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SHEET		1 OF 70																																																																																																					
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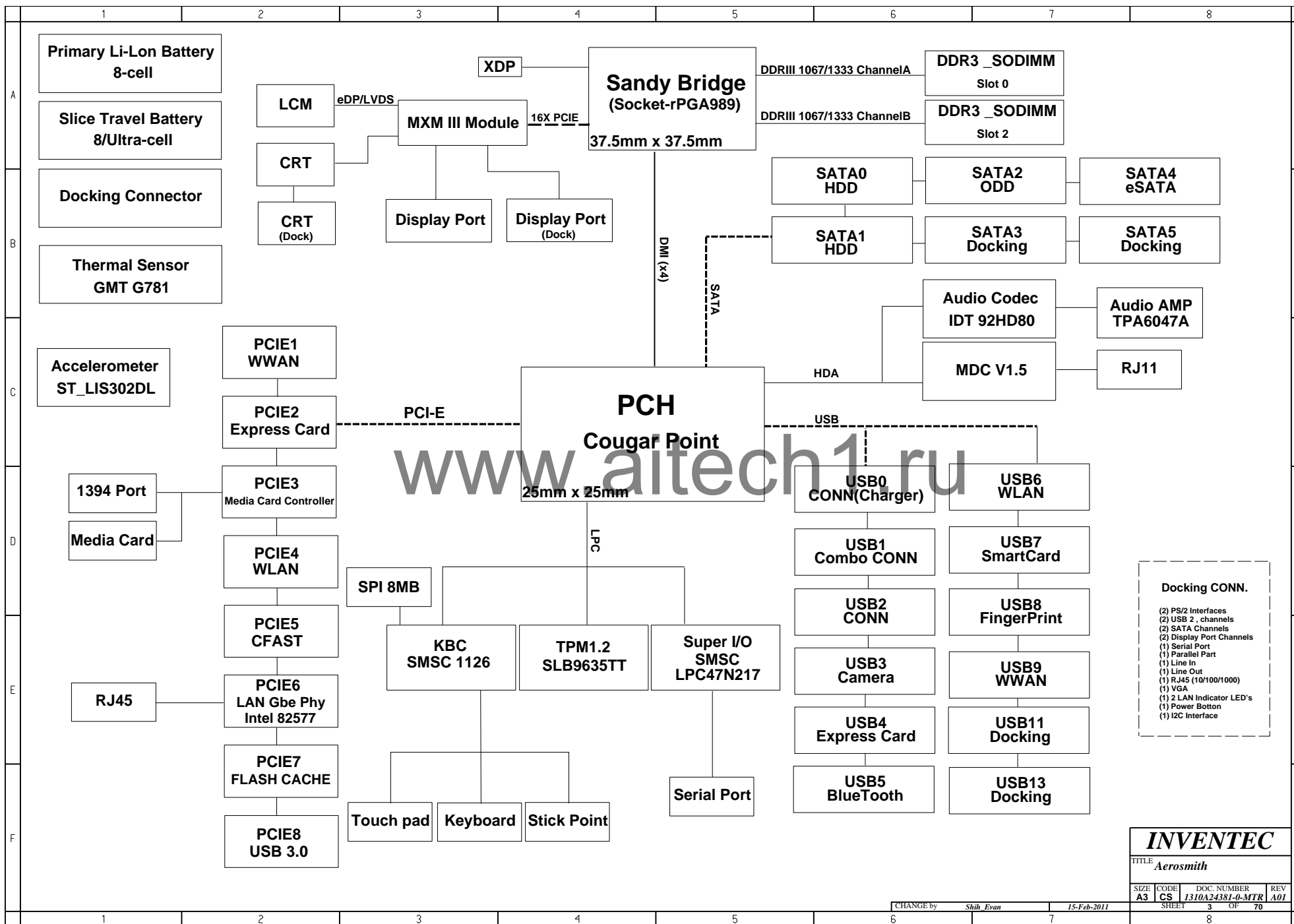
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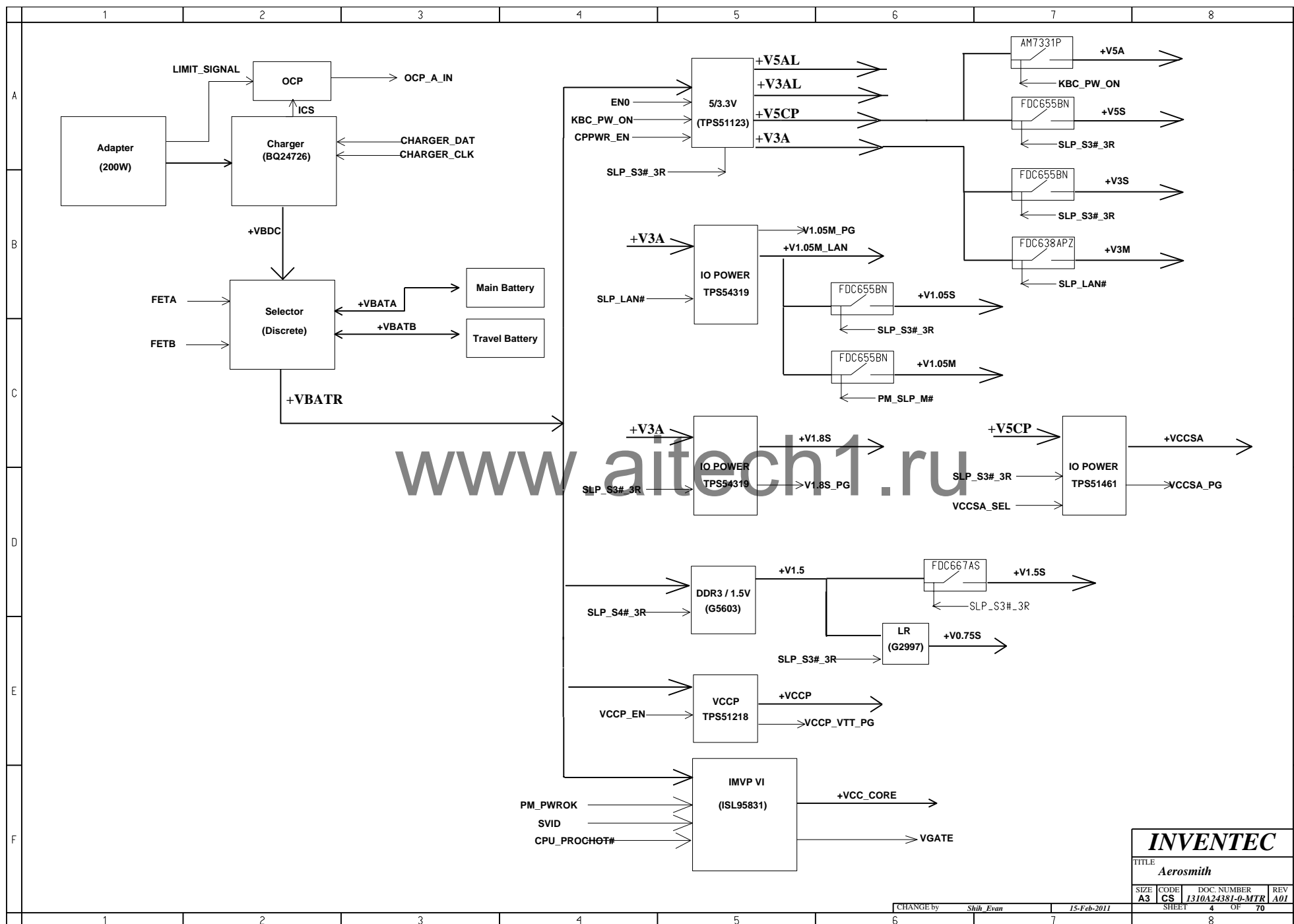
5- DC IN & BATTERY CHARGER	31- PCH_3	57- AUDIO
6- SELECT & BATTERY CONN	32- PCH_4	58- AUDIO
7- SYSTEM POWER(3V/5V)	33- PCH_5	59- USB PORT(CHARGER)
8- SYSTEM POWER(+V1.5/+V0.75S)	34- PCH_6	60- SYSTEM LED
9- SYSTEM POWER(+V1.8S/Turbo Boost)	35- PCH_7	61- DISPLAY PORT
10- SYSTEM POWER(+VCCP/+V1.05M_LAN)	36- PCH_8	62- USB & eSATA COMBO
11- CPU POWER(+V0.85S)	37- PCH_9	63- USB 3.0 CONTROLLER
12- CPU POWER(+VCC_CORE)	38- KBC & SPI	64- USB 3.0 CONNECTOR
13- CPU POWER(+VCC_CORE)	39- KEYBOARD	65- CARD READER
14- POWER(SLEEP)	40- SUPER I/O	66- SD/MMC & 1394A
15- POWER(SEQUENCE)	41- KB BL&POINT STICK&TOUCH PAD	67- CFAST
16- FAN & THERMAL SENSOR	42- HDD & ODD	68- POWER SW & HALL SENSOR
17- XDP CONNECTOR	43- BT & FP & CAMERA	69- SYSTEM SW & LED
18- SANDY BRIDGE_1	44- ACCELEROMETER	70- SCREW
19- SANDY BRIDGE_2	45- TPM & MDC	
20- SANDY BRIDGE_3	46- LAN PHY	
21- SANDY BRIDGE_4	47- LAN SWITCH RJ45	
22- SANDY BRIDGE_5	48- WLAN & WWAN & SIM CARD	
23- SANDY BRIDGE_6	49- FLASH CACHE--MINI CARD	
24- DDR3-DIMM0(A)	50- SMART CARD	
25-	51- EXPRESS CARD	
26-	52- LED	
27- DDR3-DIMM0(B)	53- LCM	
28-	54- CRT	
29- PCH_1	55- DOCKING CNTR	
30- PCH_2	56- MXM CONNECTOR	

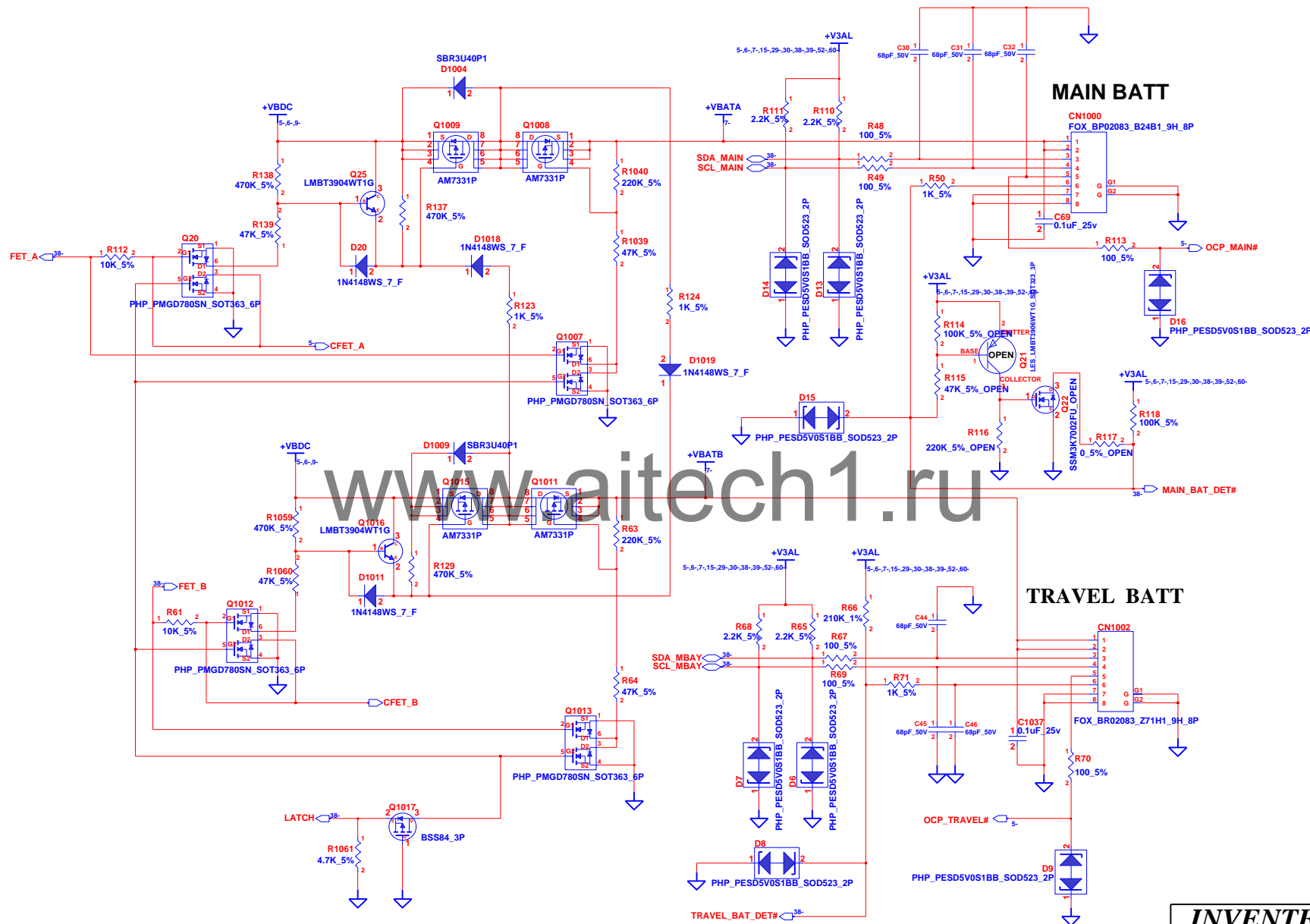
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TITLE			
Aerosmith			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		2	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011







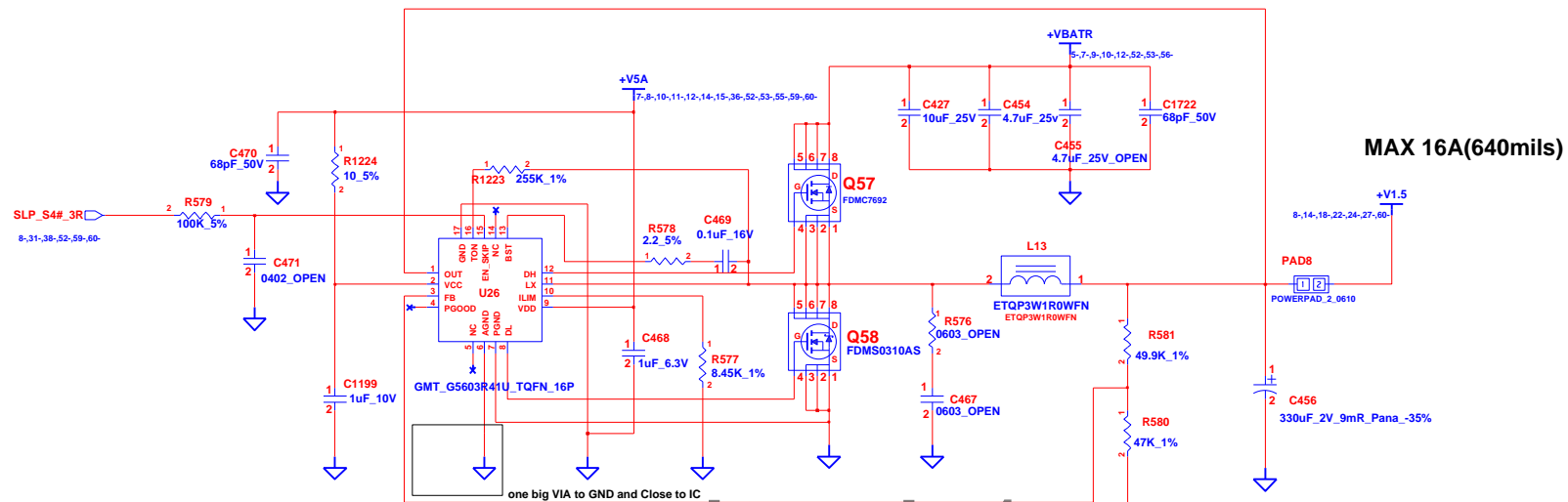
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INVENTEC

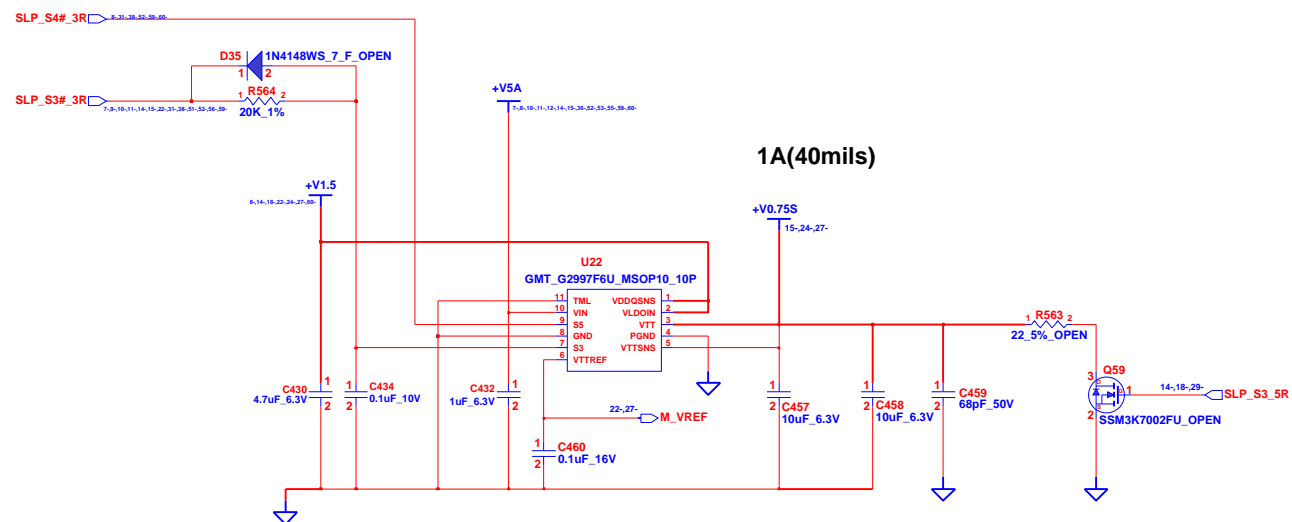
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Aerosmith
SELECT & BATTERY CONN
SIZE CODE CS
REV A01

CHANGE by Shih_Evan 15-Feb-2011

SHEET 6 OF 70

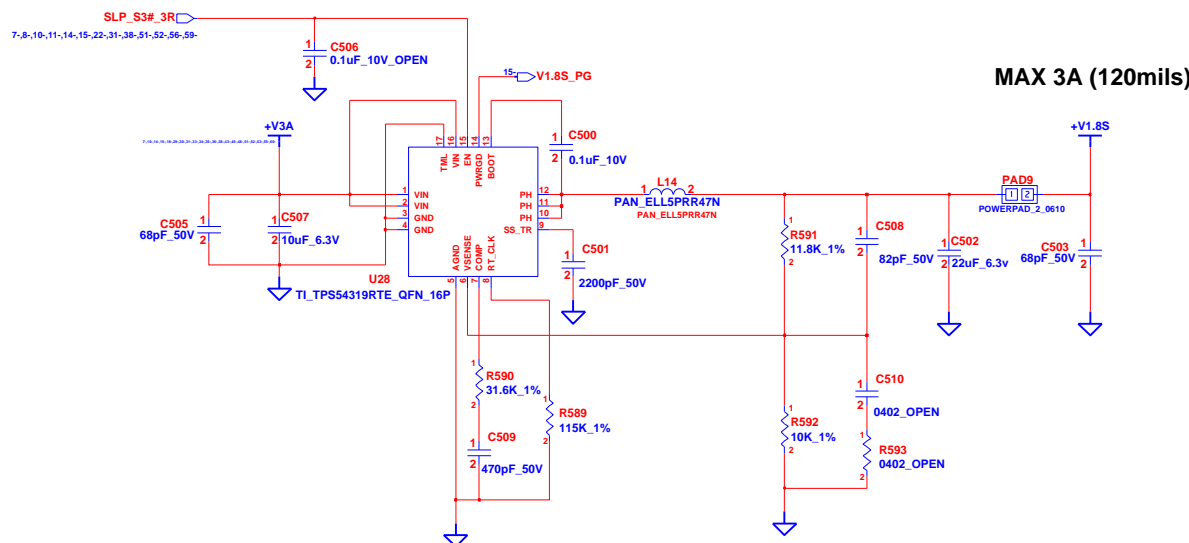


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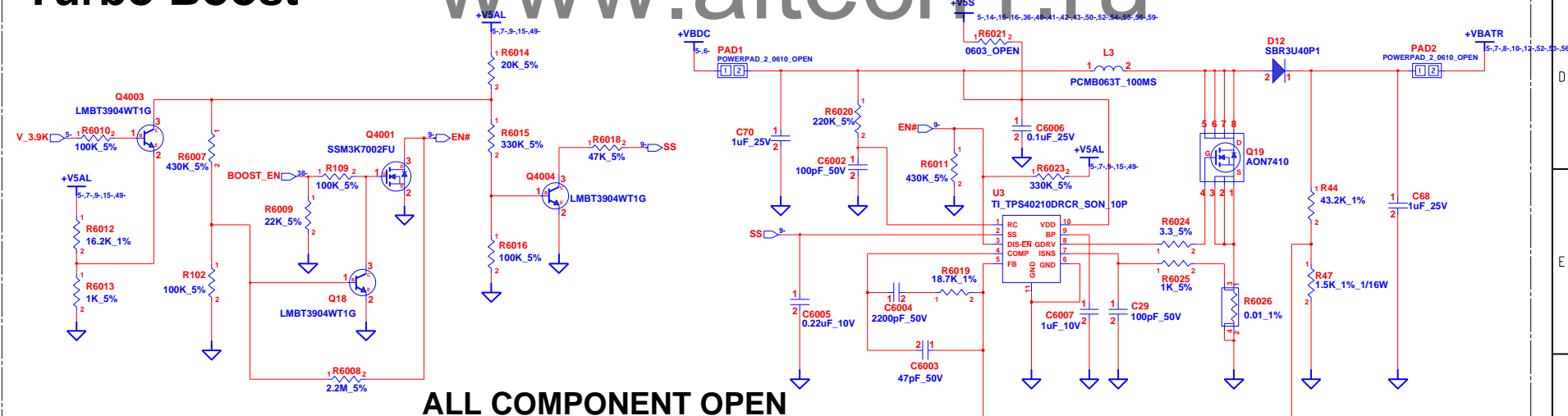
NOTE: DDR3 REGULATOR

