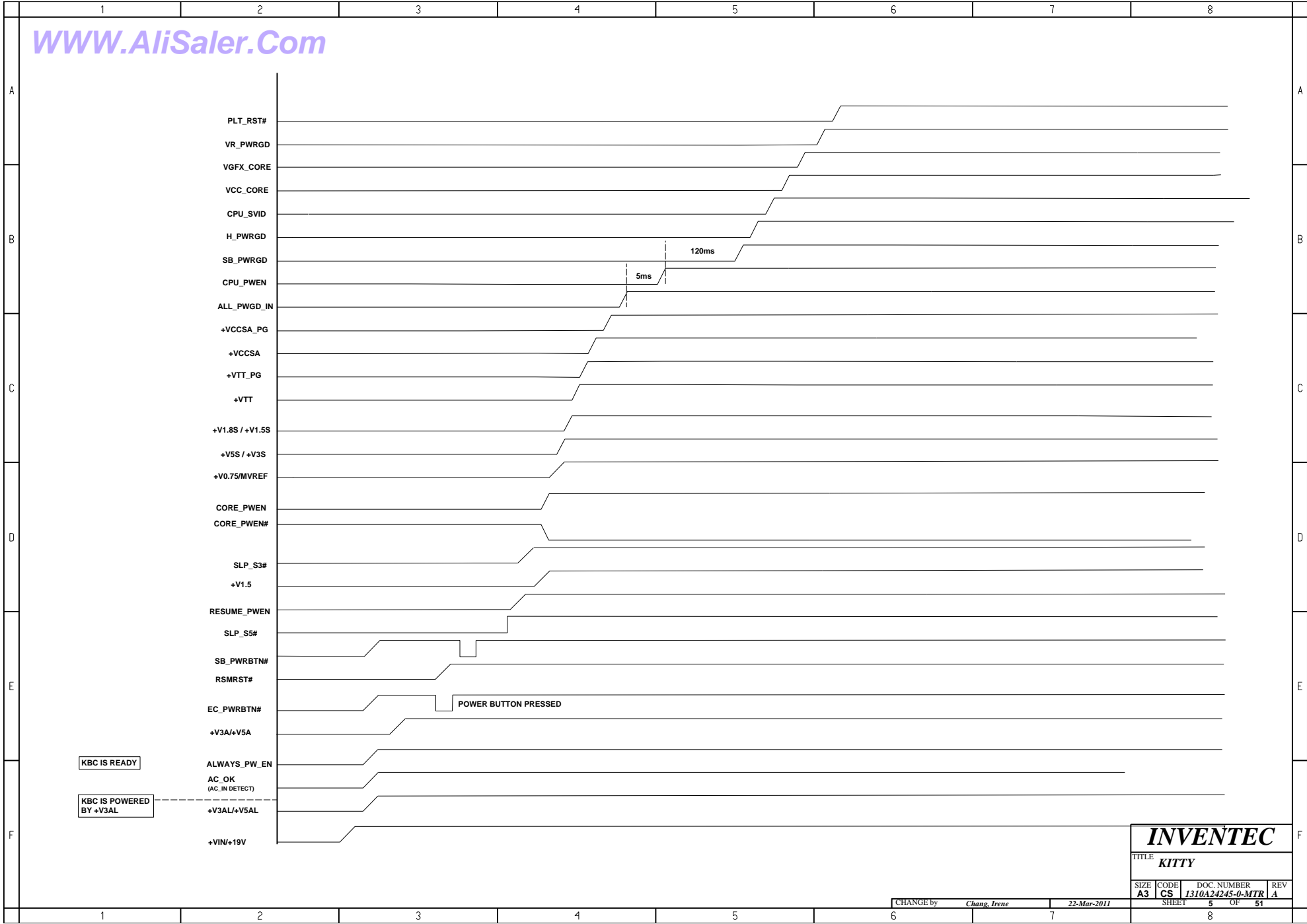
TITLE KITTY Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by <i>Chang, Irene</i>		22-Mar-2011	
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TITLE KITTY Power Procedure			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 4		OF 51	

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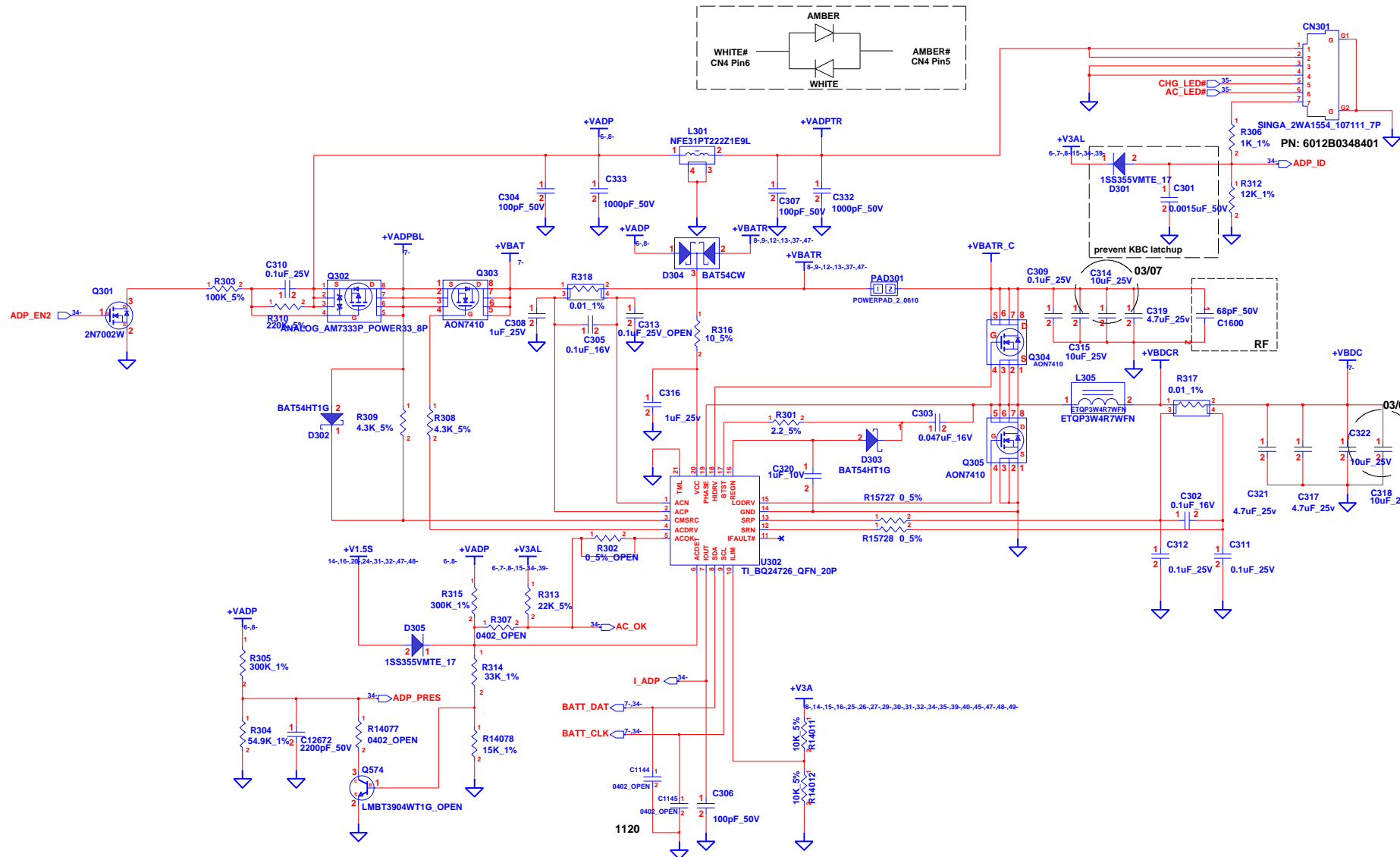
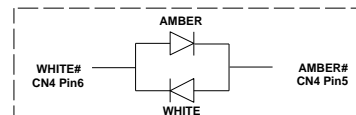
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A3	CS	1310A24245-0-MTR	A

CHANGE by Chang, Irene 22-Mar-2011

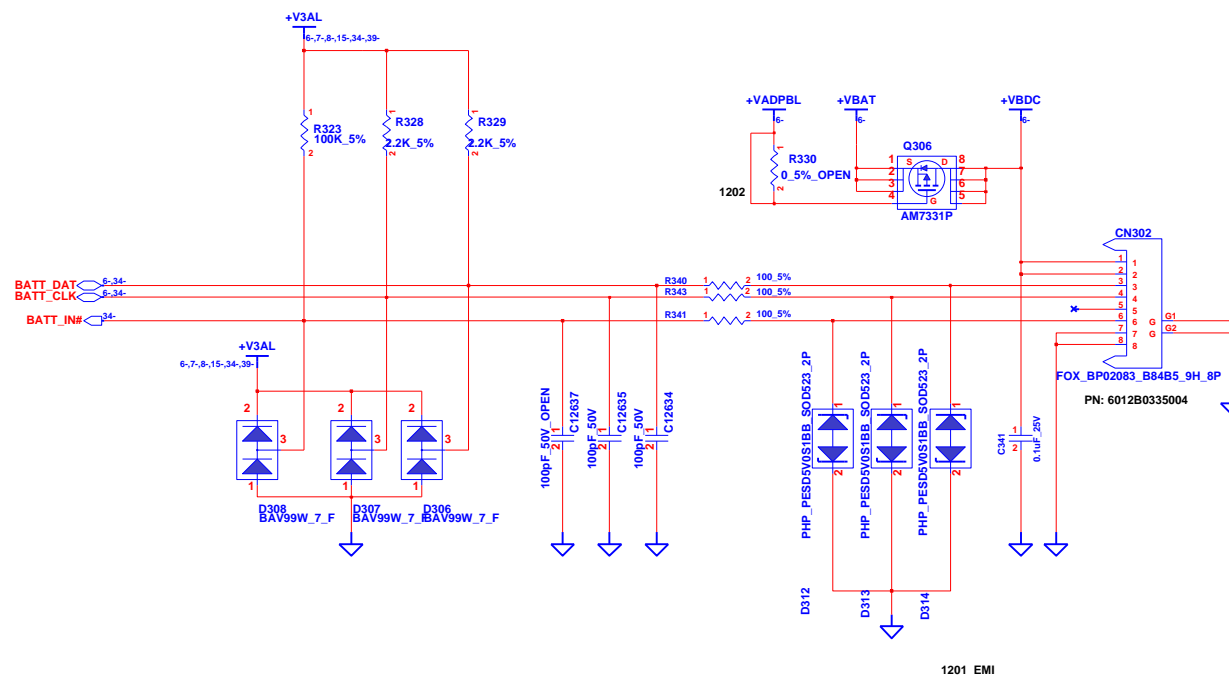
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AC IN



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TITLE			
KITTY			
DC & Battery Charger			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
CHANGE by		22-Mar-2011	
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TITLE KITTY Battery CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by <i>Chang, Irene</i>		22-Mar-2011	
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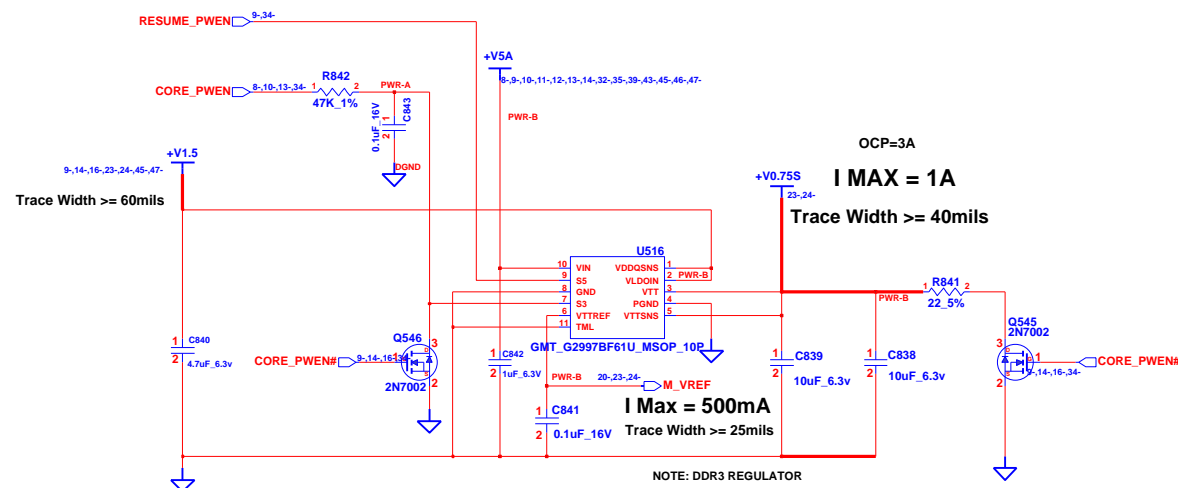
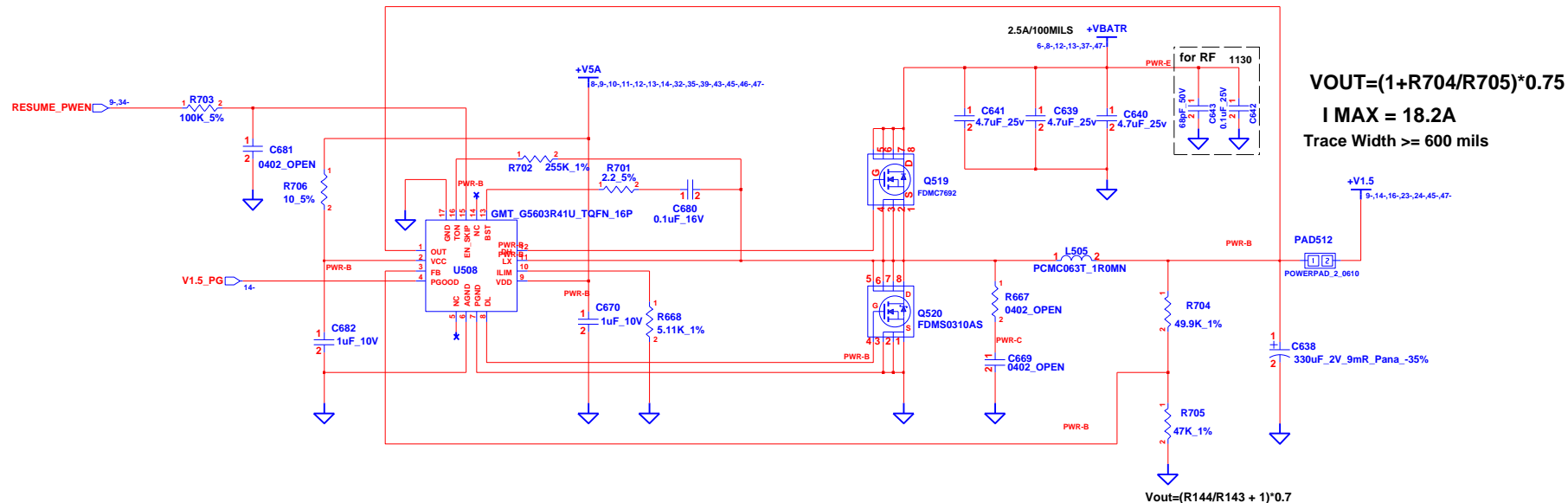
$$V_{OUT} = (1 + R_{338}/R_{335}) * 0.75$$

