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<div><div>AEROSMITH</div><div>www.aitech1.ru</div><div>SI1 AX1 BUILD</div><div>2010.08.31</div></div>																																																																																													
<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																														DATE	CHANGE NO.	REV	<table><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DRAWER</td><td></td><td></td><td></td><td></td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td></tr></table>					EE	DATE	POWER	DATE	DRAWER					DESIGN					CHECK					RESPONSIBLE					<table><tr><td colspan="4">INVENTEC</td></tr><tr><td colspan="4">TITLE</td></tr><tr><td colspan="4">AEROSMITH</td></tr><tr><td>SIZE</td><td>CODE</td><td>DOC. NUMBER</td><td>REV</td></tr><tr><td>A3</td><td>CS</td><td>1310A23938-0-MTR</td><td>AX1</td></tr><tr><td>P/N</td><td colspan="2">XXXXXXXXXXXX</td><td></td></tr><tr><td colspan="2">SHEET</td><td>1</td><td>OF 70</td></tr></table>			INVENTEC				TITLE				AEROSMITH				SIZE	CODE	DOC. NUMBER	REV	A3	CS	1310A23938-0-MTR	AX1	P/N	XXXXXXXXXXXX			SHEET		1	OF 70	
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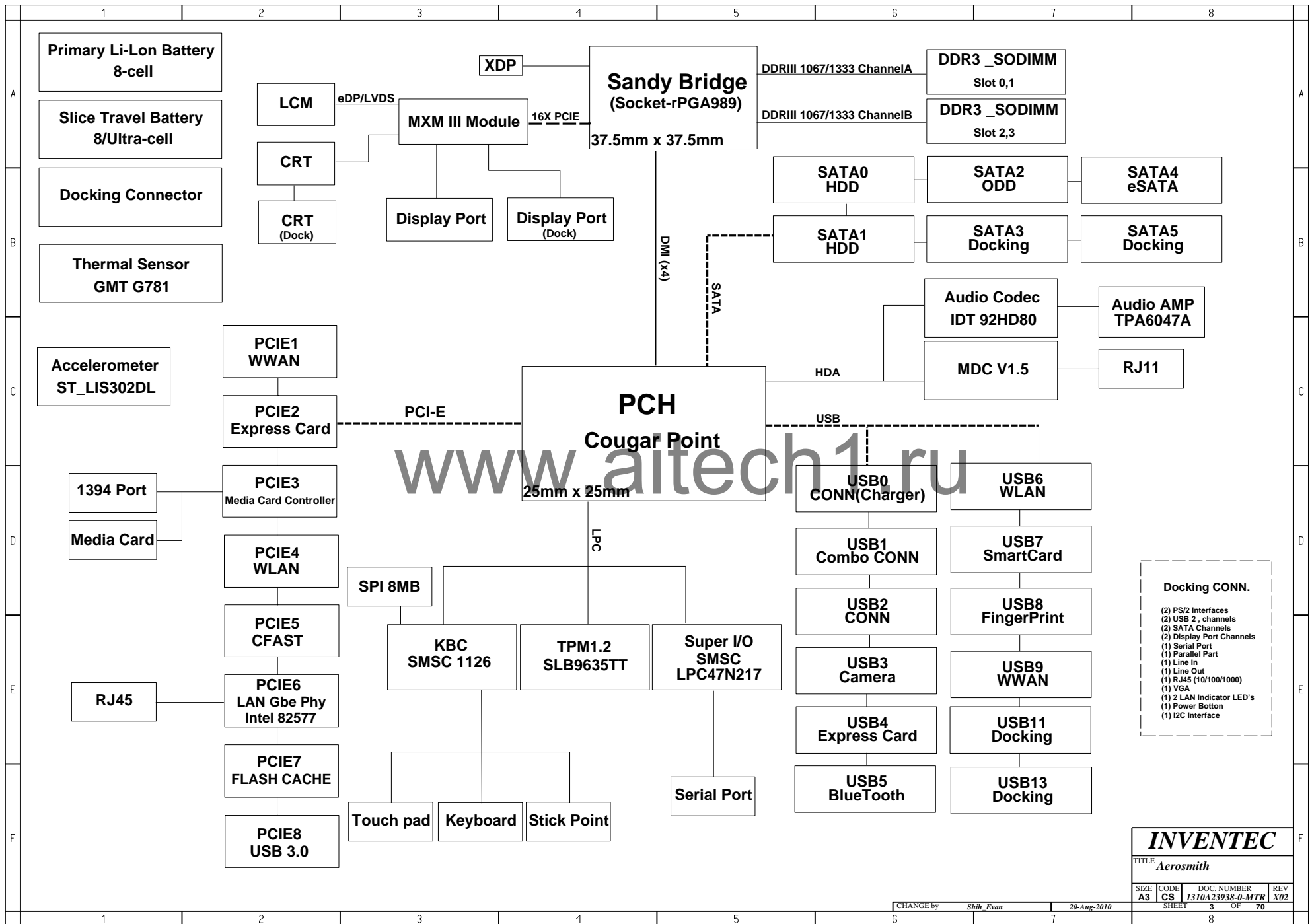
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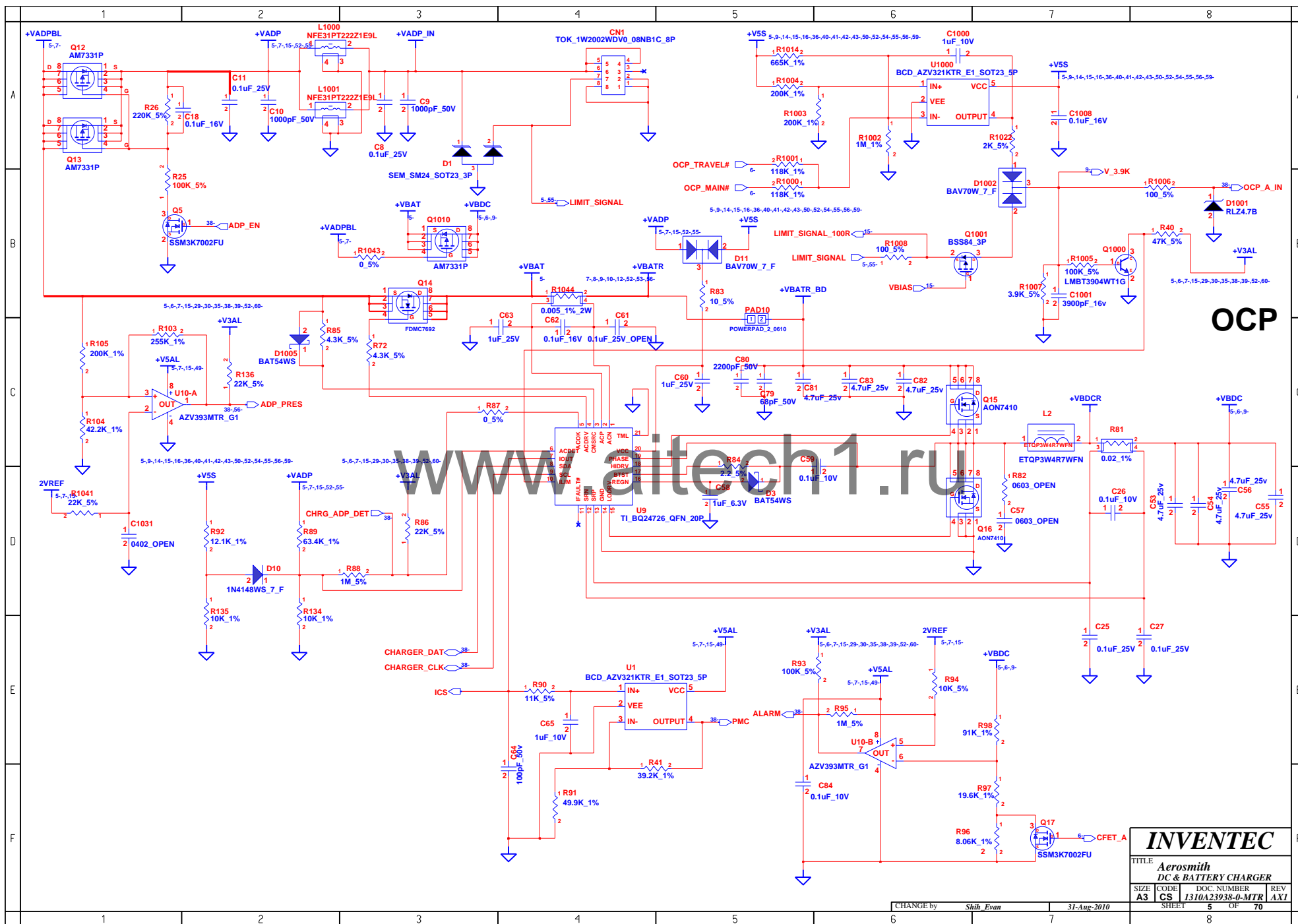
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6- SELECT & BATTERY CONN	32- PCH_4	58- AUDIO
7- SYSTEM POWER(3V/5V)	33- PCH_5	59- USB PORT(CHARGER)
8- SYSTEM POWER(+V1.5/+V0.75S)	34- PCH_6	60- SYSTEM LED
9- SYSTEM POWER(++V1.8S)	35- PCH_7	61- DISPLAY PORT
10- SYSTEM POWER(+VCCP/+V1.05M_LAN)	36- 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- DDR3-DIMM1(A)	51- EXPRESS CARD	
26- DDR3-DIMM0(B)	52- LED	
27- DDR3-DIMM1(B)	53- LCM	
28- DDR3 VREF	54- CRT	
29- PCH_1	55- DOCKING CNTR	
30- PCH_2	56- MXM CONNECTOR	

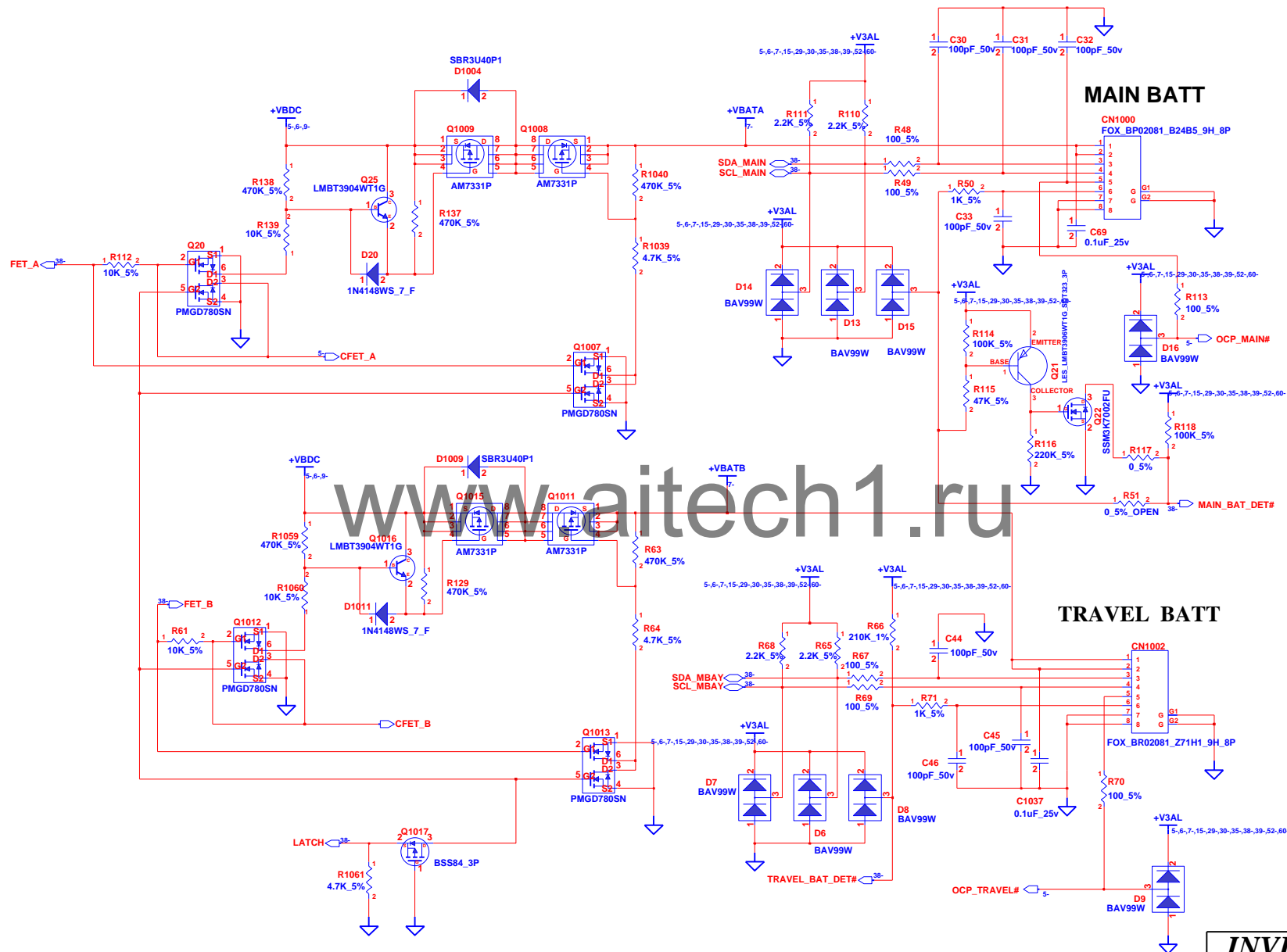
INVENTEC

TITLE			
Aerosmith			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	X02
SHEET		2	OF 70

CHANGE by *Shih_Evan* 31-Aug-2010





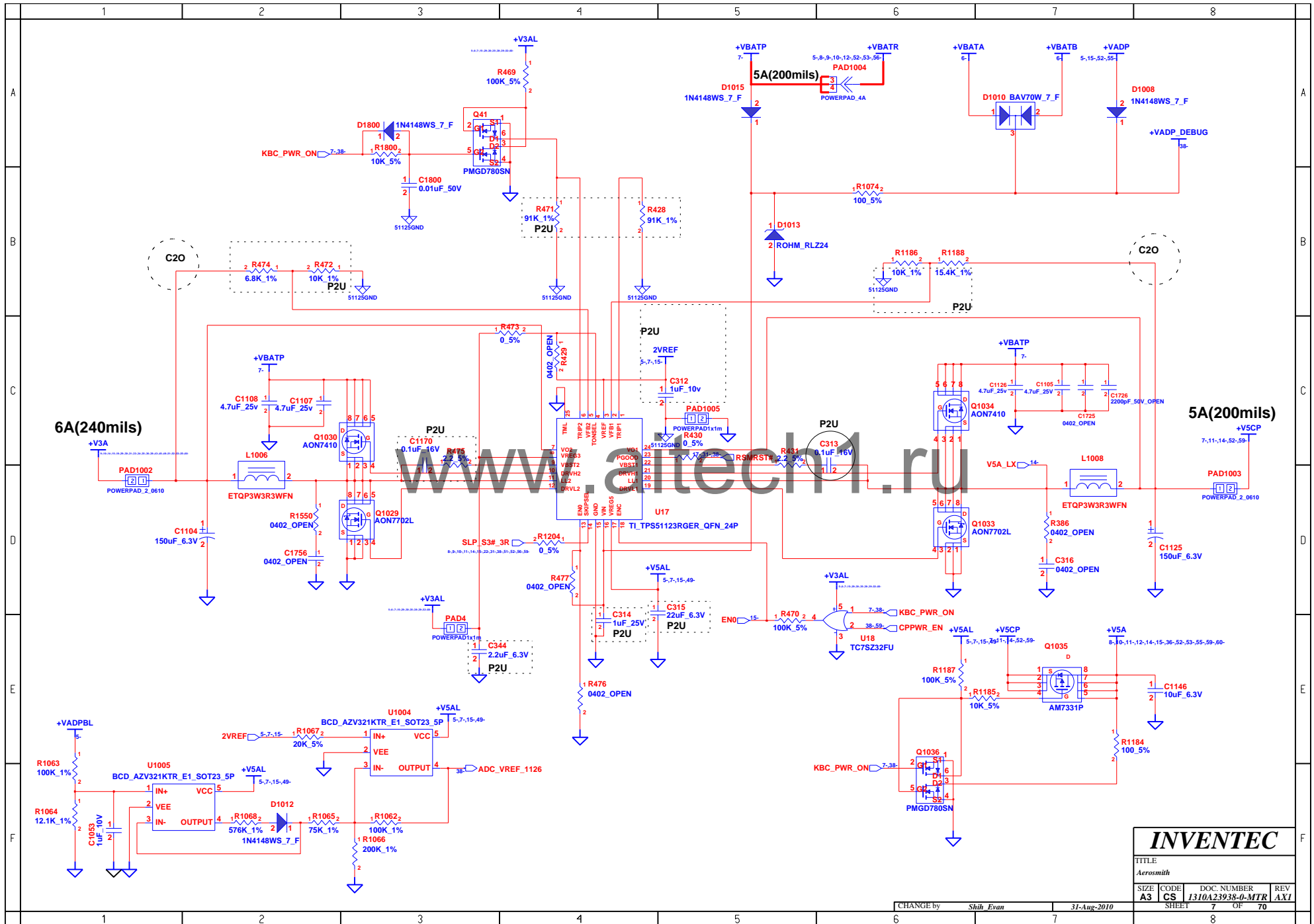


INVENTEC

TITLE
Aerosmith
SELECT & BATTERY CONN
SIZE CODE
A3 CS
DOC NUMBER
1310A23938-0-MTR
REV
AXI

CHANGE by Shih_Evan 31-Aug-2010

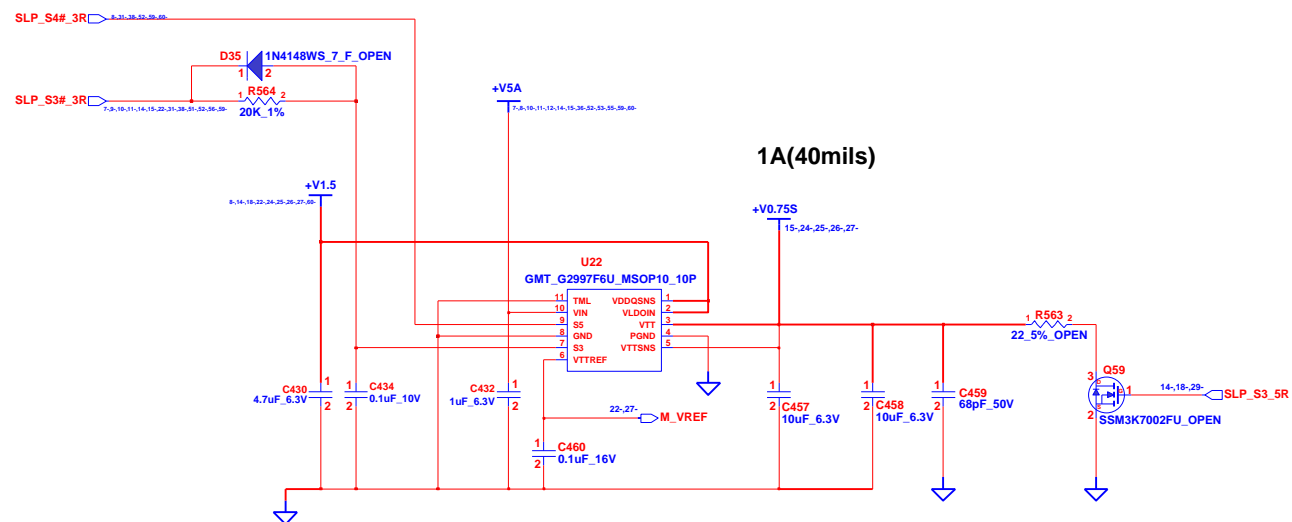
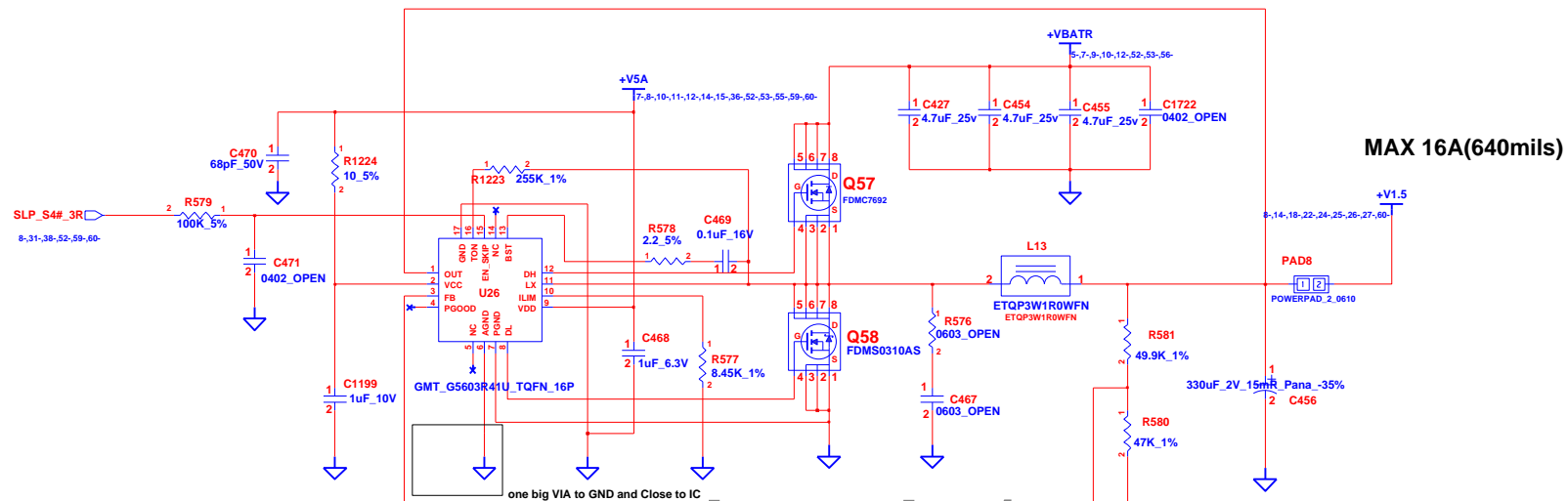
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INVENTEC