INVENTEC			
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SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by Shih_Evan		15-Feb-2011	
SHEET 8		OF 70	



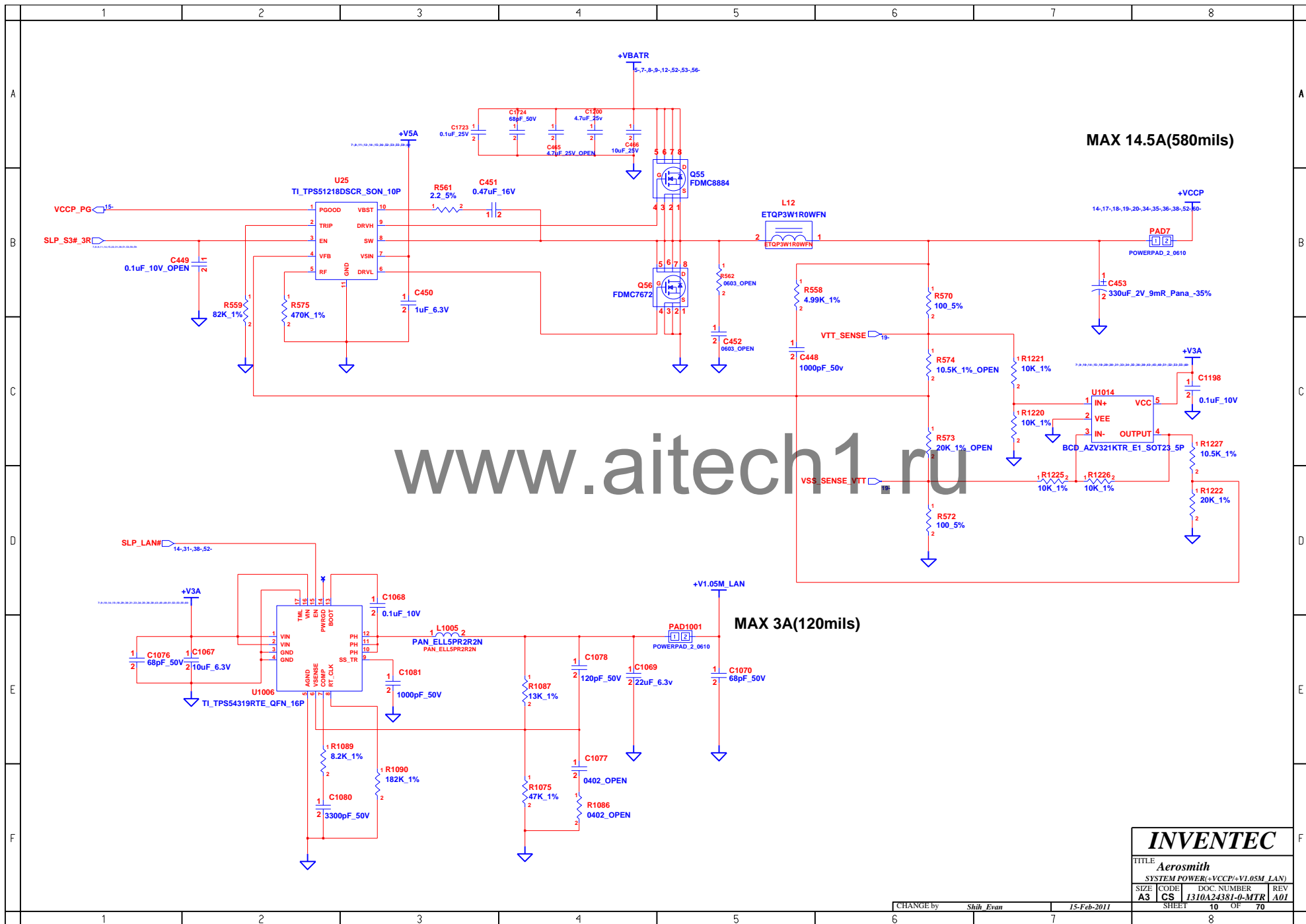
Turbo Boost

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**INVENTEC**

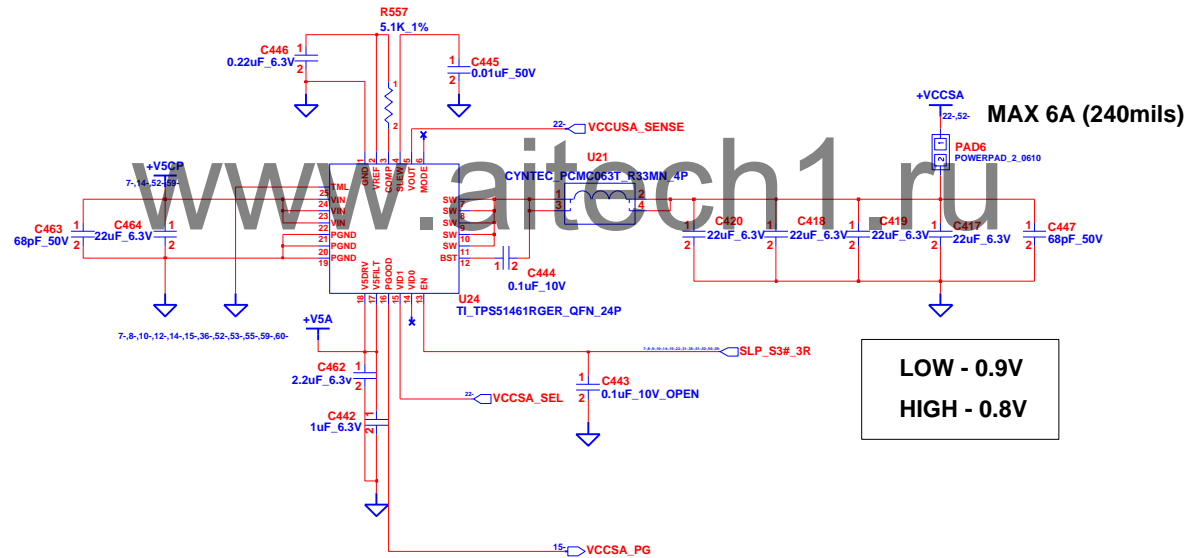
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A3	CS	1310A24381-0-MTR	A01
SHEET		9	OF 70

CHANGE by	<i>Shih Eyan</i>	<i>15-Feb-2011</i>
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INVENTEC			
TITLE: Aerosmith			
SYSTEM POWER(+VCCP/+V1.05M_LAN)			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A24381-0-MTR	REV: A01
SHEET: 10		OF: 70	

CHANGE by: Shih_Evan 15-Feb-2011

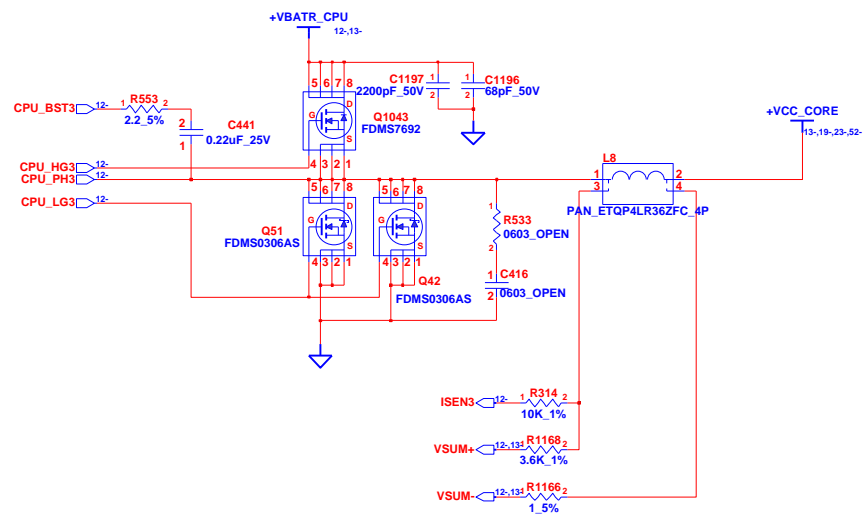
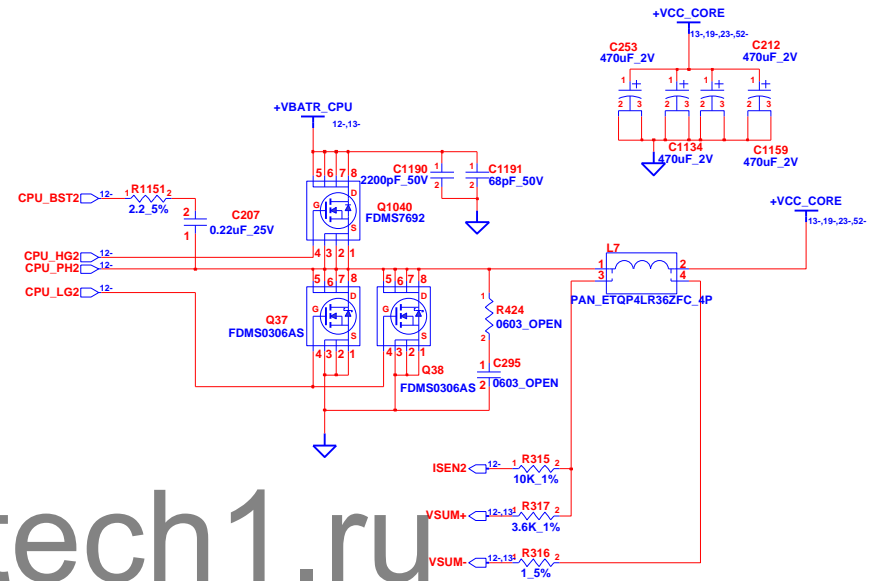
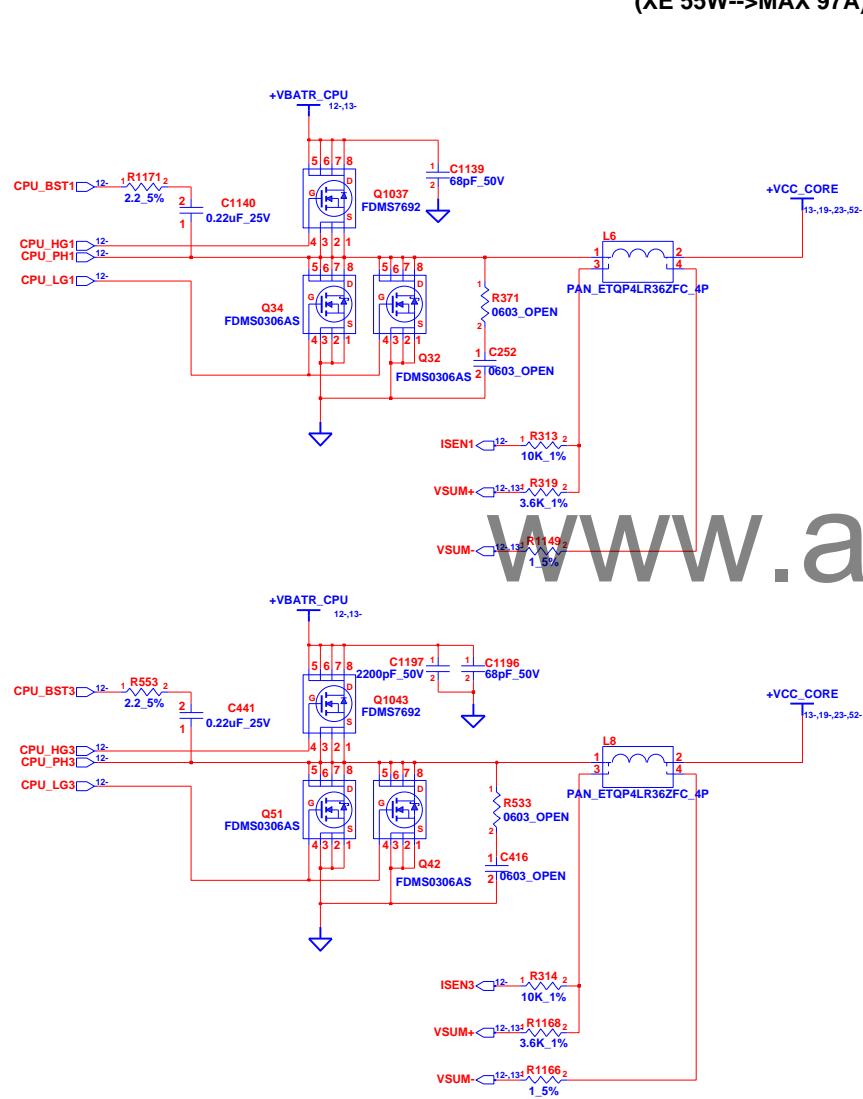


INVENTEC

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SHEET 11		OF 70	

CHANGE by *Shih_Evan* 15-Feb-2011

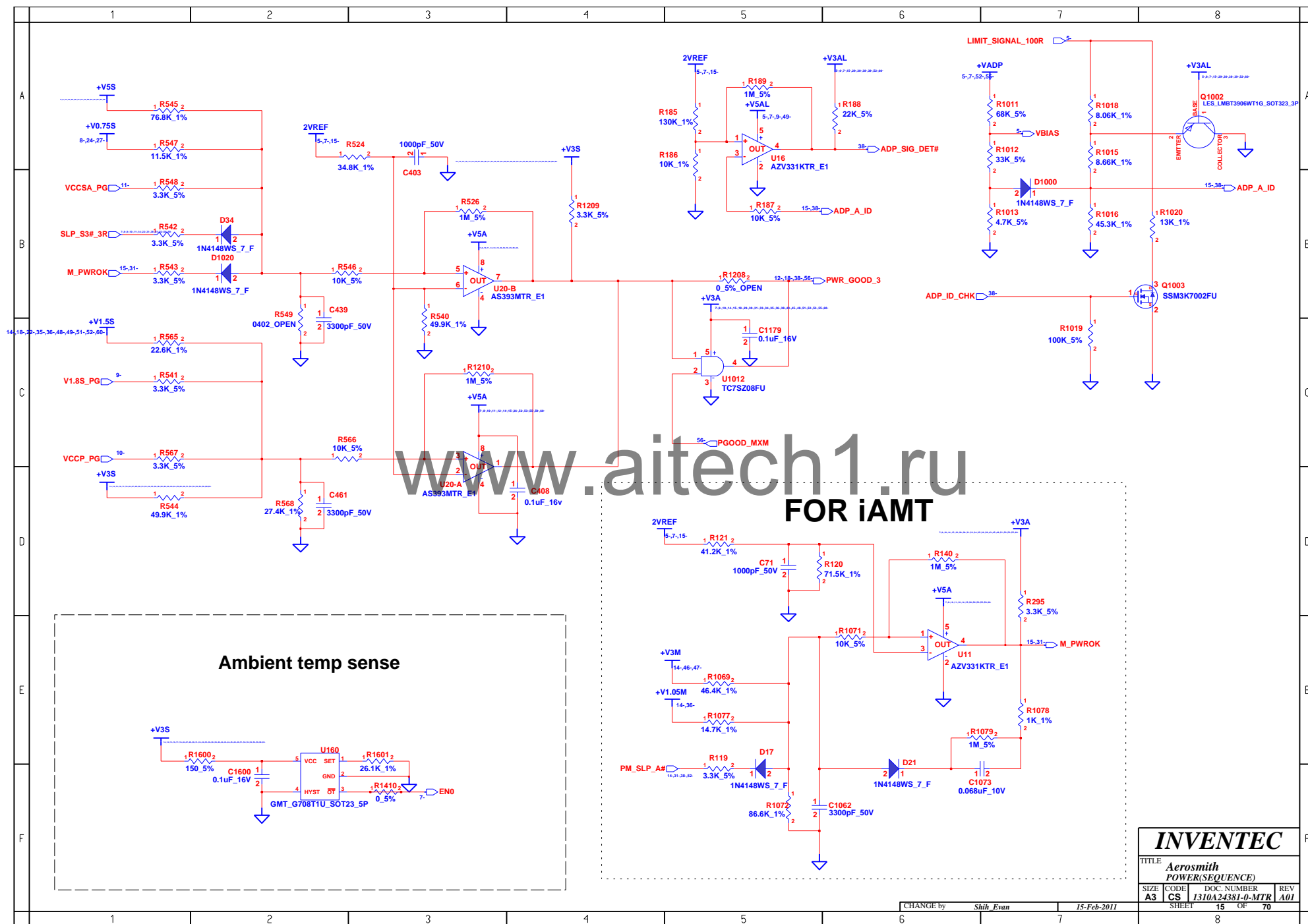
**VCC_CORE (SV 35W-->MAX 53A)
(Quad 45W-->MAX 94A)
(XE 55W-->MAX 97A)**



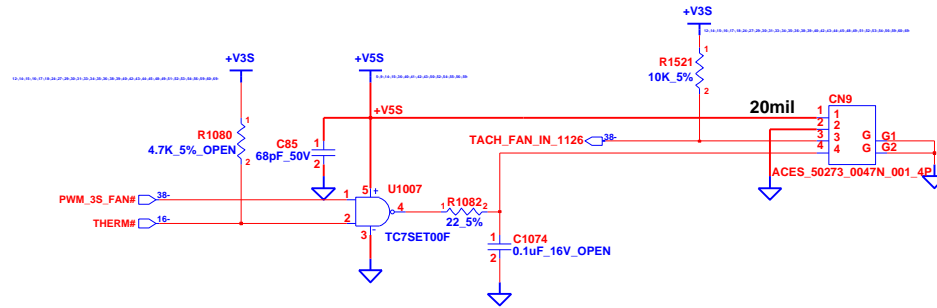
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TITLE			
Aerosmith			
CPU POWER(+VCC_CORE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		13	OF 70

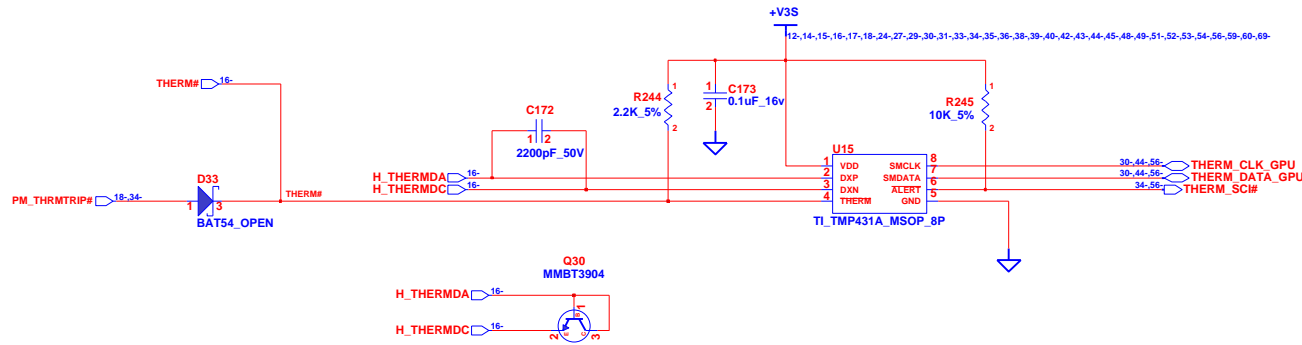
CHANGE by *Shih_Evan* 15-Feb-2011



FAN



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THERMAL SENSOR



INVENTEC

TITLE			
Aerosmith			
THERMAL & FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		16	OF 70