I MAX = 7.2A
Trace Width >= 300 mils

OCP = 7.5A

TITLE			
KITTY +V3A & +V5A			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
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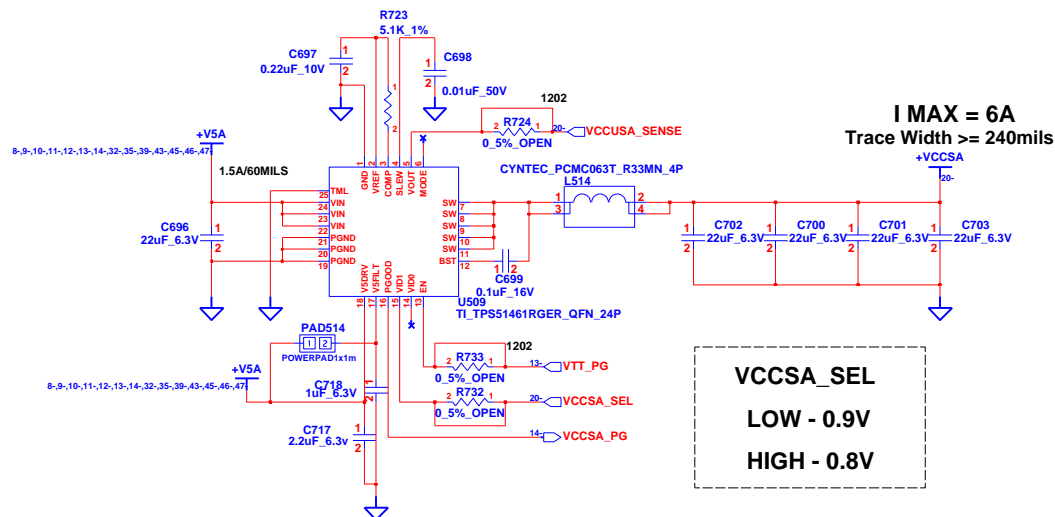
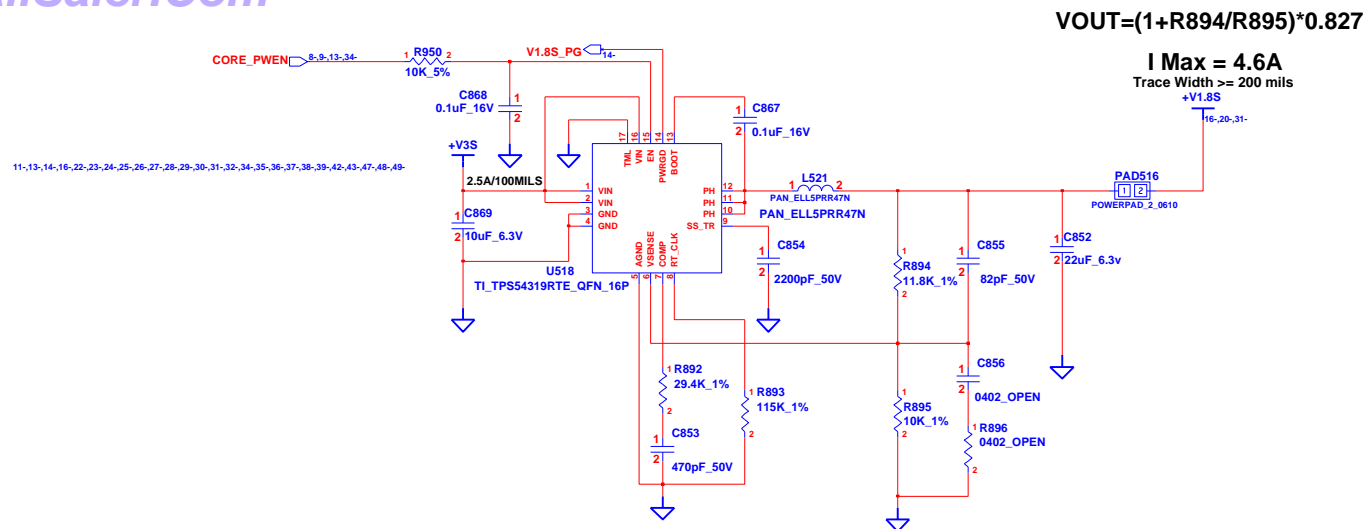
CHANGE by	<i>Chang, Irene</i>	<i>22-Mar-2011</i>
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TITLE KITTY			
+V1.5 & +V0.75			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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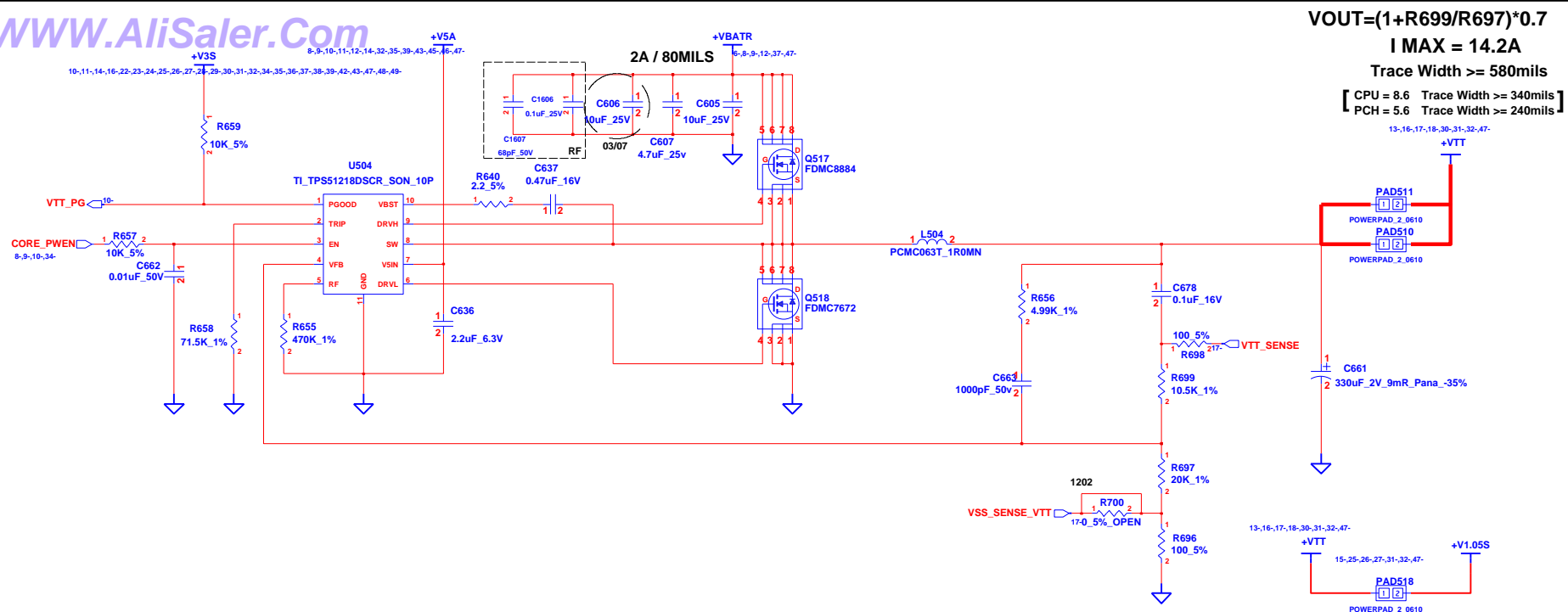
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TITLE KITTY +V1.8S & +VCCSA			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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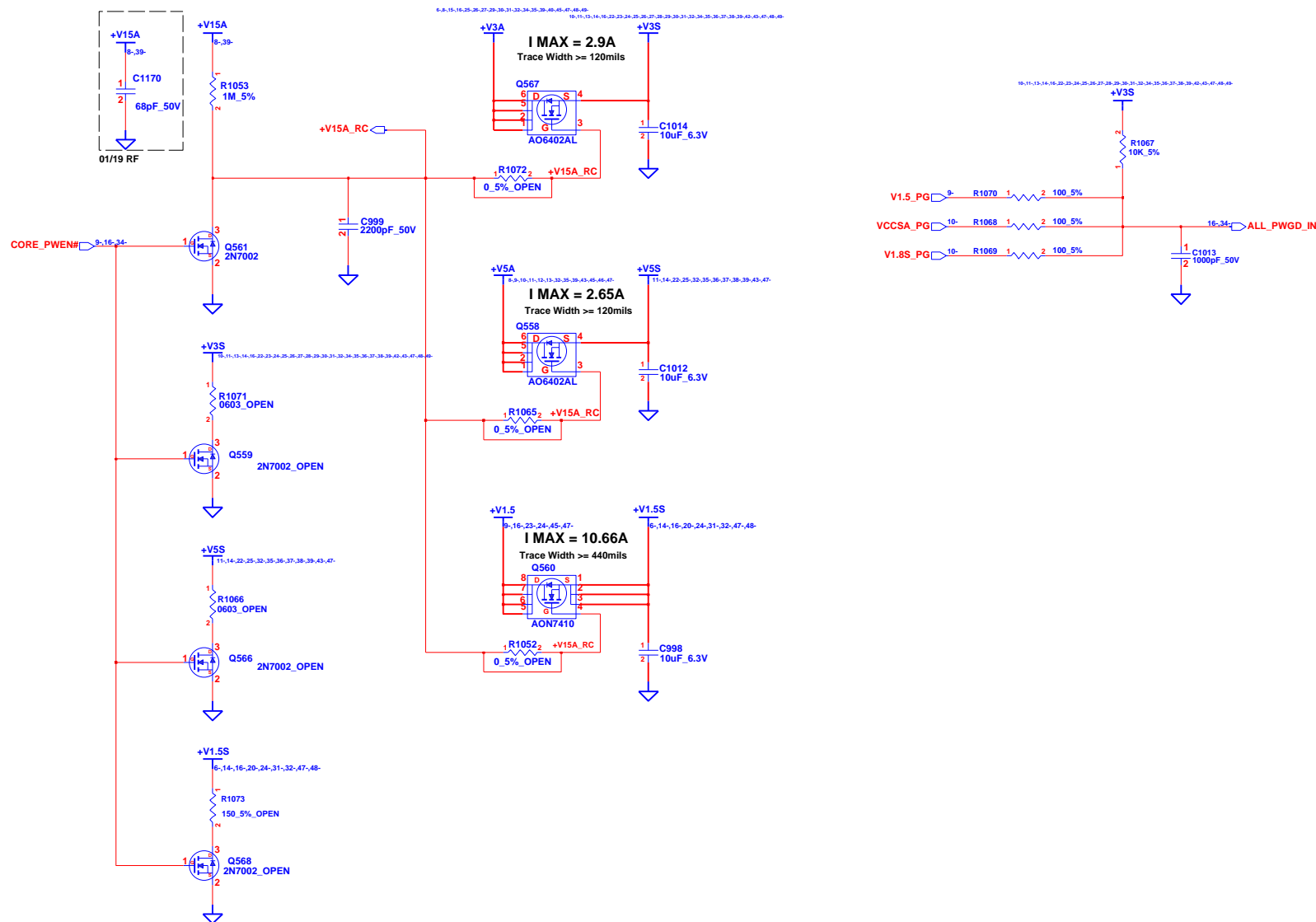
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10/31 DEL +V1.05S

INVENTEC

TITLE KITTY VTT & V1.05S			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by <i>Chang, Irene</i>		22-Mar-2011	
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INVENTEC

TITLE KITTY			
+V5S & +V3S			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
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CHANGE by *Chang, Irene* 22-Mar-2011

1 2 3 4 5 6 7 8

A

B

C

D

E

F

WWW.AliSaler.Com

RTC BATTERY

MOW WW28

Trace Width >= 15mils

+V_RTCBAT

+V3AL

+V_RTC

03/02

D522

BAT54C_30V_0.2A

IF USE U538

D522 6011A0026803 NA

CN520

R742

300_1%

LOTES_AAA_BAT_032_K01_A_2P

BATTERY CELL PN: 6026B0116302

Trace Width >= 15mils

+V3AL

6-7,8-15-24-28

BLM15AG121SN1D

10/27 Add

C112087

2.2uF_16V_OPEN

C12680

0.1uF_16V_OPEN

+V_RTC

15-25-27-32

10/27 Add

C112098

4700pF_25V_OPEN

Trace Width >= 15mils

+V_RTC

15-25-27-32

C112085

10uF_6.3V_OPEN

+V3_LAN

40-41

C12677

0.1uF_16V_OPEN

R14095

0.5%_OPEN

R14094

0.5%_OPEN

RTC_32K_IN

LAN_25M_IN

C1147

18pF_50V_OPEN

C1146

18pF_50V_OPEN

1130 RF

X504

25MHz_OPEN

C12676

0402_OPEN

+V3A

C1143

0.1uF_16V_OPEN

+V1.05S

13-25-26-27-31-32-47

C12679

0.1uF_16V_OPEN

P/N : 6019B0843401_OPEN

U538

32KHZ_A

12

11

10

9

8

7

6

5

4

3

2

1

VDD_RTC_OUT

VDDIO_25M_A

VDDIO_25M_B

SLG_SLG3NB144VTR_TQFN_16P_OPEN

R14093

0.5%_OPEN

PCH_25M_IN

01/19 RF

C1172

68pF_50V

01/19 RF

OPEN

INVENTEC

TITLE

KITTY

BLANK

SIZE

A3

CODE

CS

DOC. NUMBER

1310A24245-0-MTR

REV

A

SHEET

15

OF

51

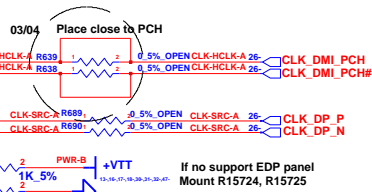
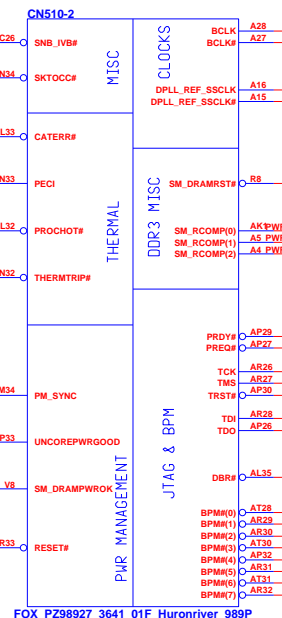
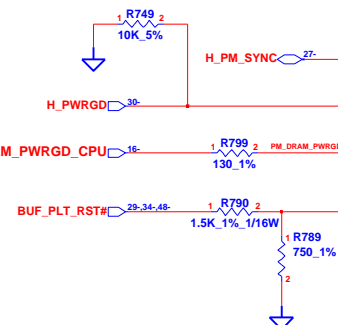
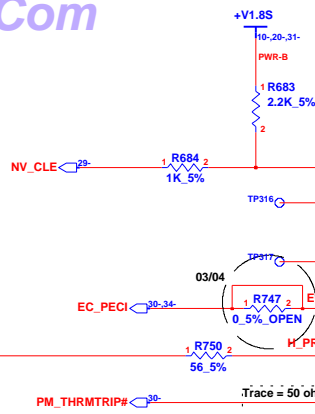
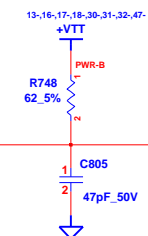
CHANGE by

Chang, Irene

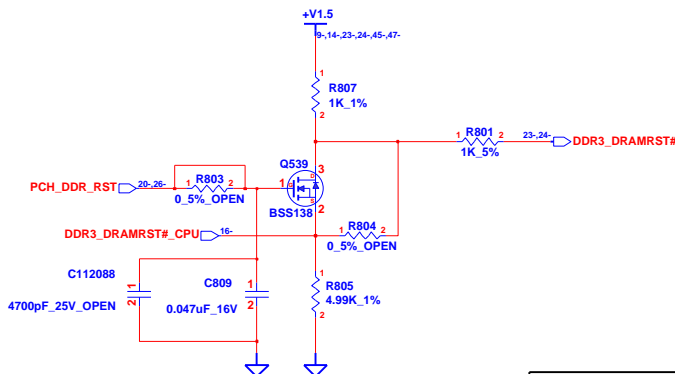
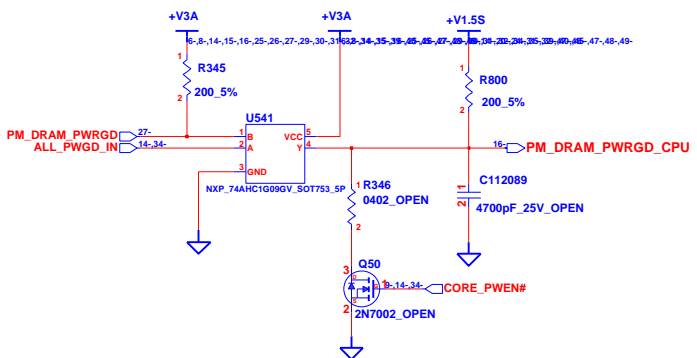
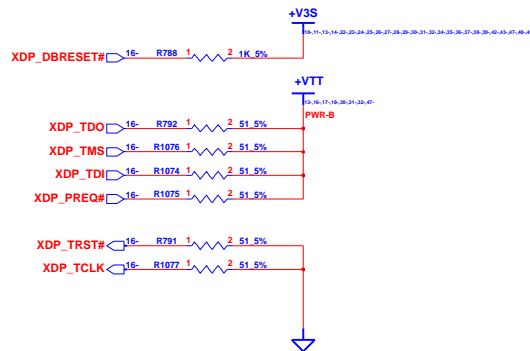
22-Mar-2011