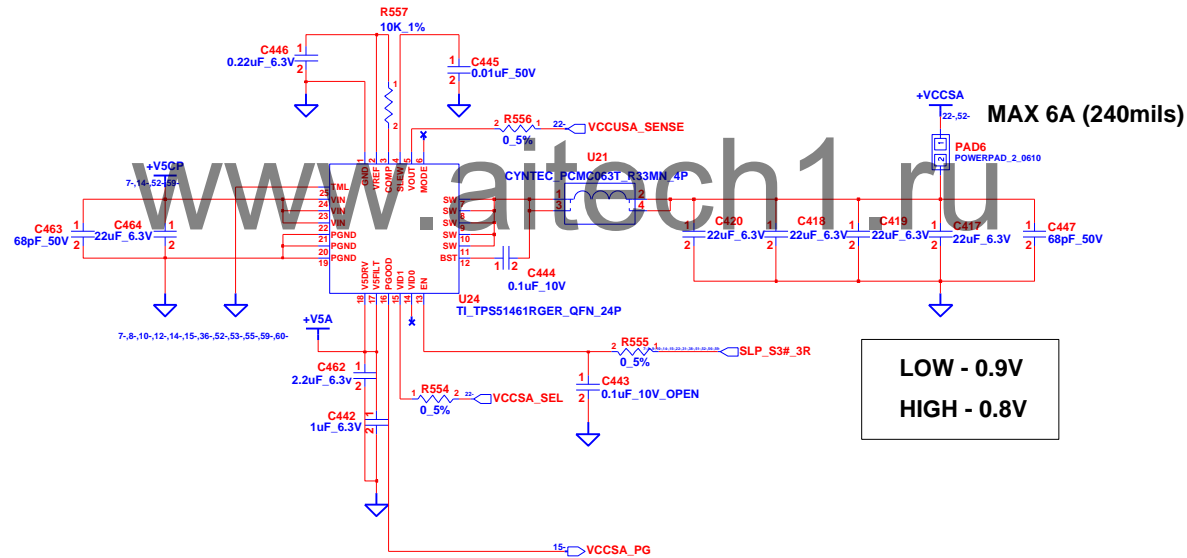
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A3	CS	1310A23938-0-MTR	AXI
SHEET		7	OF 70

CHANGE by *Shih_Evan* 31-Aug-2010



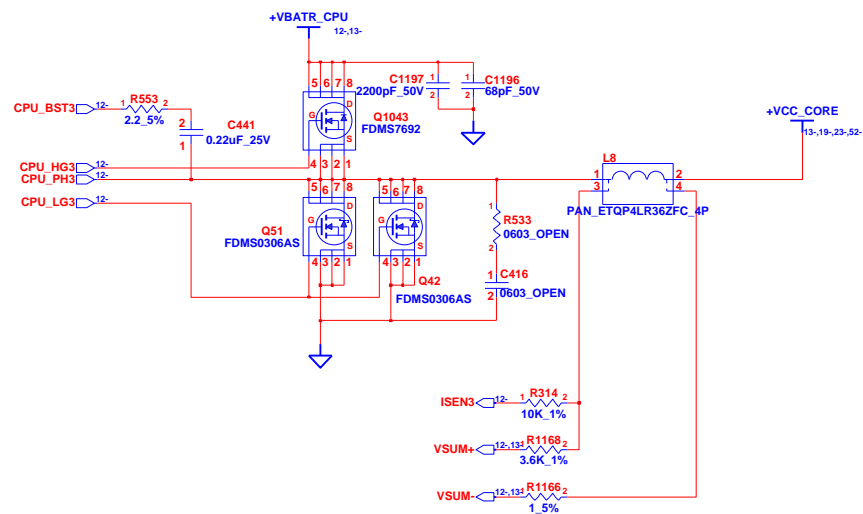
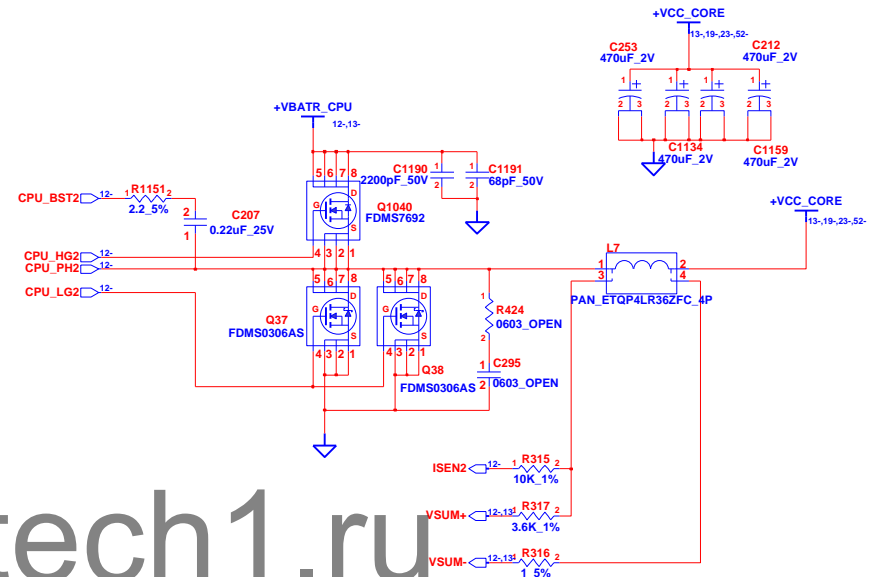
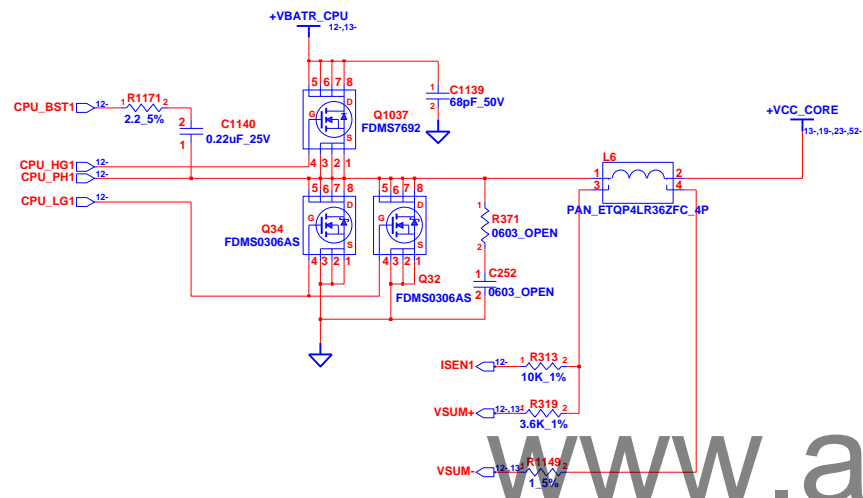
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TITLE Aerosmith SYSTEM POWER(+V1.5/+V0.75S)			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 8		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010



INVENTEC			
TITLE: Aerosmith CPU POWER(+0.85S)			
SIZE: A3	CODE: CS	DOC. NUMBER: 1310A23938-0-MTR	REV: AXI
CHANGE by: Shih_Evan		31-Aug-2010	
SHEET: 11		OF: 70	

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

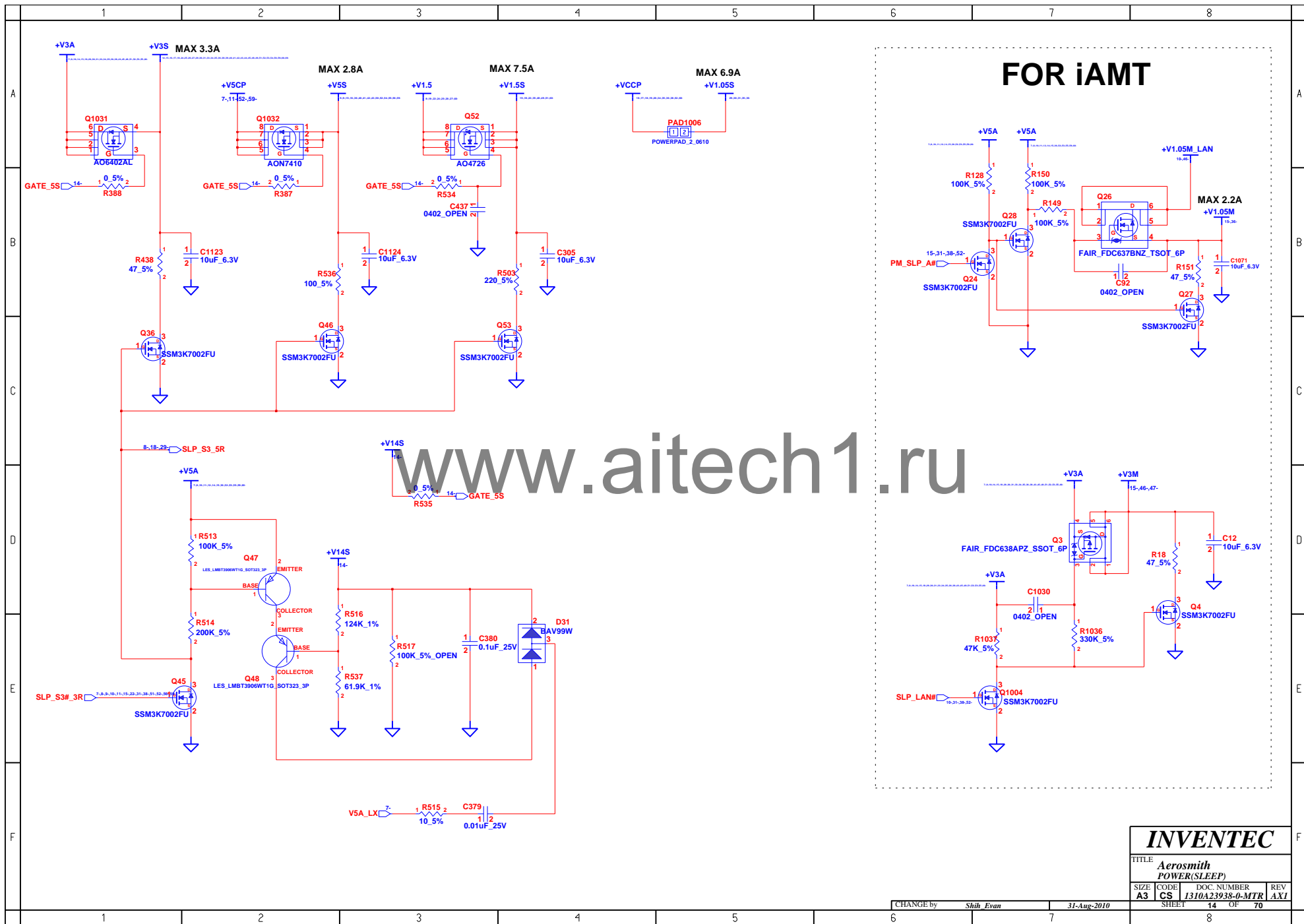


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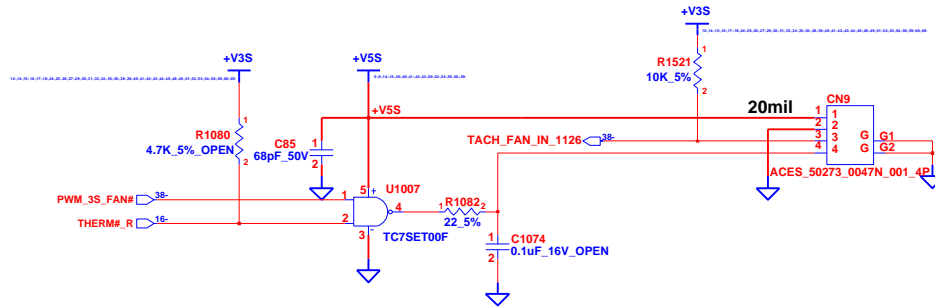
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TITLE Aerosmith CPU POWER(+VCC_CORE)			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 13		OF 70	

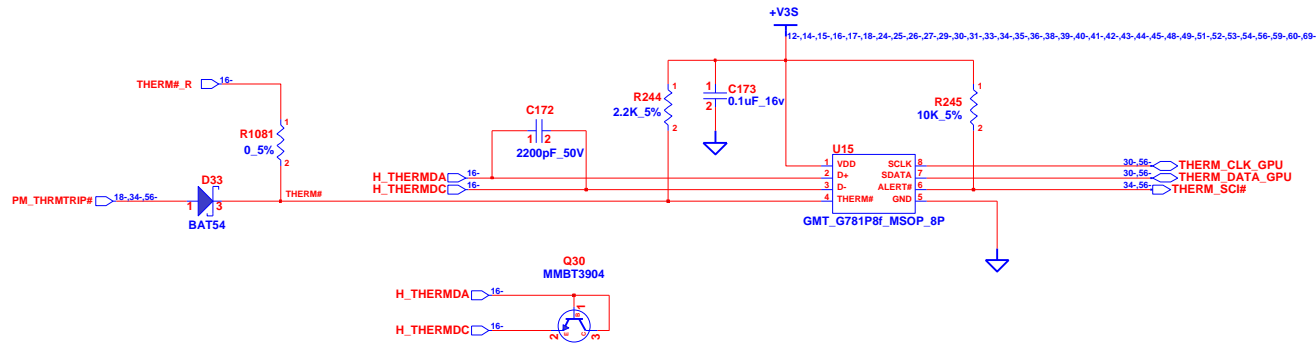
CHANGE by *Shih_Evan* 31-Aug-2010



FAN



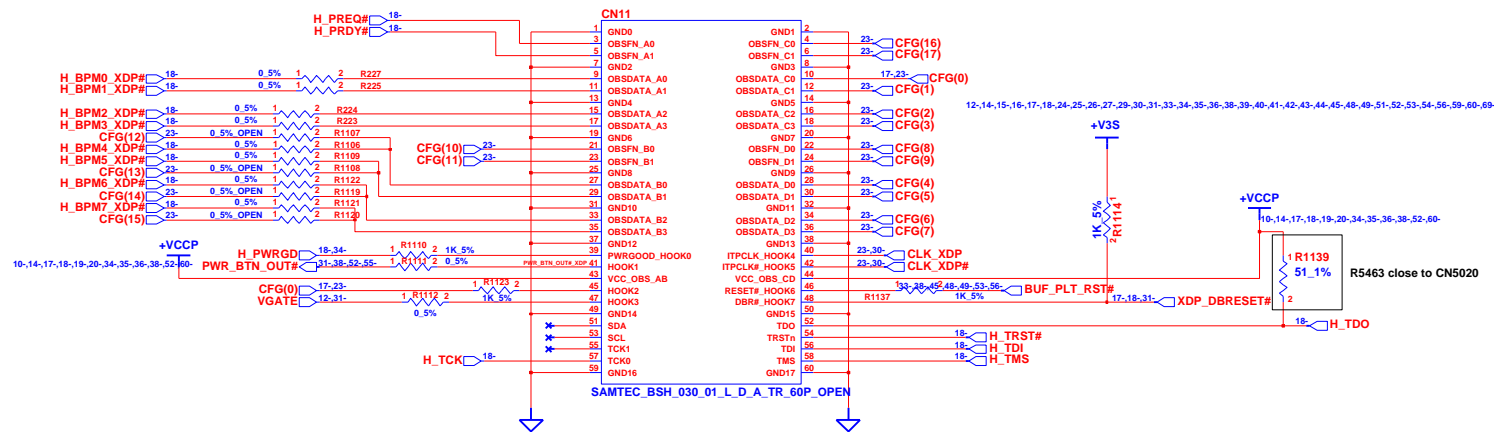
www.aitech1.ru
THERMAL SENSOR



INVENTEC

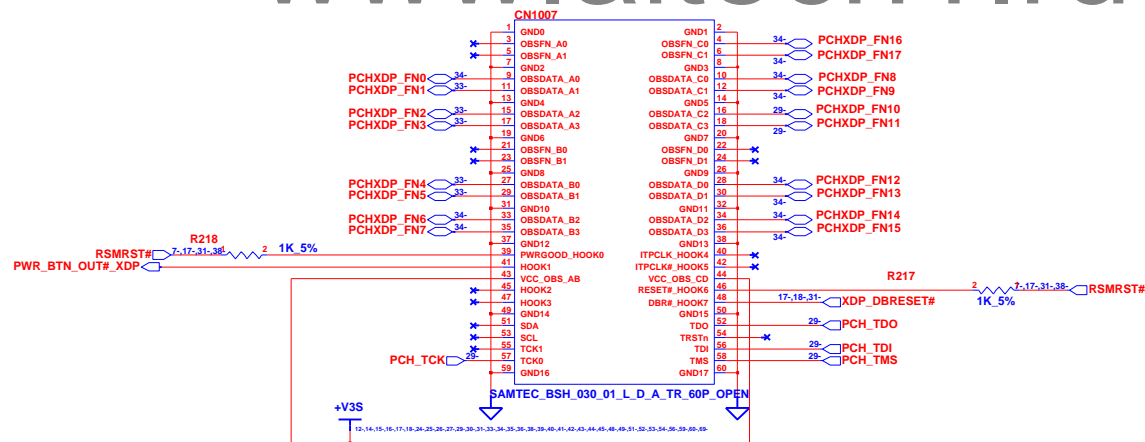
TITLE			
Aerosmith			
THERMAL & FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AXI
SHEET		16	OF 70

CHANGE by *Shih_Evan* 31-Aug-2010



CPU XDP CONNECTOR

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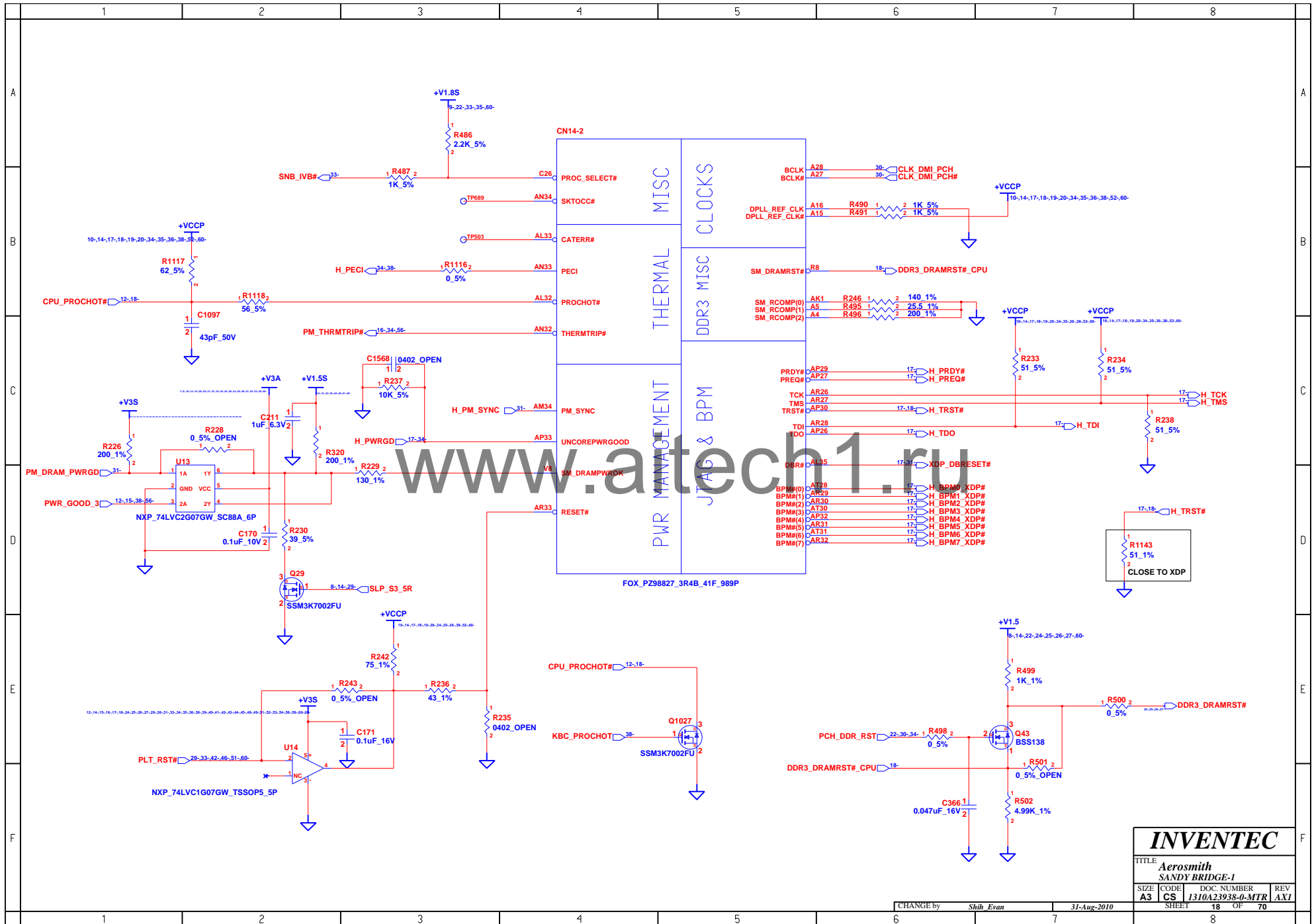