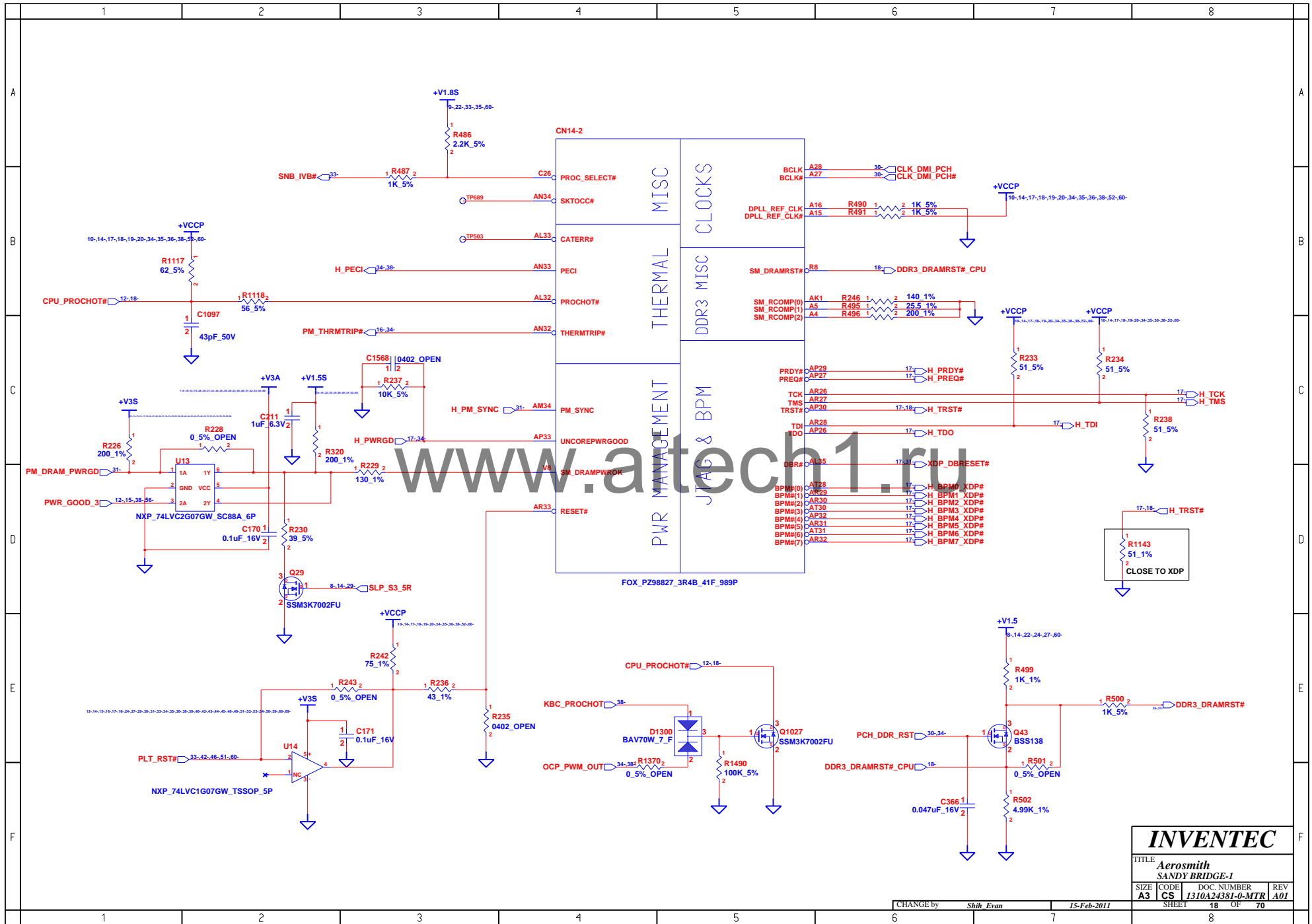
CHANGE by *Shih_Evan* 15-Feb-2011



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TITLE			
Aerosmith XDP CONNECTOR			
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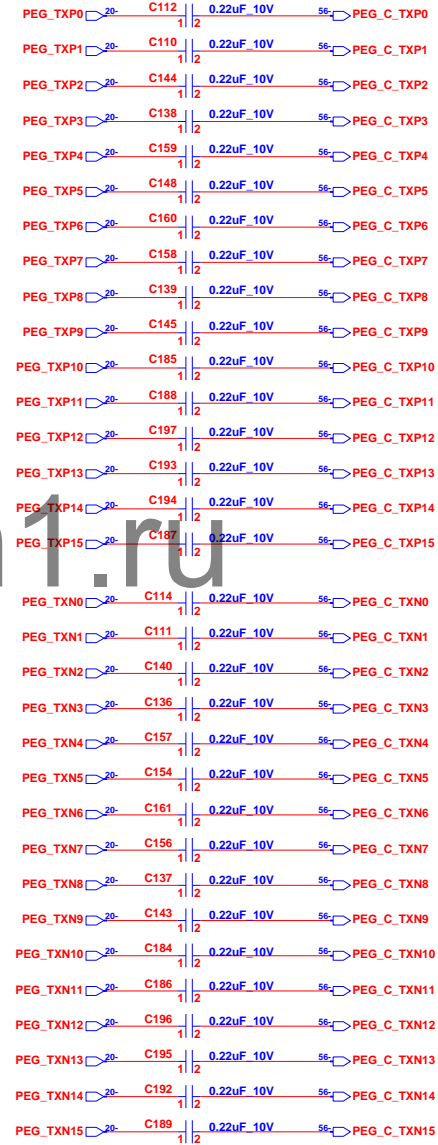
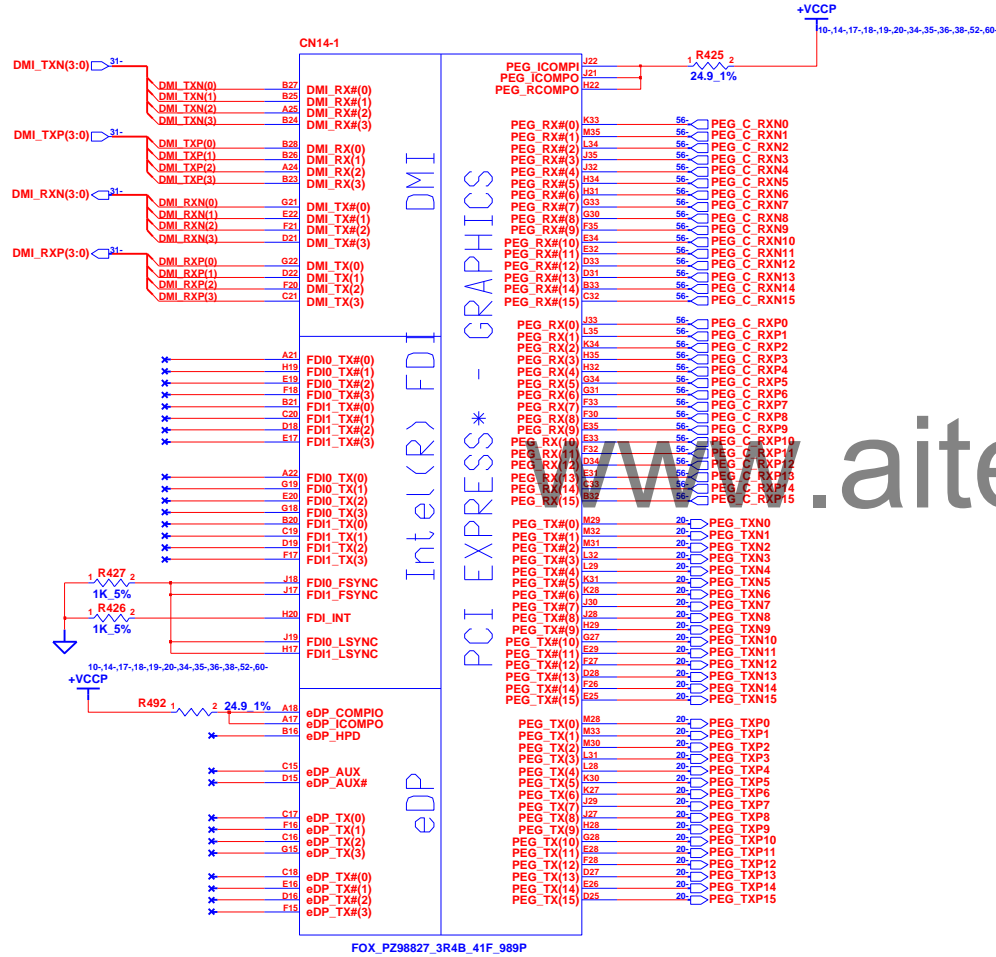


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SHEET 18		OF 70	

CHANGE by *Shih_Evan* 15-Feb-2011

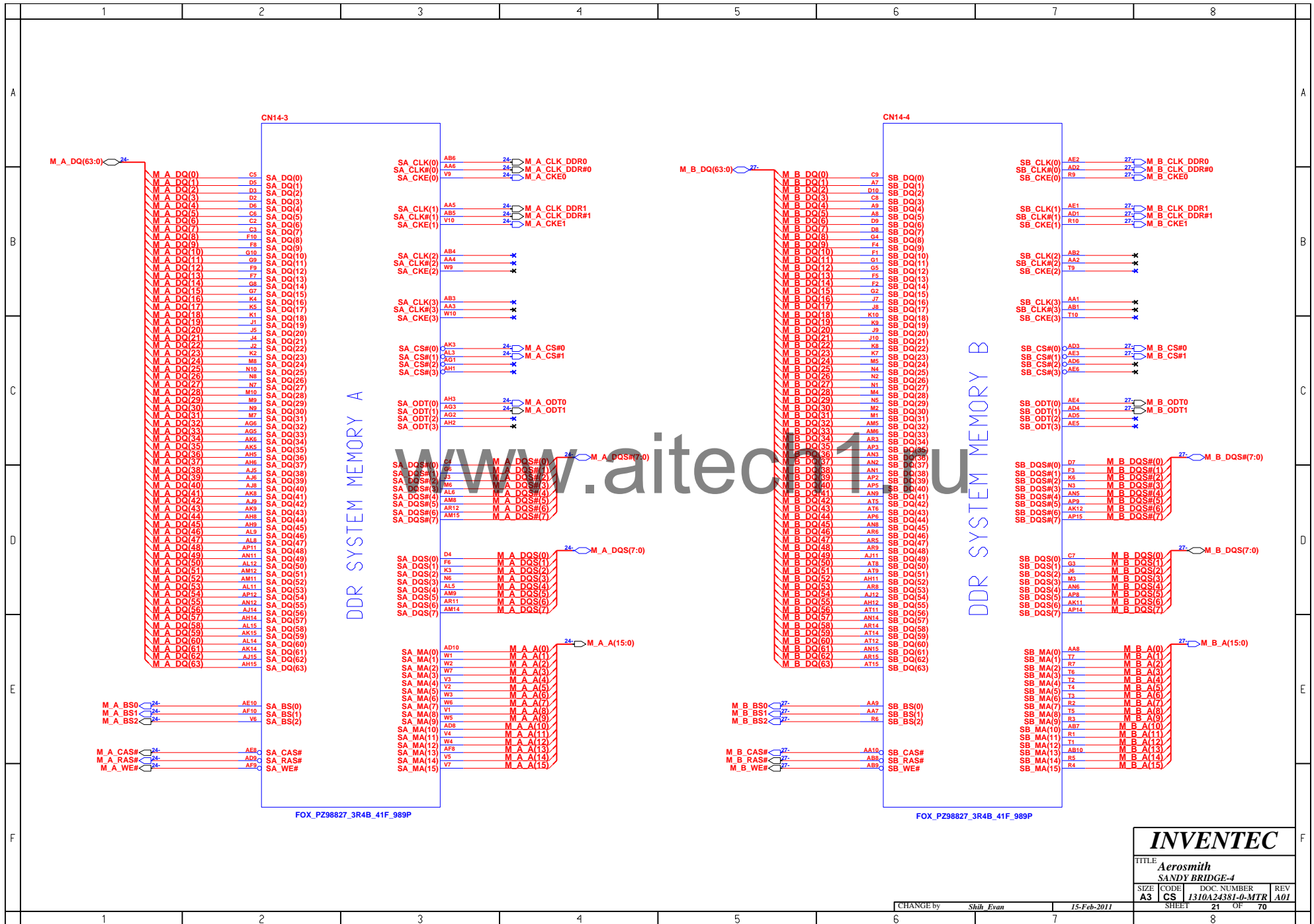
CLOSED TO CPU



INVENTEC

TITLE Aerosmith SANDY BRIDGE-3			
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SHEET 20		OF 70	

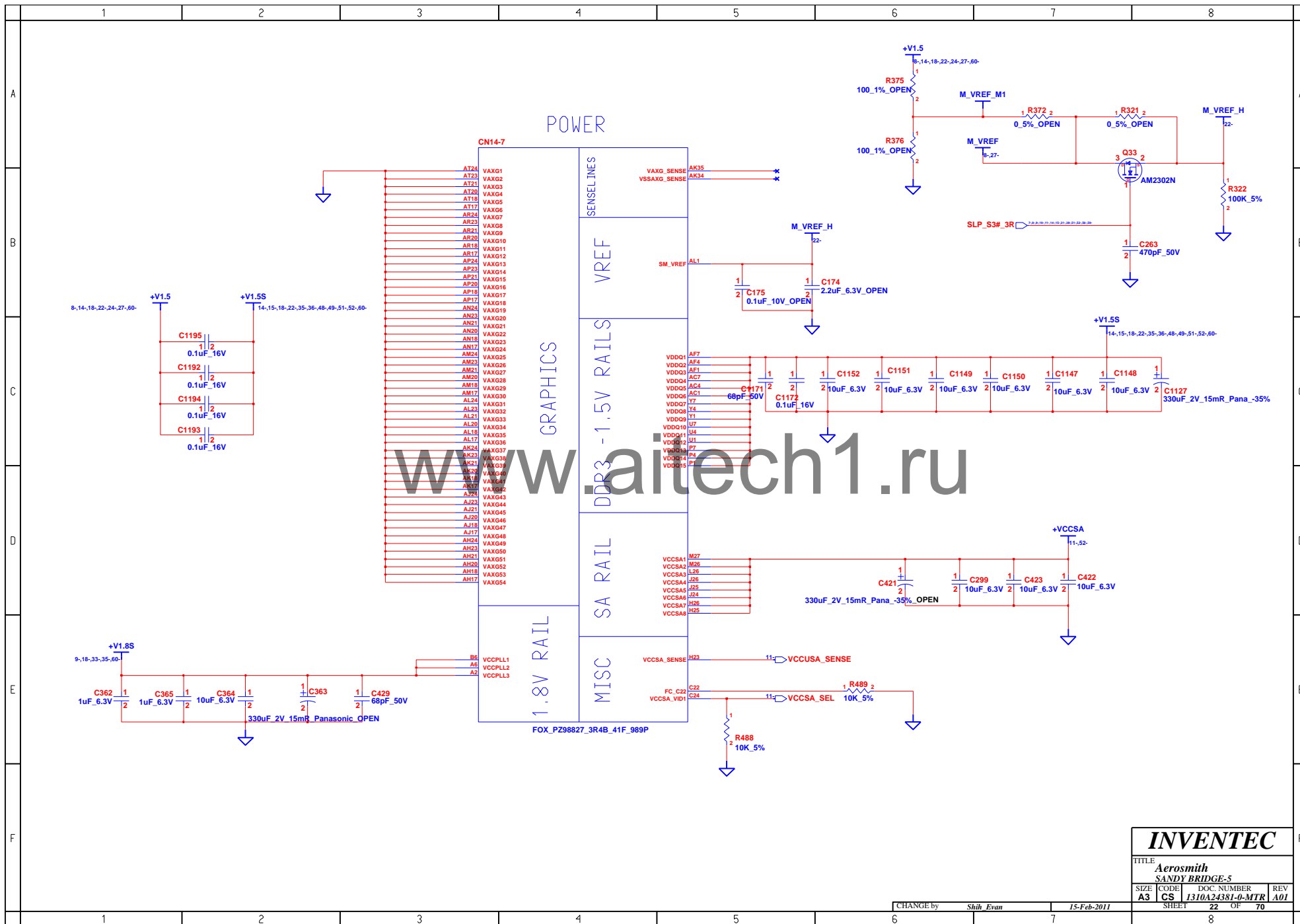
CHANGE by Shih_Evan 15-Feb-2011



INVENTEC

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SHEET 21		OF 70	

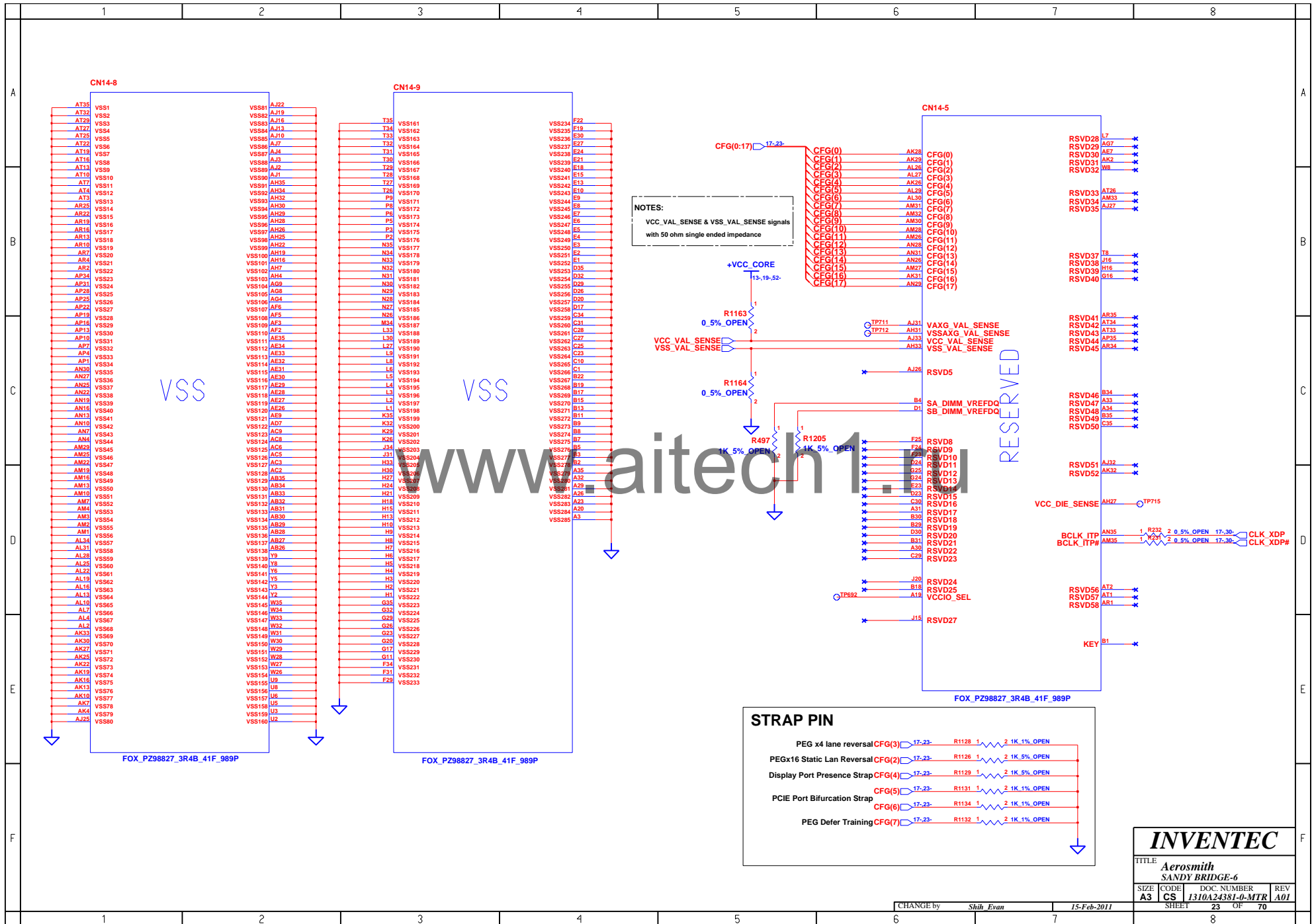
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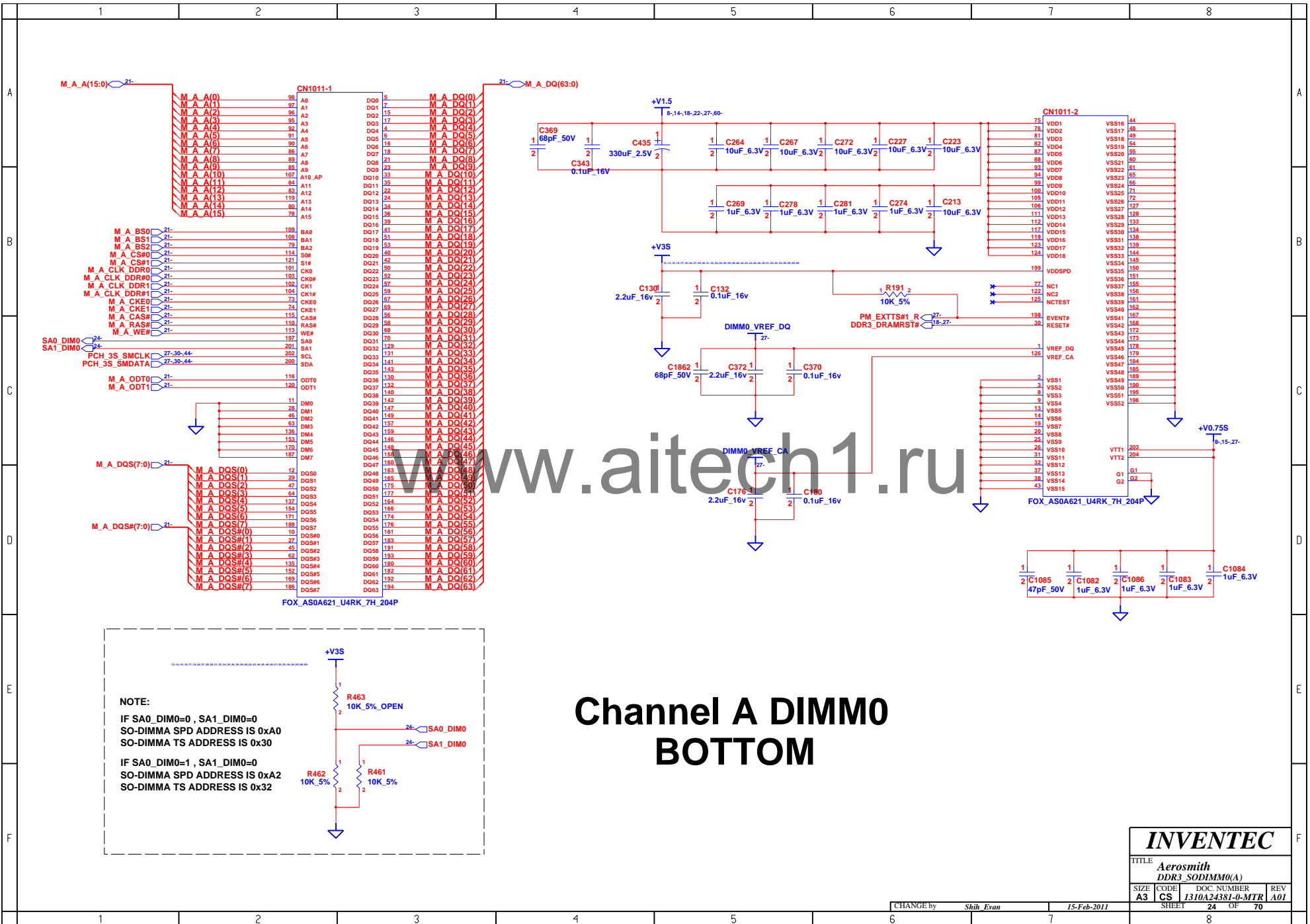


INVENTEC

TITLE			
Aerosmith			
SANDY BRIDGE-5			
SIZE	CODE	DOC. NUMBER	REV
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SHEET		22	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011