BOM
CN510 : 6026B0154902

Place Close to VR



SIGNAL	WIDTH	SPACEING	Length
SM_RCOMP[0]	20mils	20mils	500mils
SM_RCOMP[1]	20mils	20mils	500mils
SM_RCOMP[2]	15mils	15mils	500mils



INVENTEC

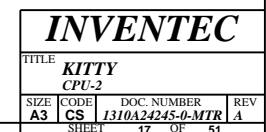
TITLE KITTY CPU-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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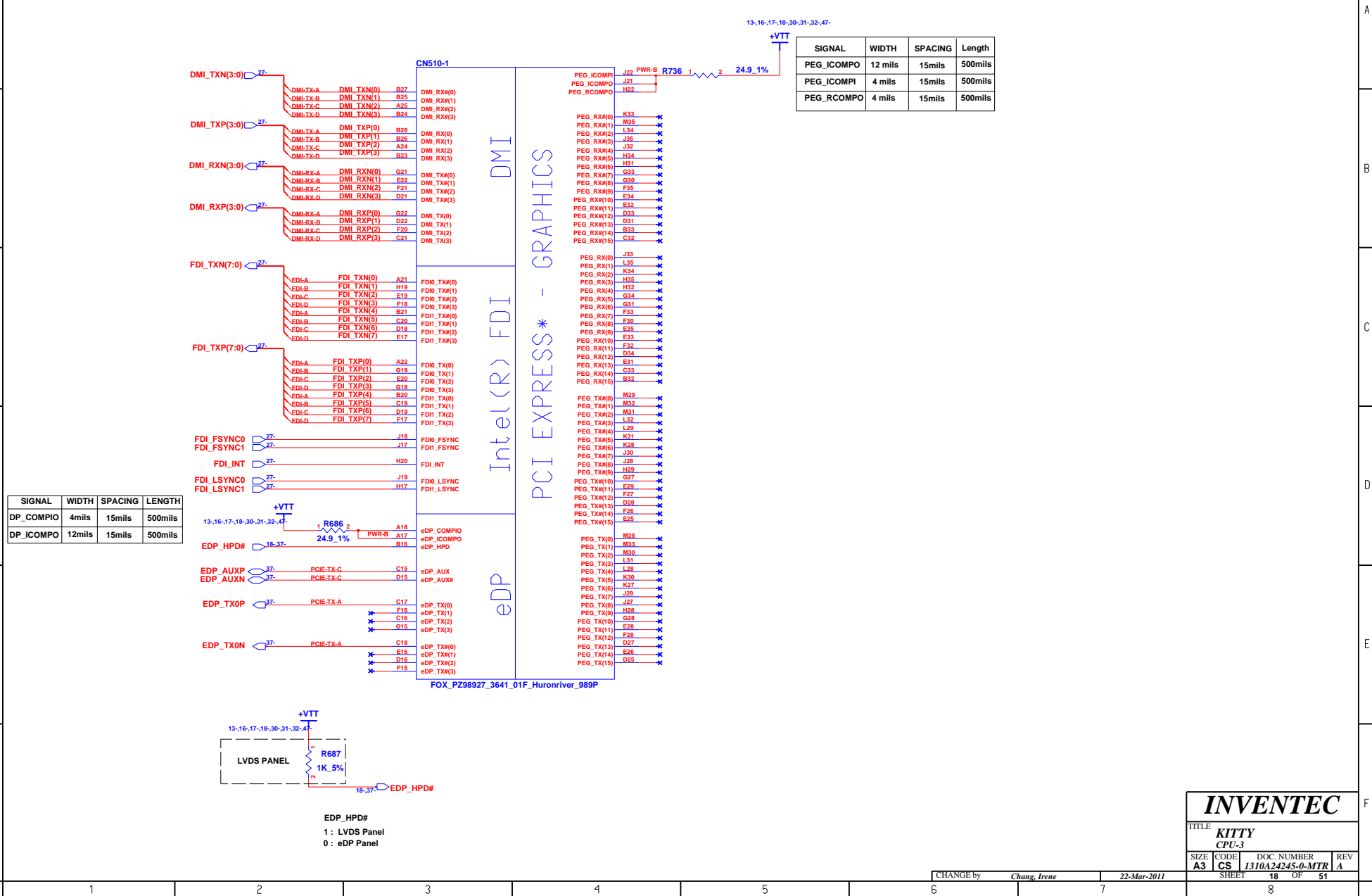
CHANGE by *Chang, Irene* 22-Mar-2011

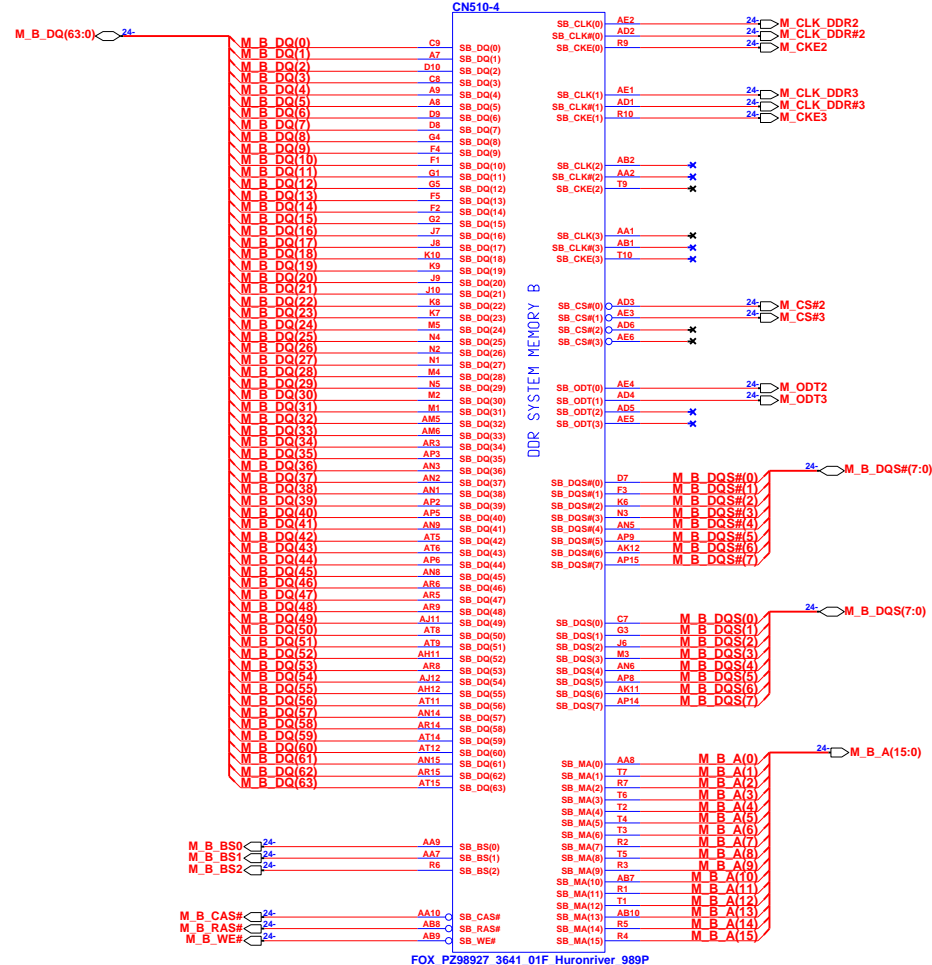
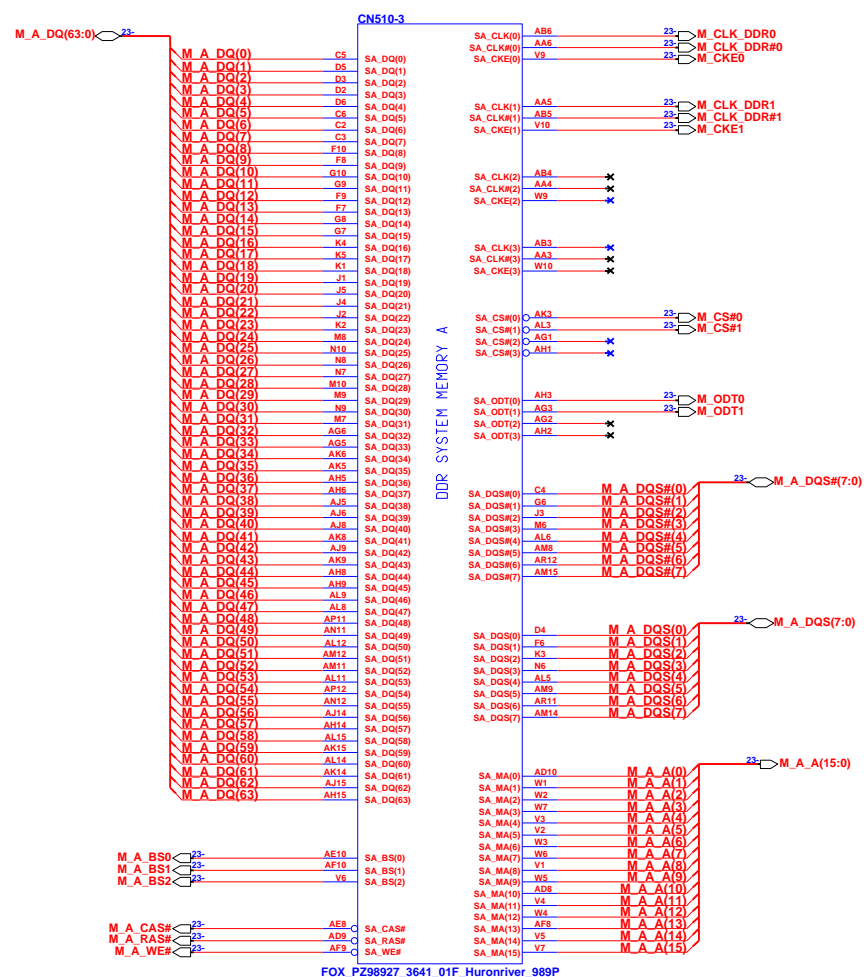
Trace Width >= 360mils

I MAX = 8.5A ^{+VTT}

I TDC = 8.5A ^{13-,16-,17-,18-,30-,31-,32-,47-}



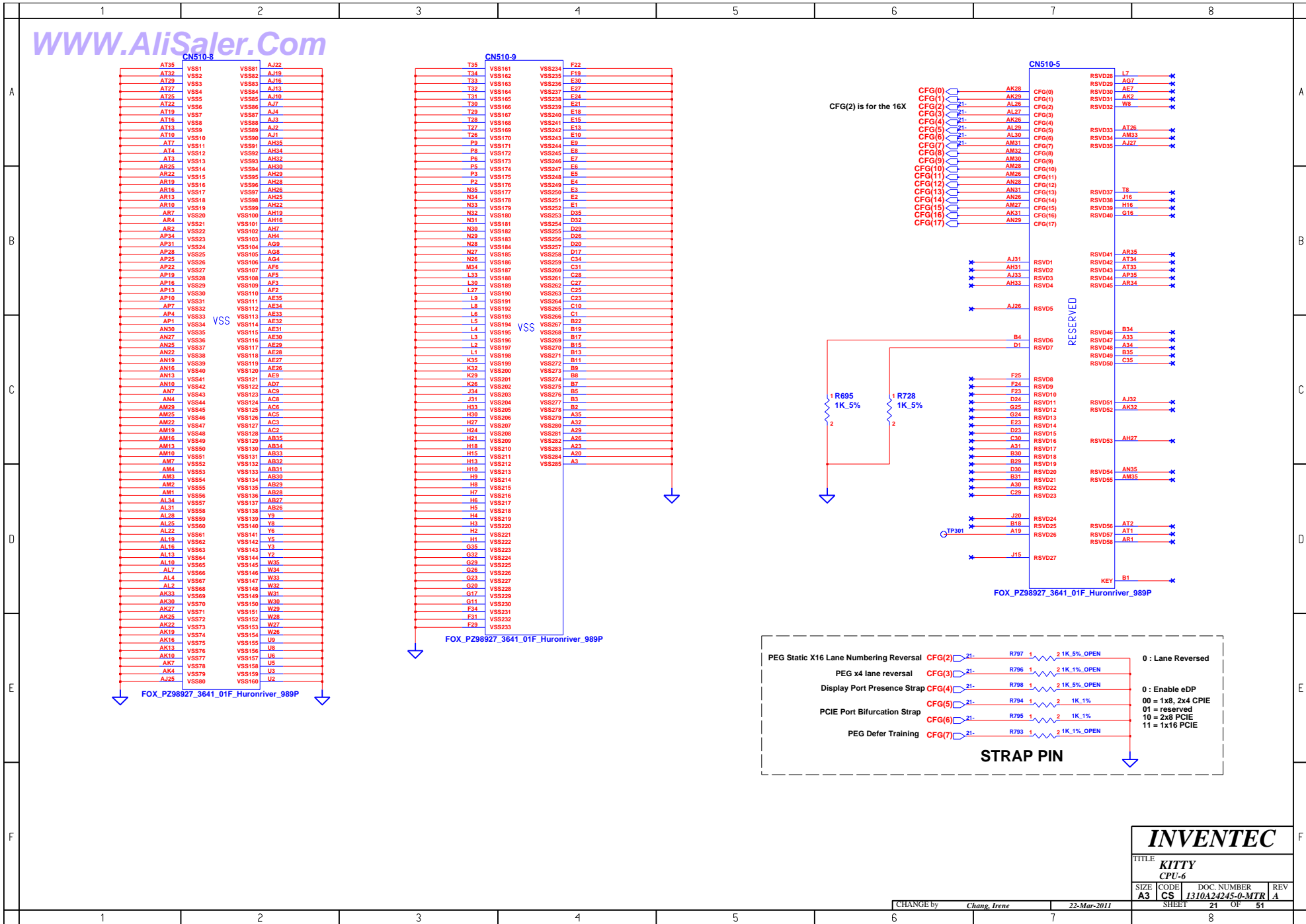




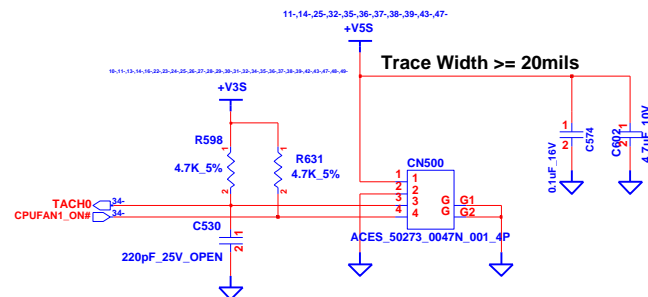
INVENTEC

TITLE KITTY CPU-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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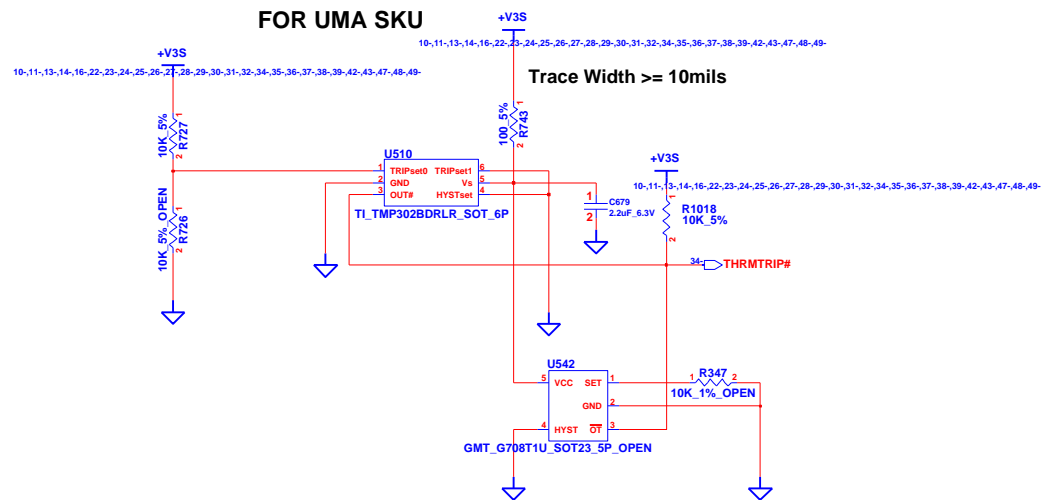
CHANGE by Chang, Irene 22-Mar-2011