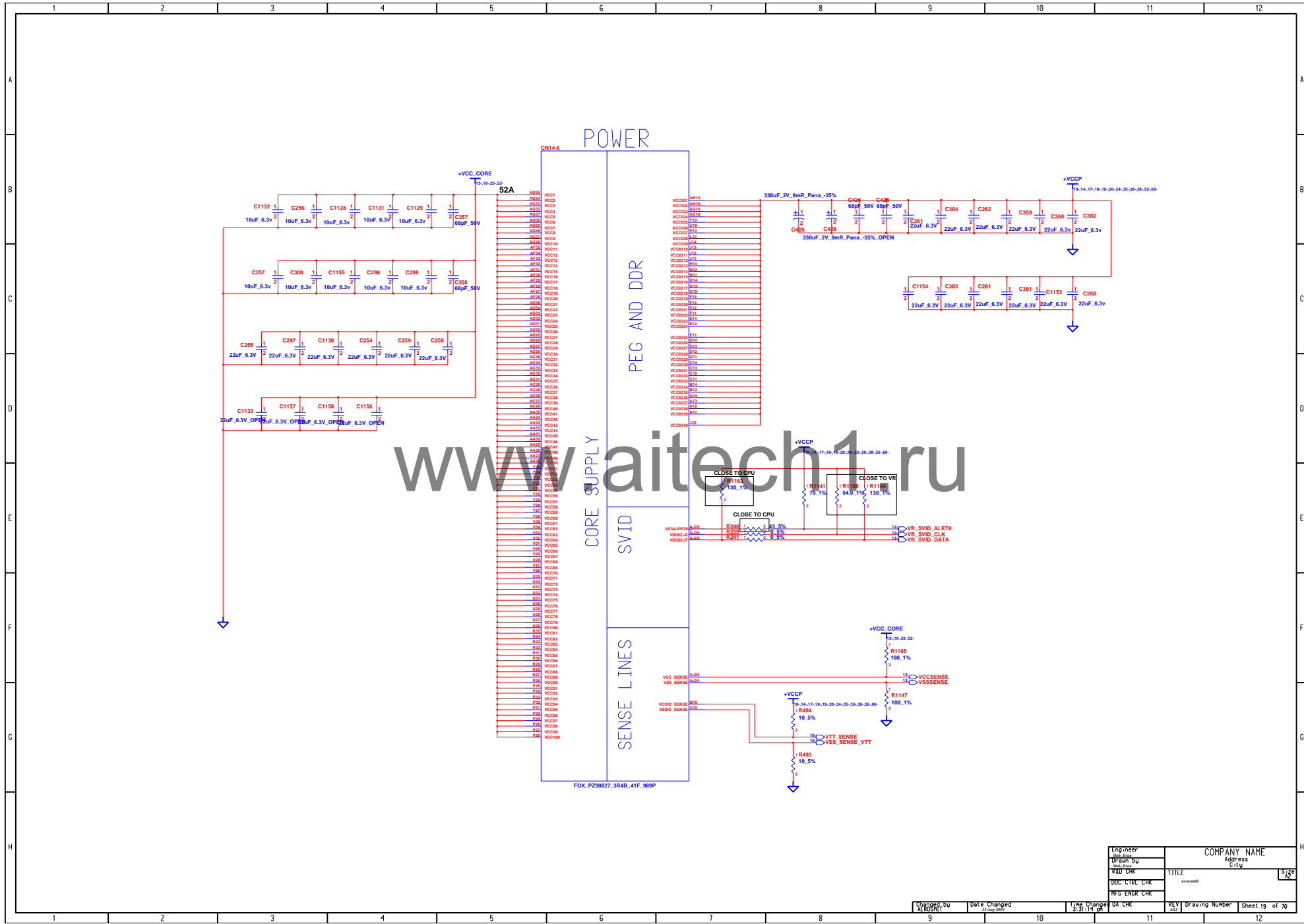
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INVENTEC

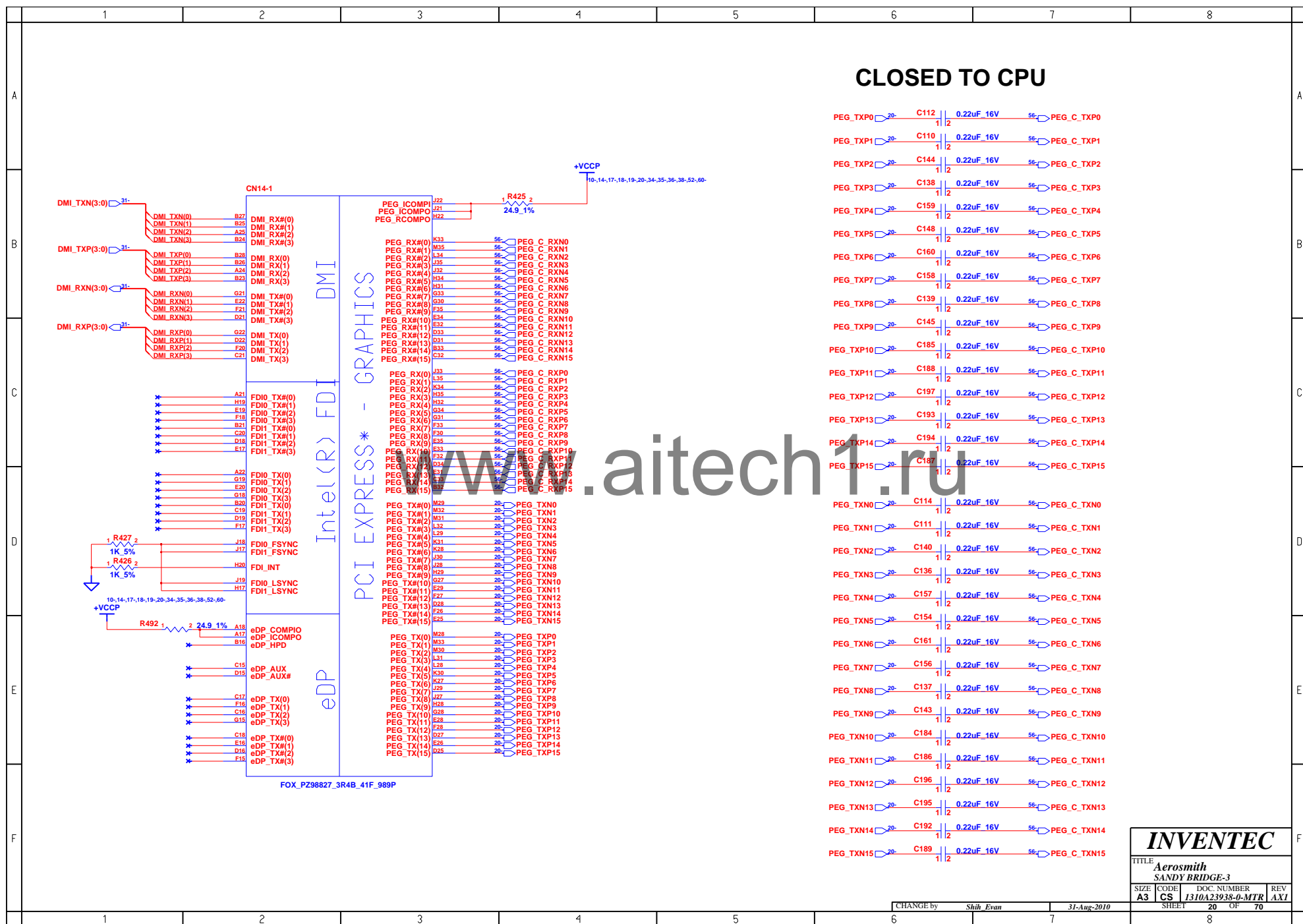
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SHEET 17		OF 70	

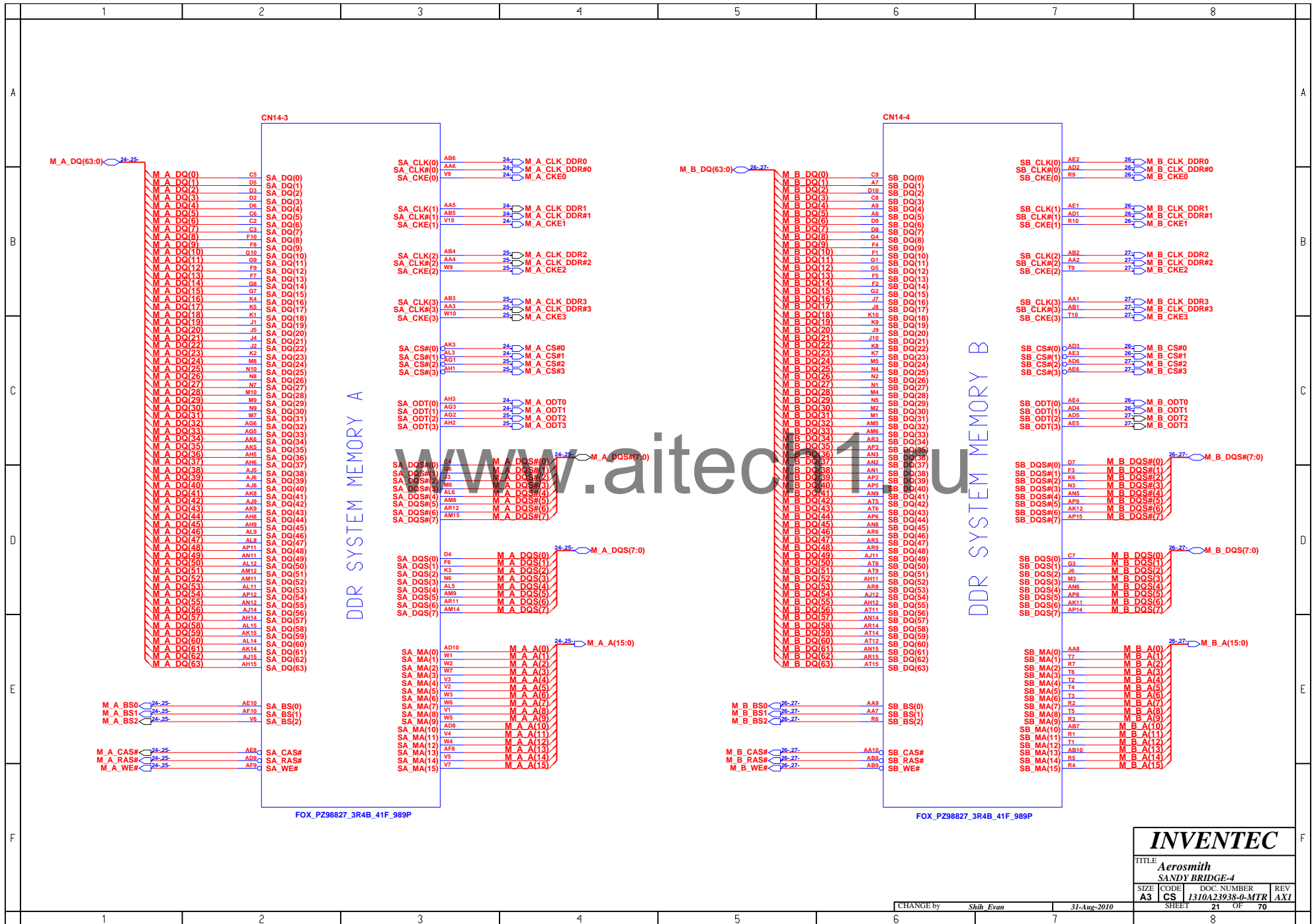
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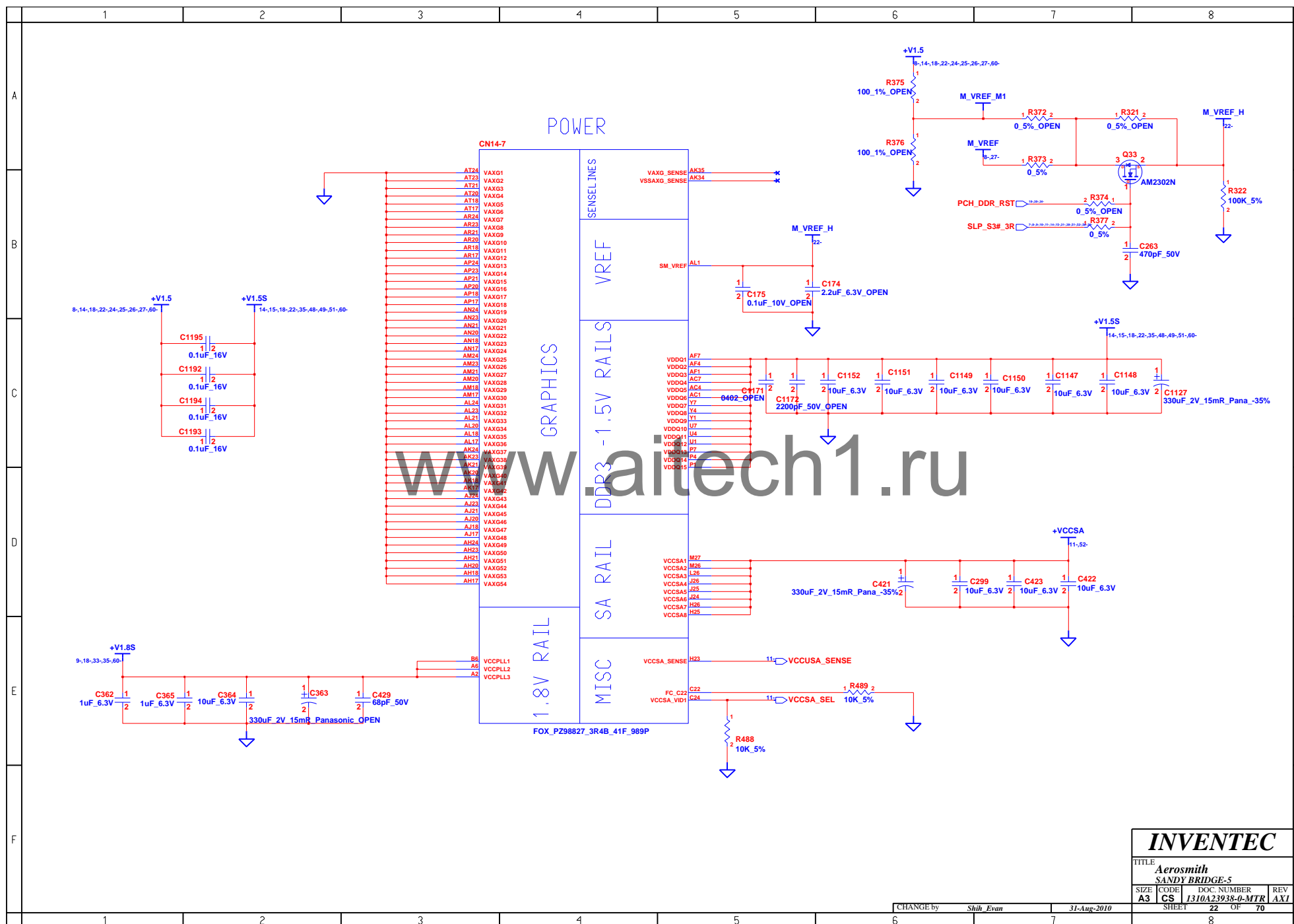
Engineer	COMPANY NAME
Design BU	Address
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Rev. Rev.	State
Rev. Rev.	Country
Rev. Rev.	Postal Code
Rev. Rev.	Phone
Rev. Rev.	Fax
Rev. Rev.	Email
Rev. Rev.	Website
Rev. Rev.	Logo
Rev. Rev.	Sheet 19 of 70

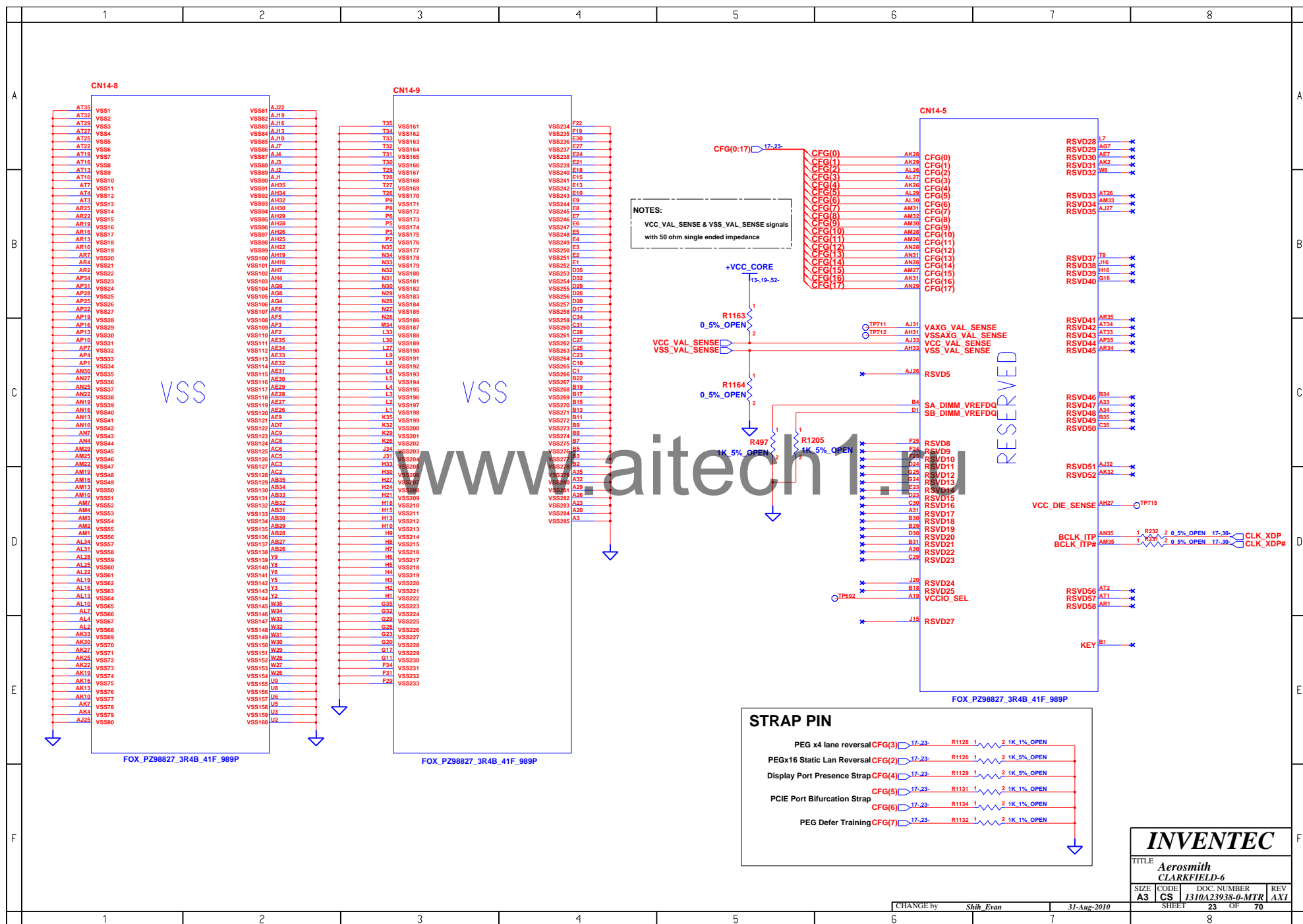


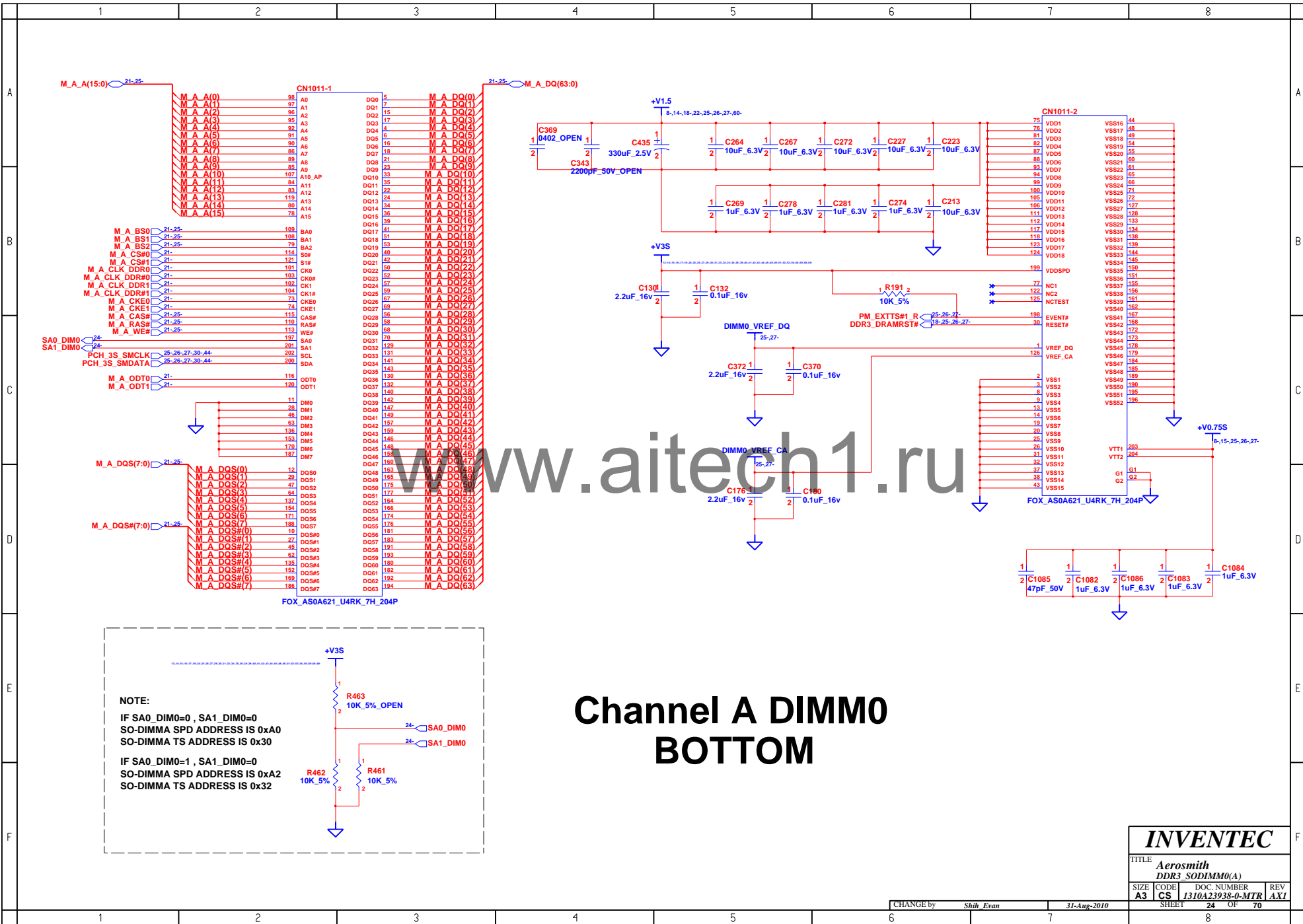


INVENTEC

TITLE Aerosmith SANDY BRIDGE-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AX1
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 21		OF 70	