Channel A DIMM0 BOTTOM

INVENTEC

TITLE Aerosmith DDR3_SODIMM0(A)			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
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CHANGE by *Shih_Evan* 15-Feb-2011

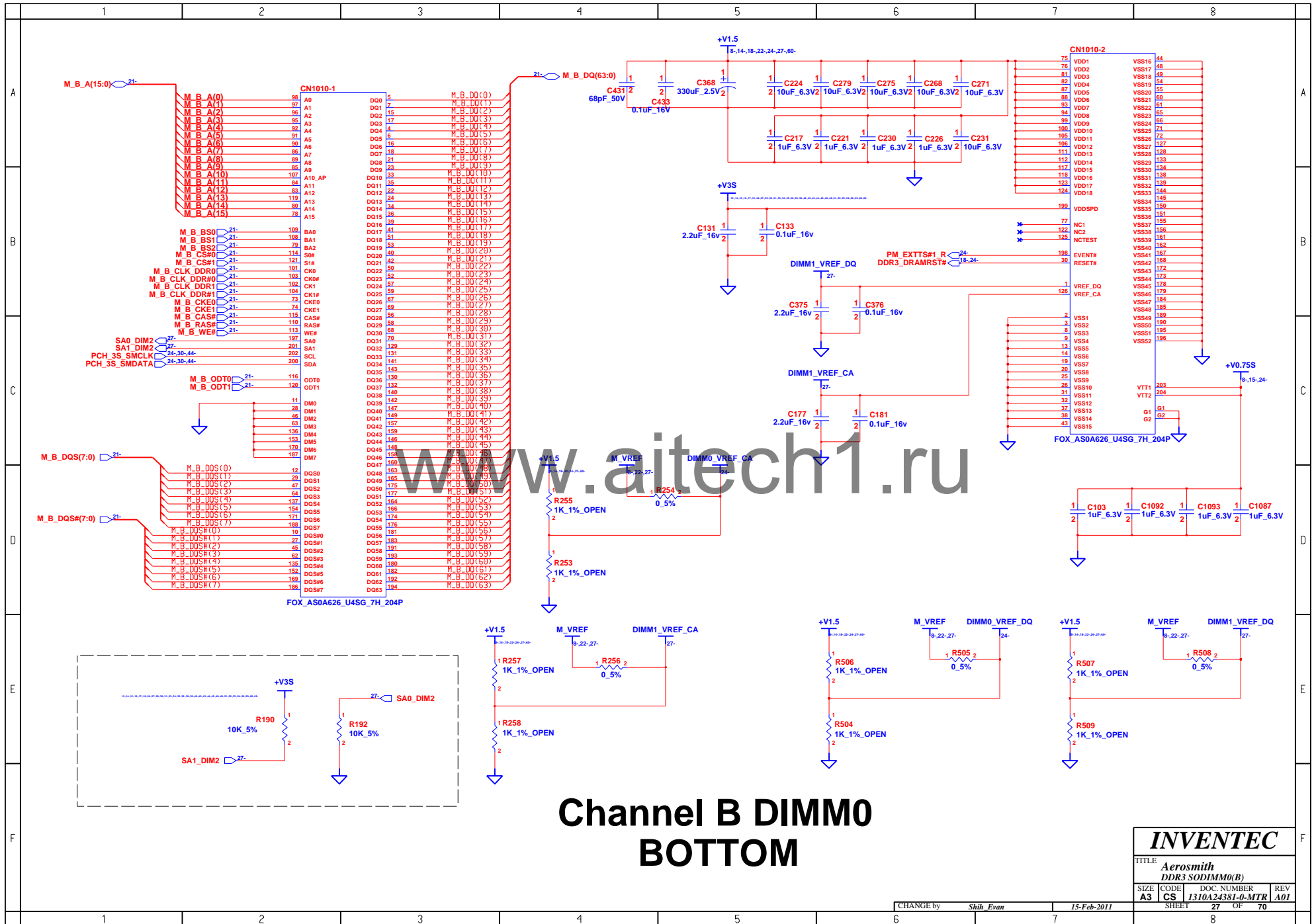
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B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Shih_Evan</i>		<i>15-Feb-2011</i>	
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INVENTEC			
TITLE <i>Aerosmith</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>1310A24381-0-MTR</i>	<i>A01</i>
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A	<div>www.aitech1.ru</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Aerosmith			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by Shih_Evan		15-Feb-2011	
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Channel B DIMM0 BOTTOM

INVENTEC

TITLE Aerosmith DDR3 SODIMM0(B)			
SIZE A3	CODE CS	DOC NUMBER 1310A24381-0-MTR	REV A01
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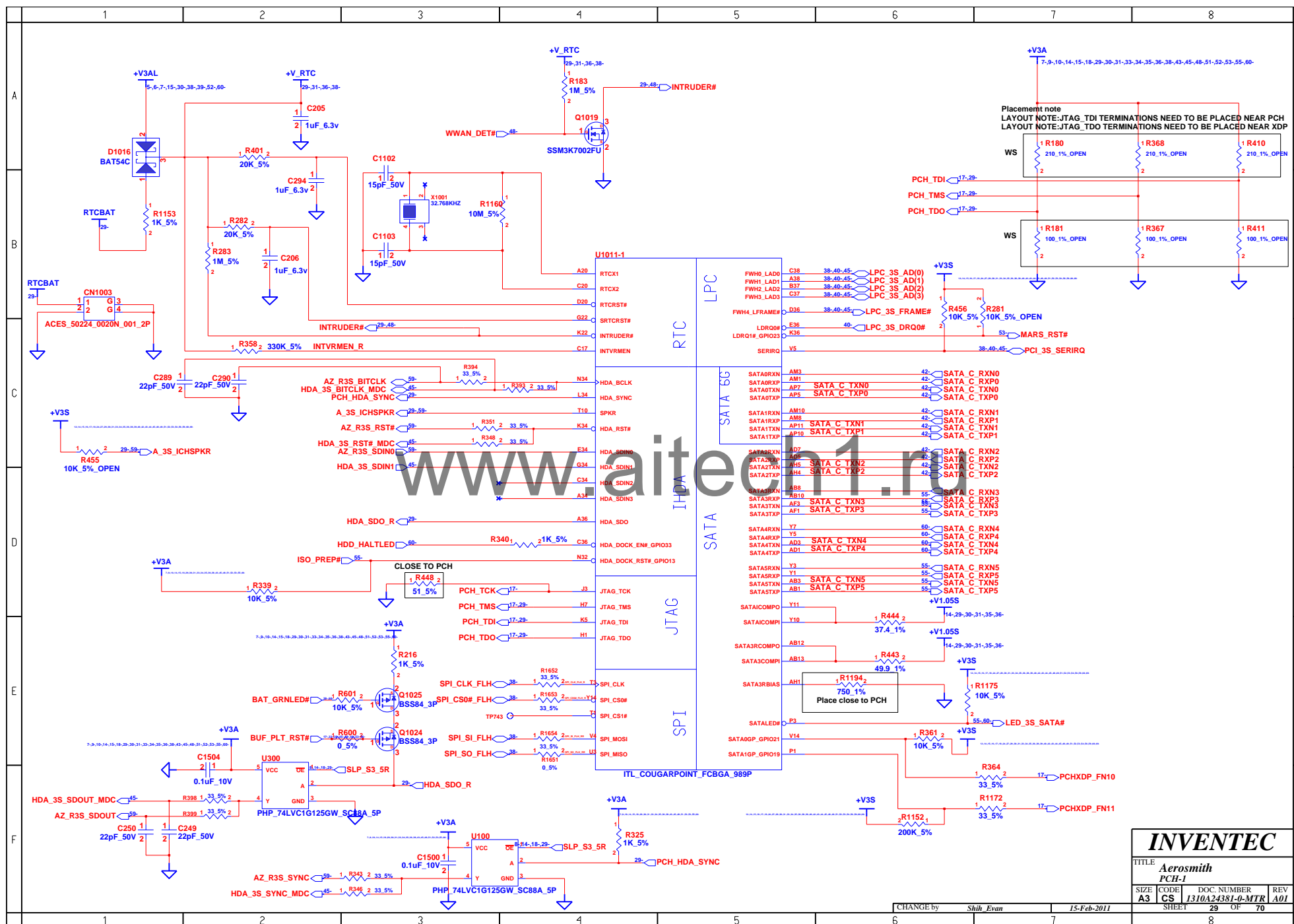
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B									B
C									C
D									D
E									E
F									F
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BLANK

INVENTEC			
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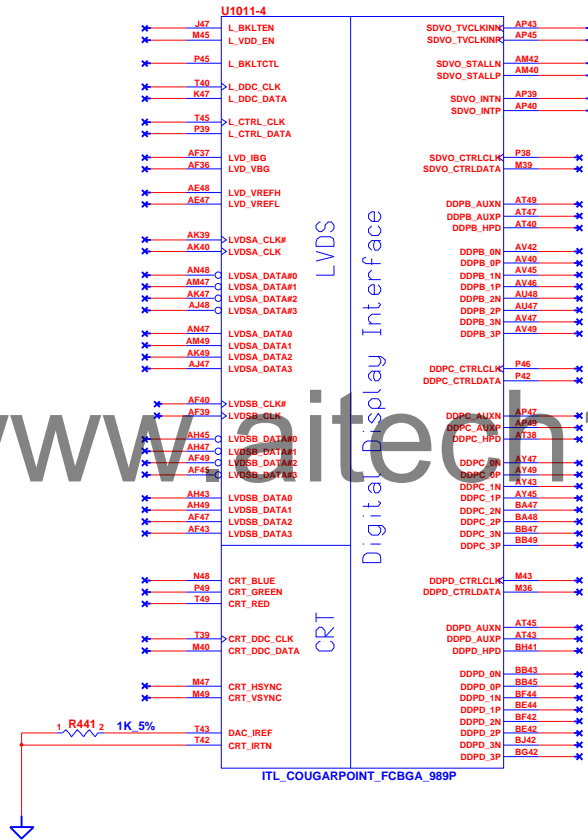


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SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	R A
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CHANGE by	<i>Shih, Evan</i>	<i>15-Feb-2011</i>
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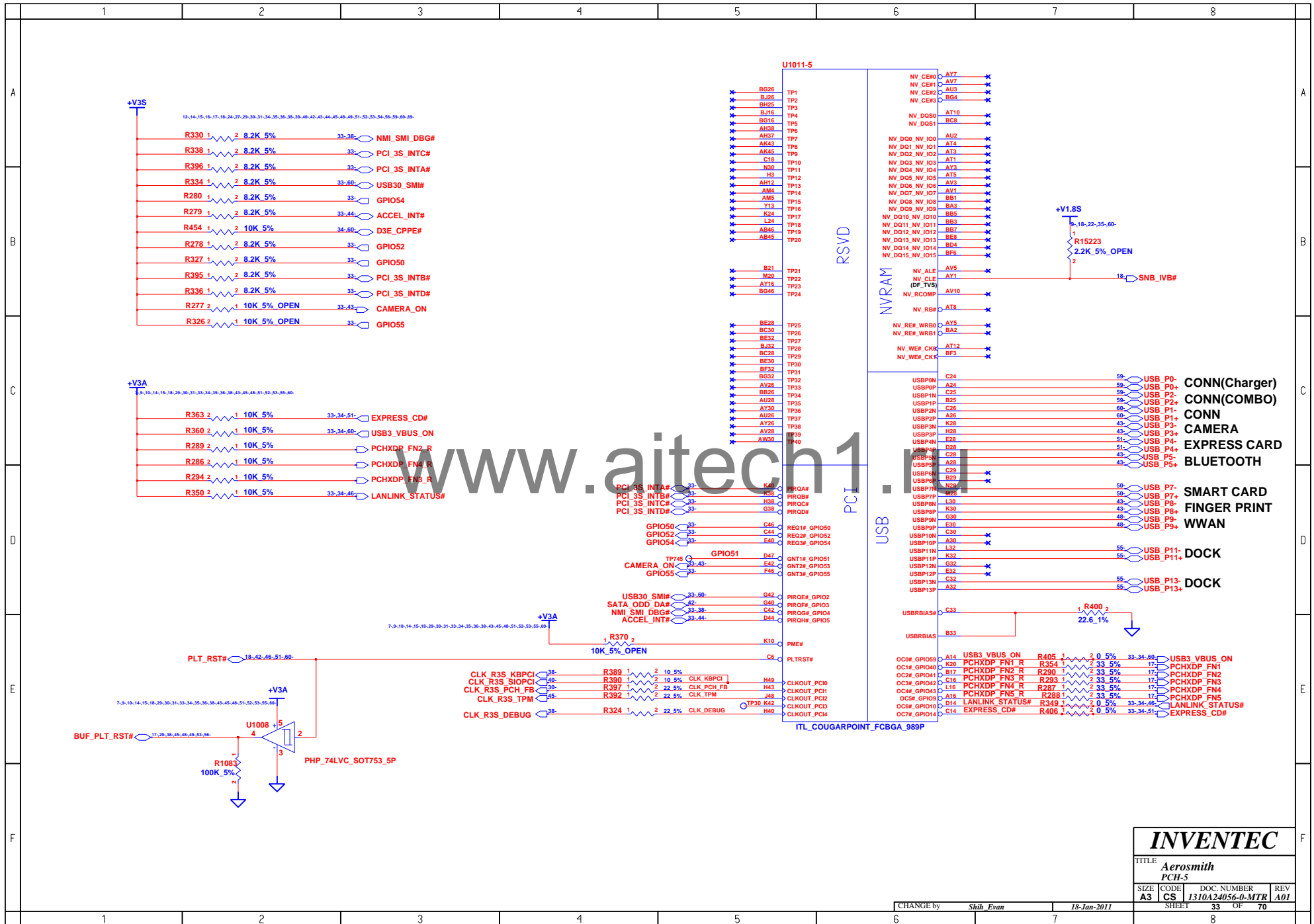
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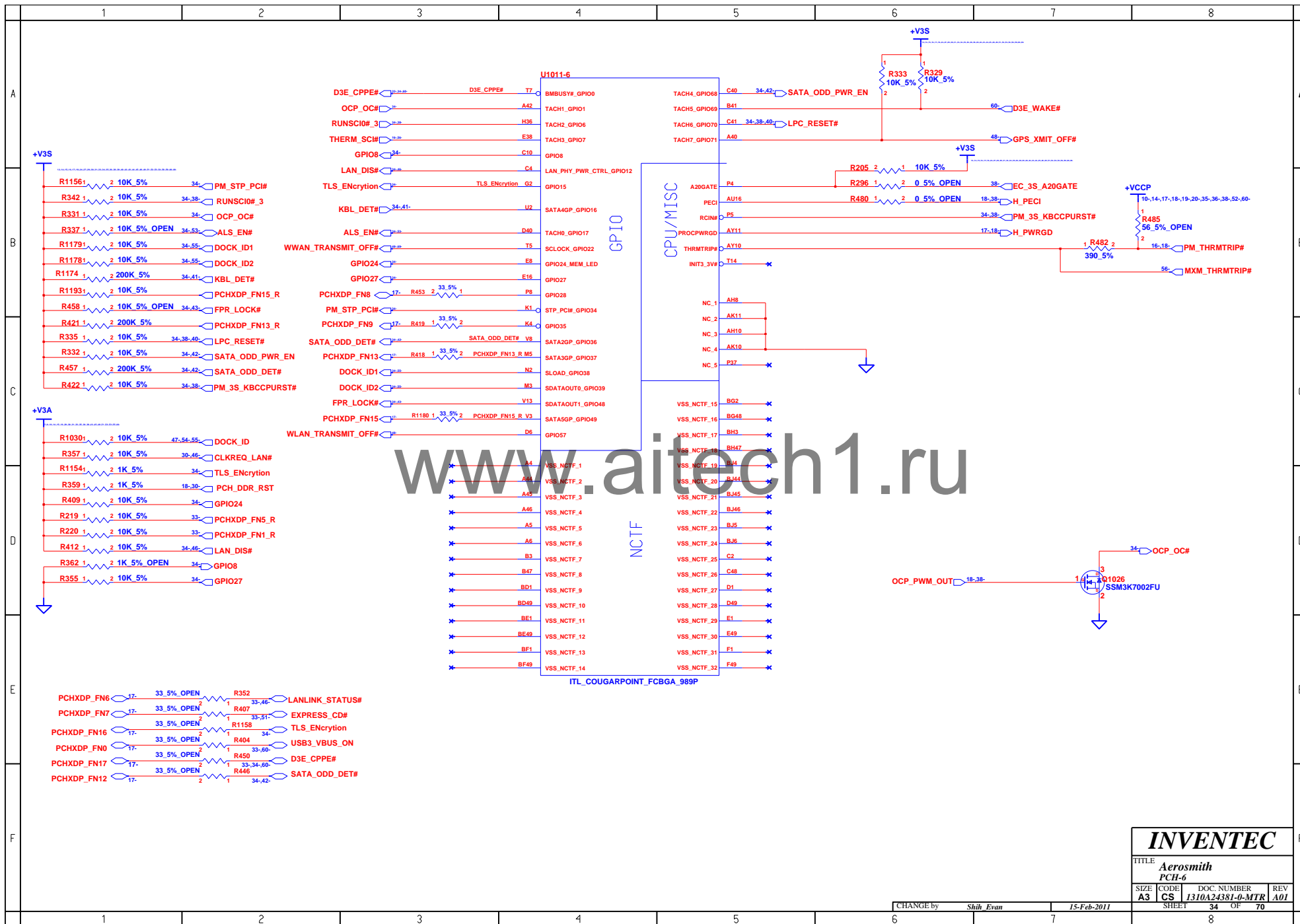


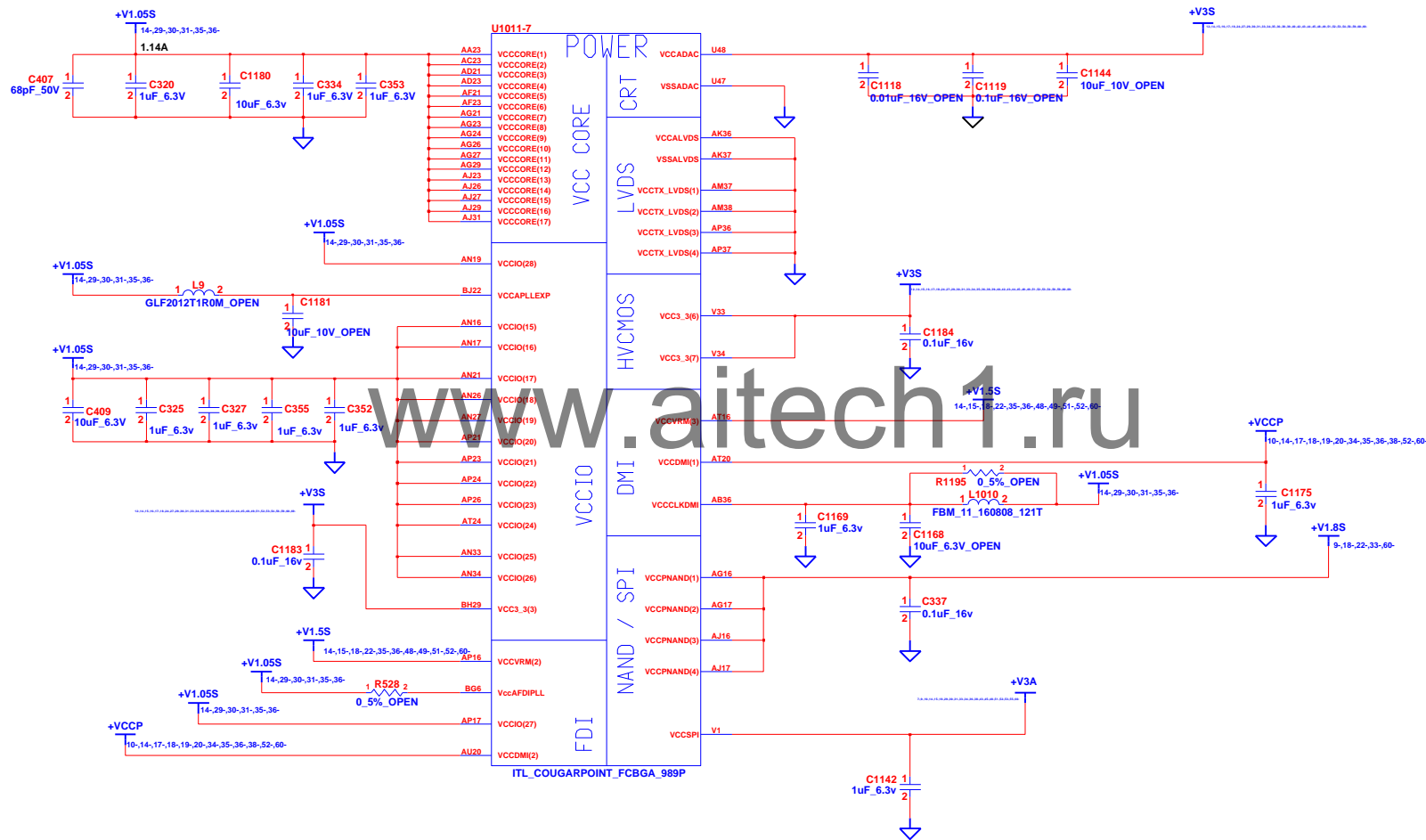
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TITLE			
Aerosmith			
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CHANGE by Shih_Evan 15-Feb-2011