*BOM
CN500 : 6012A0081607
FAN CONN



FOR UMA SKU



INVENTEC

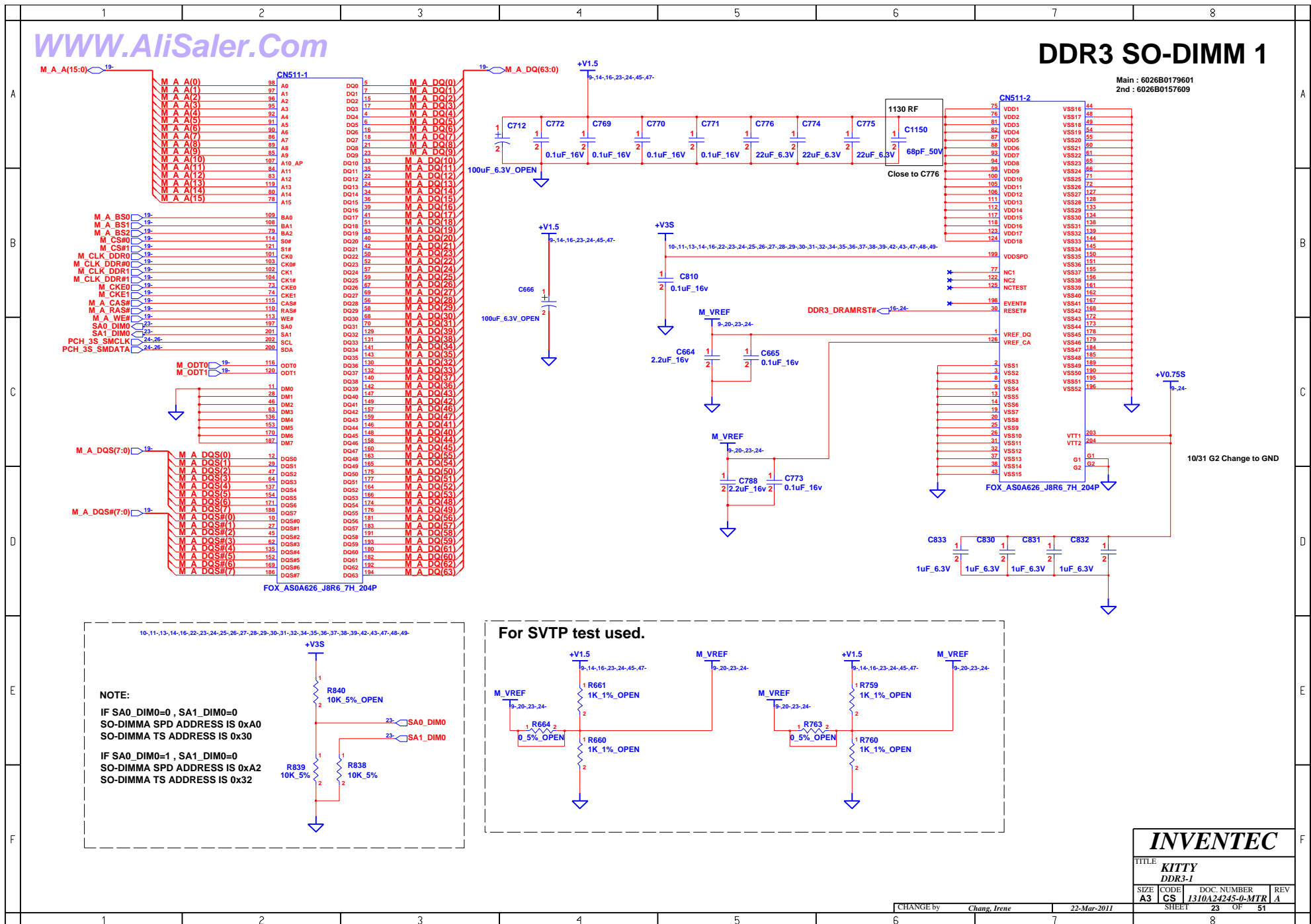
TITLE KITTY Thermal, Fan & XDP			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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CHANGE by *Chang, Irene* 22-Mar-2011

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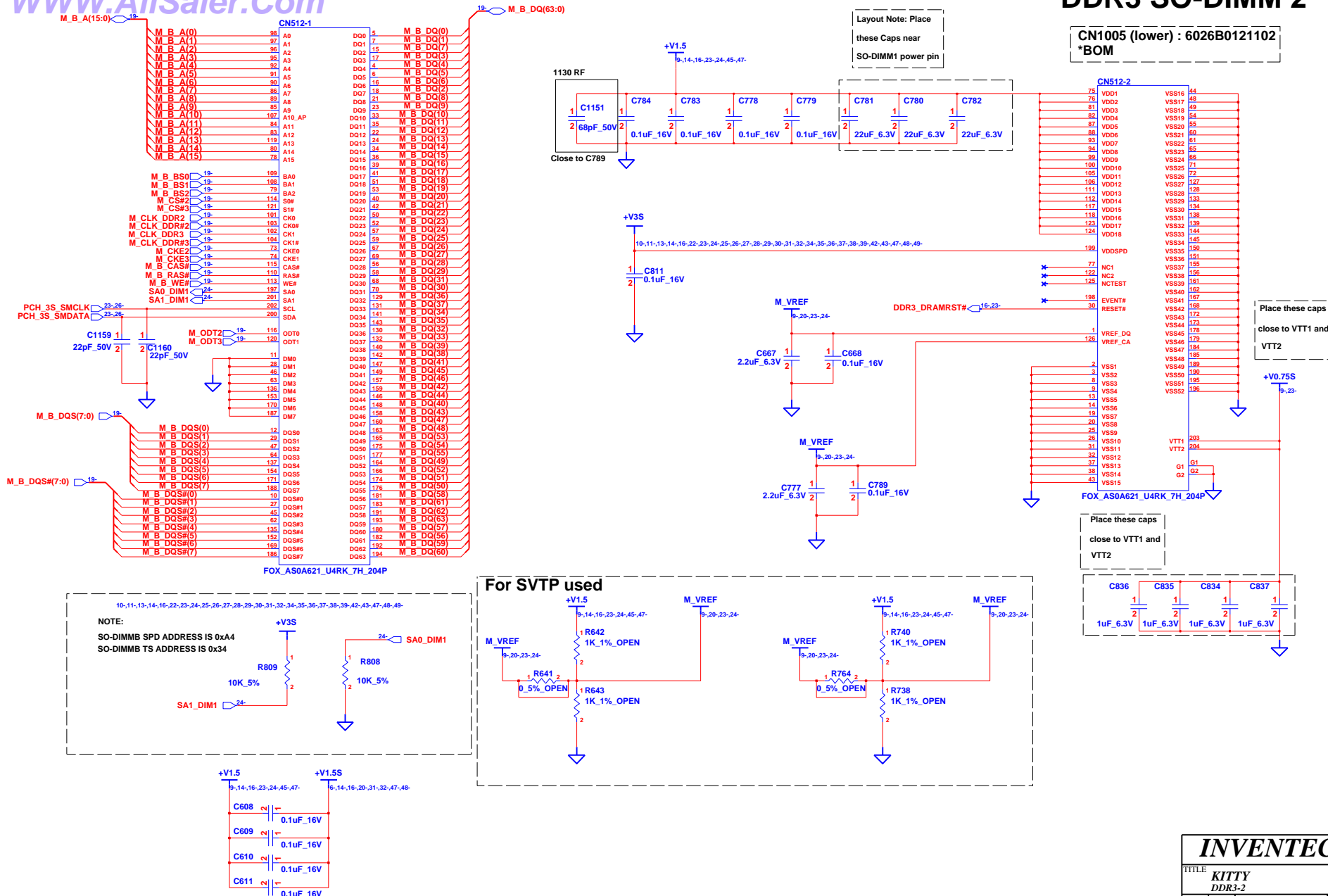
TITLE *KITTY
DDR3-1*

CHANGE by	<i>Chang, Irene</i>	<i>22-Mar-2011</i>
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DDR3 SO-DIMM 2

CN1005 (lower) : 6026B0121102
*BOM

**INVENTEC**

TITLE	<i>KITTY</i> <i>DDR3-2</i>
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
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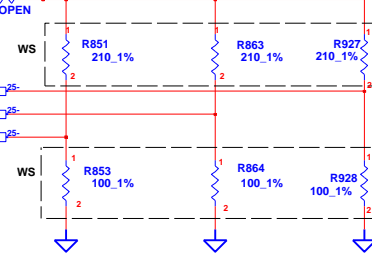
CHANGE by	<i>Chang, Irene</i>	22-Mar-2011
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PLEASE SHORT
AS POSSIBLE

6L : MOUNT X501 , C874 , C875
8L : MOUNT R14088

LAYOUT NOTE: JTAG_TDI TERMINATIONS NEED TO BE PLACED NEAR PCH
LAYOUT NOTE: JTAG_TDO TERMINATIONS NEED TO BE PLACED NEAR XDP

Placement note



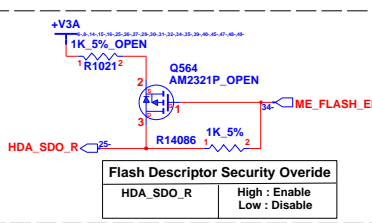
SATA HDD

SATA ODD

SATA Diff Pair Length Matching Table

Description	Maximum Mismatch
Segment to Segment Matching	GEN1 & 2 = 20mils GEN3 = 10mils
Total Length Matching	GEN1 & 2 = 20mils GEN3 = 10mils
TX to RX Matching	Not required

Generation	Breakout PTP Spacing	Others
GEN1 & 2	6 mils	15 mils
GEN3	8 mils	20 mils



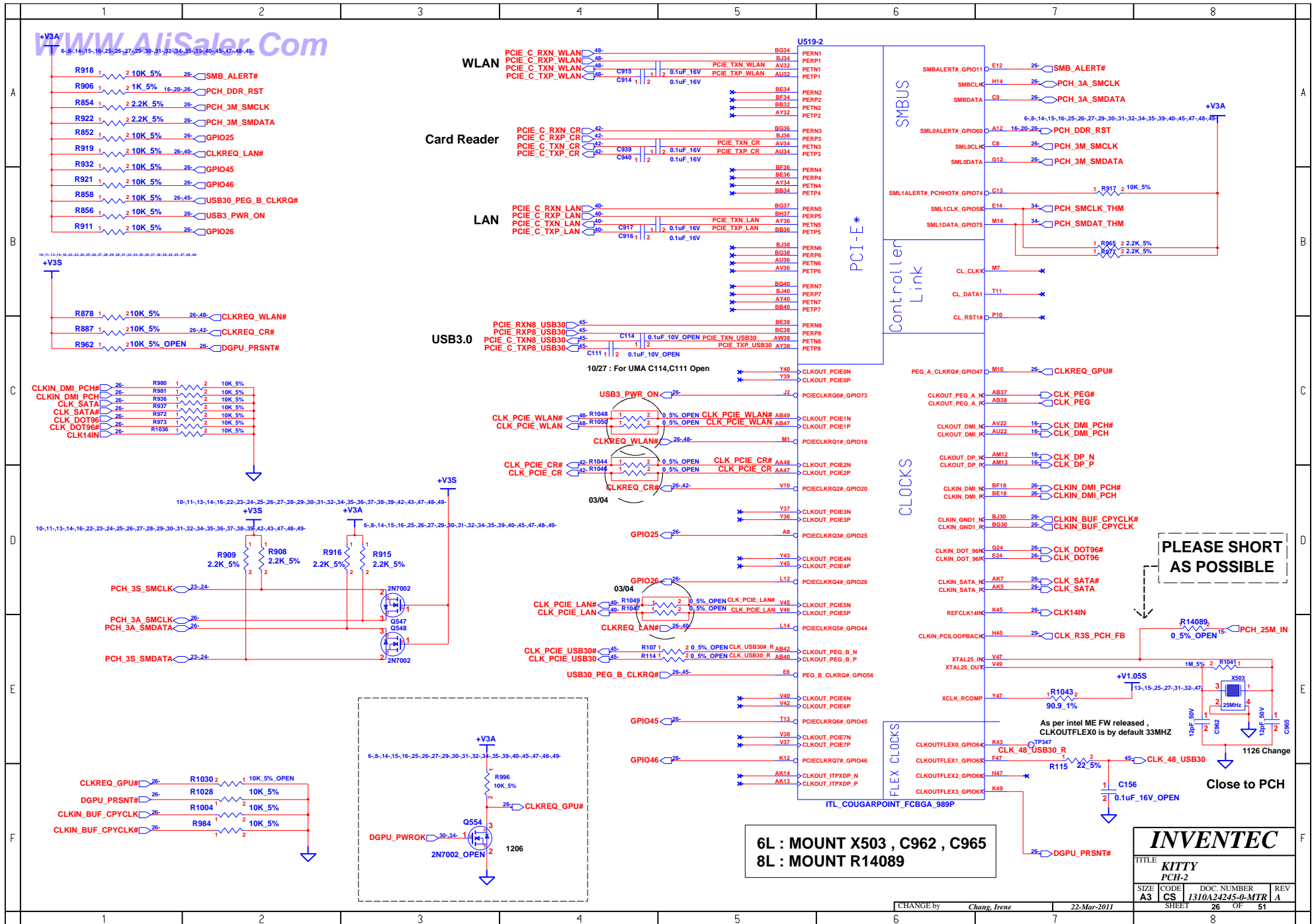
Flash Descriptor Security Override
HDA_SDO_R High : Enable
Low : Disable