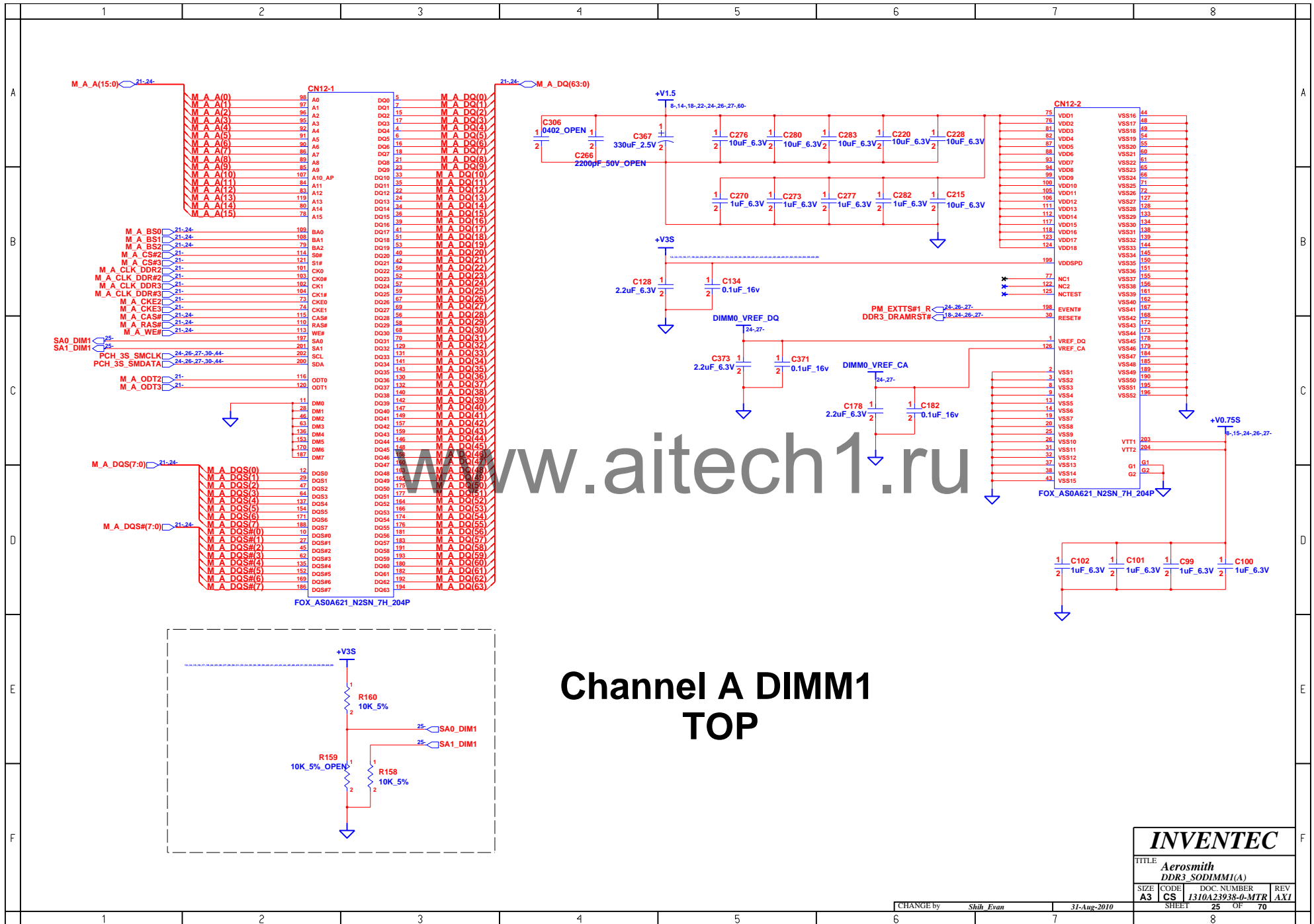


Channel A DIMM0 BOTTOM

INVENTEC

TITLE Aerosmith DDR3_SODIMM0(A)			
SIZE A3	CODE CS	DOC NUMBER 1310A23938-0-MTR	REV AX1
SHEET 24		OF 70	

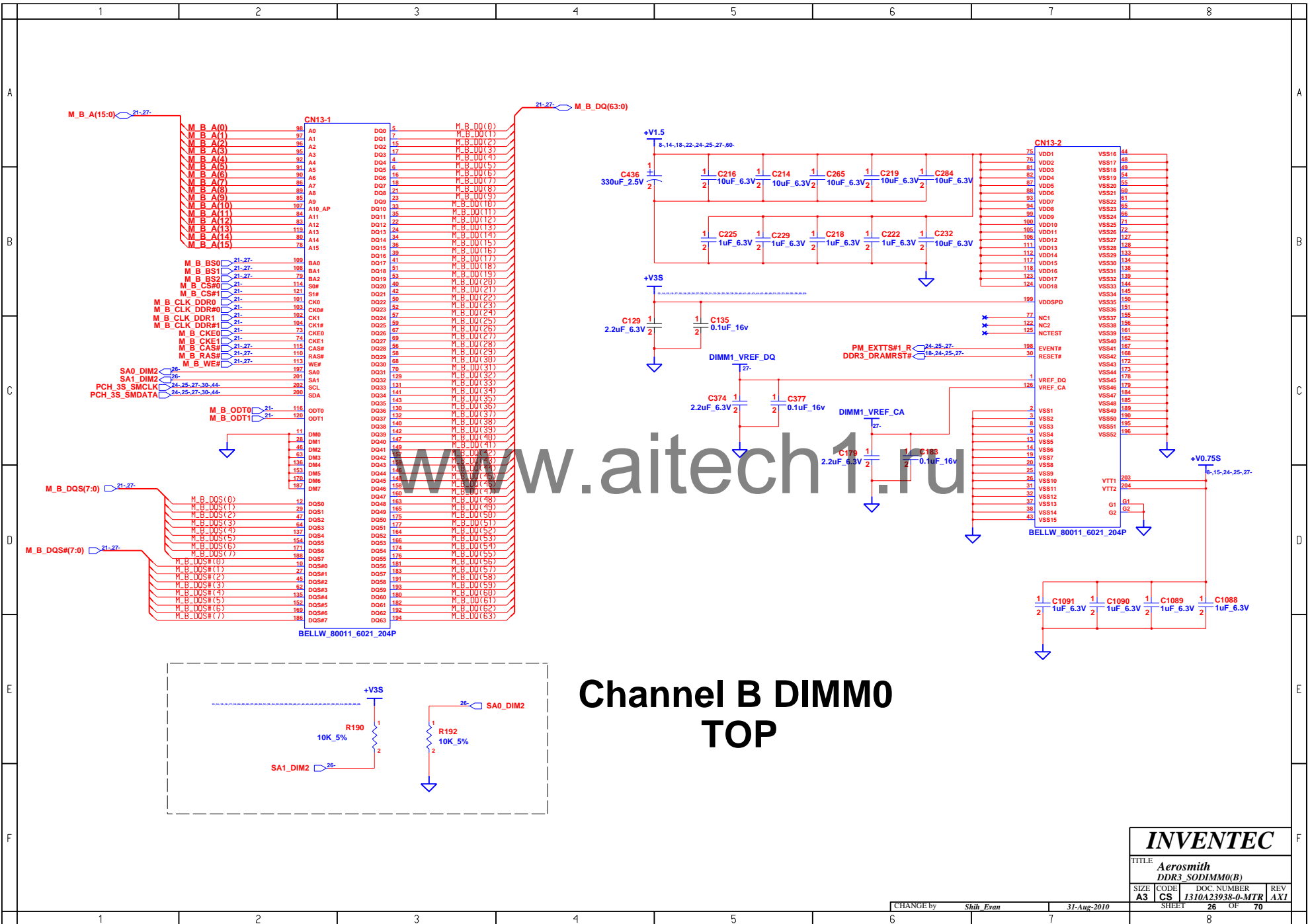
CHANGE by *Shih_Evan* 31-Aug-2010



INVENTEC

TITLE Aerosmith DDR3_SODIMM1(A)			
SIZE A3	CODE CS	DOC NUMBER 1310A23938-0-MTR	REV AX1
SHEET 25		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010



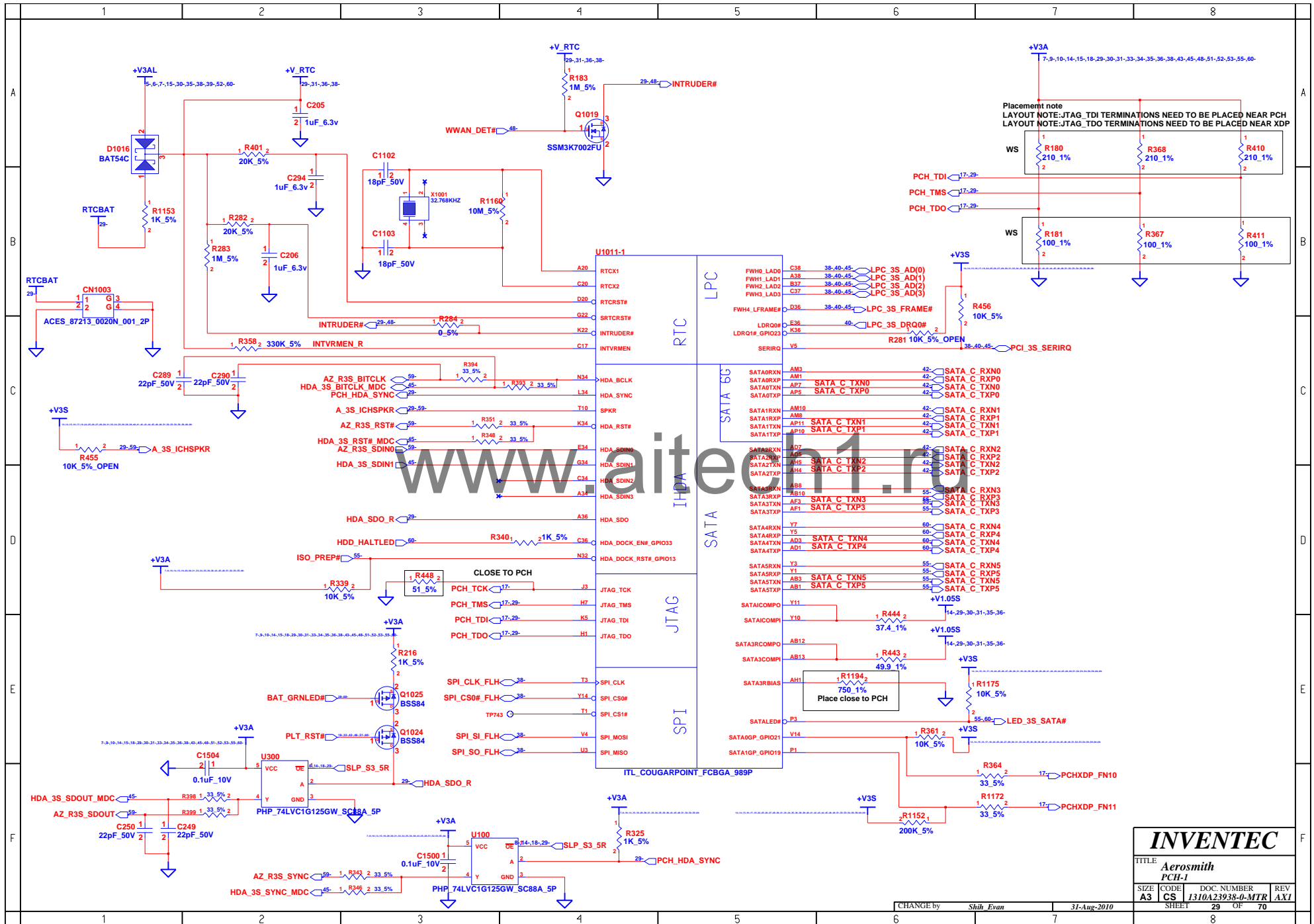
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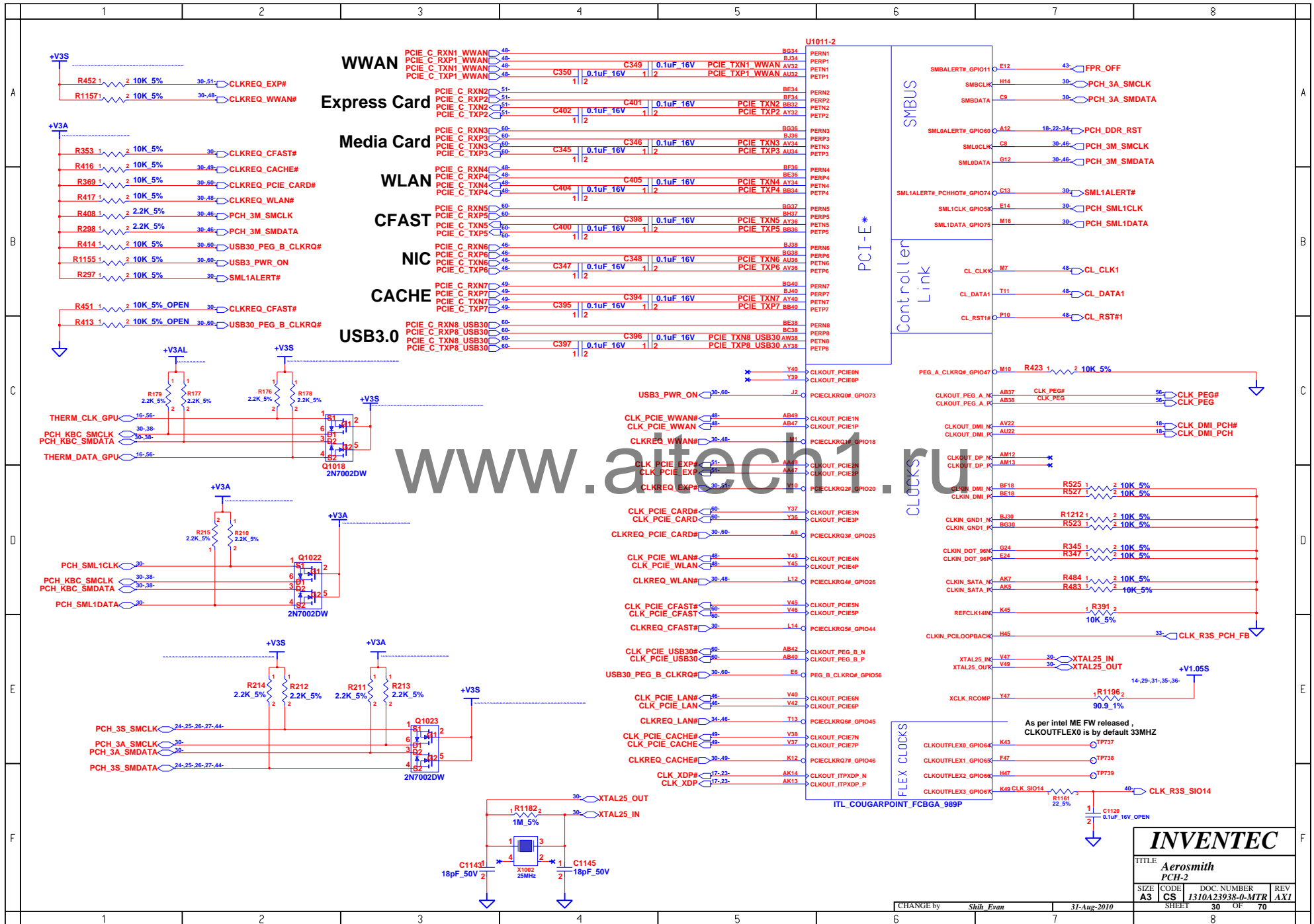
TITLE Aerosmith DDR3_SODIMM0(B)			
SIZE A3	CODE CS	DOC NUMBER 1310A23938-0-MTR	REV AXI
SHEET 26		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010

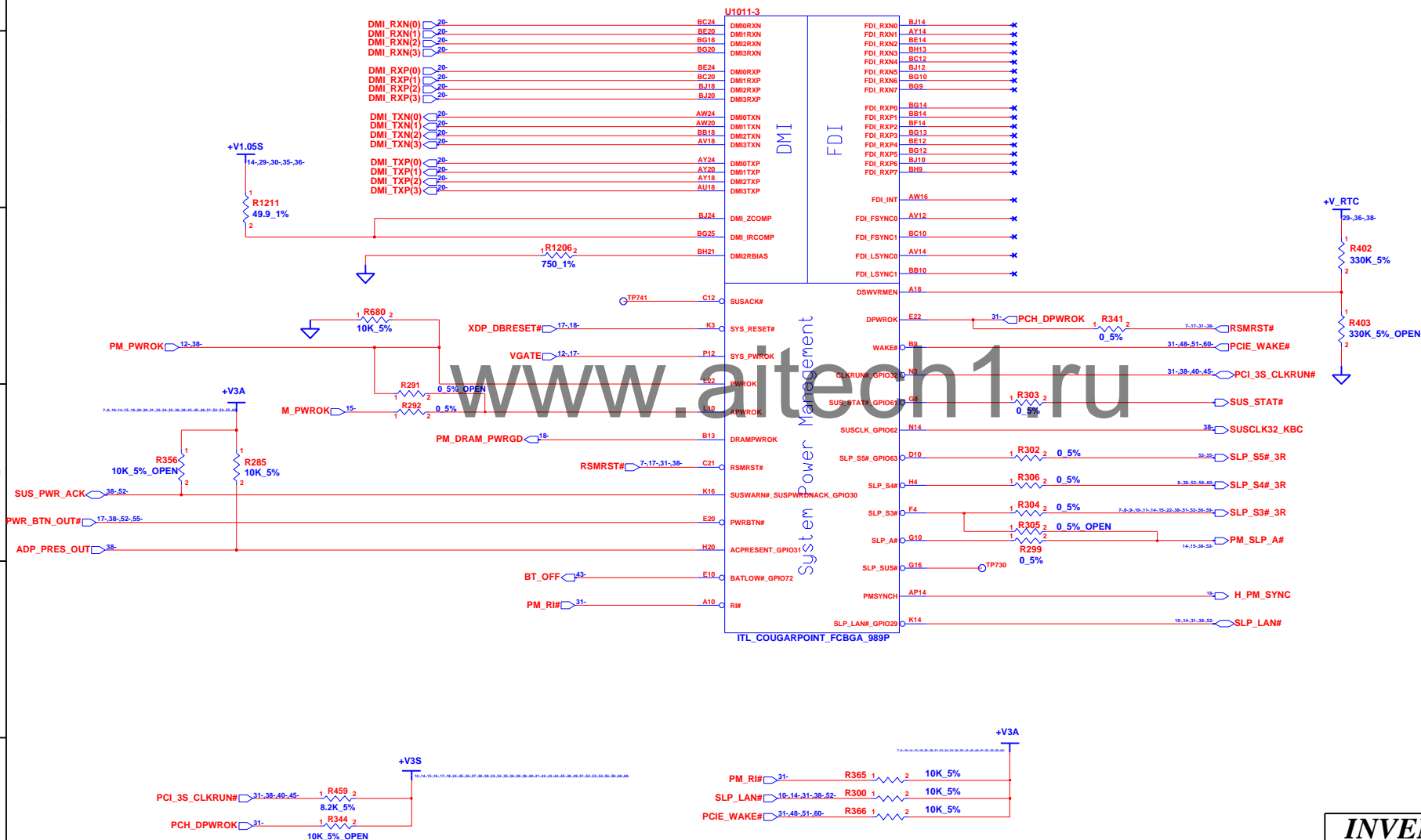
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B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE Aerosmith DDR3 VREF			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AX1
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 28		OF 70	