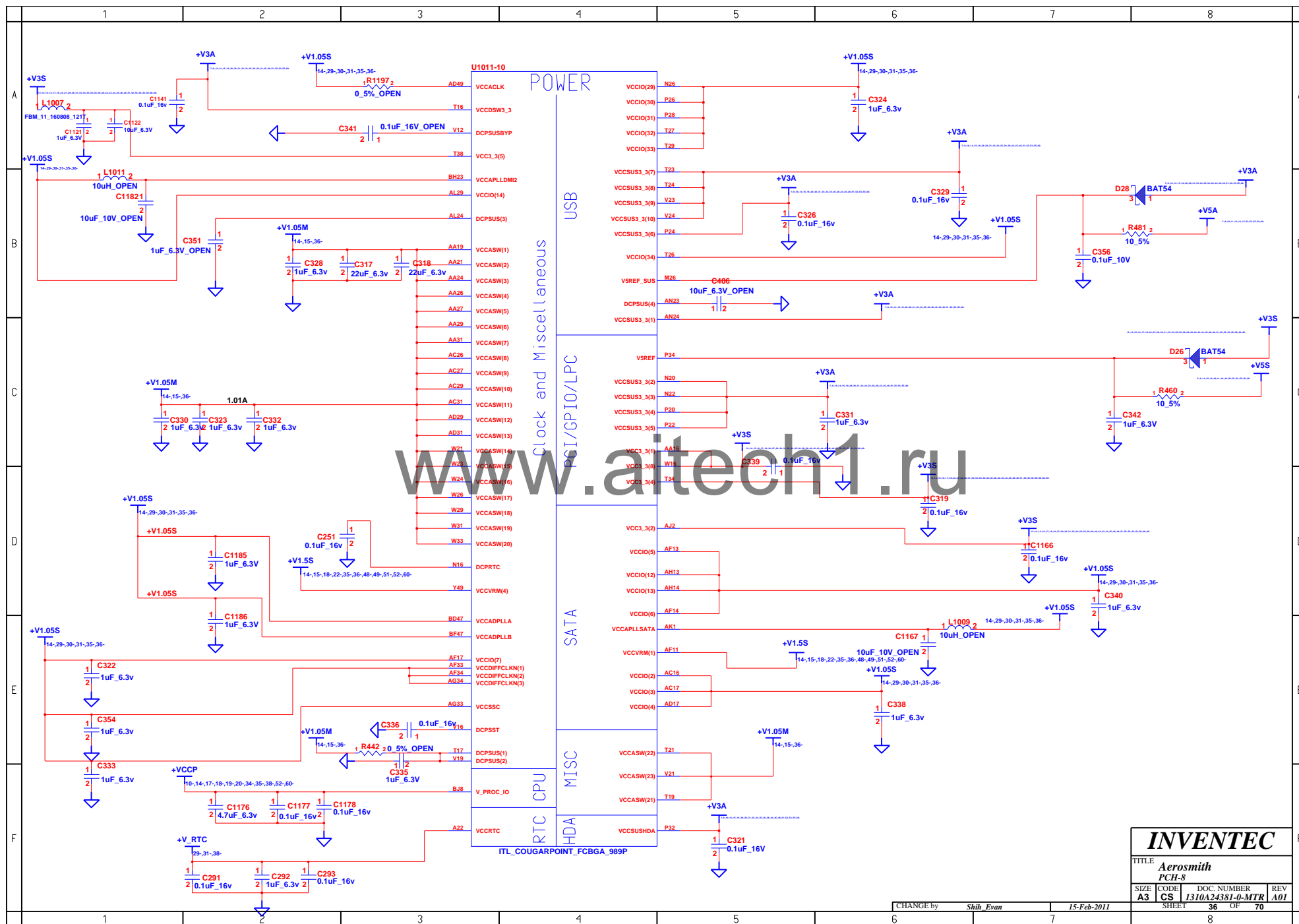


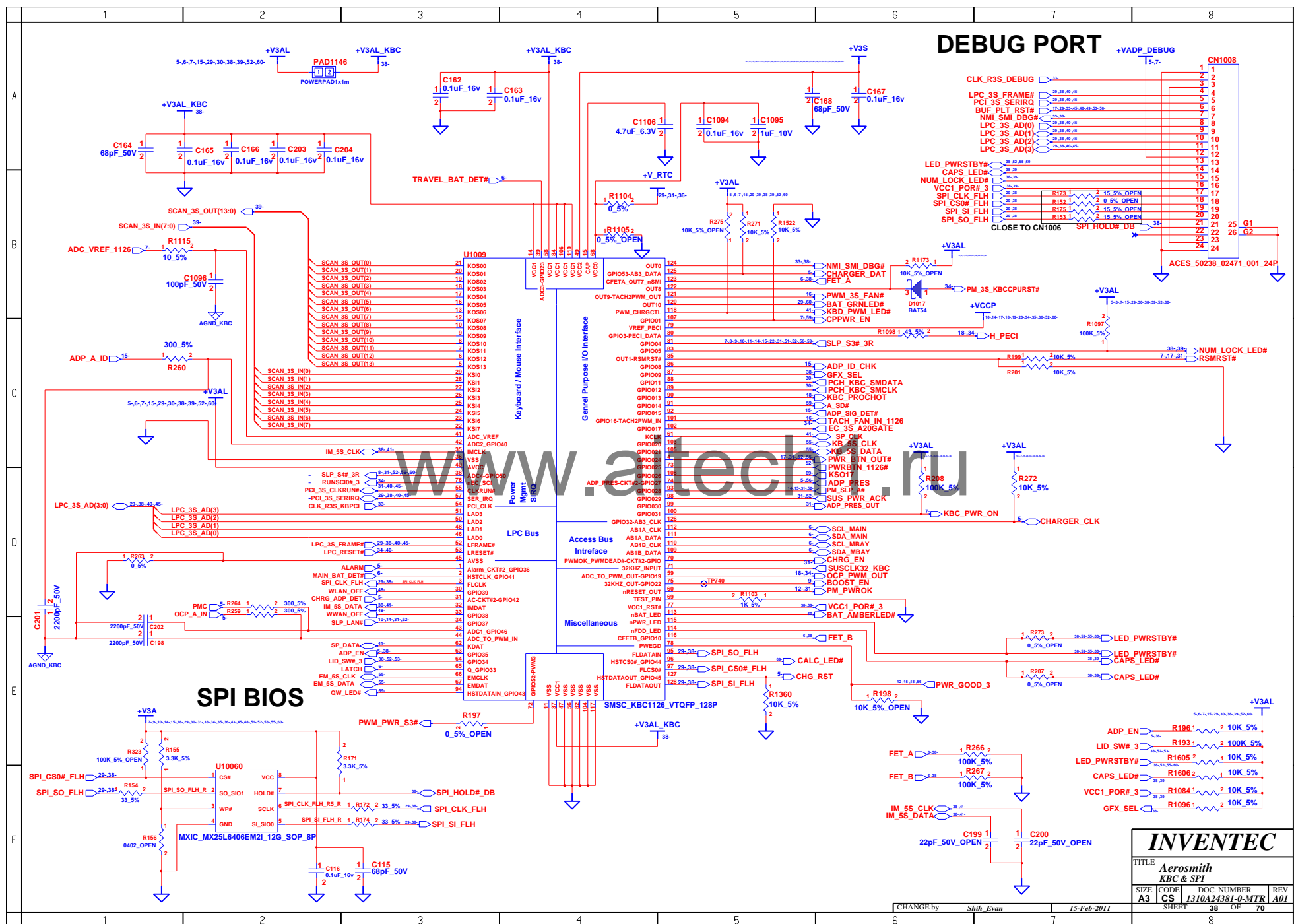


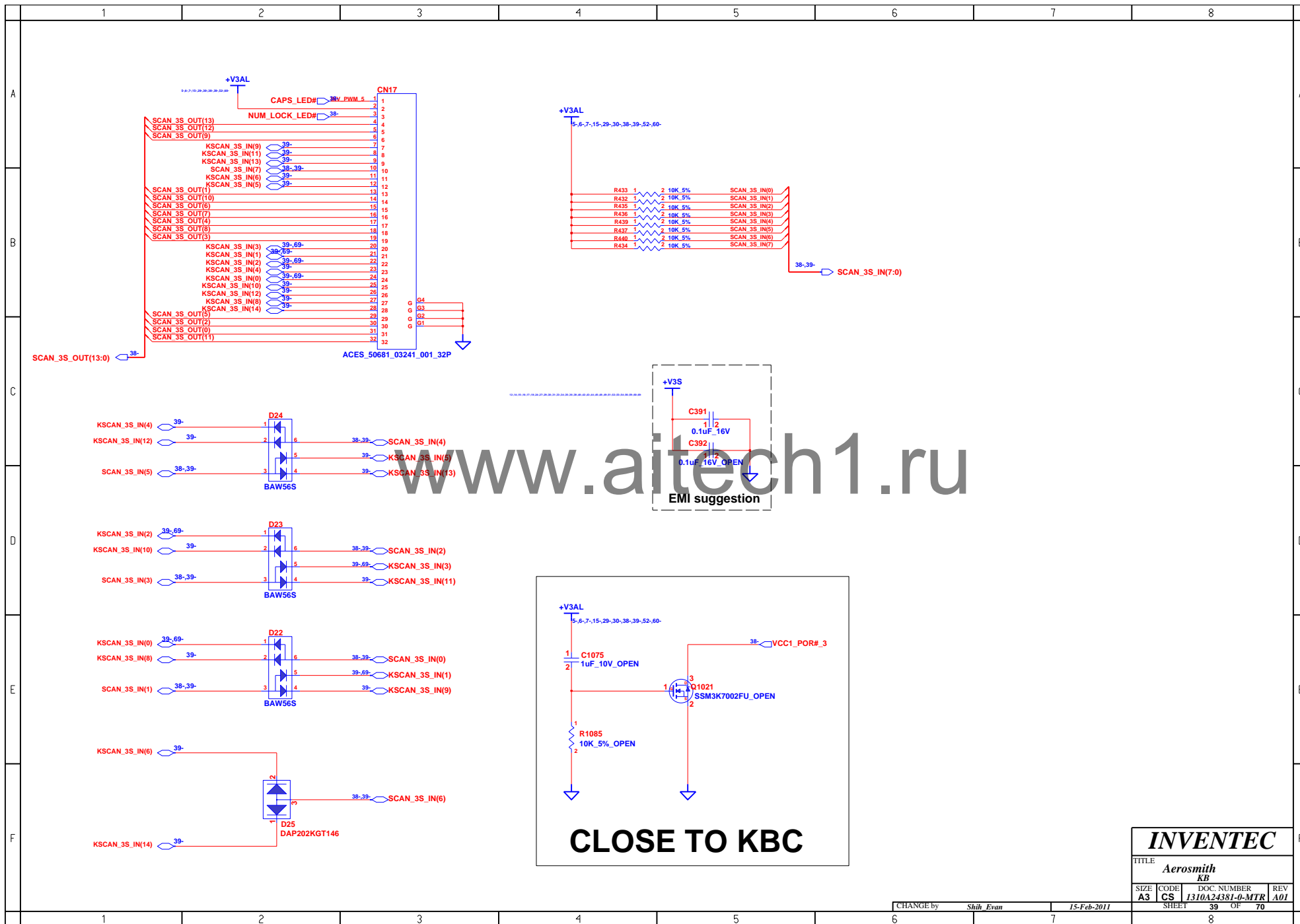
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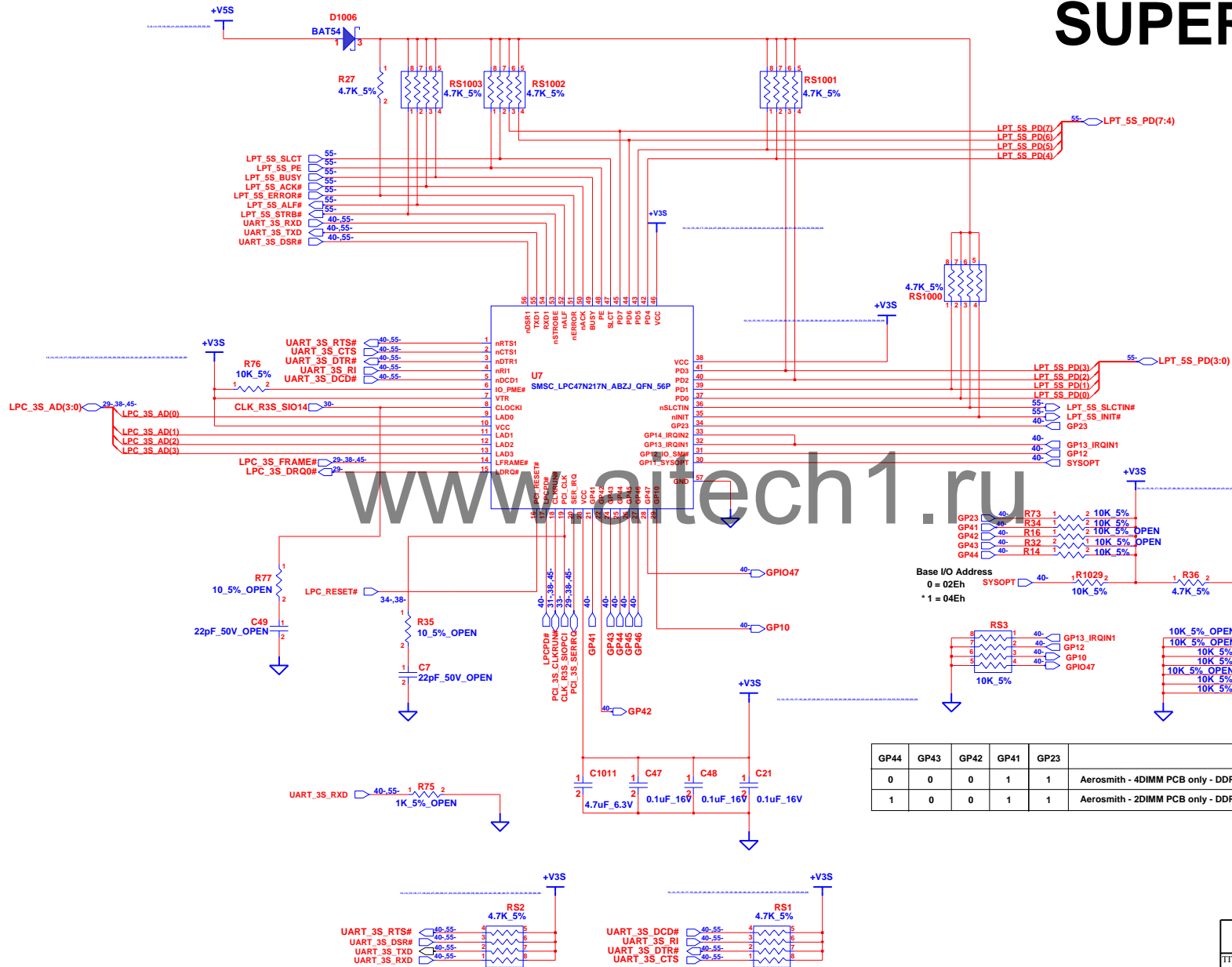
CHANGE by *Shih_Evan* 15-Feb-2011







SUPER I/O



GP44	GP43	GP42	GP41	GP23	
0	0	0	1	1	Aerosmith - 4DIMM PCB only - DDR3 - 1333MHz maximum
1	0	0	1	1	Aerosmith - 2DIMM PCB only - DDR3 - 1600MHz maximum

INVENTEC

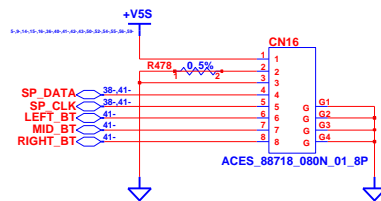
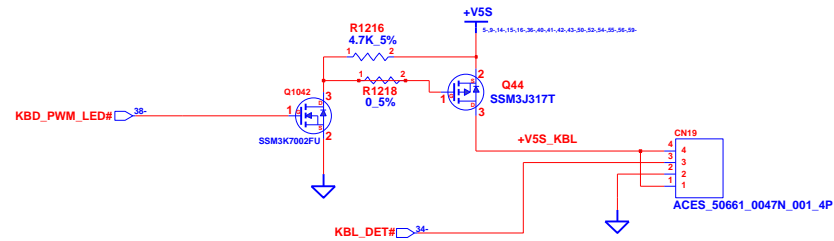
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Aerosmith
SUPER I/O

SIZE CODE DOC. NUMBER REV
A3 CS 1310A24381-0-MTR A01

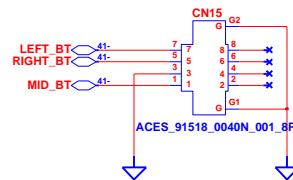
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SHEET 40 OF 70

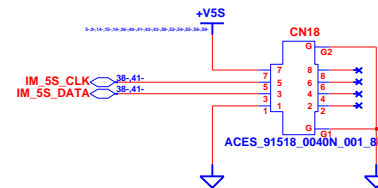
KEYBOARD_LIGHT_CNTR



STICK POINT



TOUCH PAD

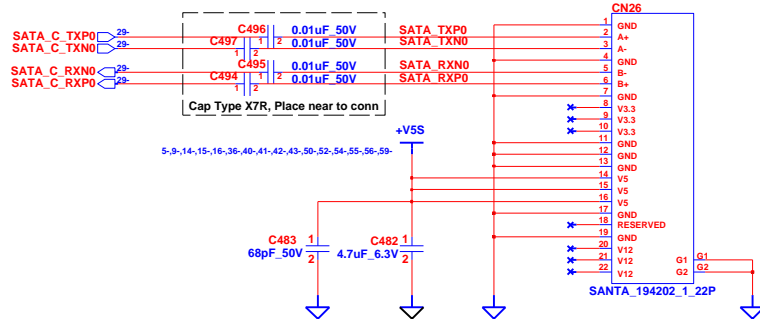


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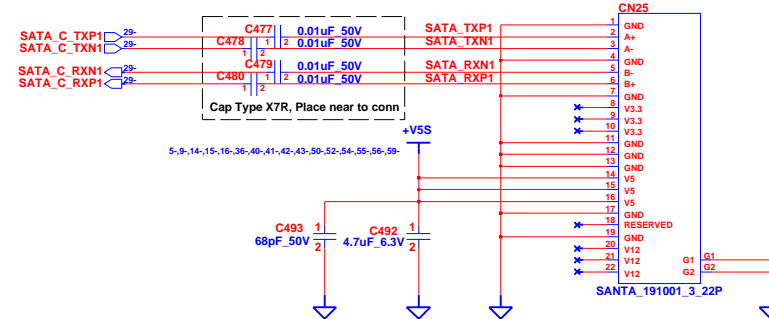
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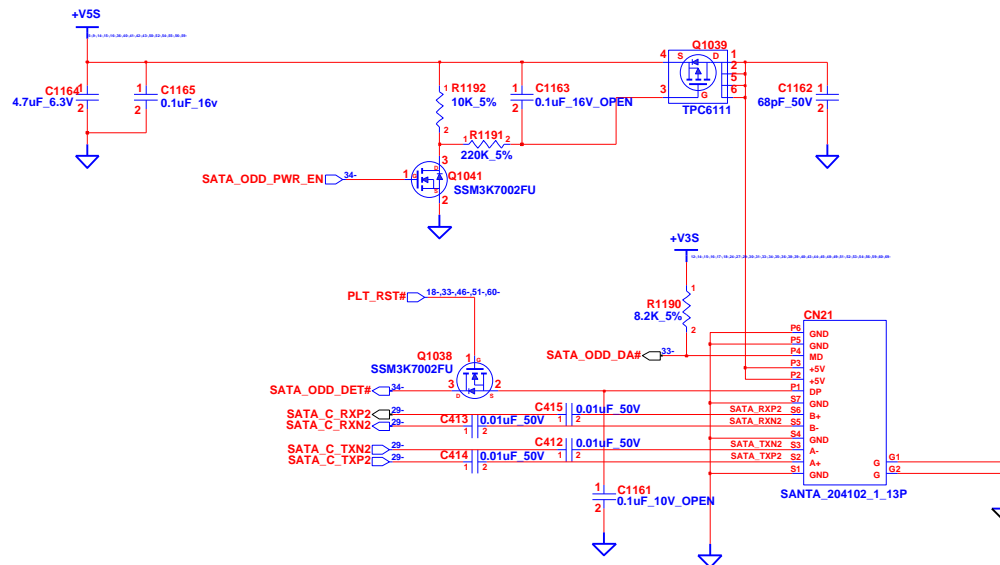
SATA HDD 0



SATA HDD 1



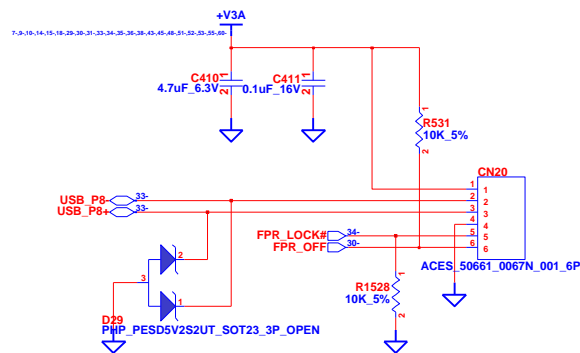
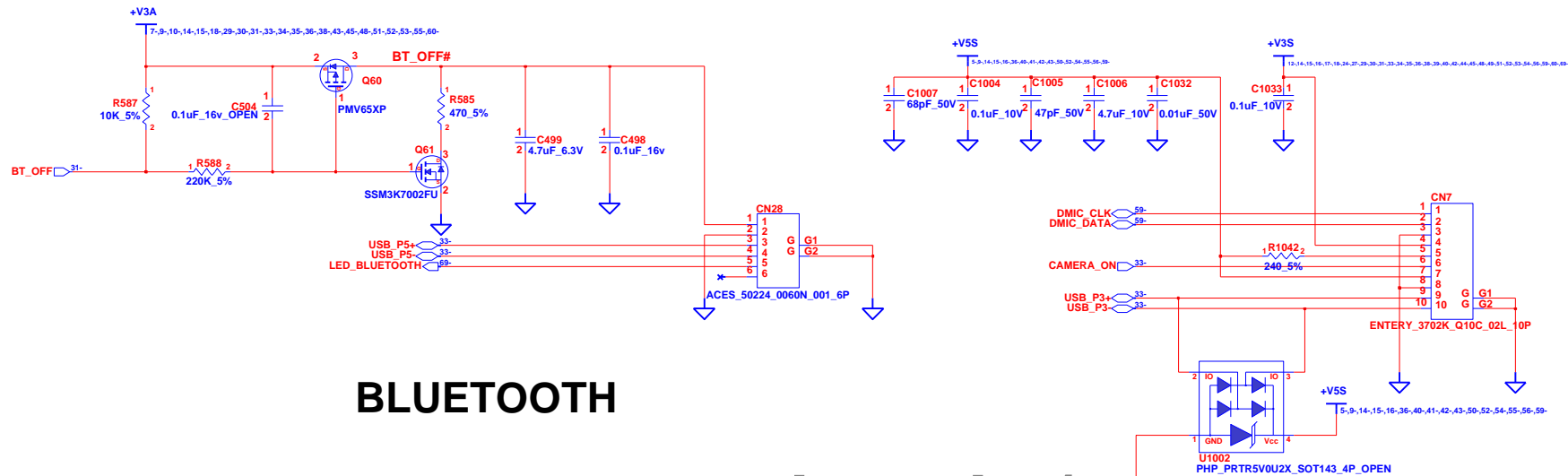
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INVENTEC