BOM
U519 : 6019B0876201 -- B3

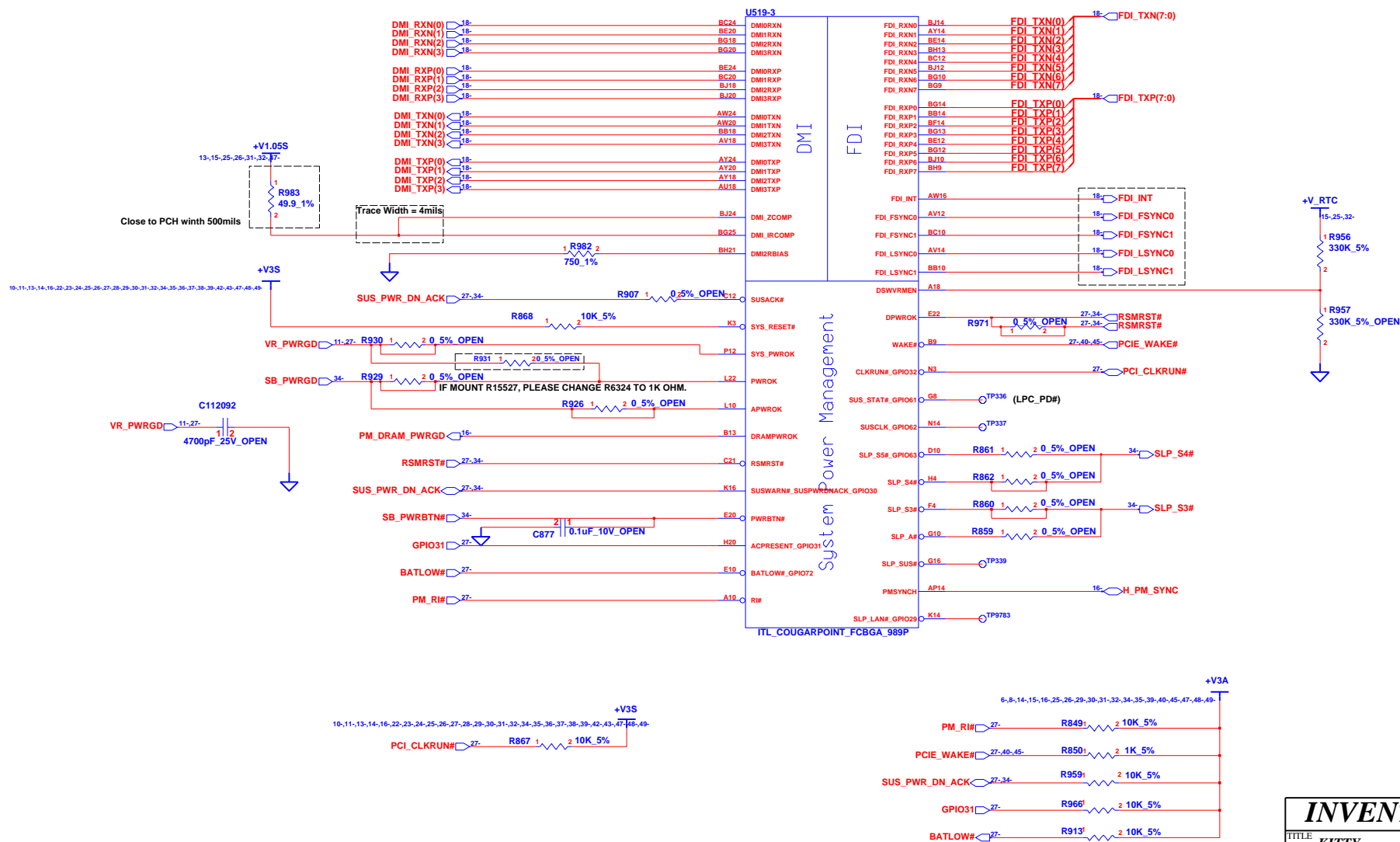
Close TO PCH

*U520 BOM (4MB)
MX25L3206EM2I-12G : 6019B0794701
SST25VF032B-80-4I-S2AF : 6019B0764801
W25Q32BVSSIG : 6019B0704901

Mount EC rom
open R947,R946,R948,R989
Open EC rom
mount R947,R946,R948,R989



Note: 1.SLP_SUS and SUSACK# are NC if DSW is not supported
2.DPWROK should connect to RSMRST# if DSW not supported
3.PCH_DPWROK pull up to +V3S enables DSW support. No install R5261 to disable DSW



INVENTEC

TITLE KITTY PCH-3			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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CHANGE by Chang, Irene 22-Mar-2011

A

B

C

D

E

F

A

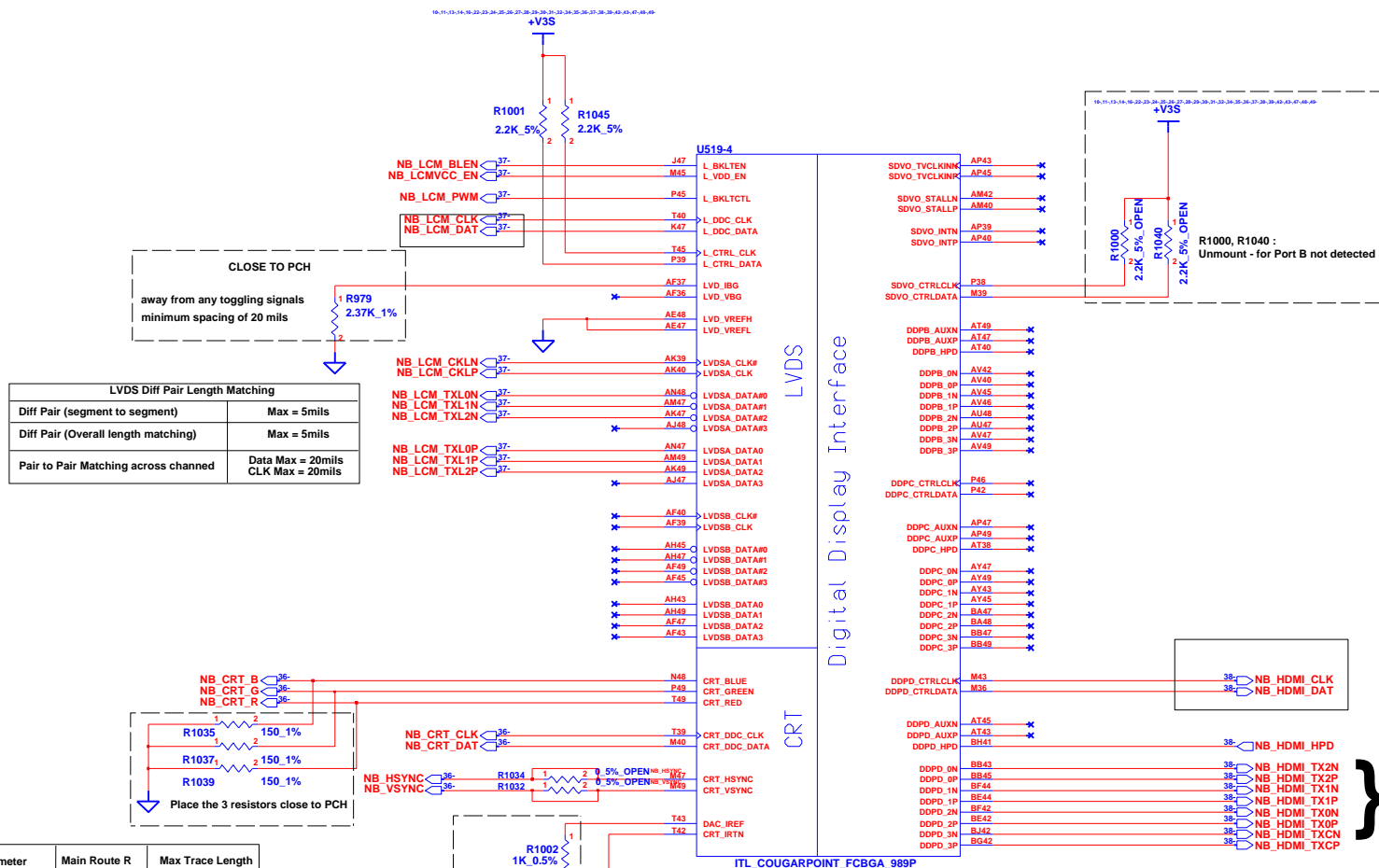
B

C

D

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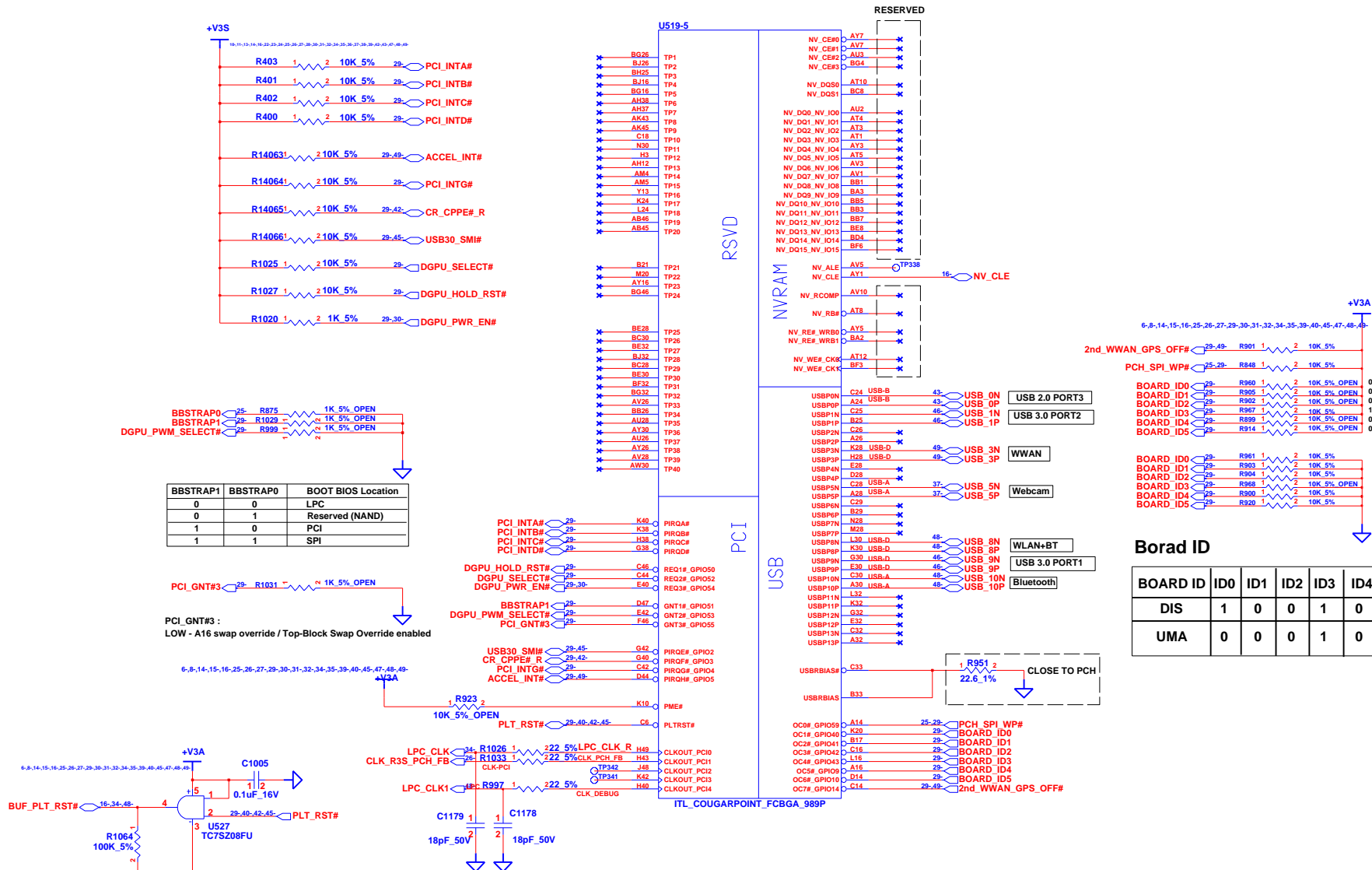


Parameter	Main Route R	Max Trace Length
LA (PCH Breakout)	37.5 ohm	800 mils
LB+LC (Main Route)	50 ohm	140,00 mils
LD (Filter Breakin)	50 ohm	500 mils
Total Motherboard trace		153,00 mils

HDMI Diff Pair Length Matching Table	
Description	Maximum Mismatch
Intrapair Matching	+/- 5mils
Interpair (Pair to Pair)	Max = 500mils
CTRL_CLK & DATA	Max = 1000mils

INVENTEC

TITLE KITTY PCH-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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Borad ID

BOARD ID	ID0	ID1	ID2	ID3	ID4	ID5
DIS	1	0	0	1	0	0
UMA	0	0	0	1	0	0

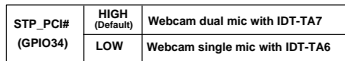
INVENTEC

TITLE
**KITTY
PCH-5**

SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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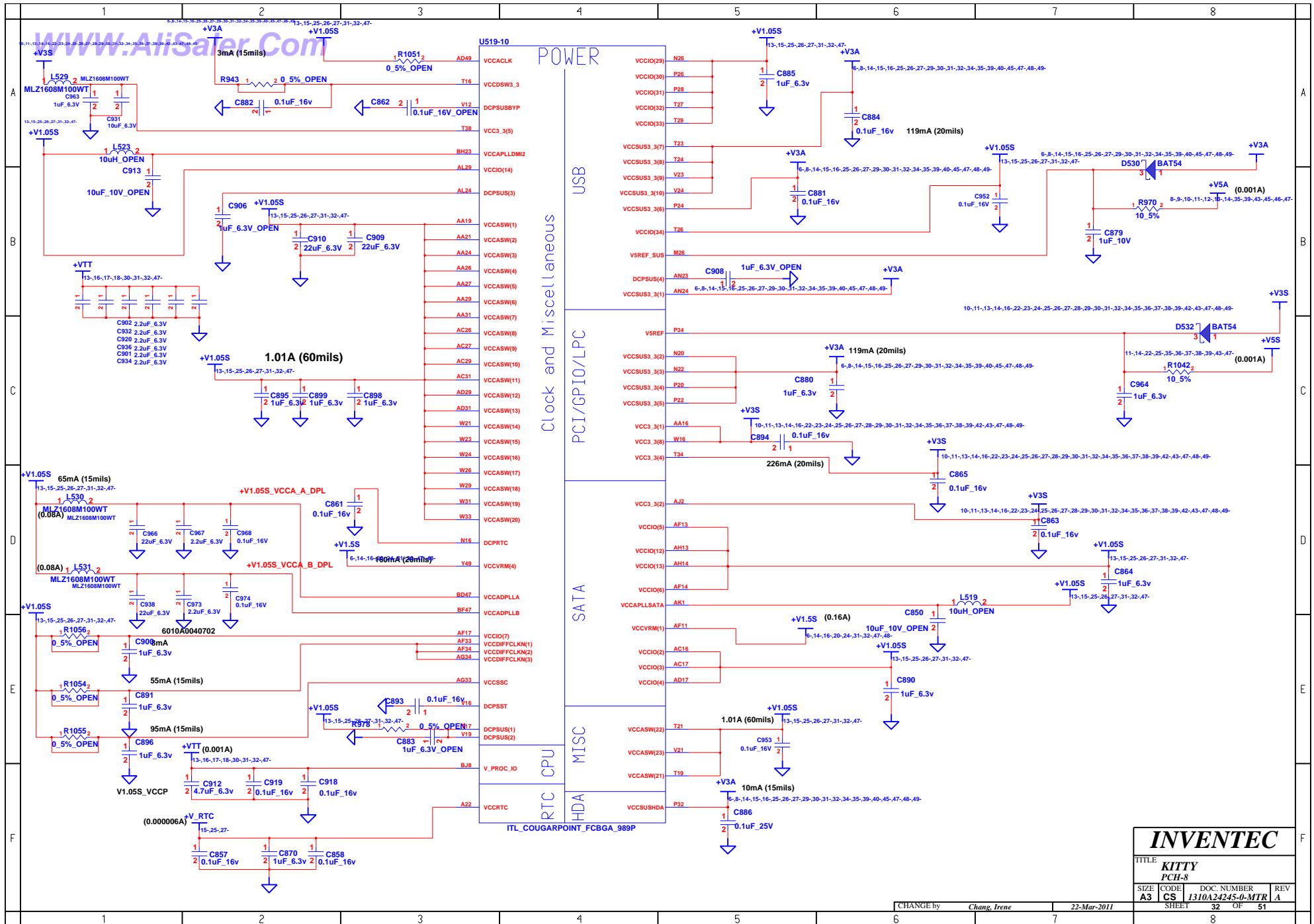
CHANGE by *Chang, Irene* 22-Mar-2011

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TITLE			
KITTY PCH-6			
SIZE	CODE	DOC. NUMBER	REV
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CHANGE by	Chang, Irene	22-Mar-2011
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A