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



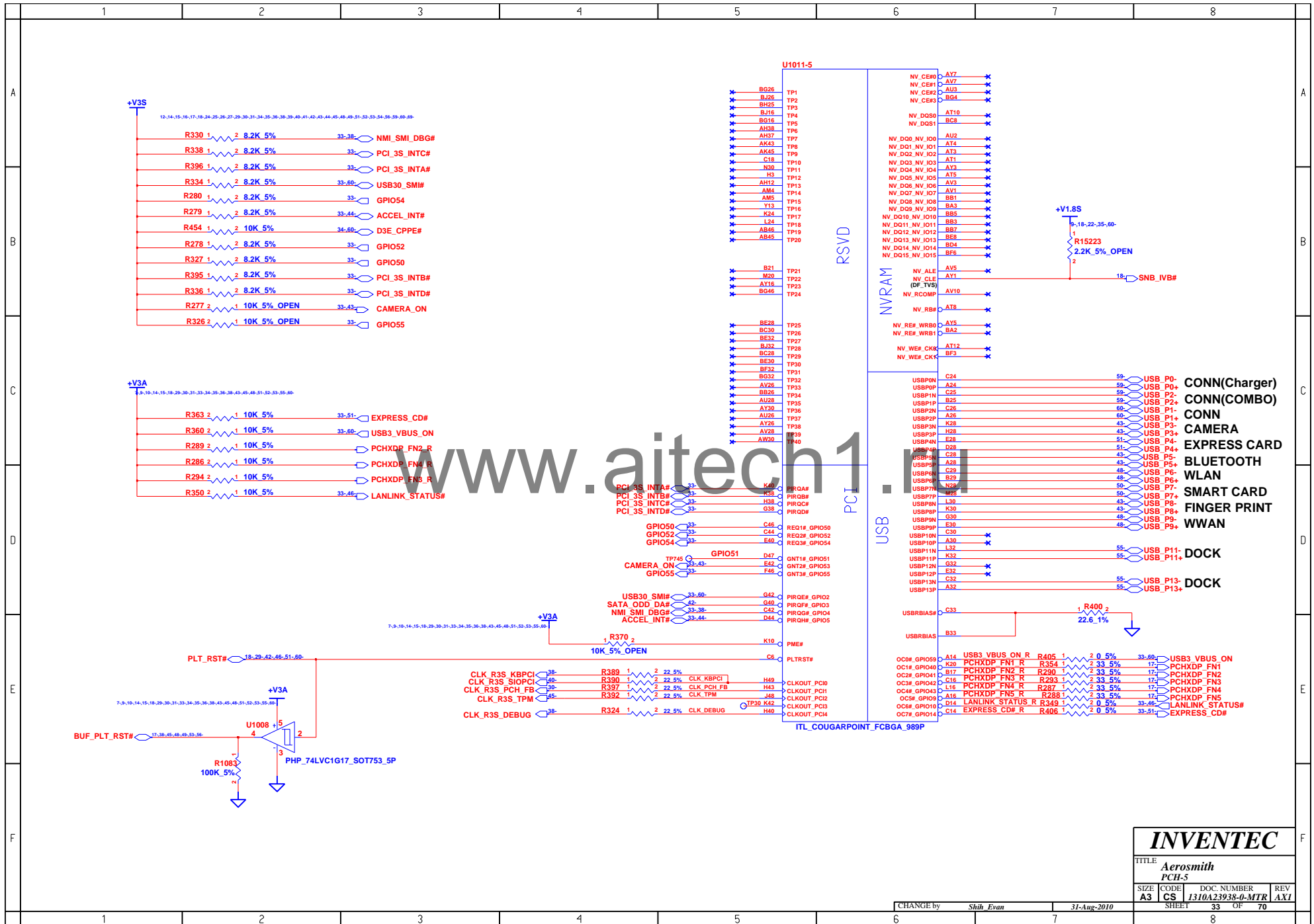
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TITLE
Aerosmith
PCH-3

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AXI

CHANGE by *Shih_Evan* 31-Aug-2010

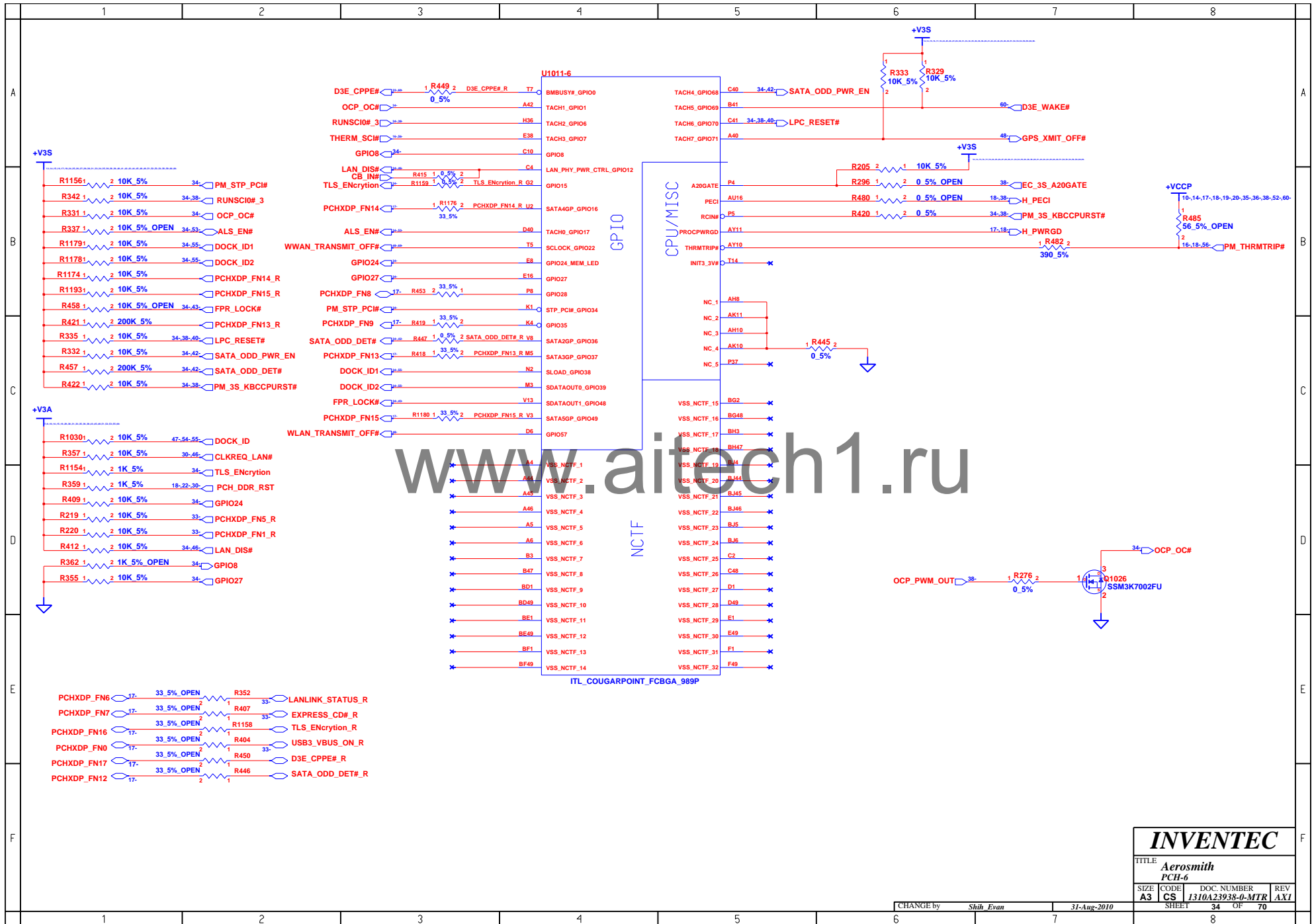
SHEET 31 OF 70



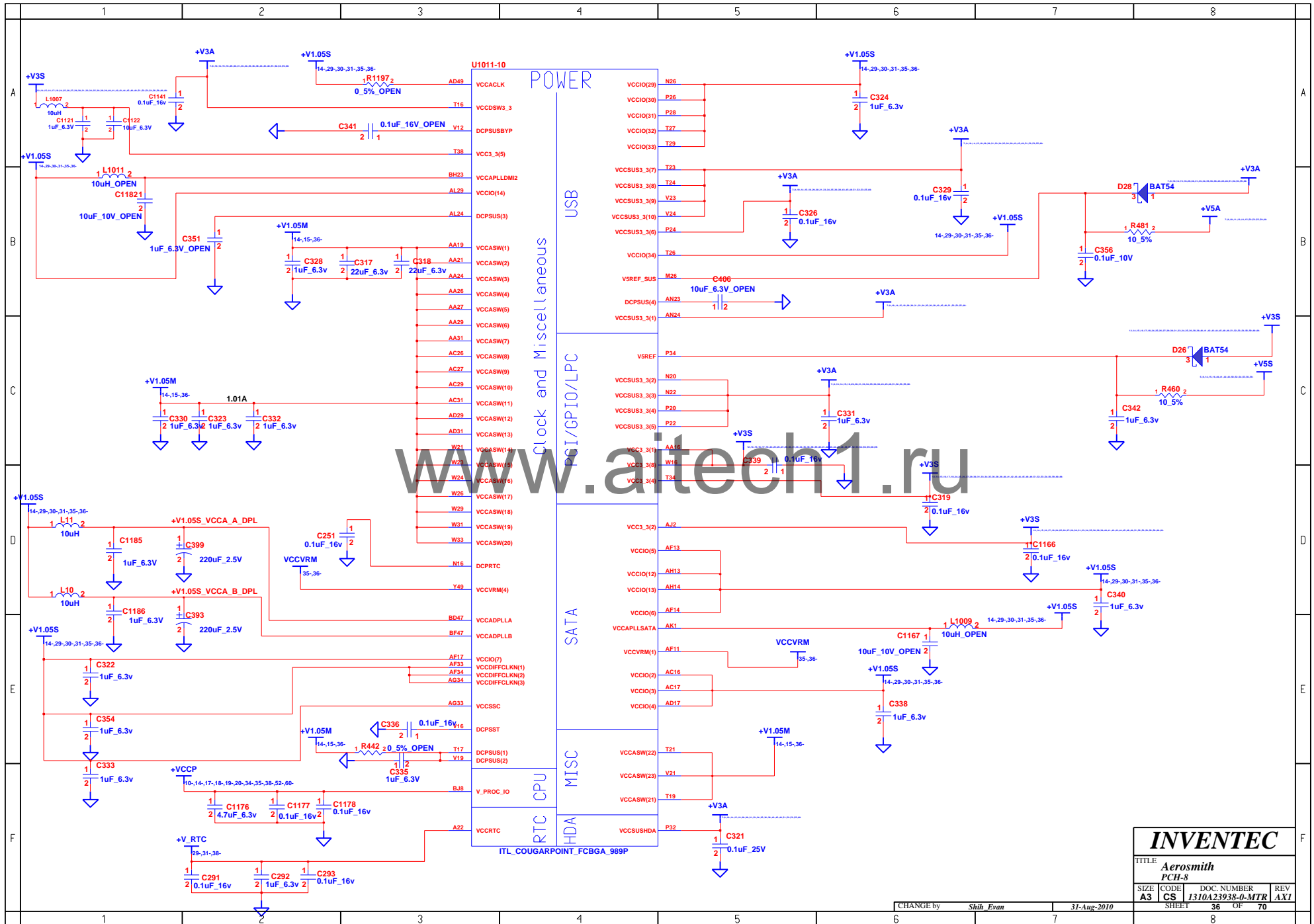
INVENTEC

TITLE Aerosmith PCH-5			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 33		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010







INVENTEC

TITLE Aerosmith PCH-8			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AX1
SHEET 36		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010

Diagram showing the pinout for the ITL COUGARPOINT_FCBGA_989P package, organized into columns 1 through 8.

Column 1: Pins AA17 through AK3.

Column 2: Pins VSS(1) through VSS(79).

Column 3: Pins AK38 through AY28.

Column 4: Pins VSS(80) through VSS(158).

Column 5: Pins AY42 through F3.

Column 6: Pins VSS(159) through VSS(352).

Column 7: Pins H46 through B128.

Column 8: Pins K18 through B128.

Legend:

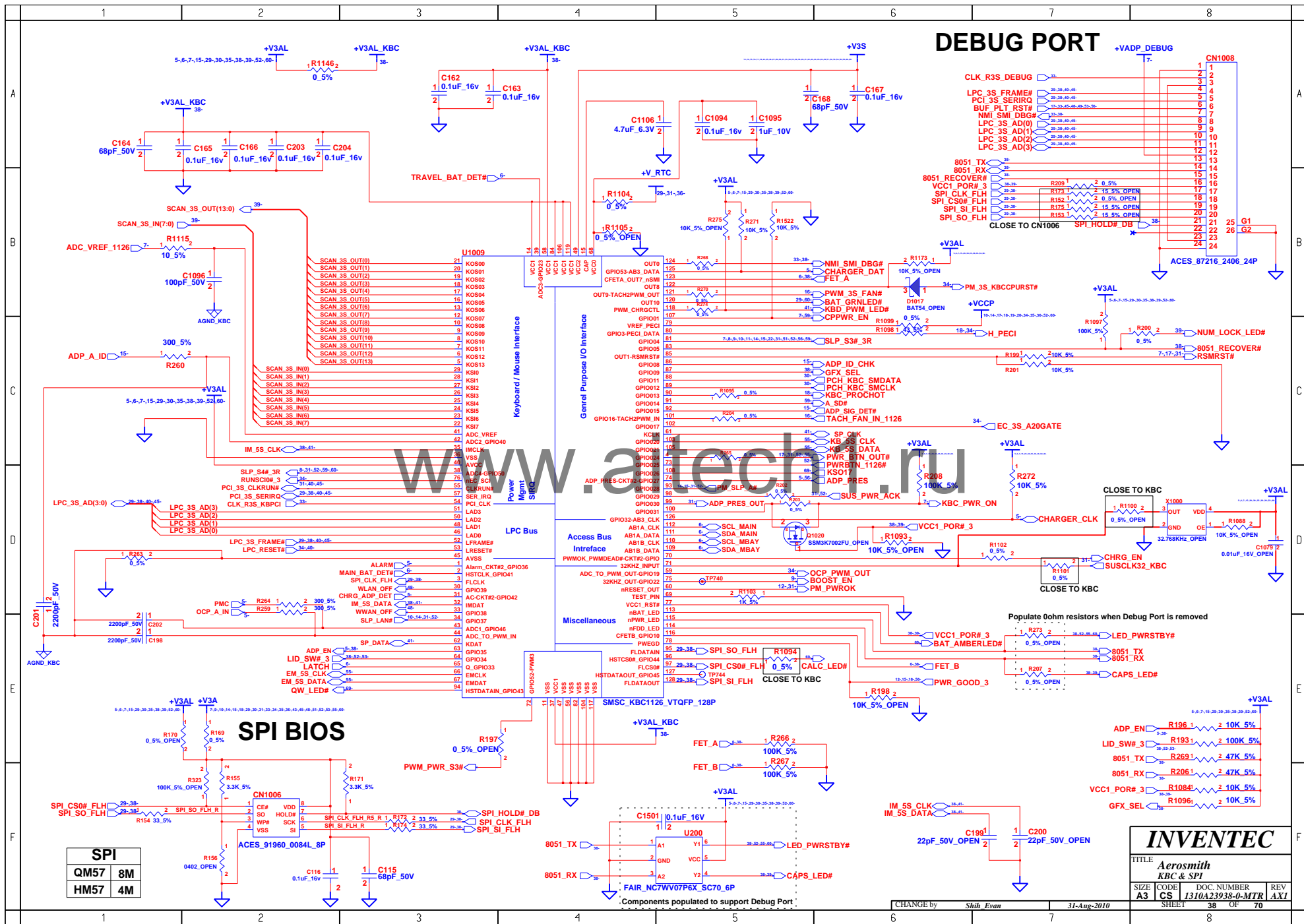
- ITL COUGARPOINT_FCBGA_989P
- ITL COUGARPOINT_FCBGA_989P

INVENTEC

TITLE Aerosmith
PCH-9

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AX1

CHANGE by Shih, Evan **31-Aug-2010** **SHEET** 87 **OF** 70

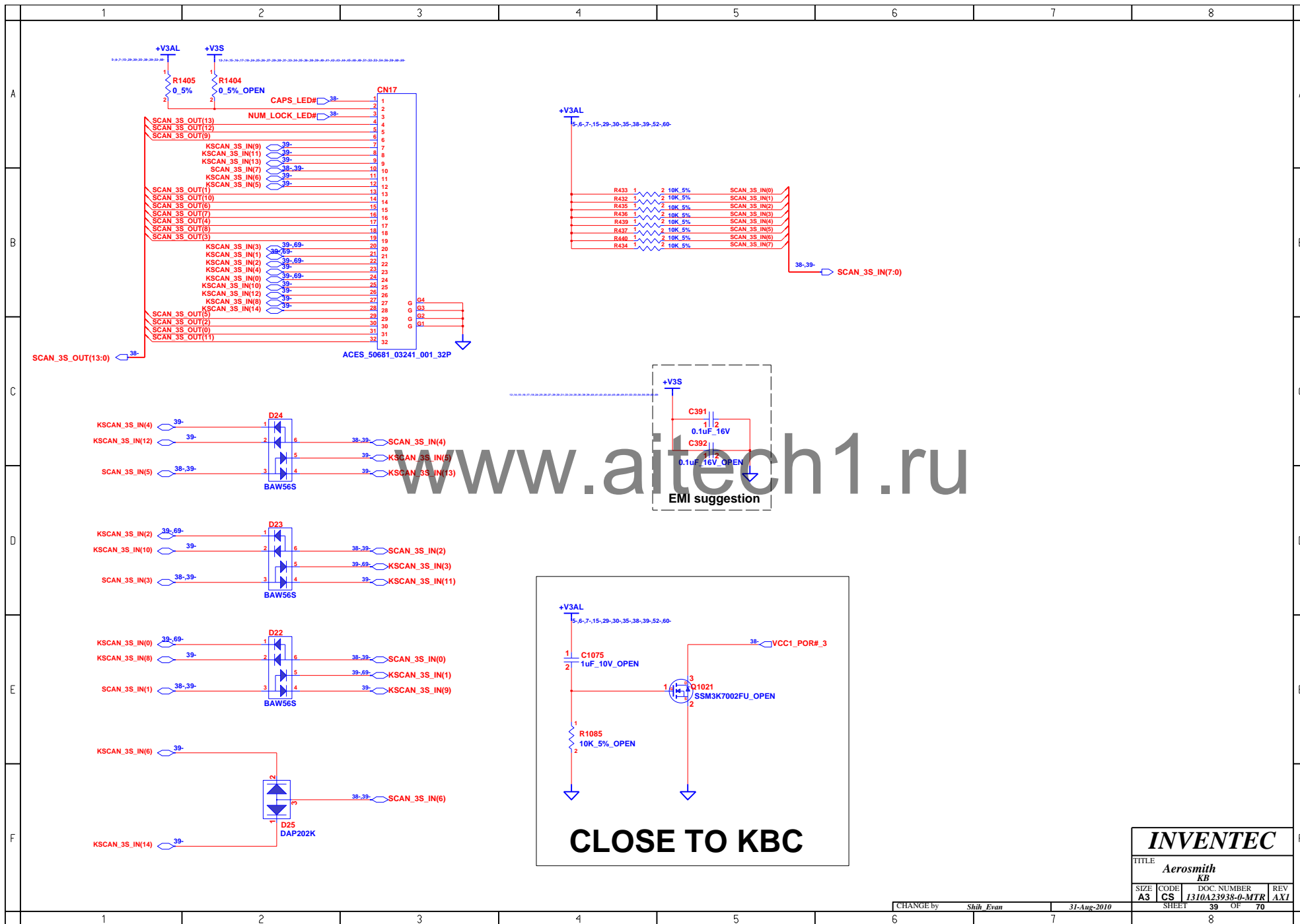


SPI	
QM57	8M
HM57	4M

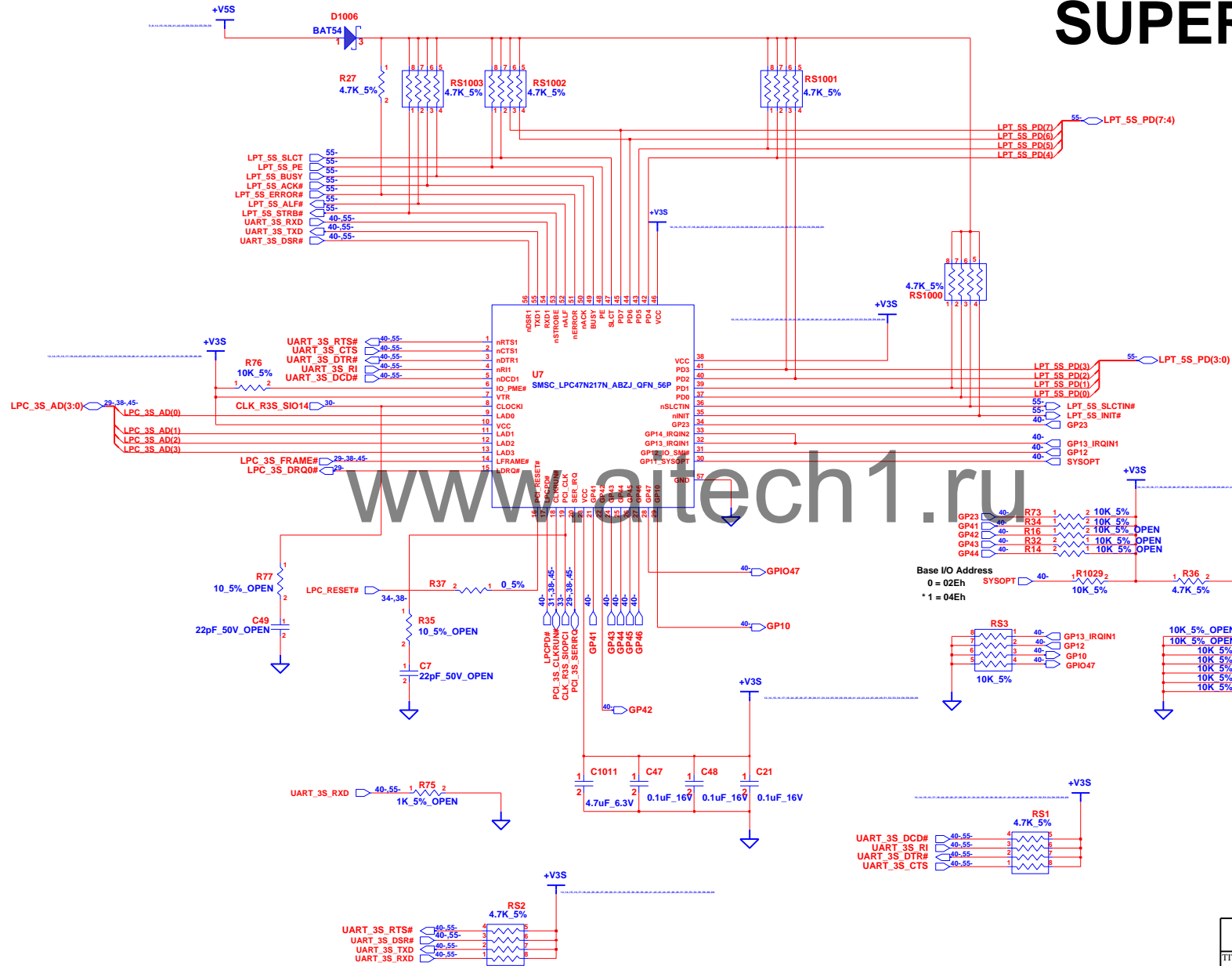
Components populated to support Debug Port