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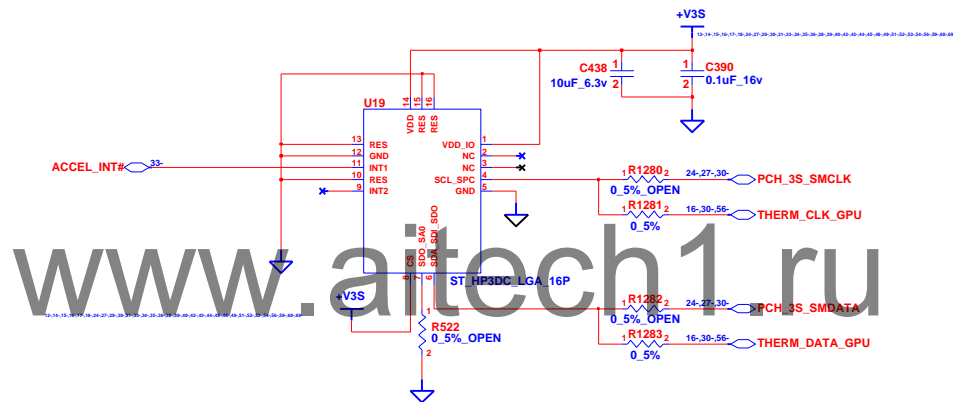
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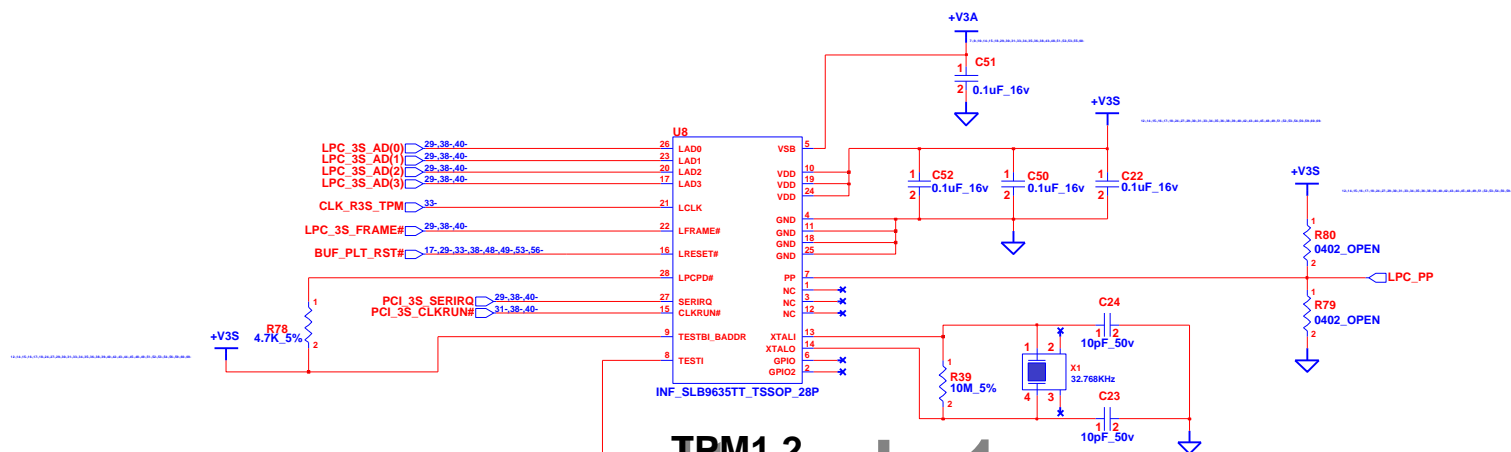
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CHANGE by *Shih_Evan* 15-Feb-2011

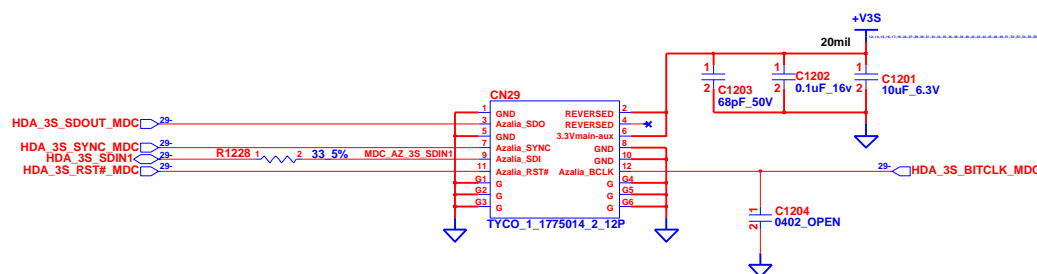


ACCELEROMETER

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SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by Shih_Evan		15-Feb-2011	
SHEET 44		OF 70	



TPM1.2



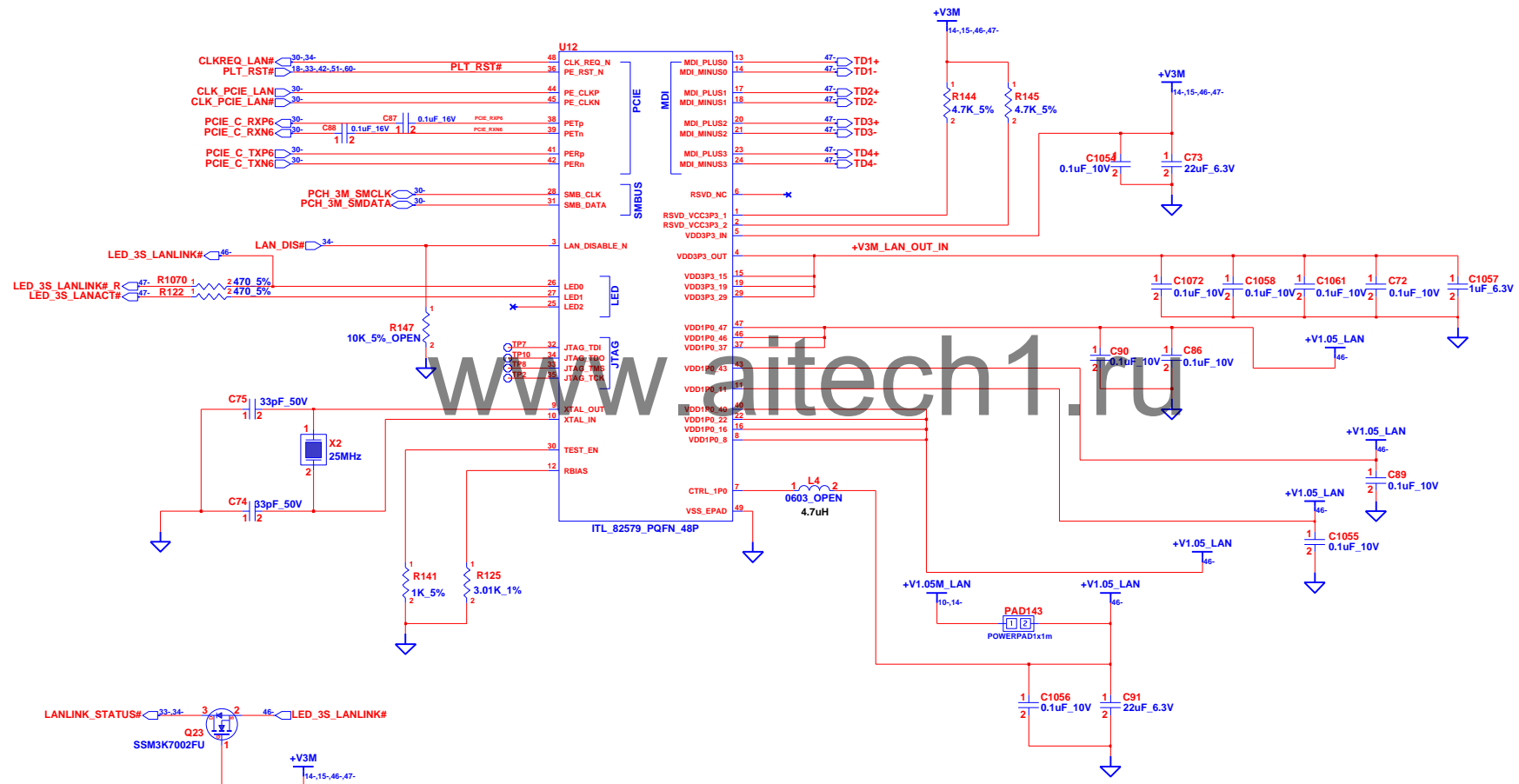
MDC CONN

INVENTEC

TITLE			
Aerosmith			
TPM & MDC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		45	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011

LAN PHY

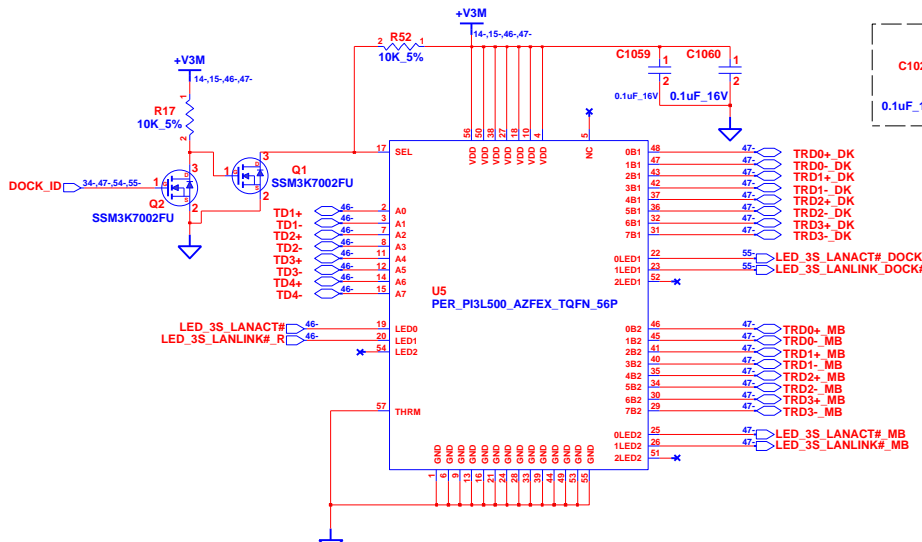
***INVENTEC***

TITLE	<i>Aerosmith</i> <i>LAN INTERFACE</i>
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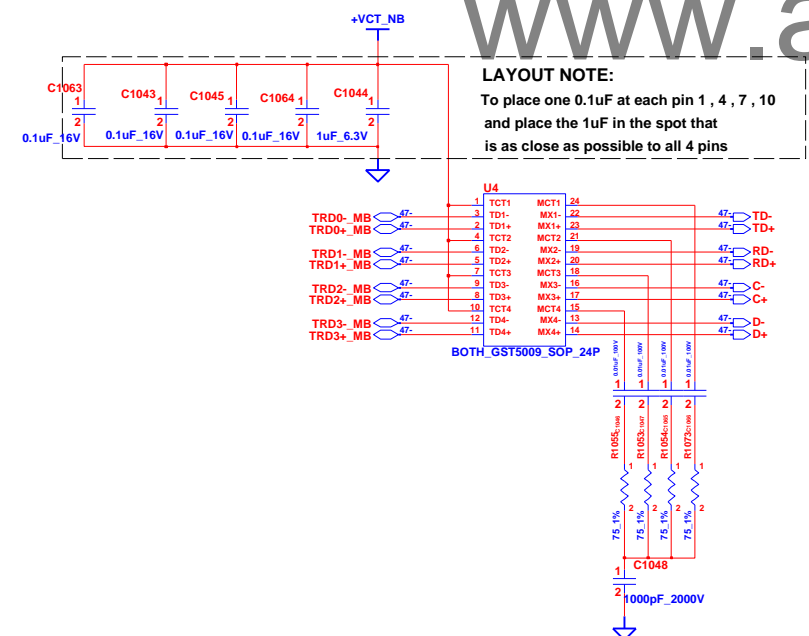
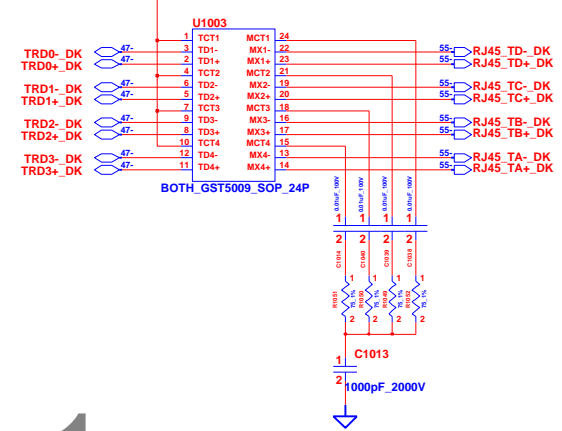
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
SHEET 46 OF 70			

CHANGE by	<i>Shih Evan</i>	<i>15-Feb-2011</i>
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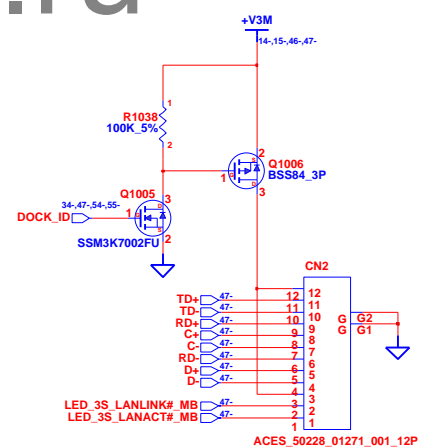
8



LAYOUT NOTE:
To place one 0.1uF at each pin 1 , 4 , 7 , 10
and place the 1uF in the spot that
is as close as possible to all 4 pins



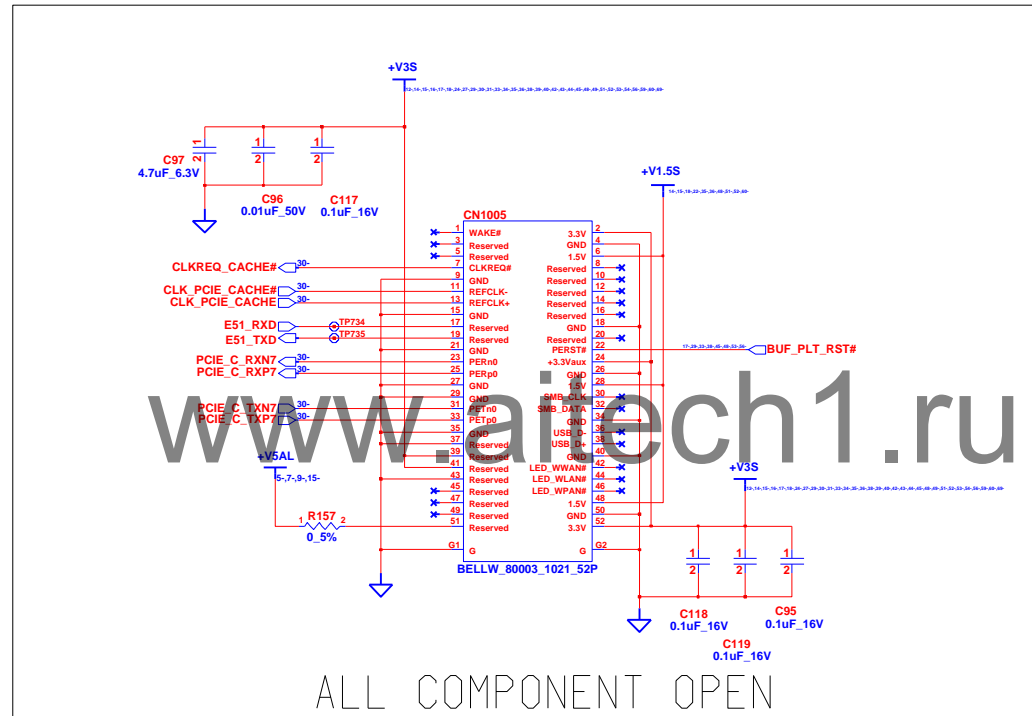
LAYOUT NOTE:
To place one 0.1uF at each pin 1 , 4 , 7 , 10
and place the 1uF in the spot that
is as close as possible to all 4 pins



RJ45 CNTR

INVENTEC			
TITLE Aerosmith LAN RJ45 CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by Shih_Evan		15-Feb-2011	
SHEET 47		OF 70	

Flash Cache--Mini Card

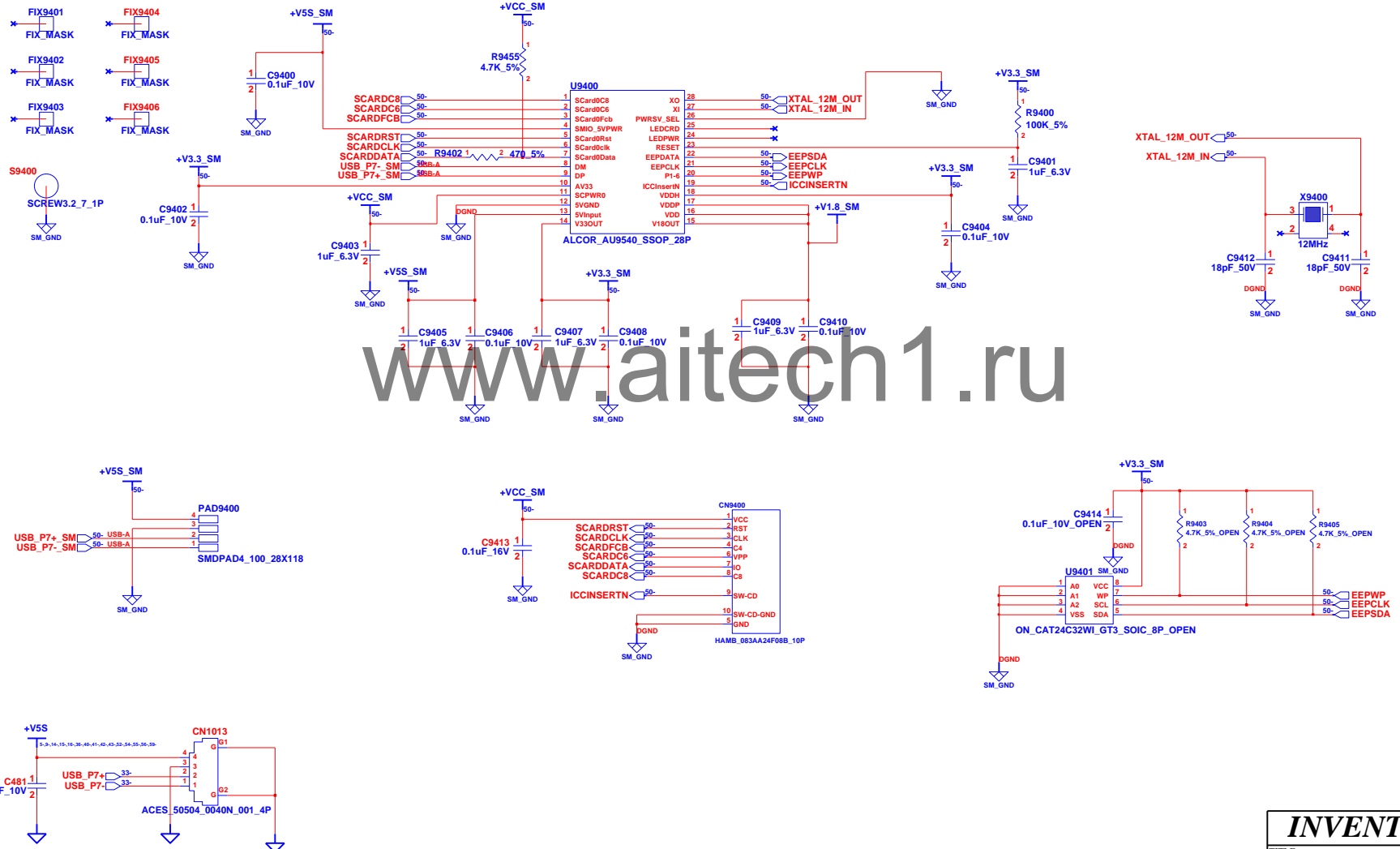


INVENTEC

TITLE			
Aerosmith FLASH CACHE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		49	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011