B

C

D

E

F

A

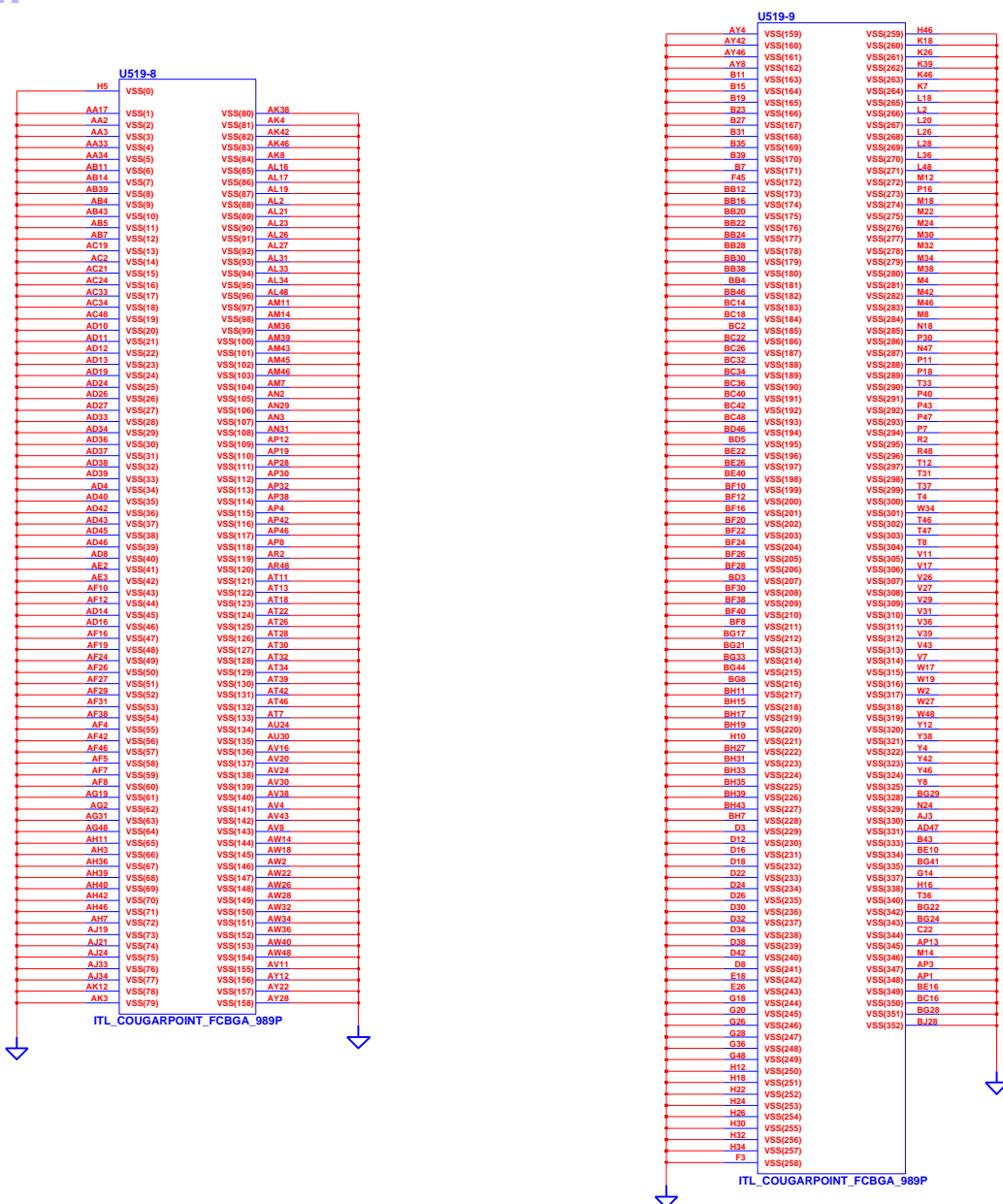
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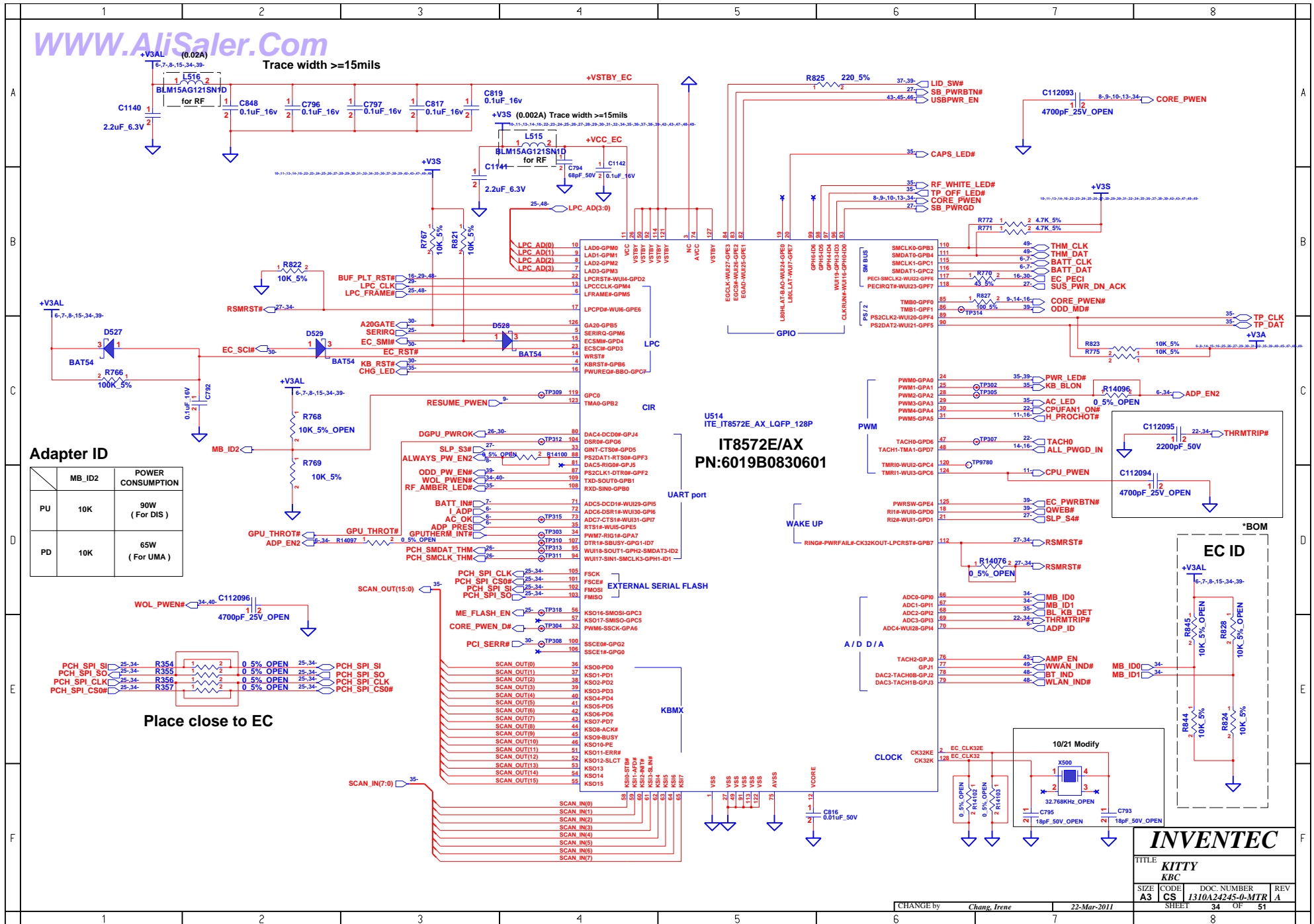
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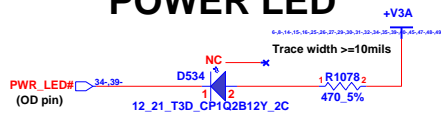
INVENTEC

TITLE KITTY PCH-9			
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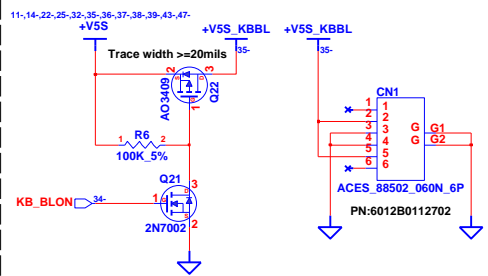
CHANGE by *Chang, Irene* 22-Mar-2011



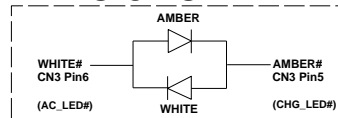
POWER LED



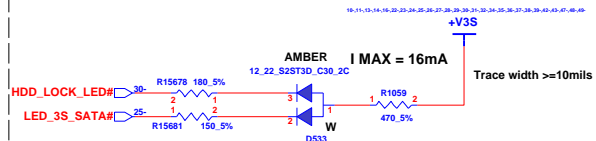
KeyBoard Baklight CONN



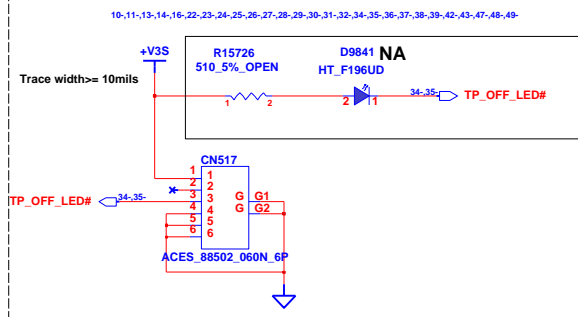
DC-JACK LED



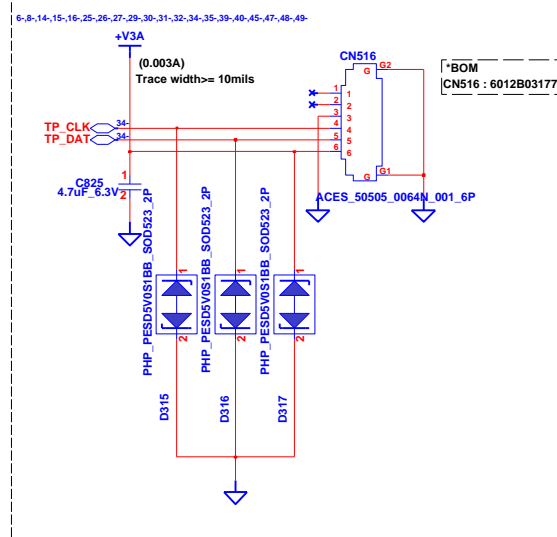
SATA LED & HDD-HALTED LED



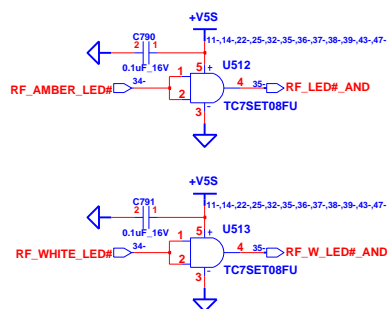
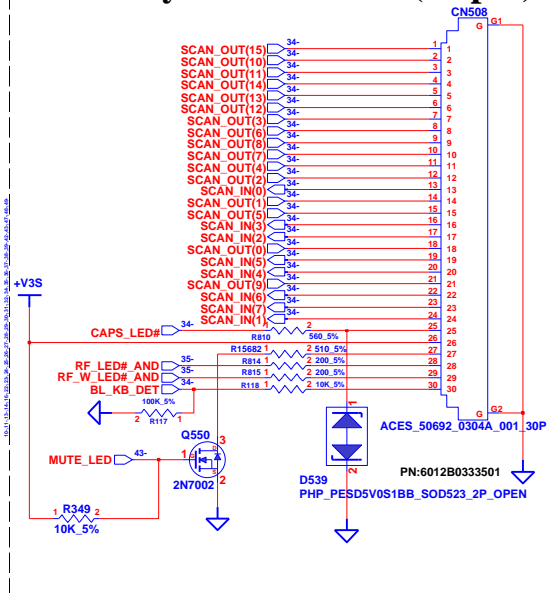
TP LED CONN on MB



TouchPad Module CN on MB

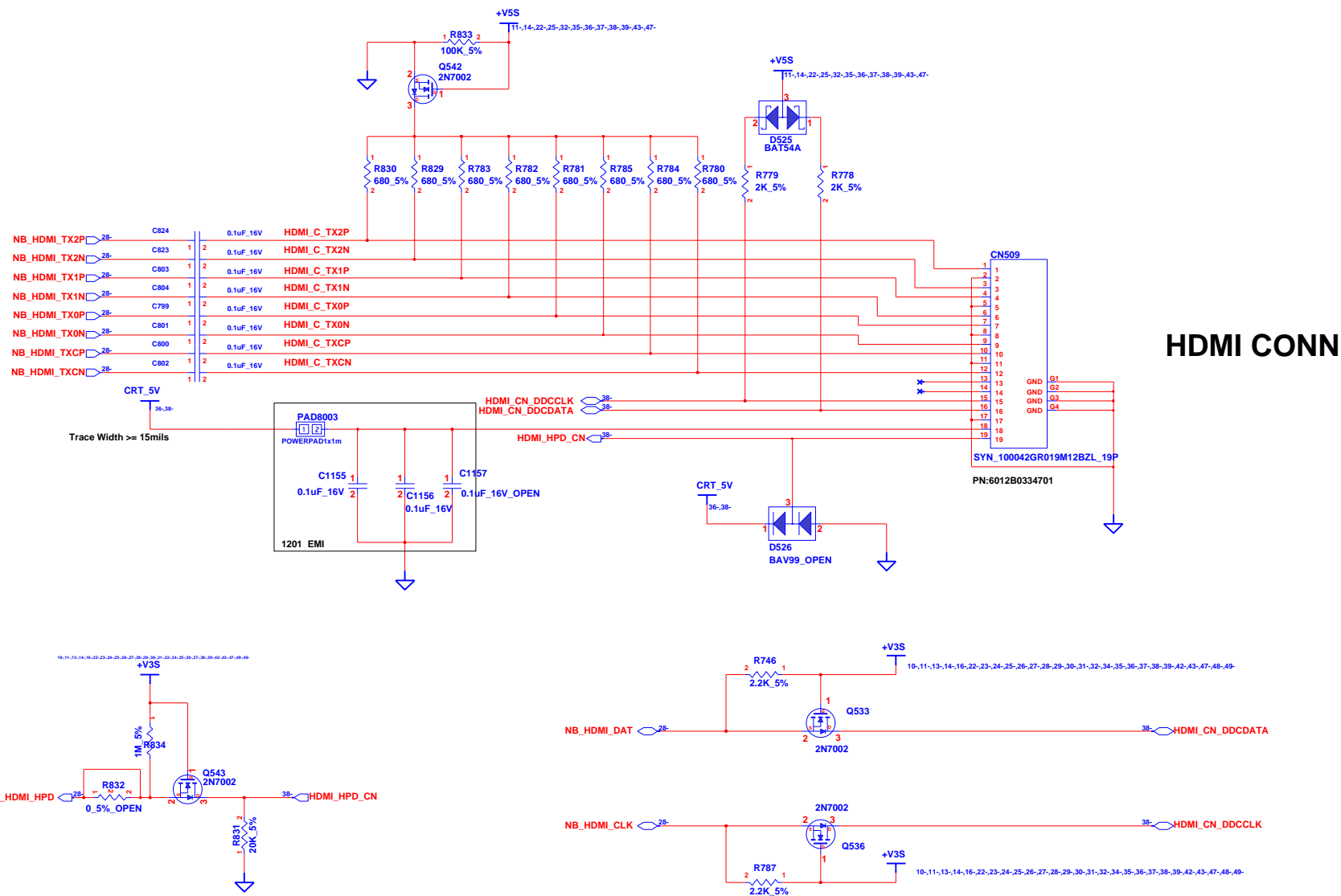


KeyBoard CONN (30 pin)



INVENTEC

TITLE KITTY Keyboard & TouchPad			
SIZE A3	CODE CS	DOC NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 35		OF 51	



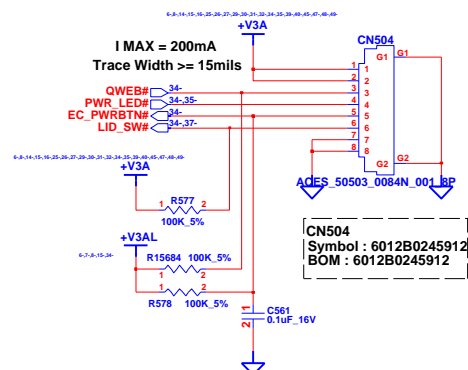
HDMI CONN

INVENTEC

TITLE KITTY HDMI Level-Shift			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 38		OF 51	