CHANGE by *Shih_Evan* 31-Aug-2010

INVENTEC			
TITLE Aerosmith KBC & SPI			
SIZE A3	CODE CS	DOC NUMBER 1310A23938-0-MTR	REV AX1
SHEET 38		OF 70	



SUPER I/O



INVENTEC

TITLE Aerosmith SUPER I/O			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 40		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010

KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

KEYBOARD_LIGHT_CNTR

www.aitech1.ru

STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by		Shih_Evan	31-Aug-2010
SHEET		41	OF 70

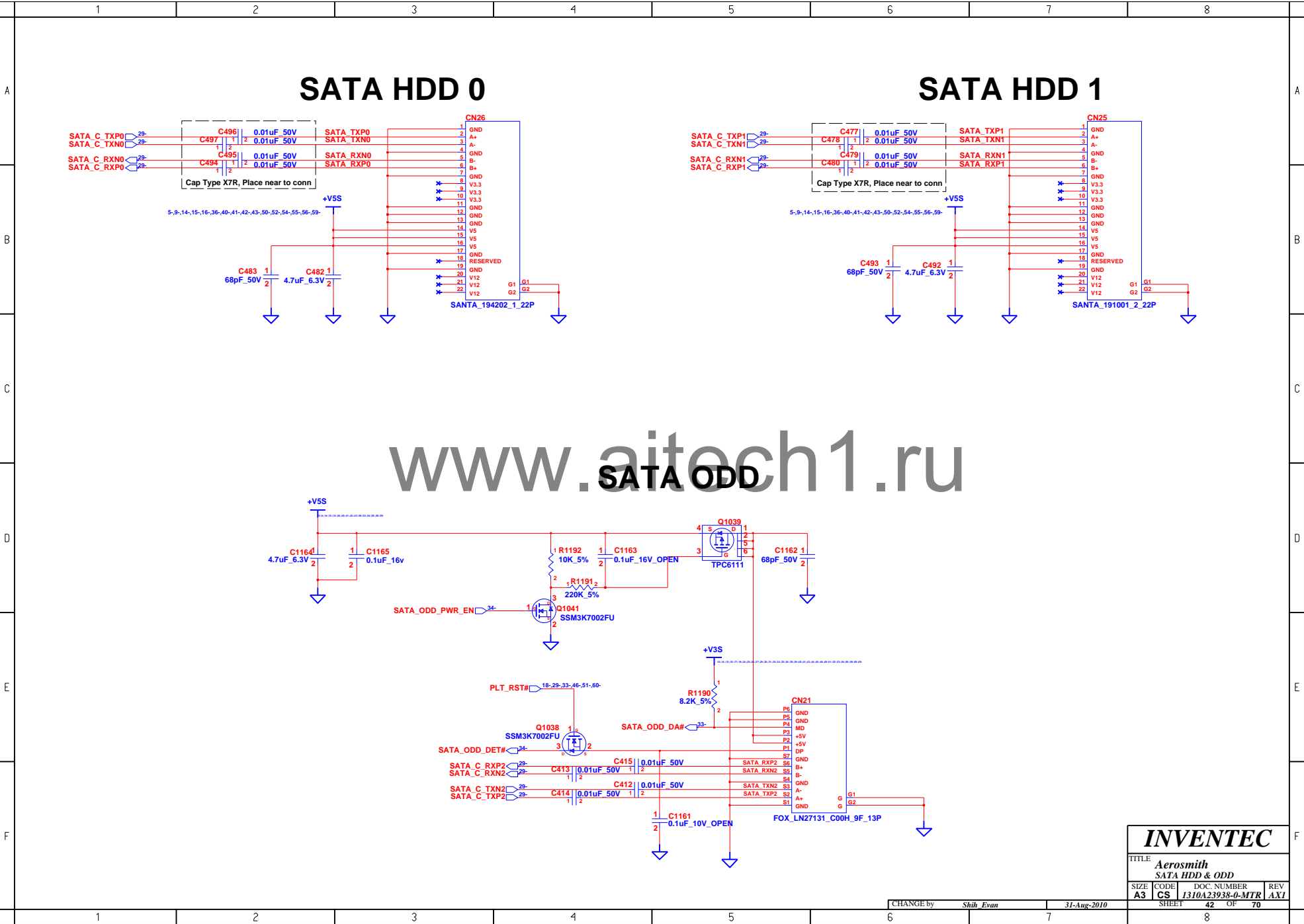
KEYBOARD_LIGHT_CNTR

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STICK POINT

TOUCH PAD

INVENTEC			
TITLE Aerosmith KEYBOARD BACKLIGHT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23938-0-MTR	AX1
CHANGE by Shih Evan		31-Aug-2010	SHEET 41 OF 70

[illegible][illegible][illegible][illegible]

SATA HDD 0

SATA HDD 1

SATA ODD

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INVENTEC
Aerosmith
SATA HDD & ODD

CHANGE by Shih Evan 31-Aug-2010

SHEET 42 OF 70

SATA HDD 0

SATA HDD 1

SATA ODD

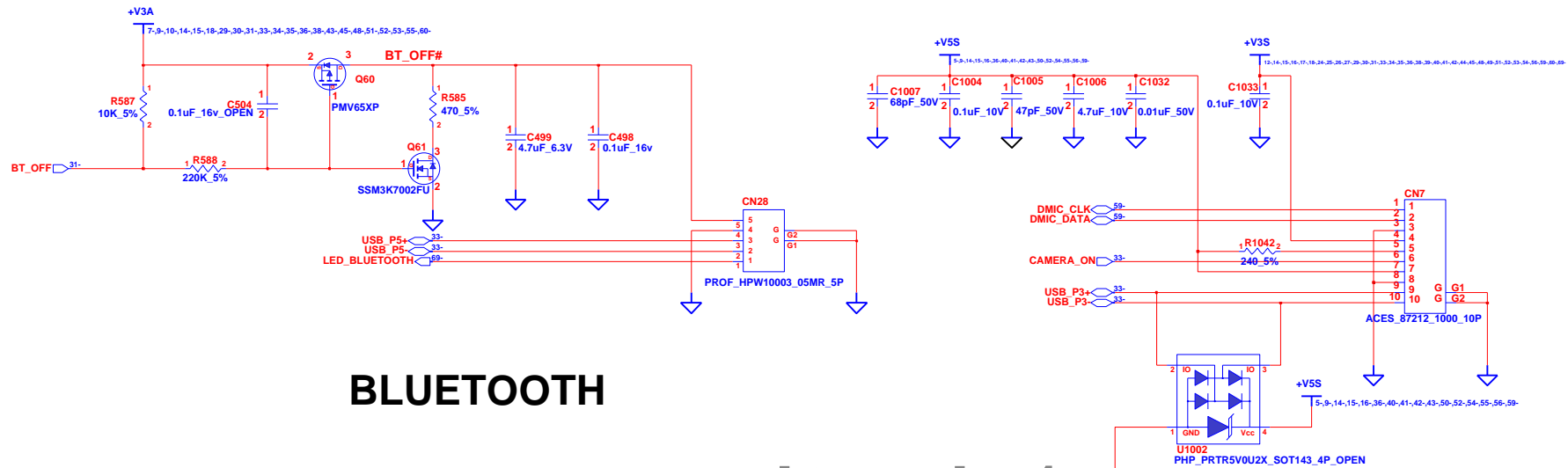
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INVENTEC
Aerosmith
SATA HDD & ODD

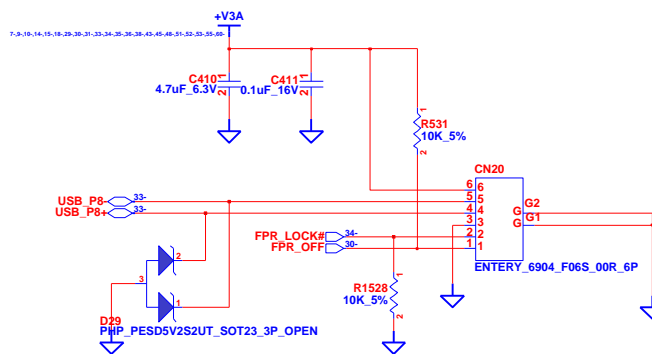
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SHEET 42 OF 70

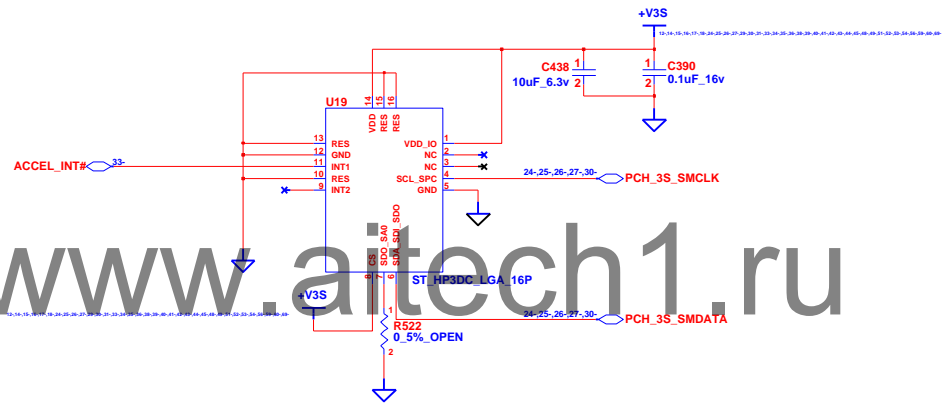
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INVENTEC			
TITLE Aerosmith BT & FP			
SIZE A3	CODE CS	DOC. NUMBER J310A23938-0-MTR	REV AXI
CHANGE by Shih_Evan		31-Aug-2010	
		SHEET 43	OF 70

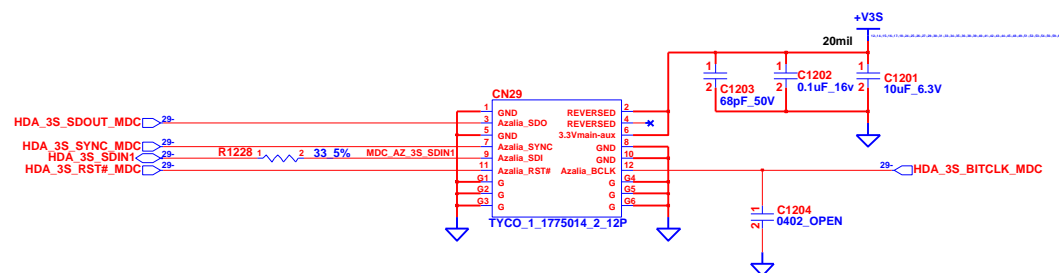
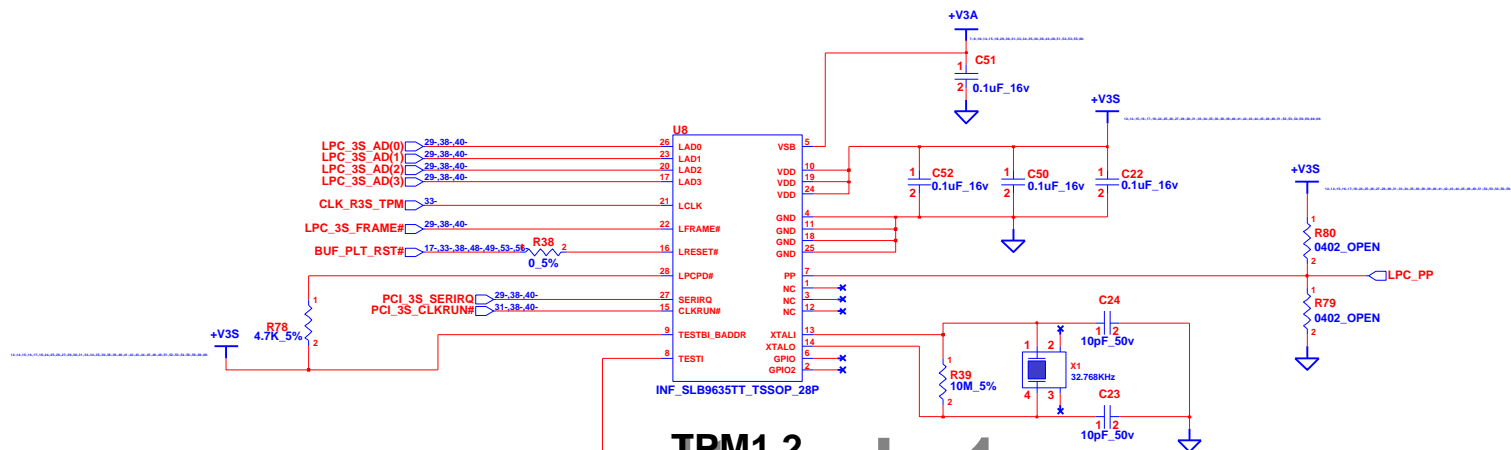


ACCELEROMETER

INVENTEC

TITLE			
Aerosmith ACCELEROMETER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AXI
SHEET		44	OF 70

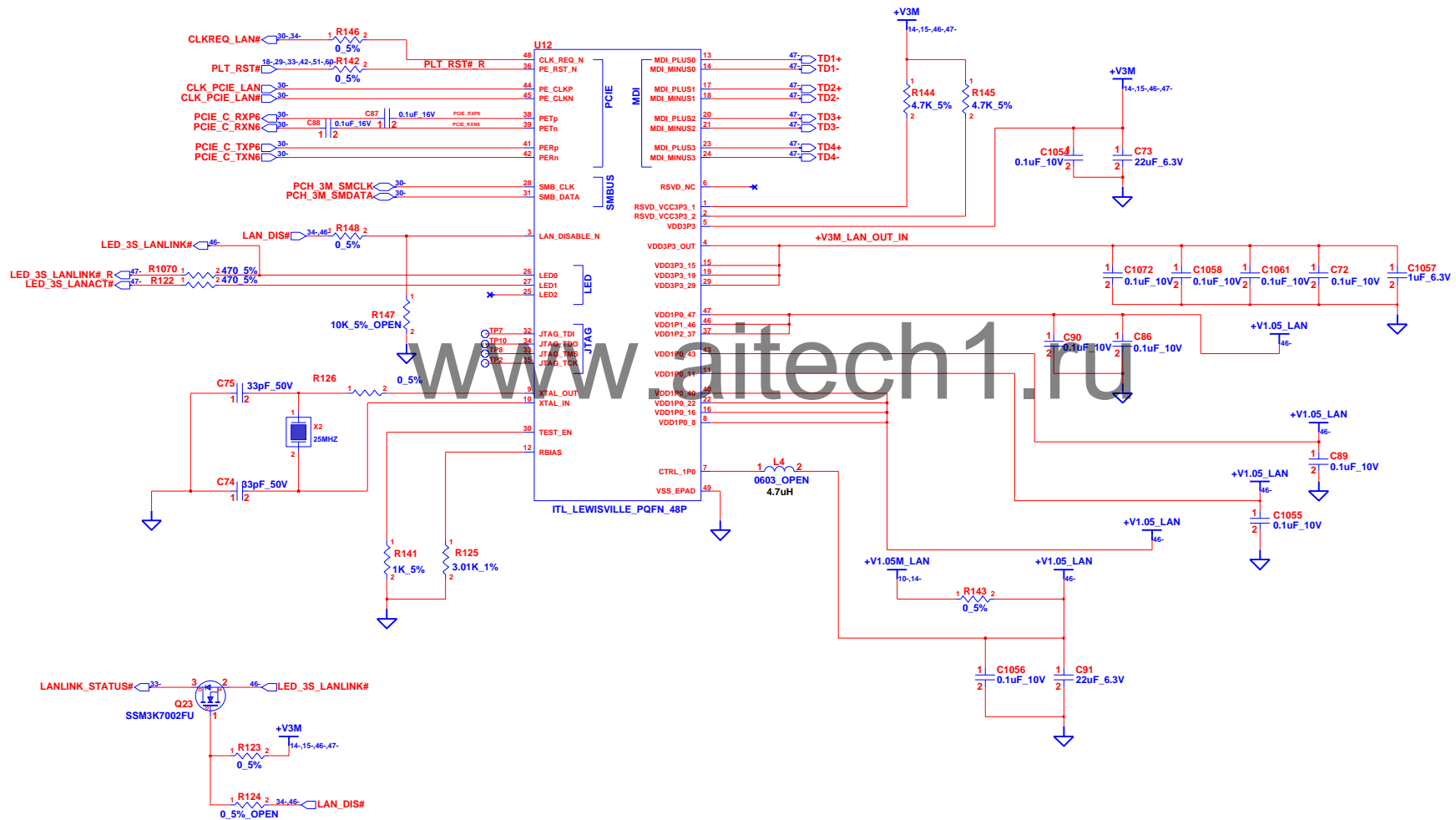
CHANGE by *Shih_Evan* 31-Aug-2010



MDC CONN

INVENTEC			
TITLE Aerosmith TPM & MDC			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 45		OF 70	

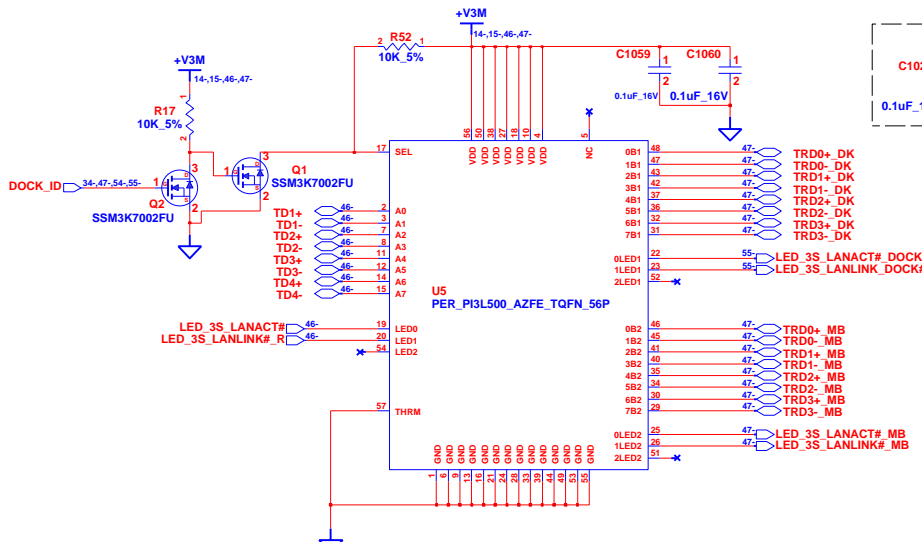
LAN PHY



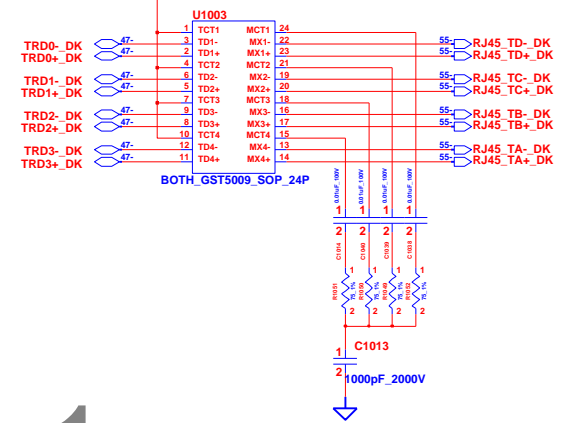
INVENTEC

TITLE Aerosmith LAN INTERFACE			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 46		OF 70	