Smart Card Board

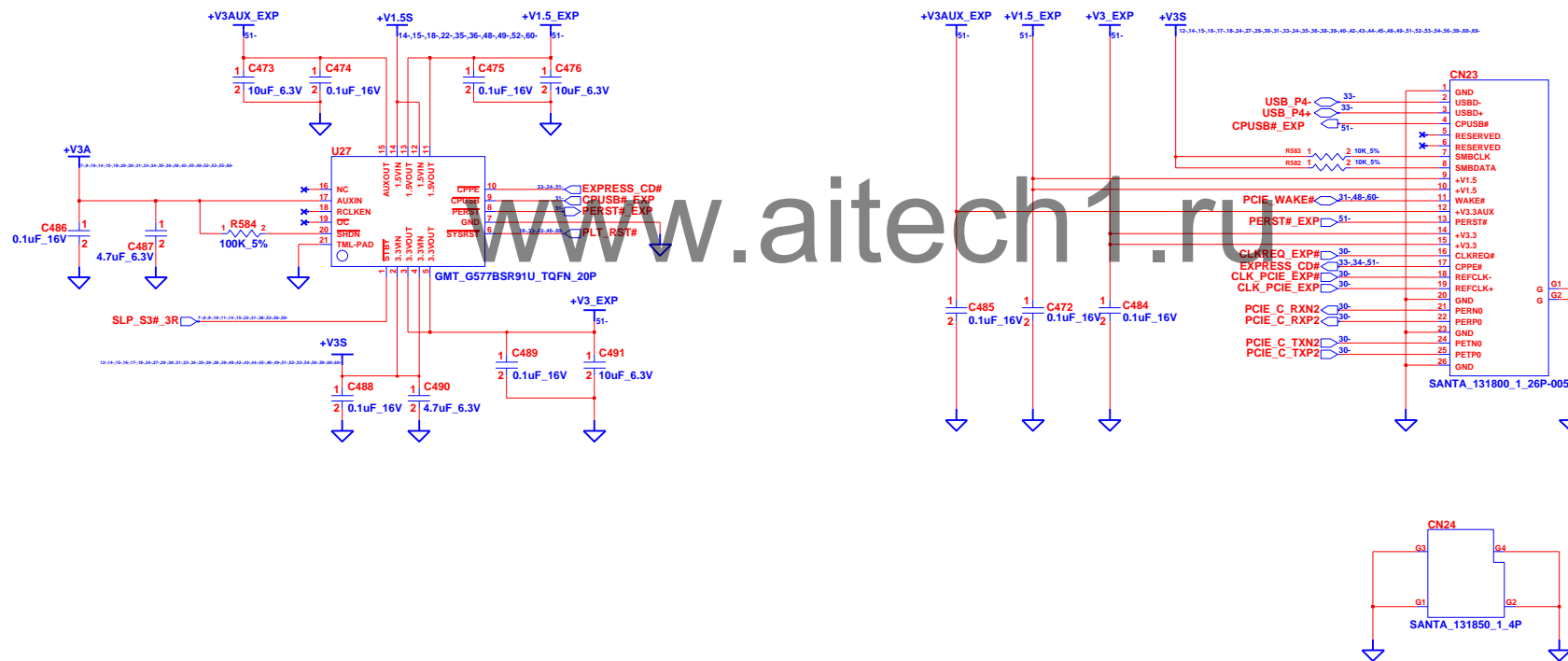


INVENTEC

TITLE			
Aerosmith SMART CARD BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		50	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011

EXPRESS CARD



INVENTEC

TITLE			
Aerosmith EXPRESS CARD & LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01
SHEET		51	OF 70

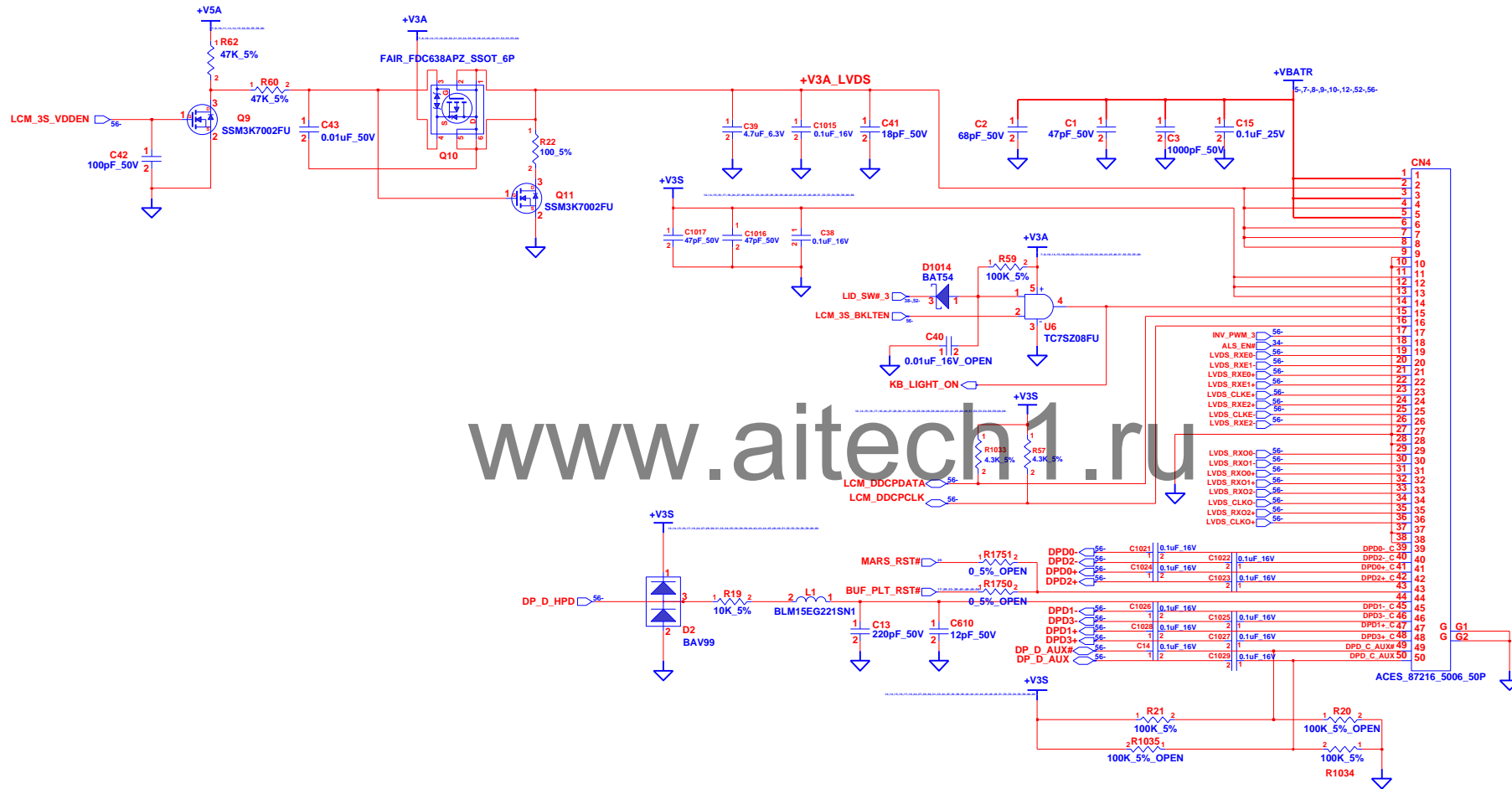
CHANGE by *Shih_Evan* 15-Feb-2011

[illegible]

www.aitech1.ru

<i>INVENTEC</i>			
TITLE <i>Aerosmith</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
SHEET		52	OF 70

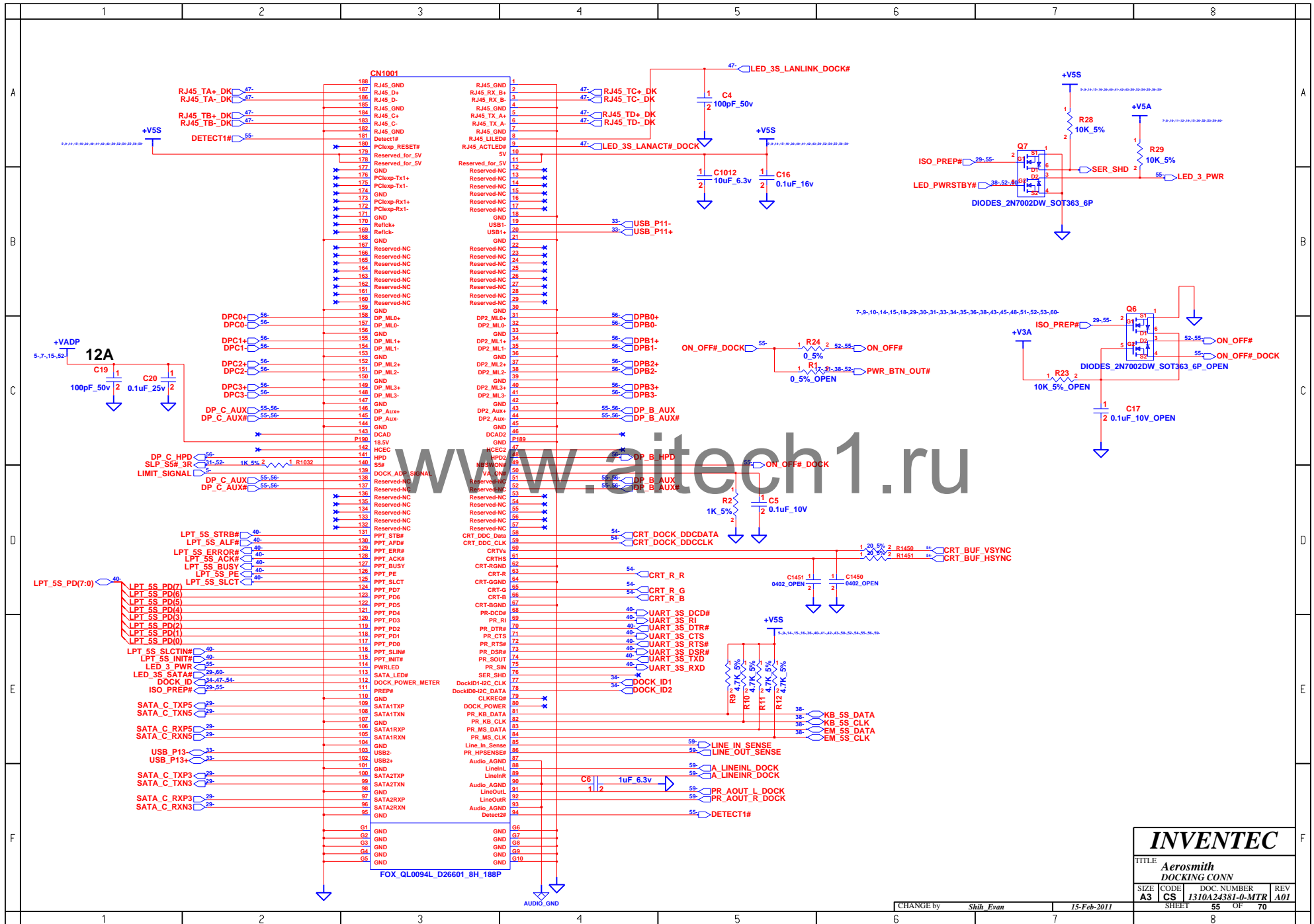
Integrated Panel

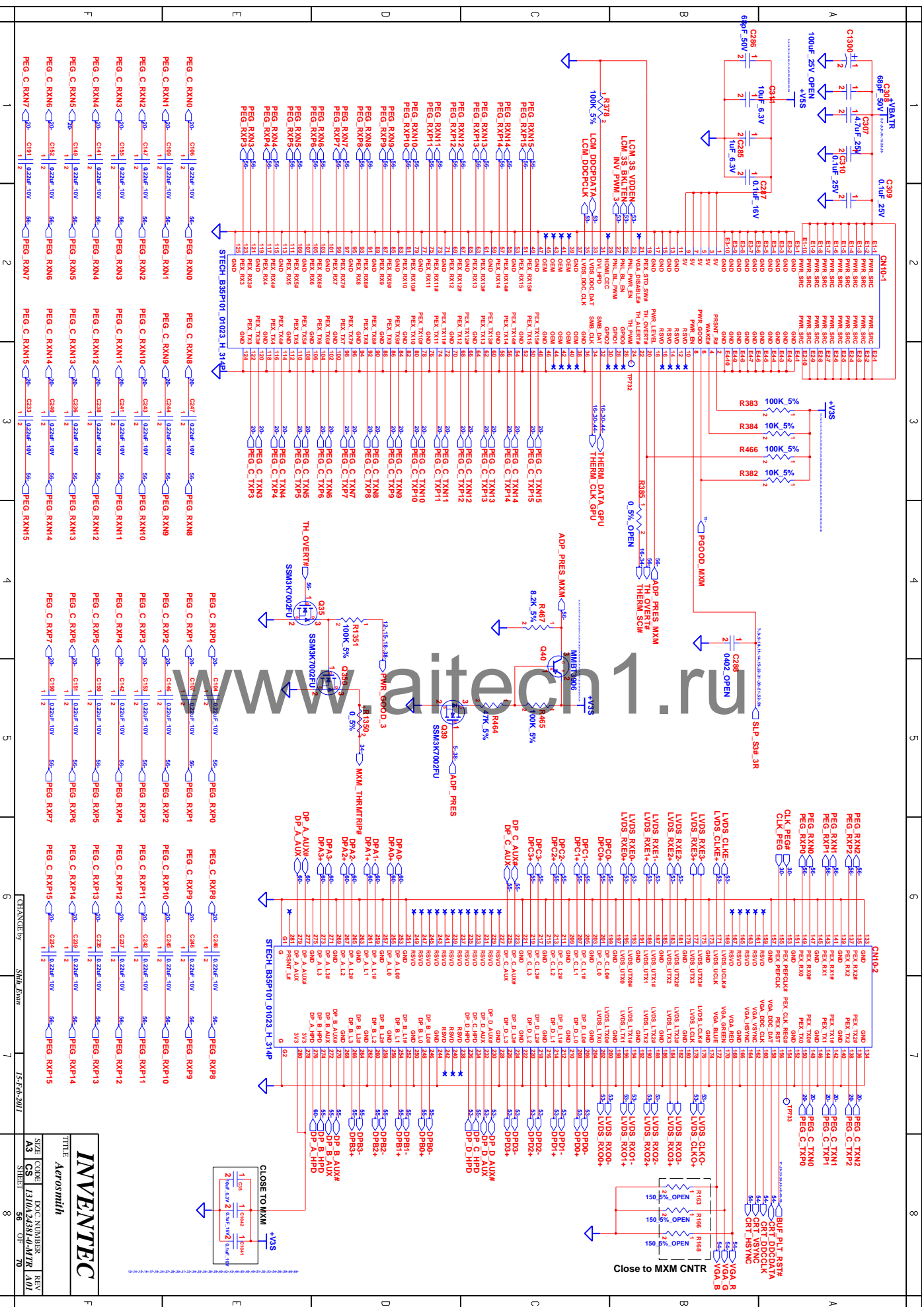


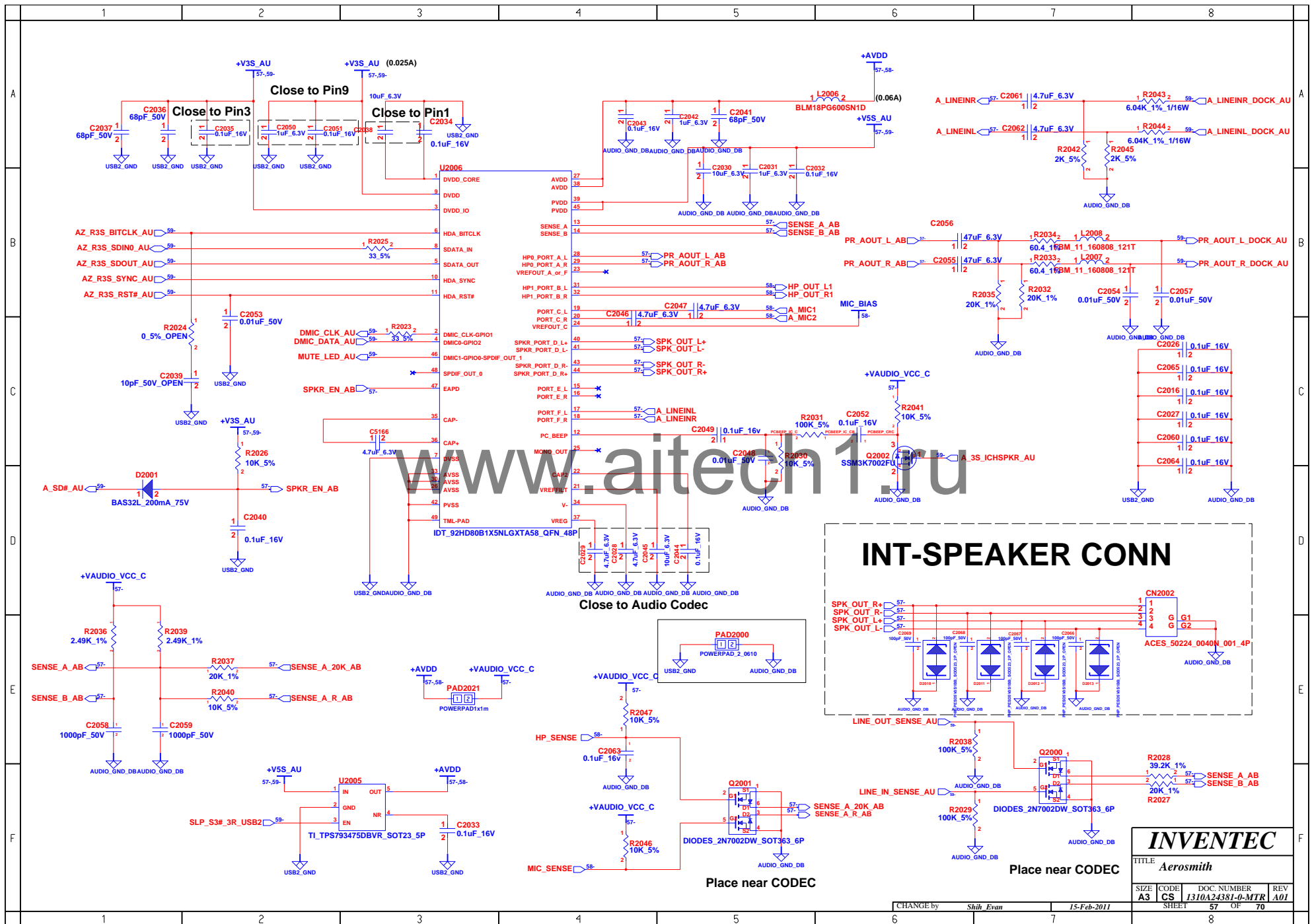
www.aitech1.ru

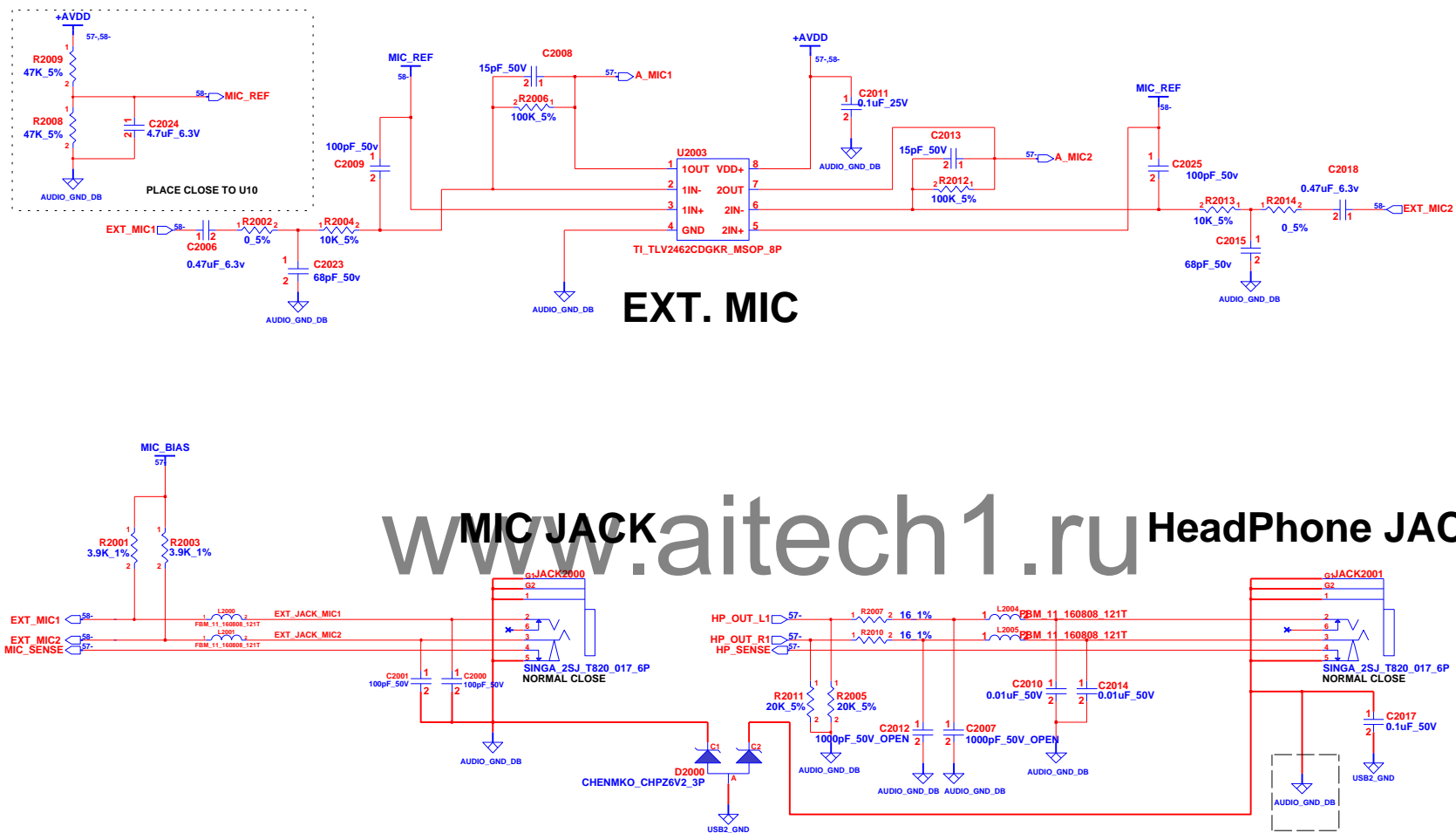
INVENTEC

TITLE Aerosmith LCM			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by <i>Shih_Evan</i>		15-Feb-2011	
SHEET 53		OF 70	