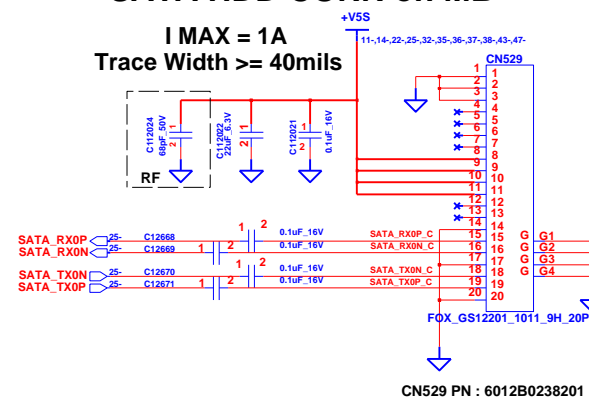
CHANGE by Chang, Irene 22-Mar-2011

PBN Cable CN on MB



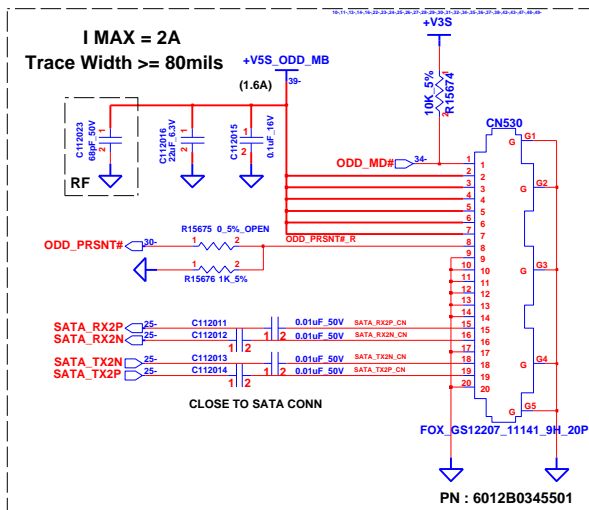
SATA HDD CONN on MB

I MAX = 1A
Trace Width >= 40mils



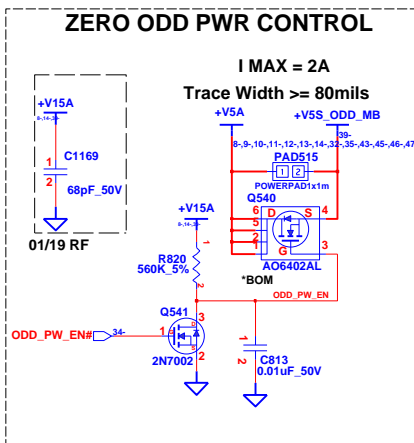
SATA ODD CONN on MB

I MAX = 2A
Trace Width >= 80mils



ZERO ODD PWR CONTROL

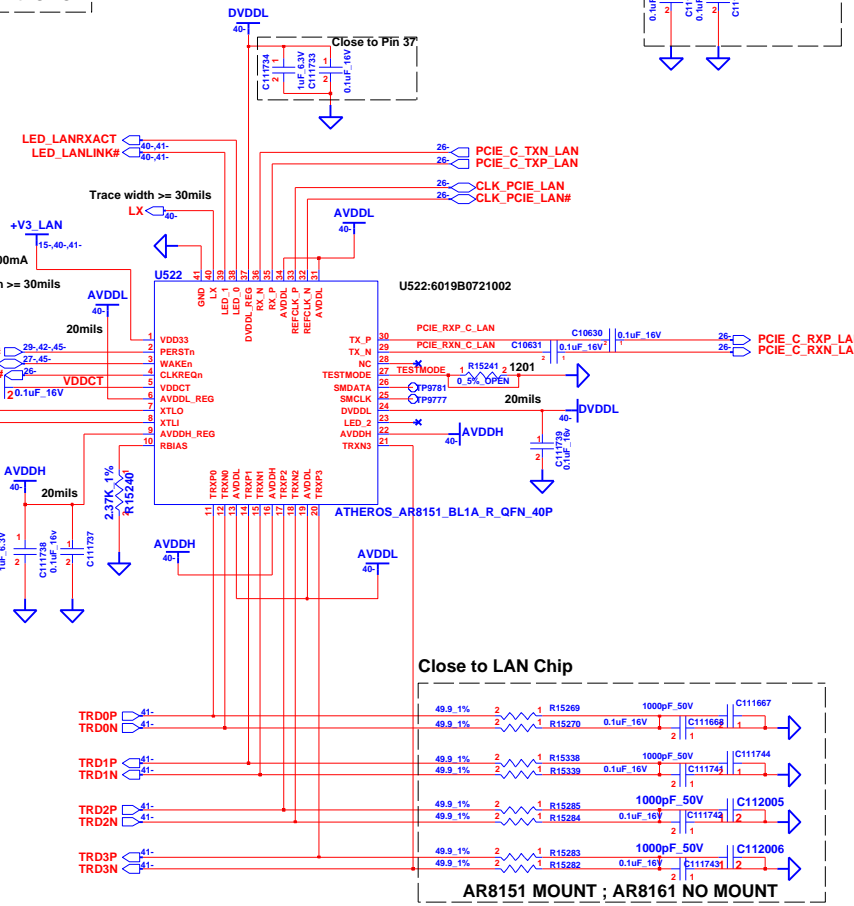
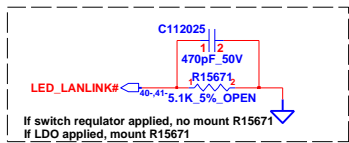
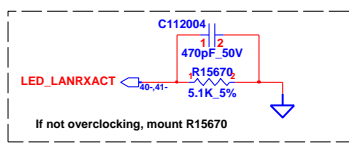
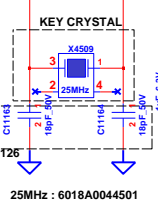
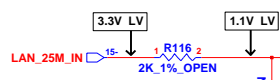
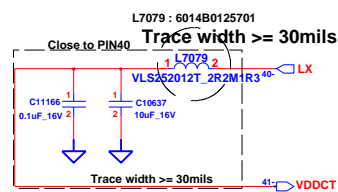
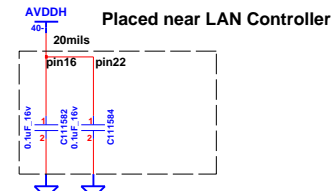
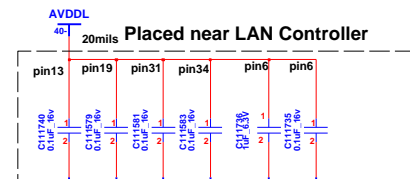
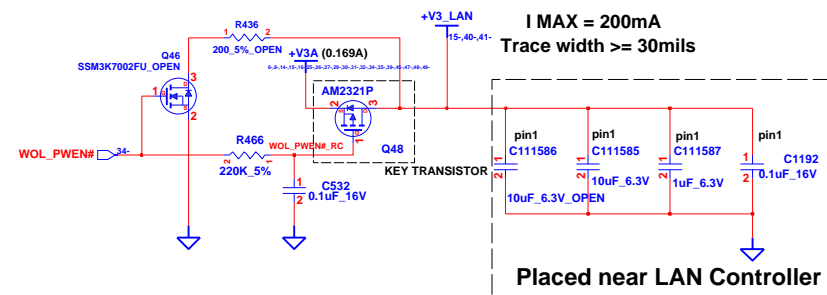
I MAX = 2A
Trace Width >= 80mils



INVENTEC

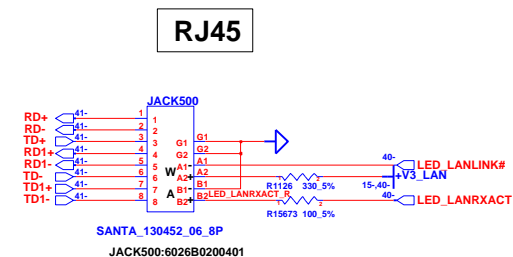
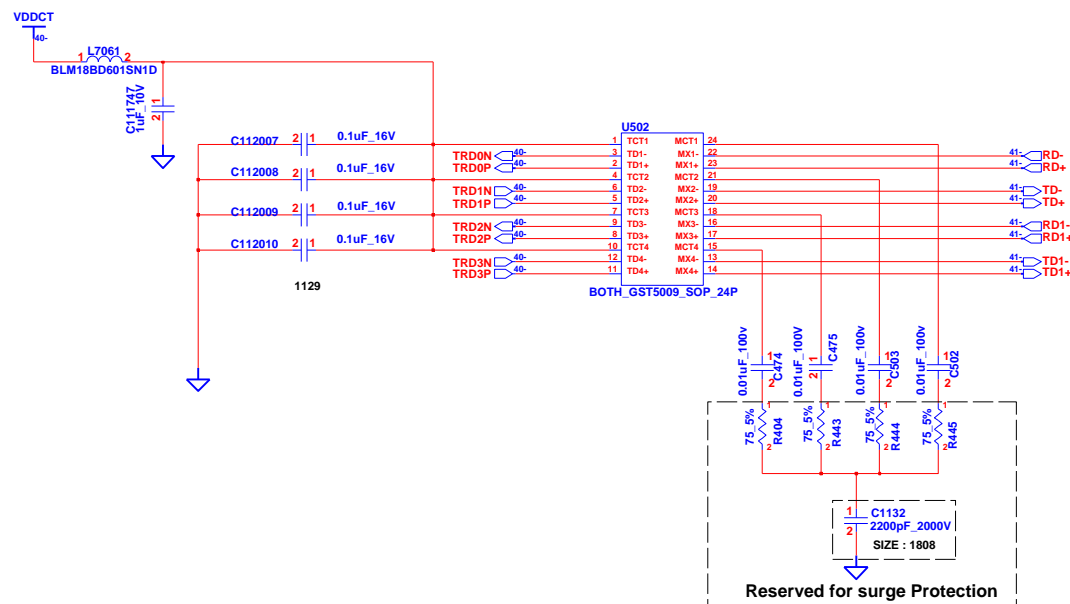
TITLE KITTY SATA HDD & ODD			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 39		OF 51	

CHANGE by Chang, Irene 22-Mar-2011



INVENTEC				
TITLE KITTY LAN				
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR		REV A
SHEET 40		OF 51		

CHANGE by: Chang, Irene 22-Mar-2011



LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

INVENTEC

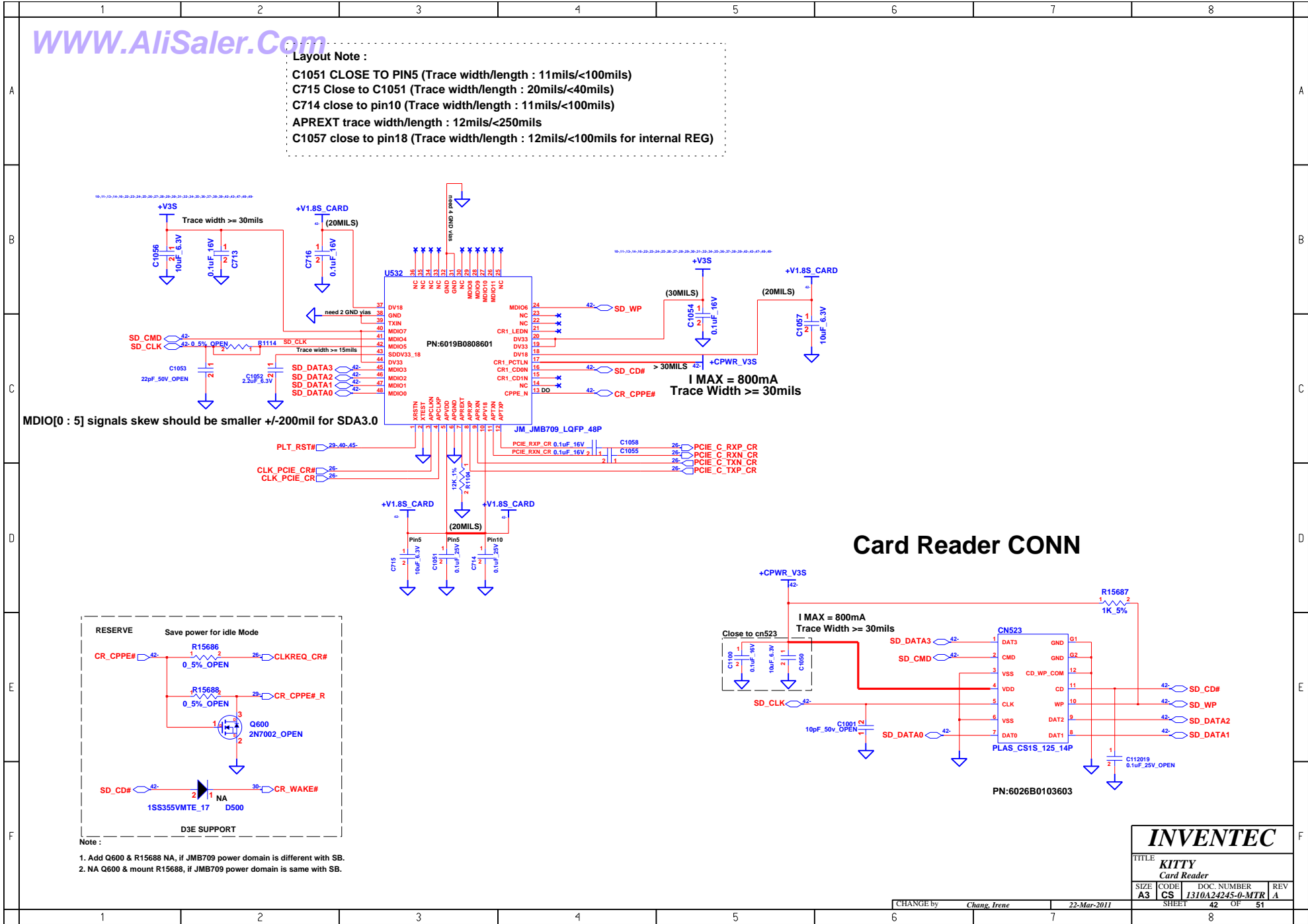
TITLE KITTY RJ-45			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 41		OF 51	

CHANGE by *Chang, Irene* 22-Mar-2011

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Layout Note :

- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)



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Layout Note :

- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)

MDIO[0 : 5] signals skew should be smaller +/-200mil for SDA3.0

Card Reader CONN

I MAX = 800mA
Trace Width >= 30mils

D3E SUPPORT

Note :

1. Add Q600 & R15688 NA, if JMB709 power domain is different with SB.
2. NA Q600 & mount R15688, if JMB709 power domain is same with SB.

INVENTEC

TITLE
KITTY
Card Reader

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A

CHANGE by: Chang, Irene 22-Mar-2011

SHEET 42 OF 51

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Layout Note :

- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)

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Layout Note :

- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)

MDIO[0 : 5] signals skew should be smaller +/-200mil for SDA3.0

Card Reader CONN

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Layout Note :

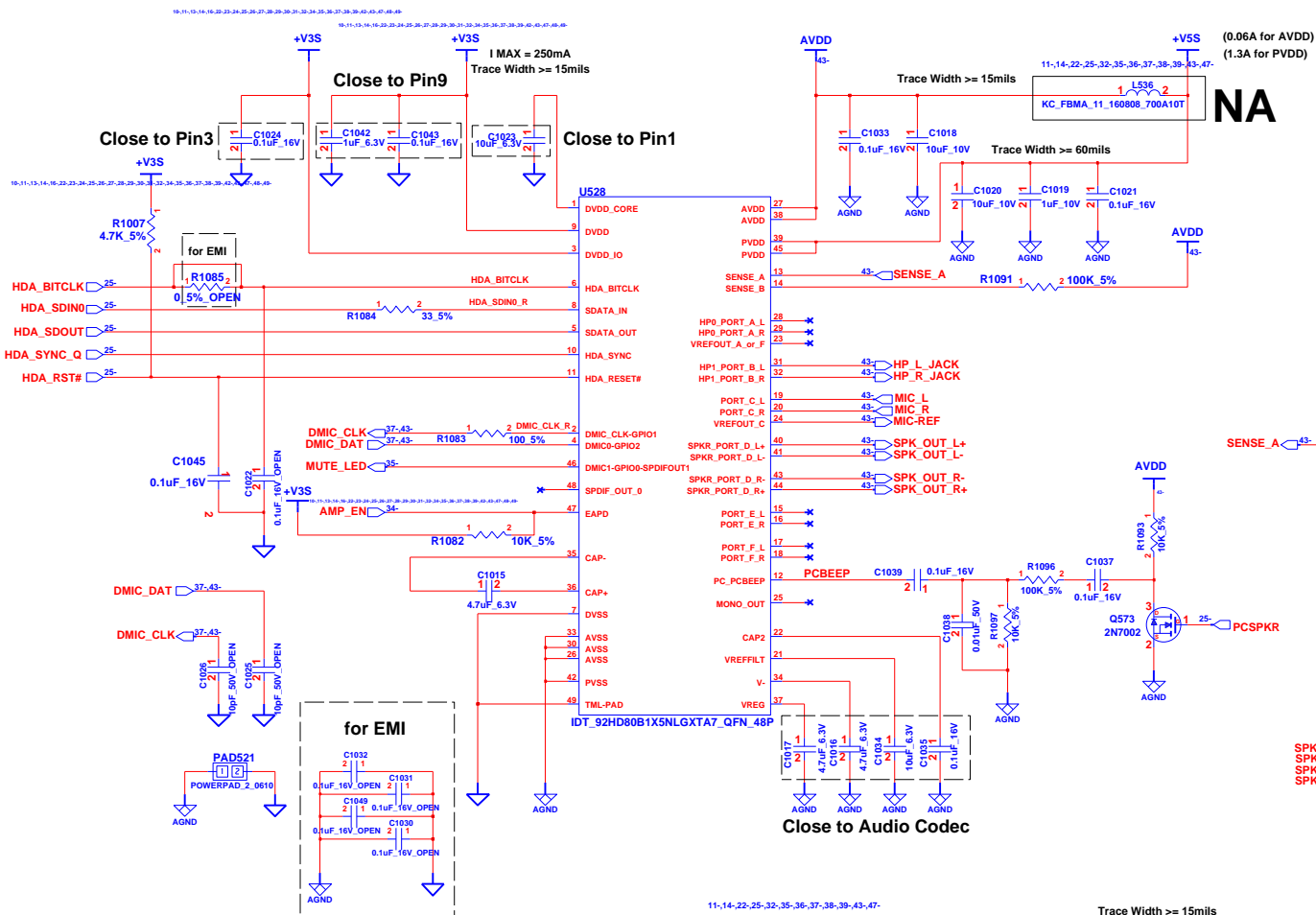
- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)