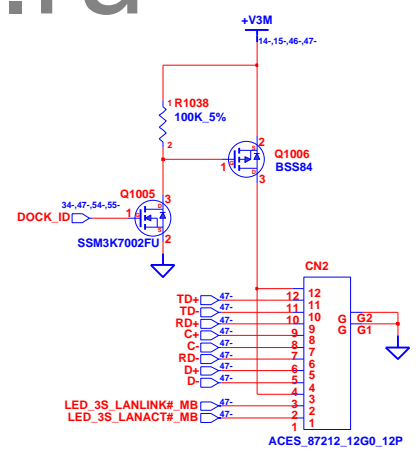
CHANGE by *Shih_Evan* 31-Aug-2010



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



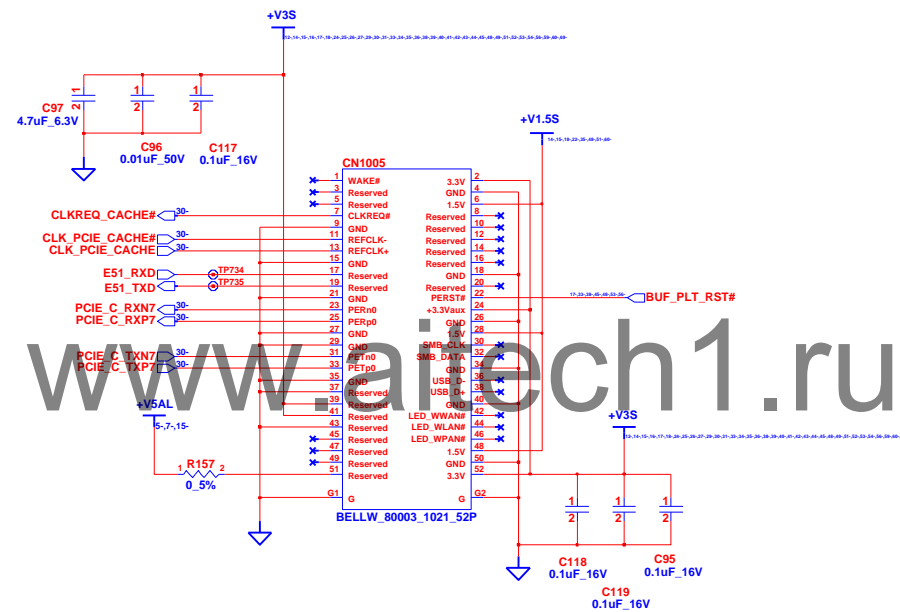
LAYOUT NOTE:
To place one 0.1uF at each pin 1 , 4 , 7 , 10
and place the 1uF in the spot that
is as close as possible to all 4 pins



RJ45 CNTR

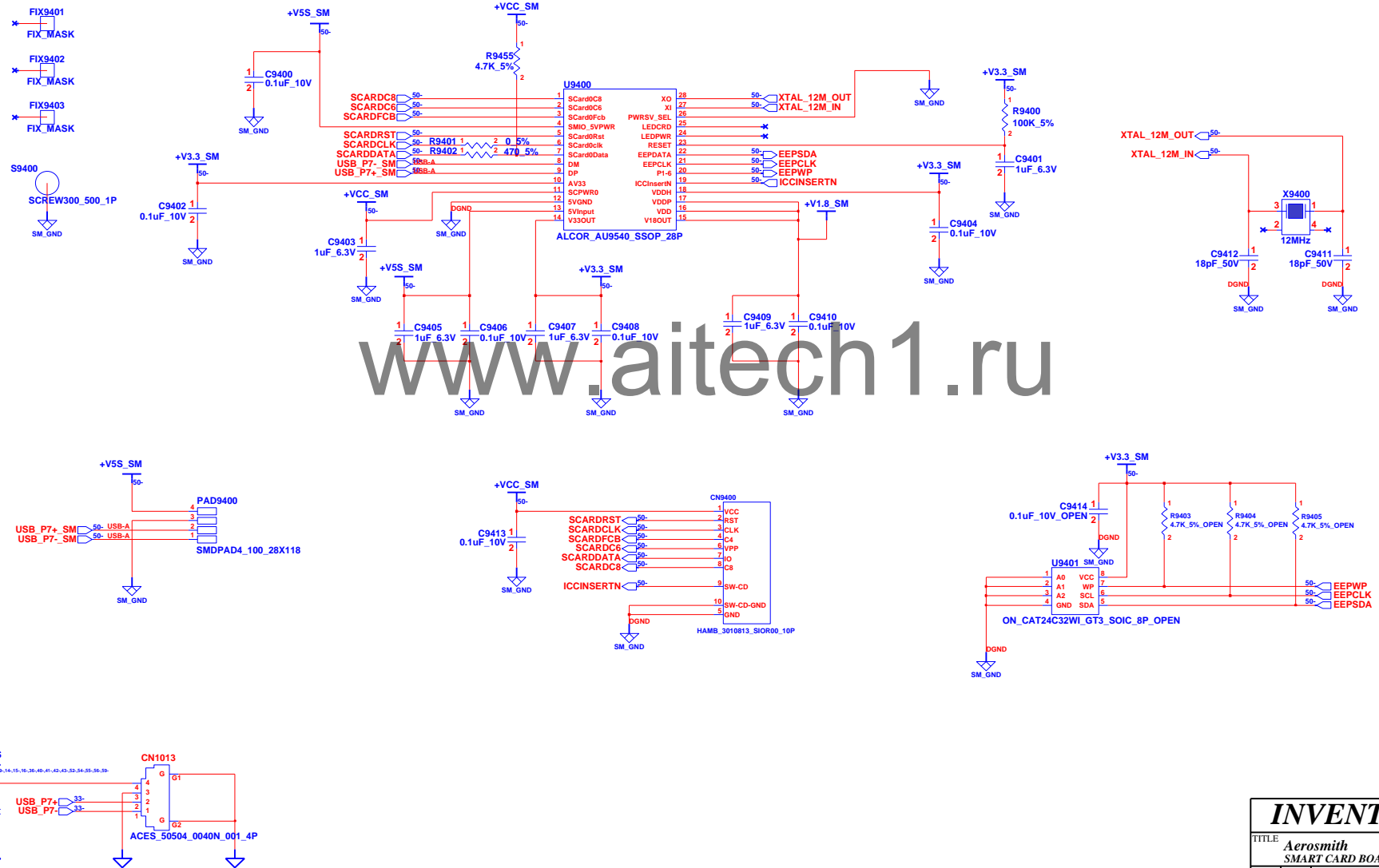
INVENTEC			
TITLE Aerosmith LAN RJ45 CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AX1
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 47		OF 70	

Flash Cache--Mini Card



INVENTEC				
TITLE Aerosmith FLASH CACHE				
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI	
CHANGE by Shih_Evan		31-Aug-2010		
SHEET 49		OF 70		

Smart Card Board

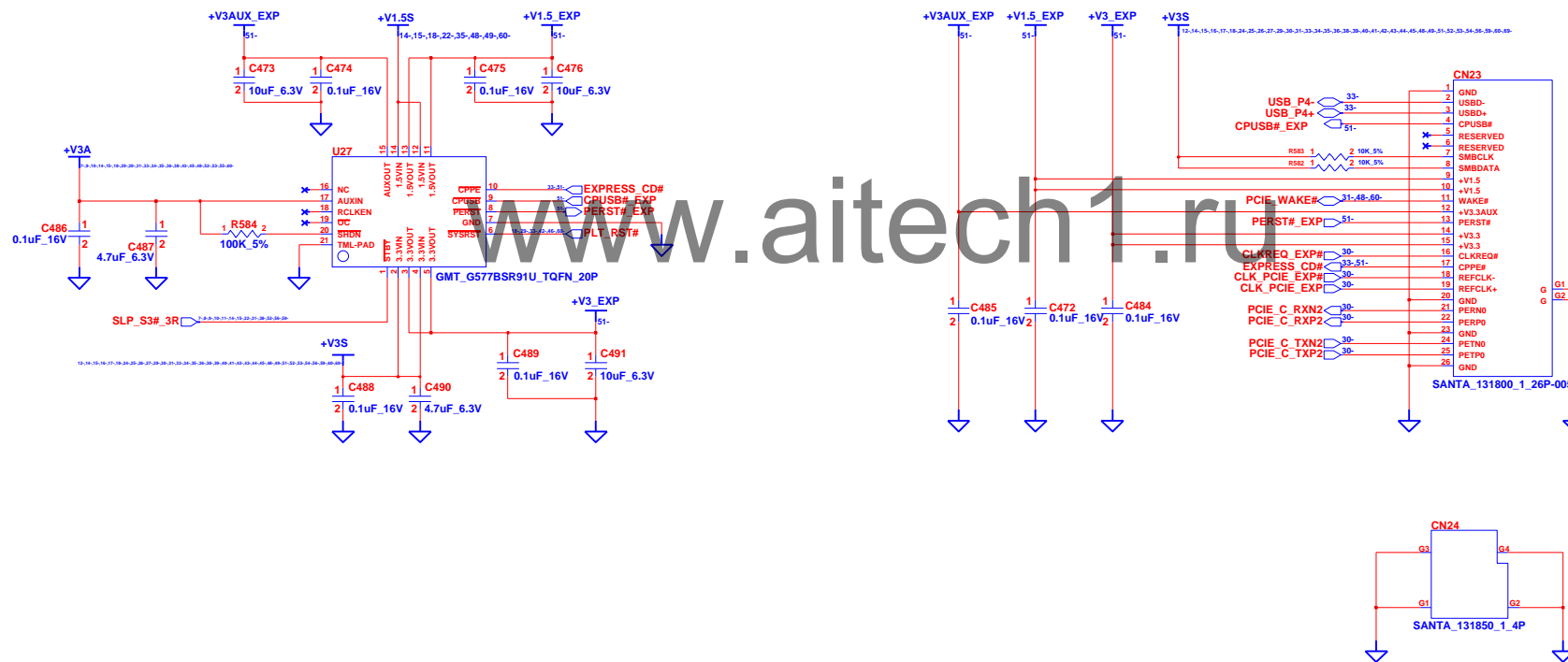


INVENTEC

TITLE Aerosmith SMART CARD BOARD			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 50		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010

EXPRESS CARD

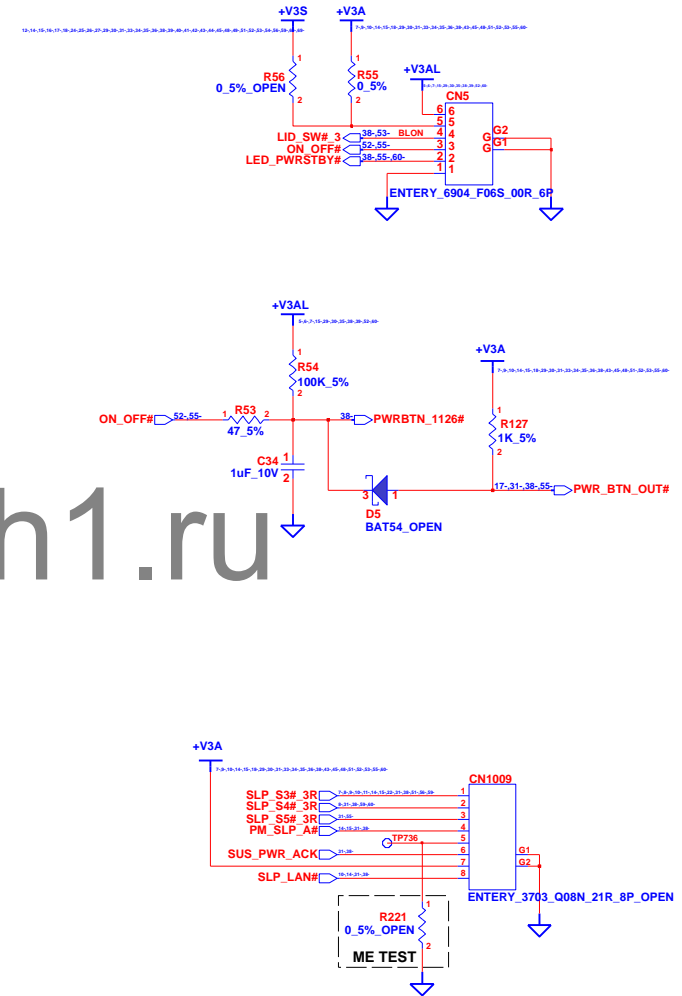
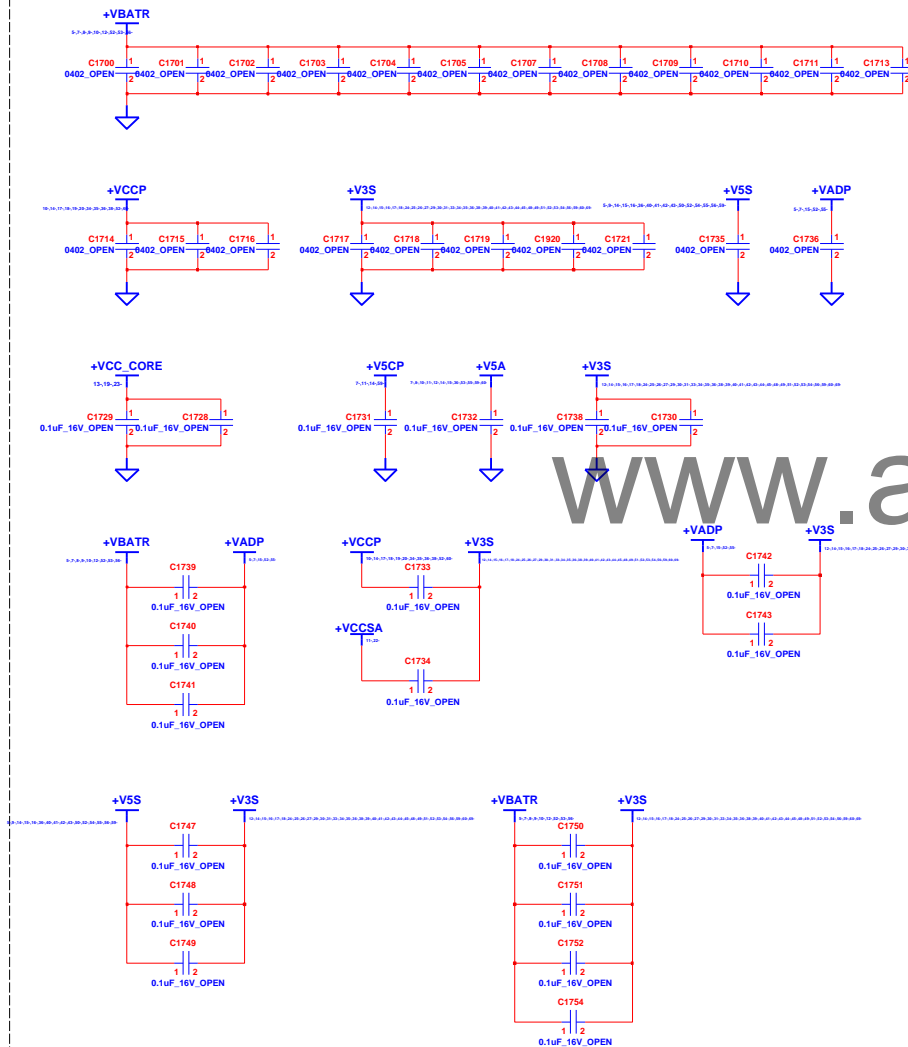


INVENTEC

TITLE			
Aerosmith EXPRESS CARD & LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AXI
SHEET		51	OF 70