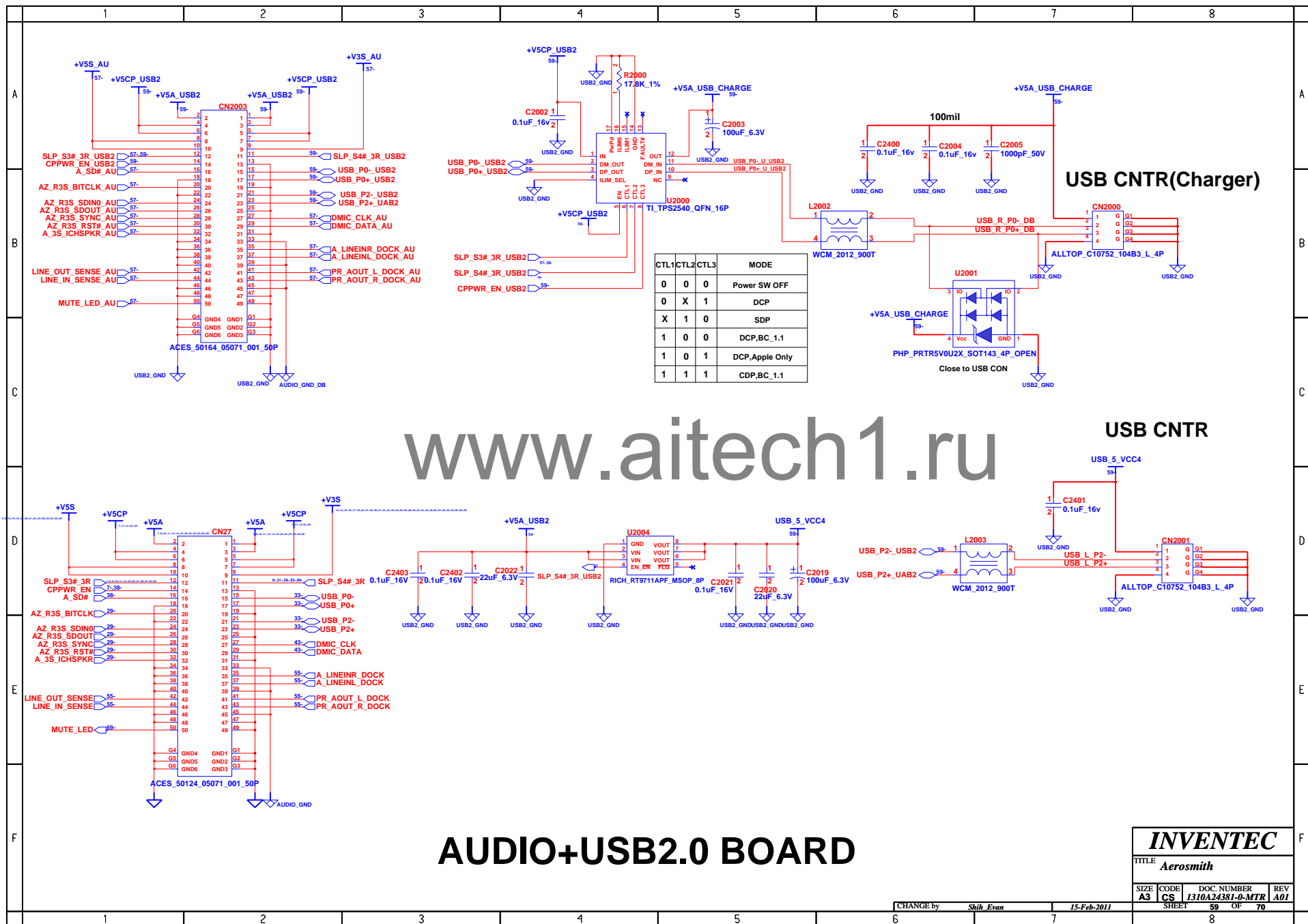




Use min 20 mils wide trace to JACK pin1

AUDIO & USB2.0 BOARD

INVENTEC			
TITLE Aerosmith AUDIO-2			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
CHANGE by Shih_Evan		15-Feb-2011	
SHEET		58 OF 70	



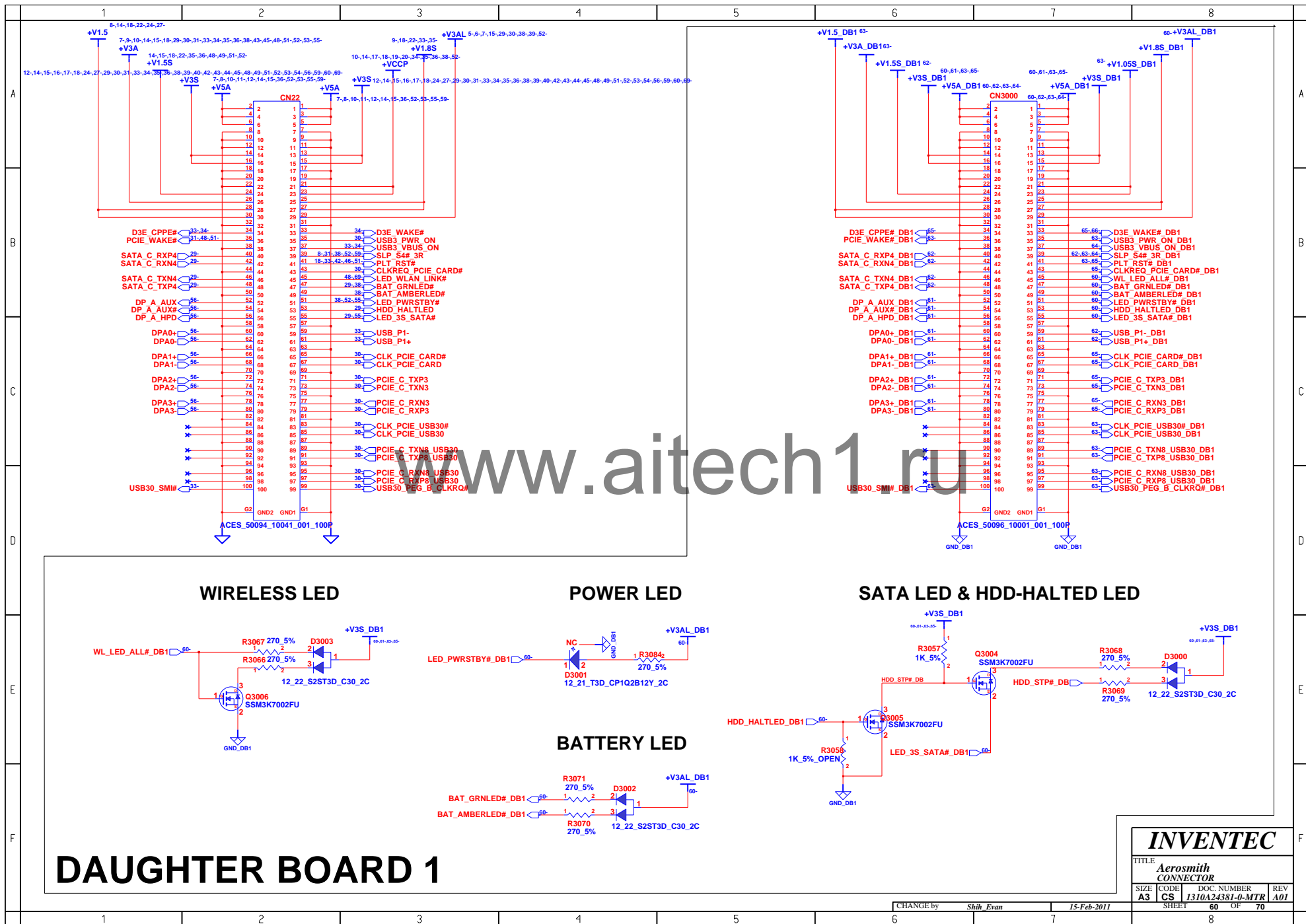
INVENTEC

TITLE: *Aerosmith*

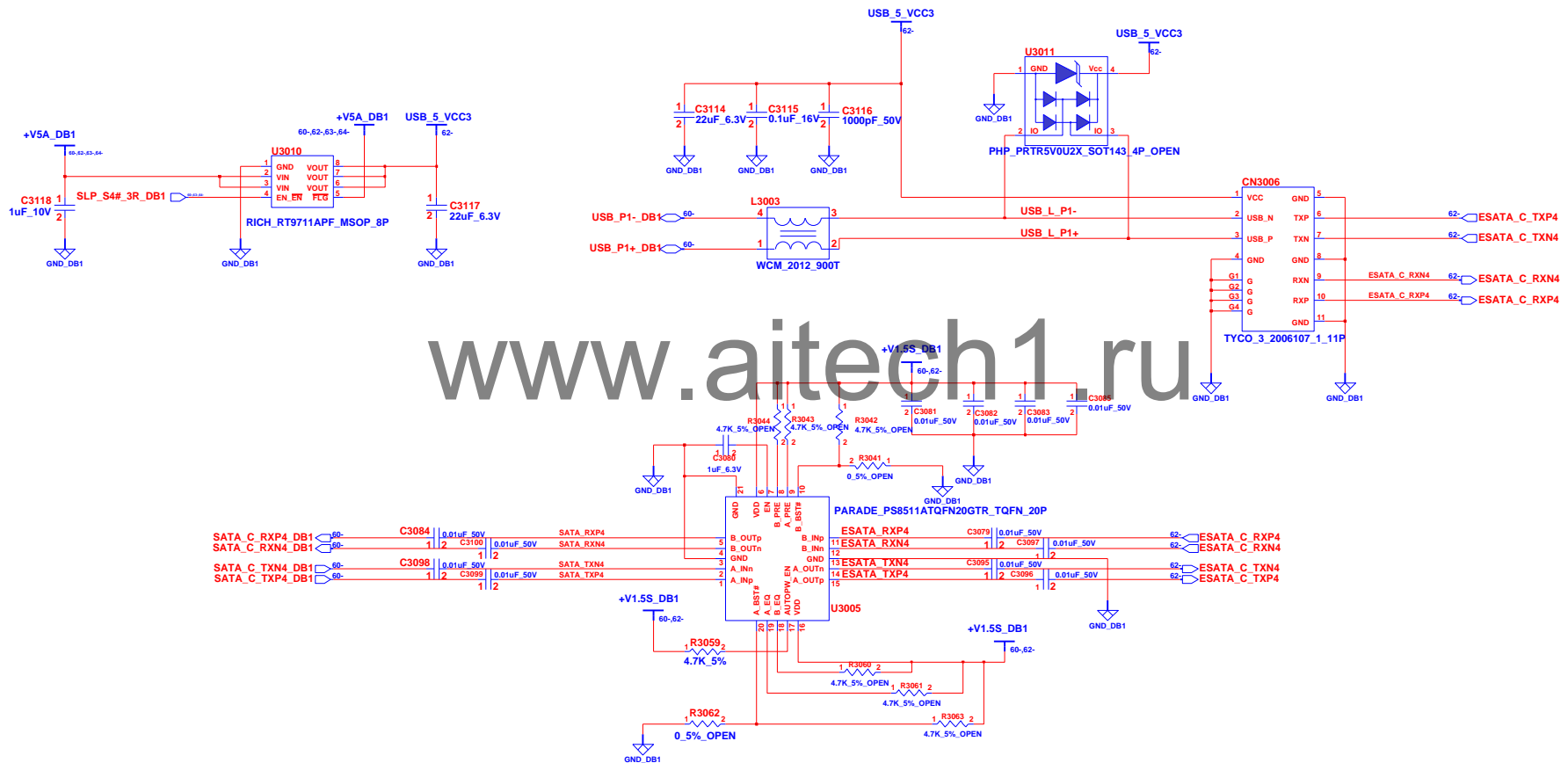
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24381-0-MTR	A01

CHANGE by: *Shih Evan* 15-Feb-2011

SHEET 59 OF 70



USB & eSATA Combo



DAUGHTER BOARD 1

INVENTEC

TITLE Aerosmith USB & eSATA			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
SHEET		62	OF 70

CHANGE by *Shih_Evan* 15-Feb-2011

CARD READER

CARD READER

DAUGHTER BOARD 1

INVENTEC

TITLE: Aerosmith CARD READER

SIZE: A3 CODE: CS DOC. NUMBER: 1310A24381-0-MTR REV: A01

CHANGE by: Shih Evan 15-Feb-2011

SHEET 65 OF 70

The schematic diagram illustrates the internal circuitry of the CARD READER DAUGHTER BOARD 1. The board is designed to interface with a main system board via a connector (JMB700) and a card (JMB700_LGA20A_LQFP_48P). The diagram shows the placement of various components, including capacitors (C3031, C3032, C3033, C3034, C3035, C3036, C3043, C3044, C3045, C3078), resistors (R3016, R3020, R3021, R3200), and a microcontroller (U3002). The board is connected to a main system board via a connector (JMB700) and a card (JMB700_LGA20A_LQFP_48P). The diagram also shows the placement of the daughter board on the main system board, with labels for various pins and components.

CARD READER

DAUGHTER BOARD 1

INVENTEC

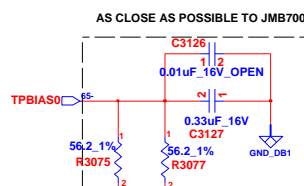
TITLE: Aerosmith CARD READER

SIZE: A3 CODE: CS DOC. NUMBER: 1310A24381-0-MTR REV: A01

CHANGE by: Shih Evan 15-Feb-2011

SHEET 65 OF 70

The schematic diagram illustrates the internal circuitry of the CARD READER DAUGHTER BOARD 1. The board is designed to interface with a main system board via a connector (JMB700) and a card (JMB700_LGA20A_LQFP_48P). The diagram shows the placement of various components, including capacitors (C3031, C3032, C3033, C3034, C3035, C3036, C3043, C3044, C3045, C3078), resistors (R3016, R3020, R3021, R3200), and a microcontroller (U3002). The board is connected to a main system board via a connector (JMB700) and a card (JMB700_LGA20A_LQFP_48P). The diagram also shows the placement of the daughter board on the main system board, with labels for various pins and components.



1394 CNTR

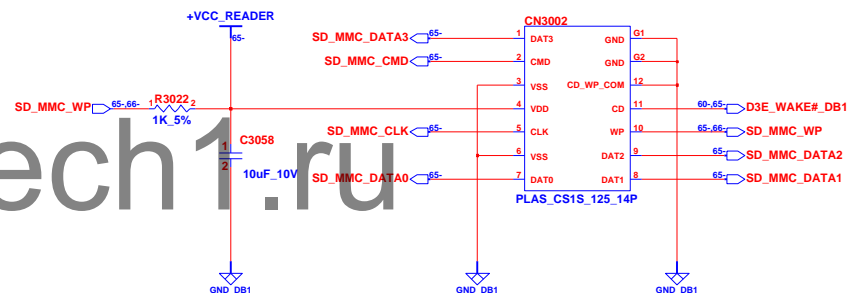
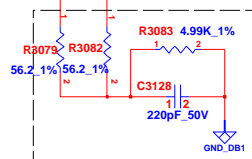
AS CLOSE AS POSSIBLE TO CONN

TPBN
TPBP
TPAN
TPAP

CN3007
TPB0- G G1
TPB0+ G G2
TPA0- G G3
TPA0+ G G4

SYN_02001SPR004MS60ZL MP

GND_DB1



DAUGHTER BOARD 1

INVENTEC			
TITLE Aerosmith SD/MMC & 1394A			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
SHEET 66		OF 70	

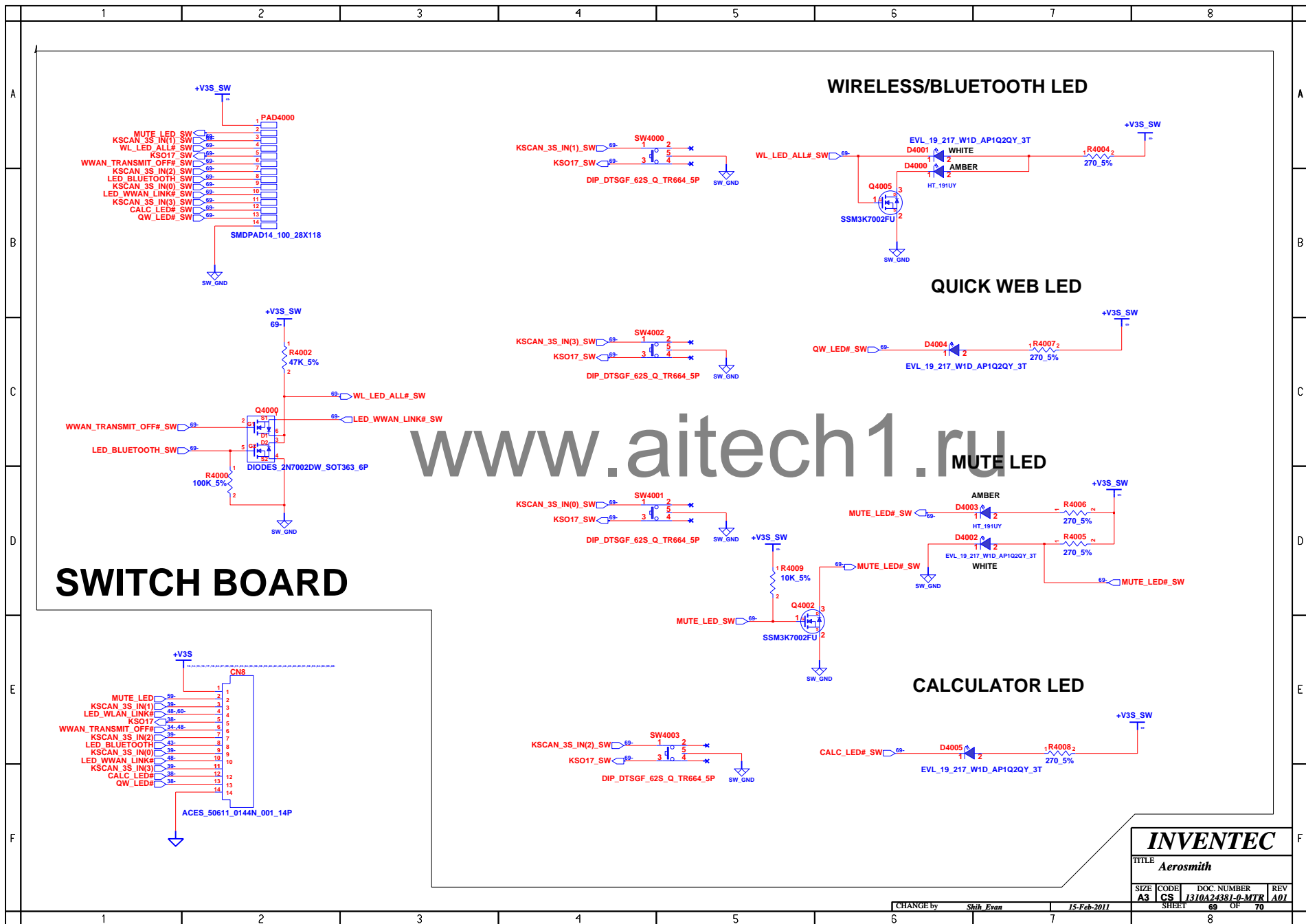
CHANGE by Shih_Evan 15-Feb-2011

	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	

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INVENTEC			
TITLE <i>Aerosmith CFAST</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>1310A24381-0-MTR</i>	REV <i>A01</i>
SHEET 67		OF 70	

CHANGE by *Shih_Evan* 4-Mar-2011



INVENTEC

TITLE
Aerosmith

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A24381-0-MTR	A01

CHANGE by Shih Evan 15-Feb-2011

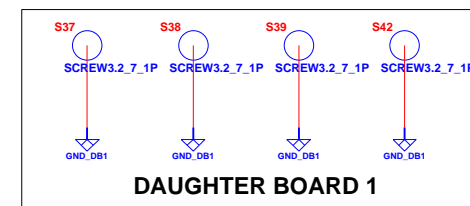
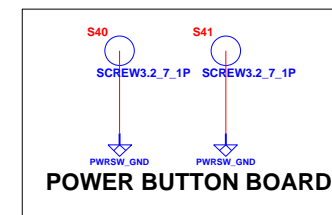
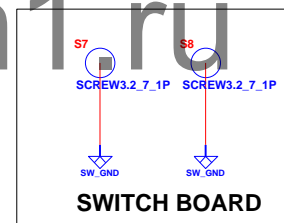
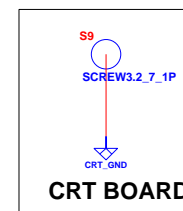
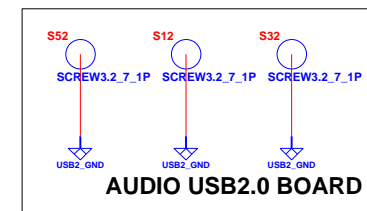
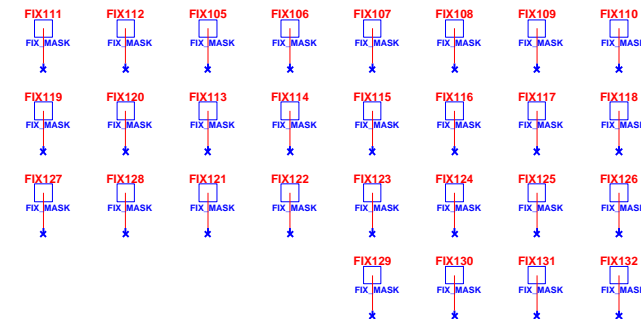
SHEET 69 OF 70

SCREW

CPU_SCREW

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STANDOFF



INVENTEC

TITLE Aerosmith SCREW			
SIZE A3	CODE CS	DOC. NUMBER 1310A24381-0-MTR	REV A01
SHEET 70		OF 70	

CHANGE by *Shih_Evan* 15-Feb-2011