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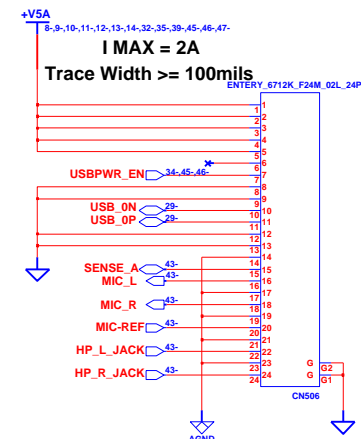
Layout Note :

- C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)
- C715 Close to C1051 (Trace width/length : 20mils/<40mils)
- C714 close to pin10 (Trace width/length : 11mils/<100mils)
- APREXT trace width/length : 12mils/<250mils
- C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)

***BOM 6019B0825801**

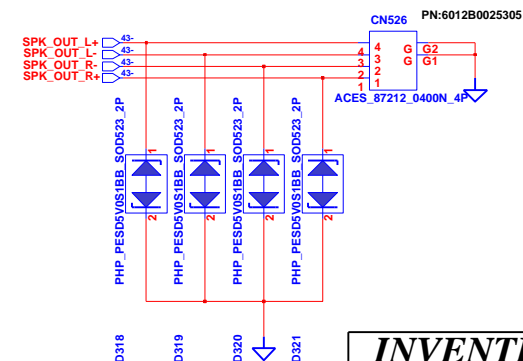


USB + AUDIO BOARD Cable on MB



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

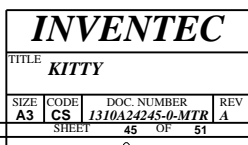
INT-SPEAKER CONN

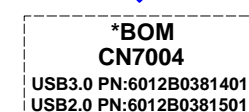
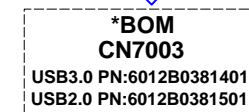
**INVENTEC**

TITLE			
KITTY			
Audio Codec			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		43	OF 51

	1	2	3	4	5	6	7	8	
A	<div>WWW.AliSaler.Com</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE KITTY			
HP JACK & MIC JACK			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 44		OF 51	





CHANGE by	<i>Chang, Irene</i>	<i>22-Mar-2011</i>
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[illegible]

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY			
SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

[illegible]

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY			
SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

[illegible][illegible]

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

INVENTEC

TITLE KITTY			
SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

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for MB

CPU's screws

for PCH

for THERMAL FAN

NUT P/N :
6052B0095601

*BOM

EMI

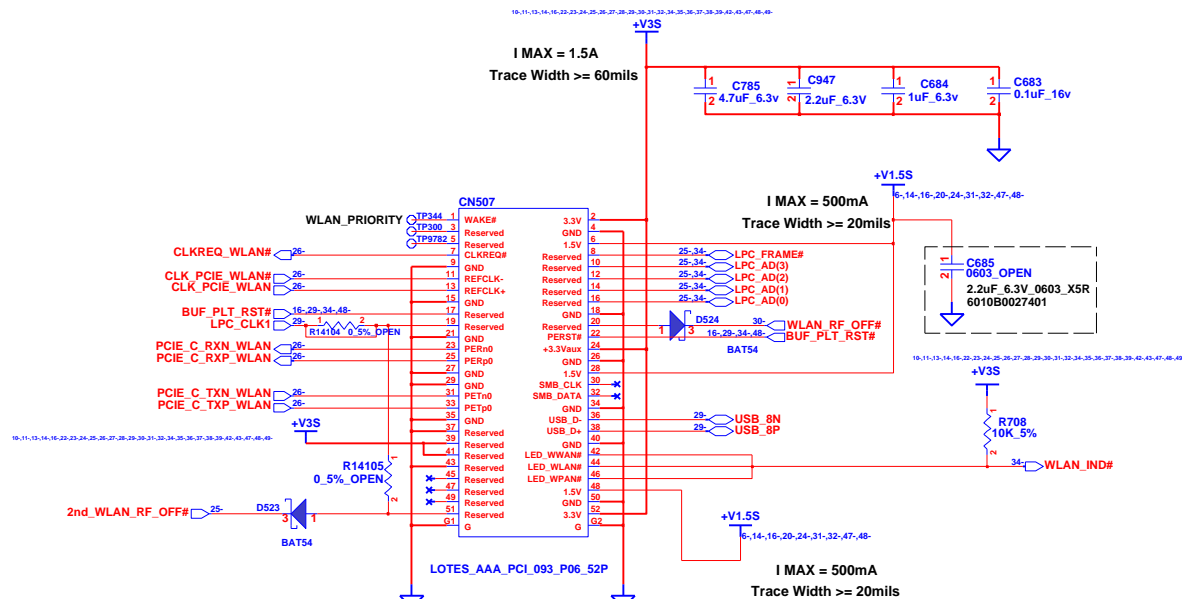
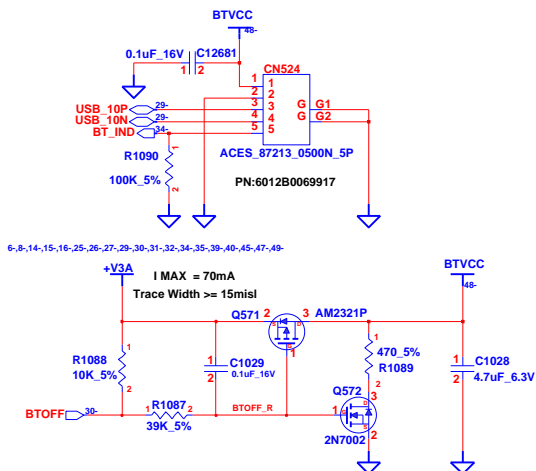
INVENTEC

TITLE KITTY			
SCREW & CONN			
SIZE A3	CODE CS	DOC. NUMBER I310A24245-0-MTR	REV A
SHEET 47		OF 51	

CHANGE by: Chang, Irene 22-Mar-2011

WLAN CONN (MINICARD)

BLUETOOTH CONN



*BOM
CN507 : 6026B0184301

INVENTEC			
TITLE KITTY WLAN, BT & WebCAM			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 48		OF 51	

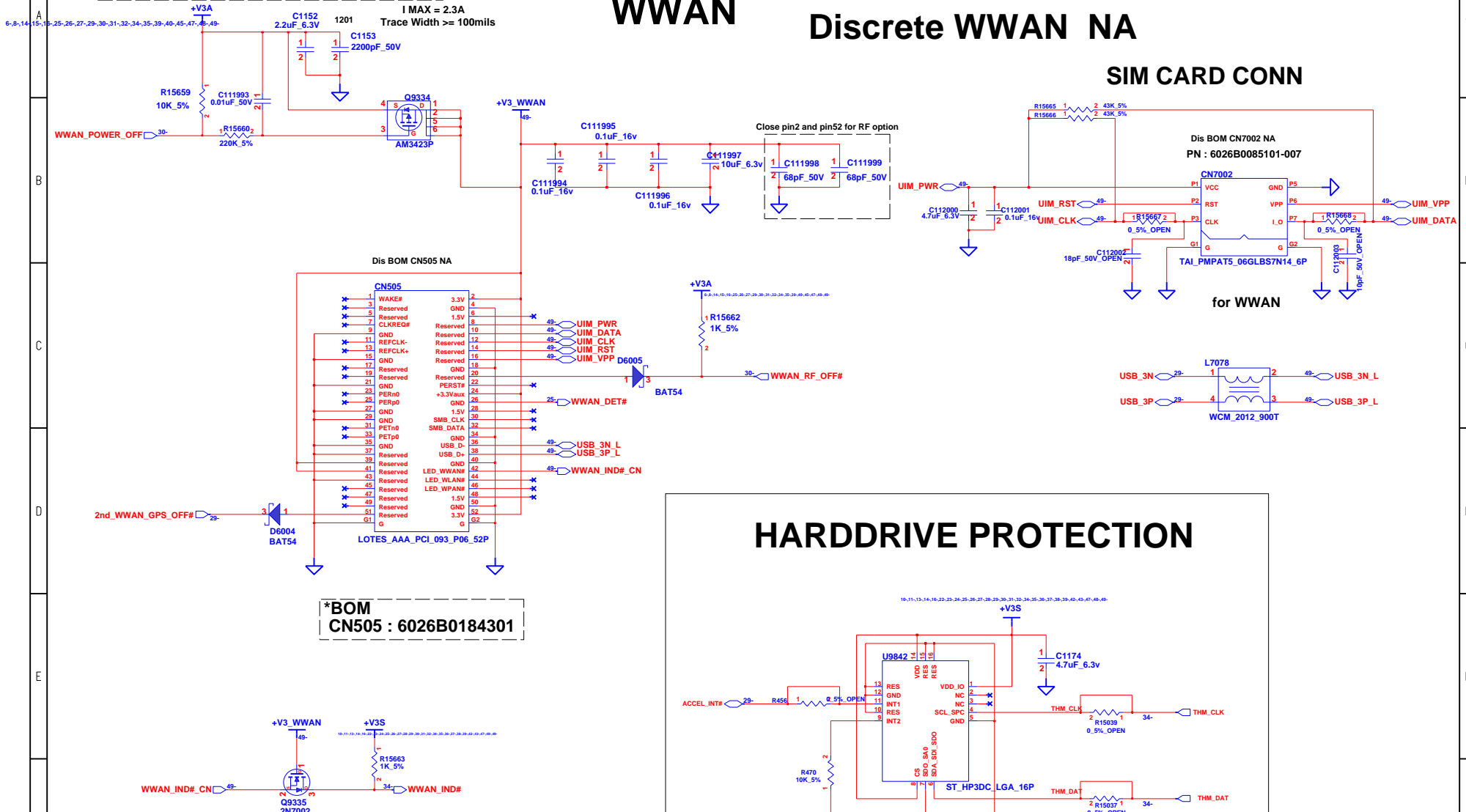
OPTION PART

WWAN

UMA WWAN stuff Discrete WWAN NA

SIM CARD CONN

HARDDRIVE PROTECTION



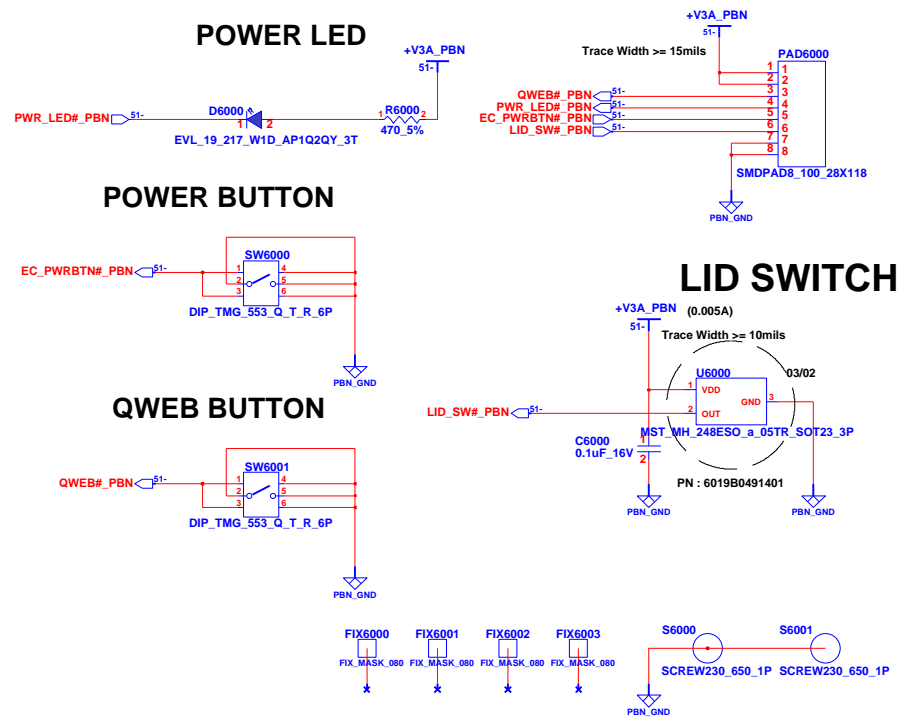
INVENTEC

TITLE
**KITTY
USB CONN**

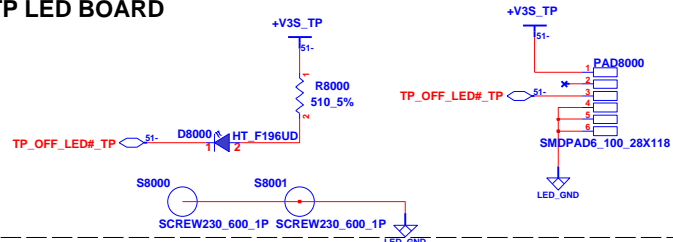
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		49	OF 51

CHANGE by *Chang, Irene* 22-Mar-2011

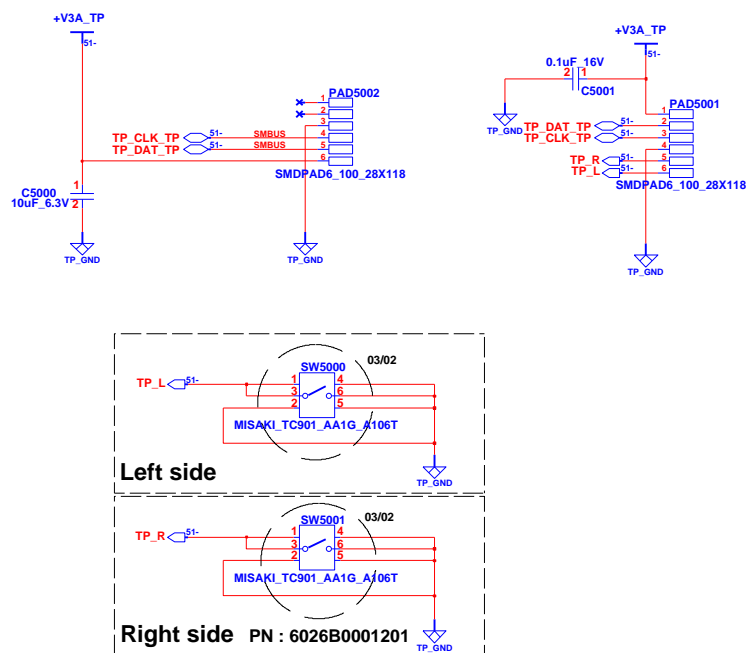
POWER BOTTON BOARD



TP LED BOARD



PICK BUTTON BOARD



Left side

Right side PN : 6026B0001201

INVENTEC

TITLE
KITTY

SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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CHANGE by Chang, Irene 22-Mar-2011

SHEET 51 OF 51