CHANGE by *Shih_Evan* 31-Aug-2010

RF & EMI SOLUTION



www.aitech1.ru

INVENTEC

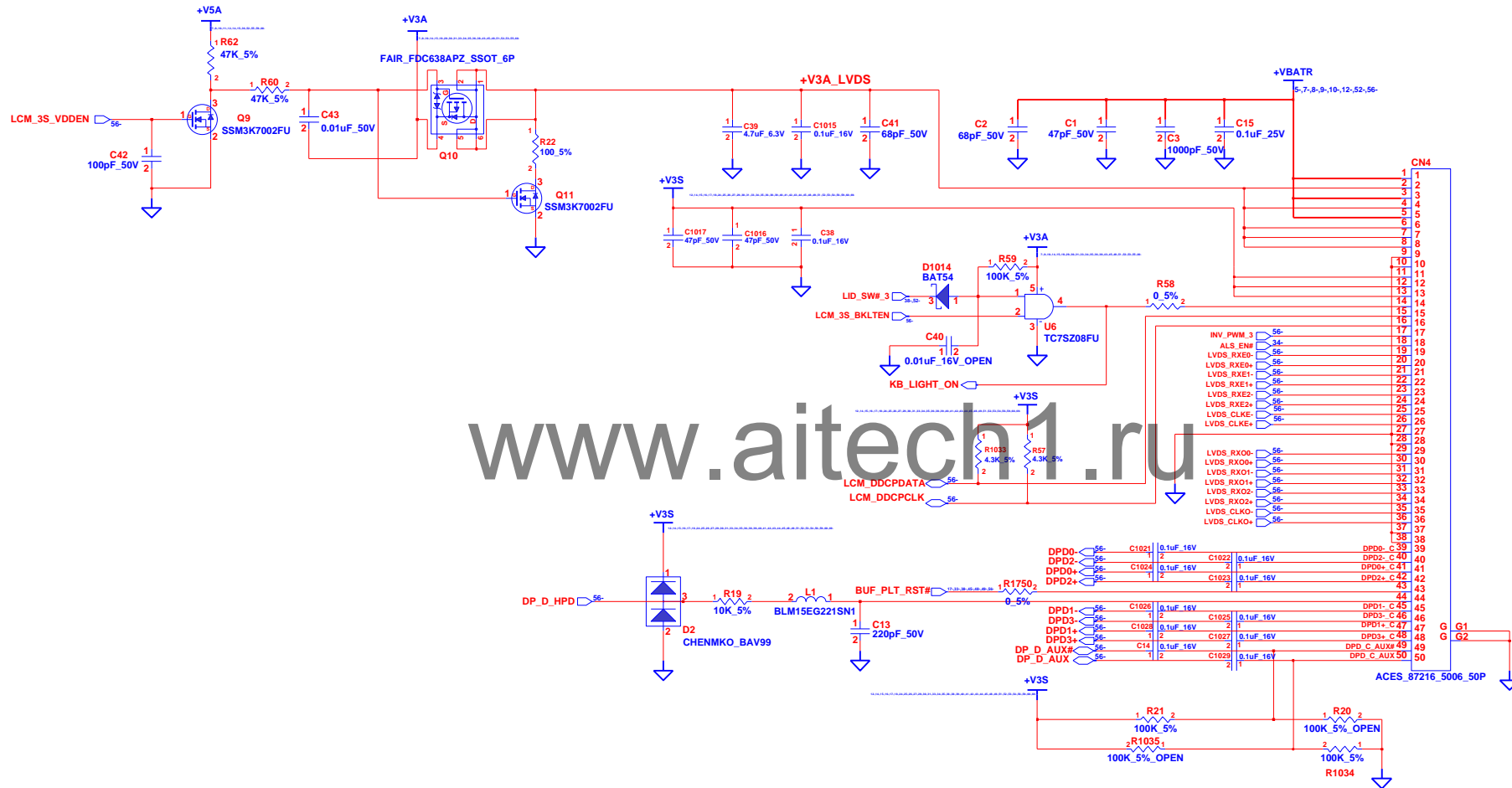
TITLE
Aerosmith

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AXI

CHANGE by *Shih_Evan* 31-Aug-2010

SHEET 52 OF 70

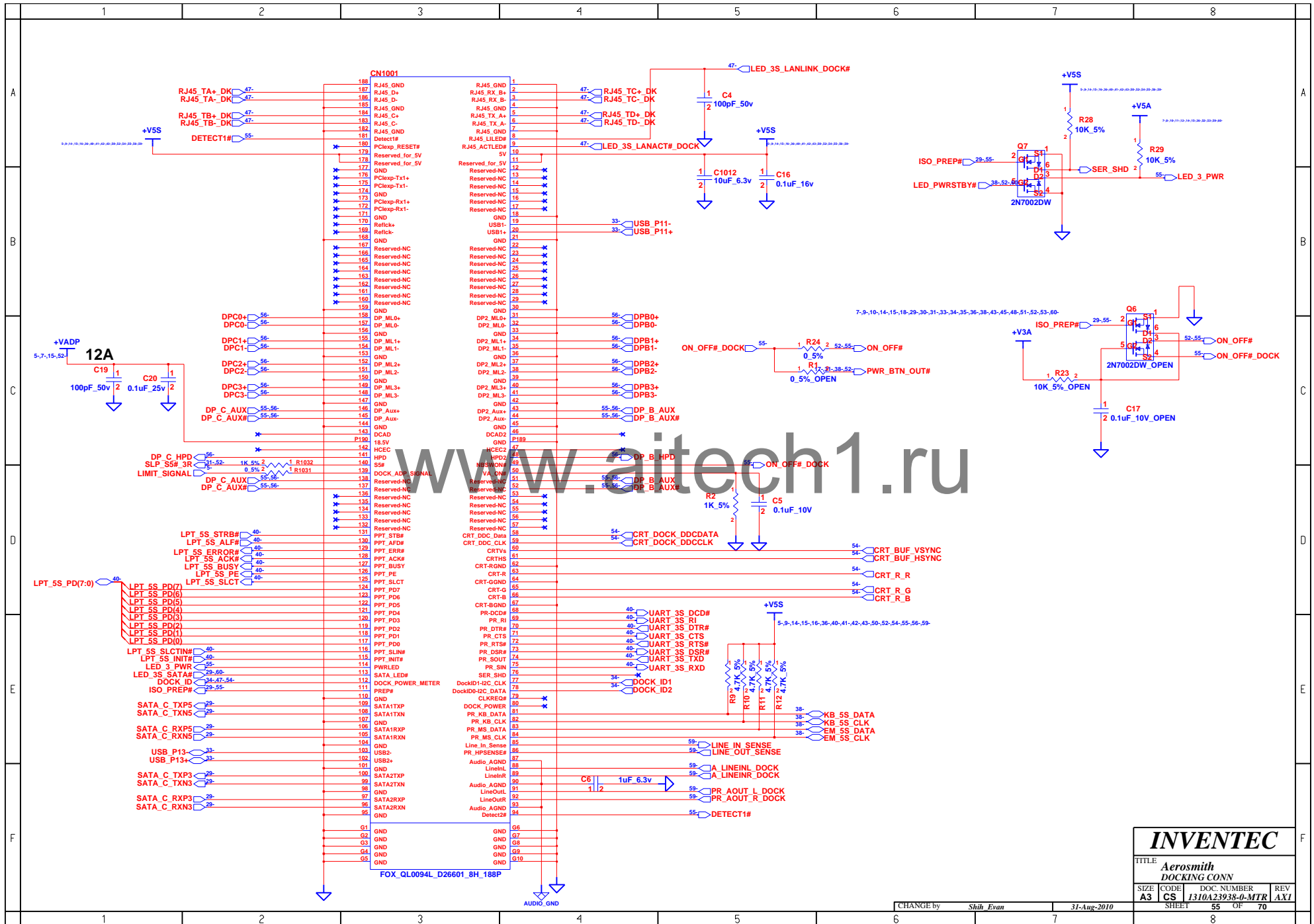
Integrated Panel

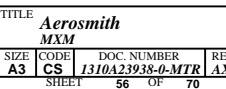


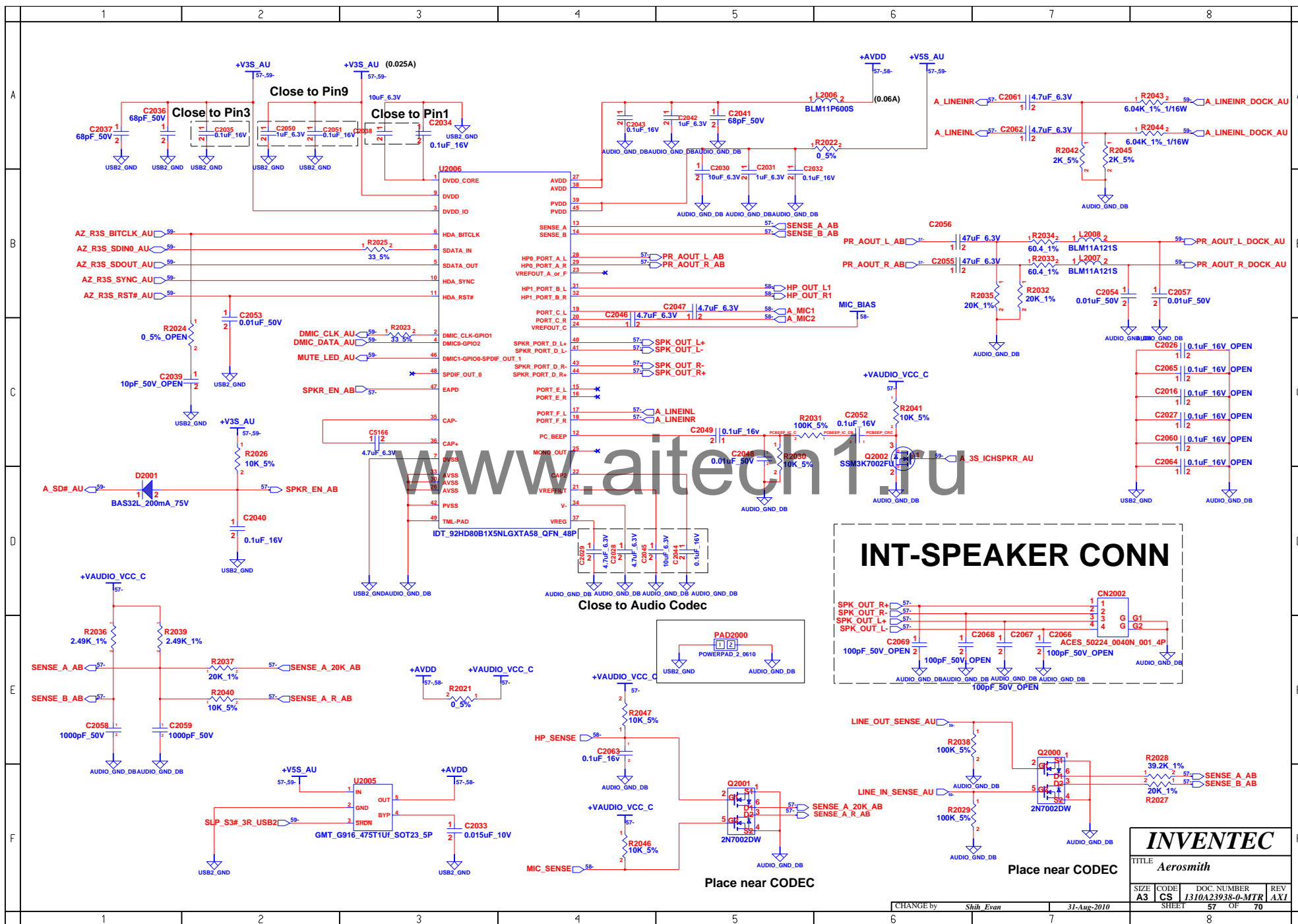
www.aitech1.ru

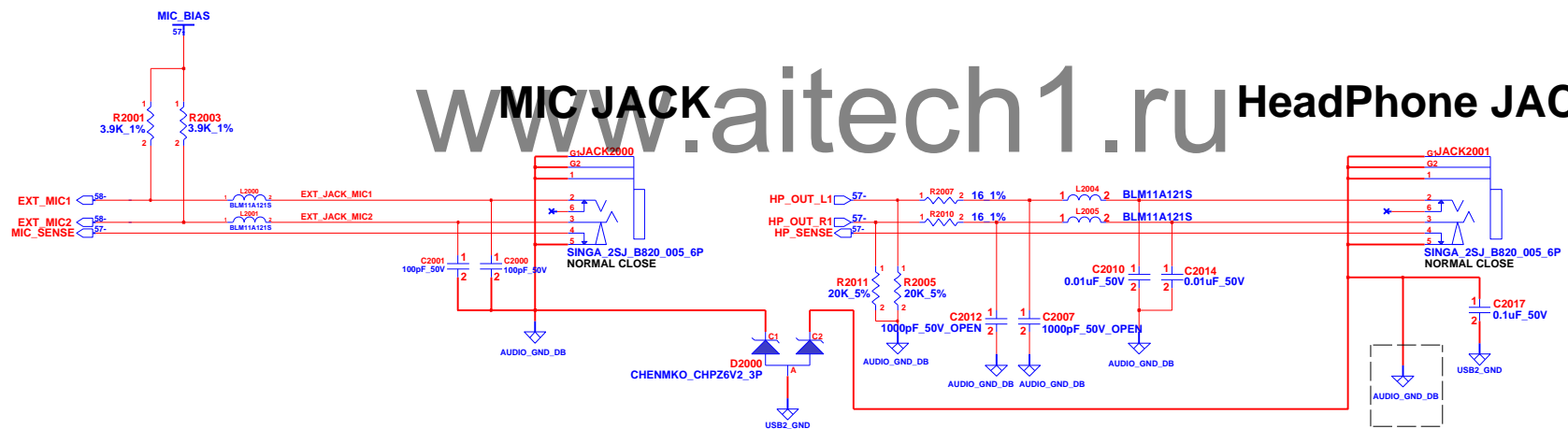
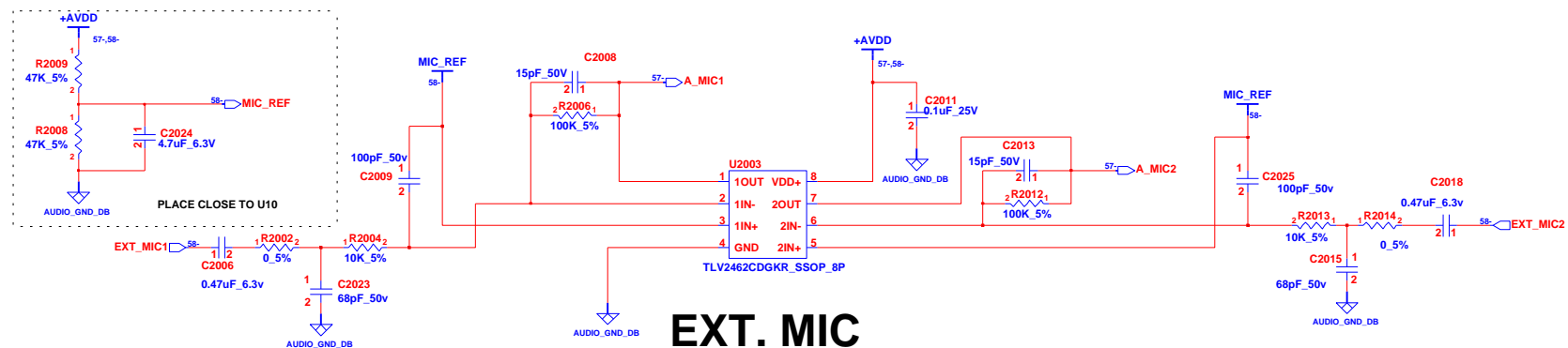
INVENTEC

TITLE Aerosmith LCM			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 53		OF 70	







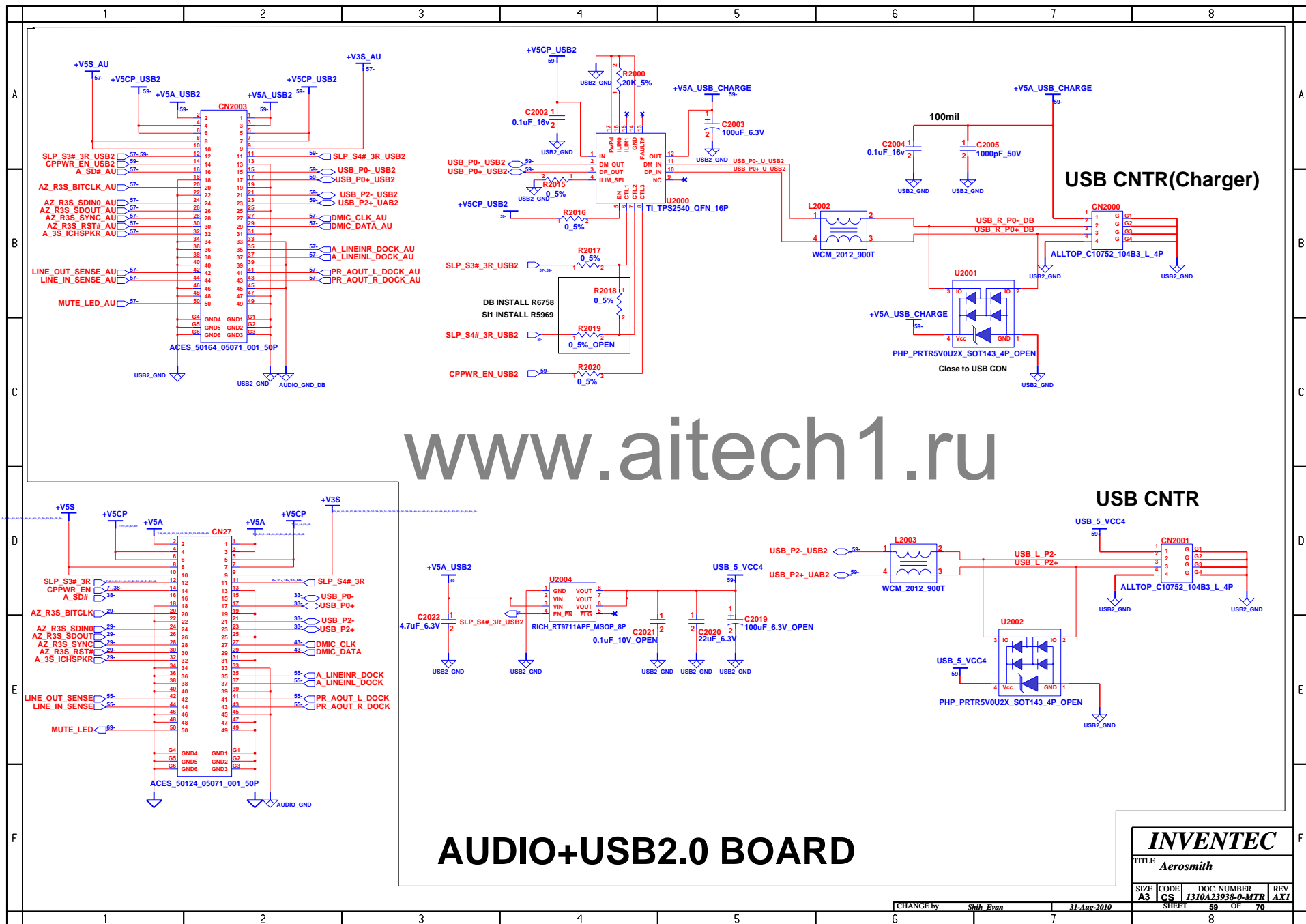


AUDIO & USB2.0 BOARD

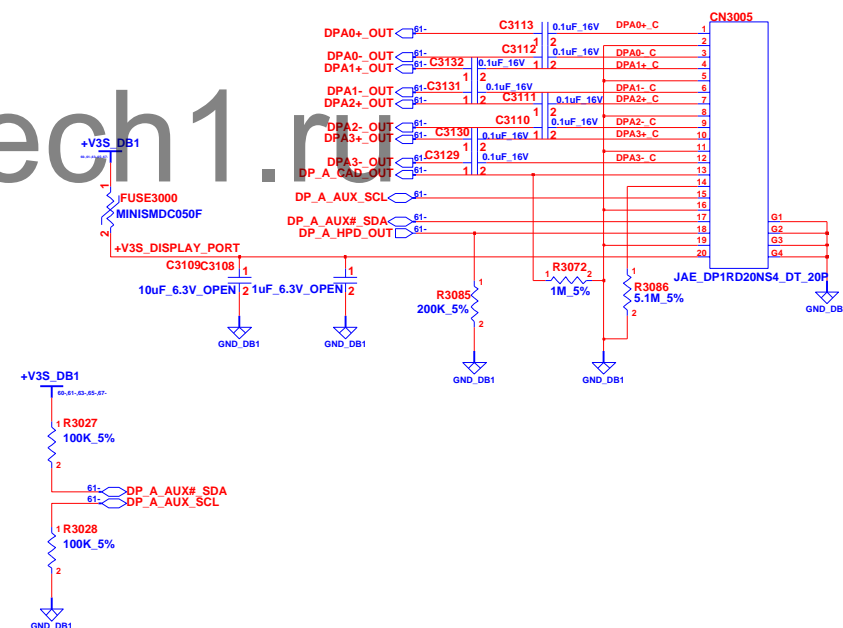
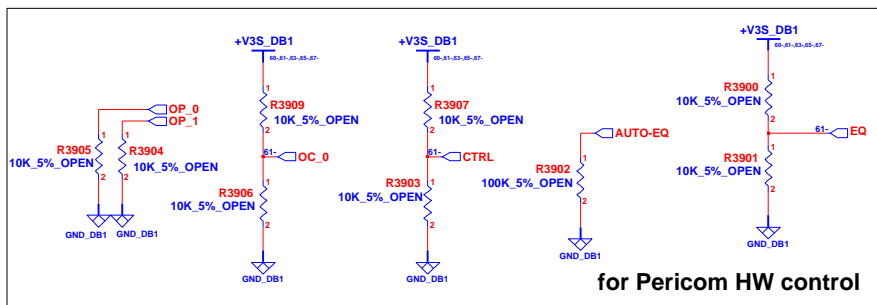
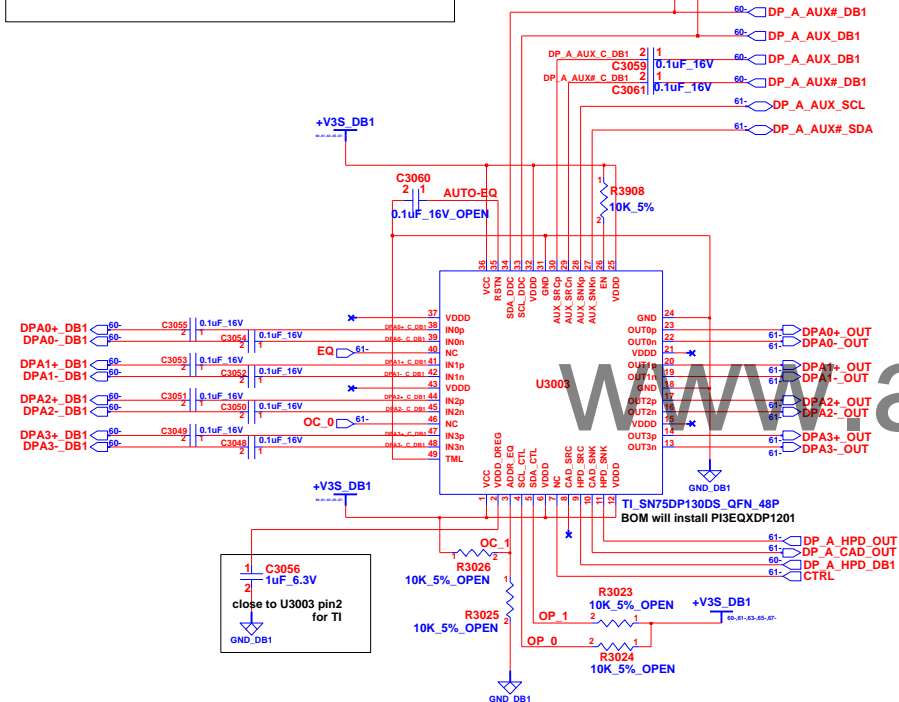
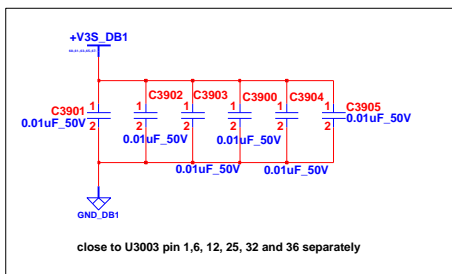
INVENTEC

TITLE Aerosmith AUDIO-2			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 58		OF 70	

CHANGE by *Shih_Evan* 31-Aug-2010



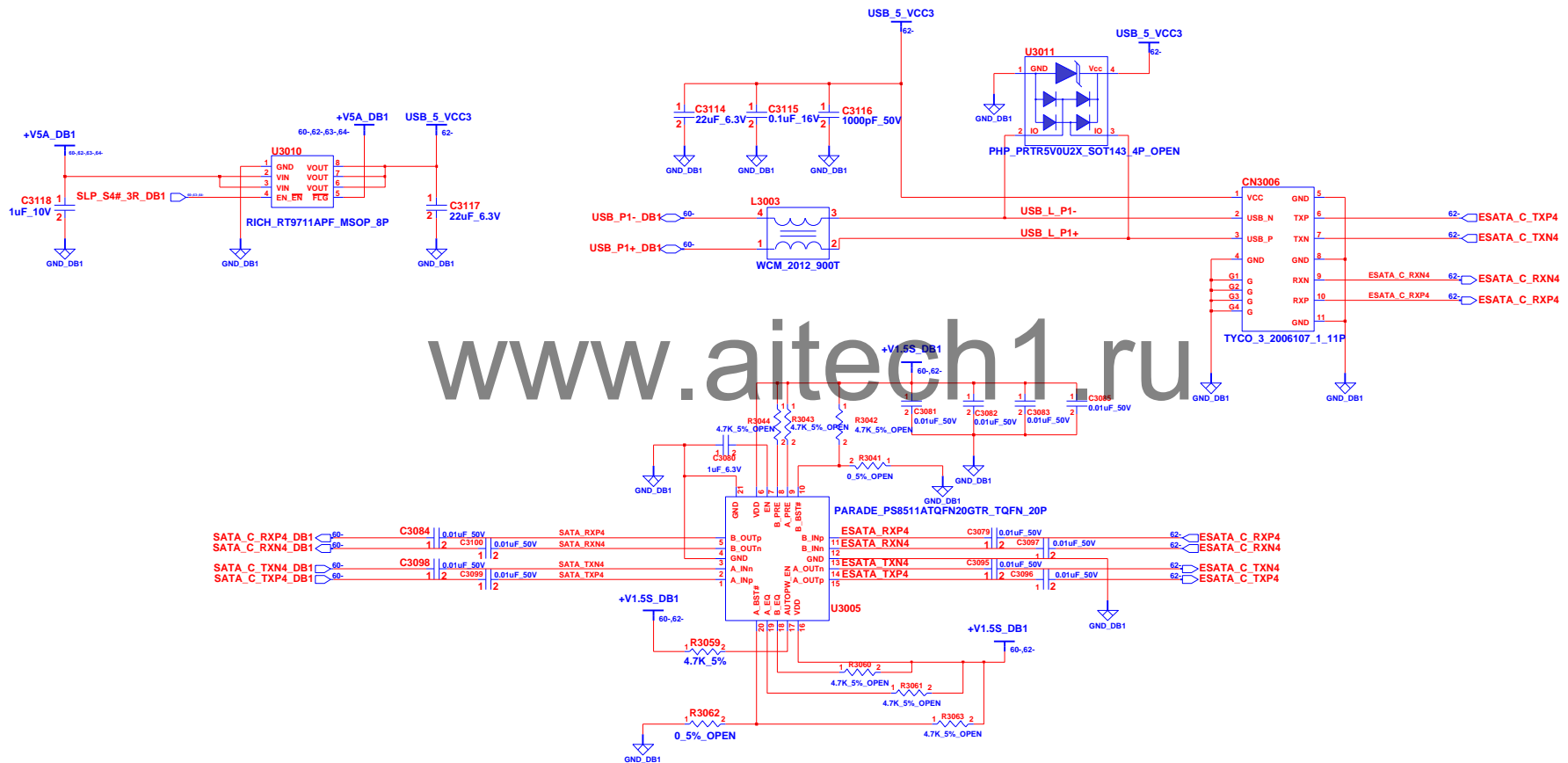
DISPLAY PORT



DAUGHTER BOARD 1

INVENTEC			
TITLE Aerosmith DISPLAY PORT			
SIZE A3	CODE CS	DOC NUMBER 1310A23938-0-MTR	REV AXI
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 61		OF 70	

USB & eSATA Combo



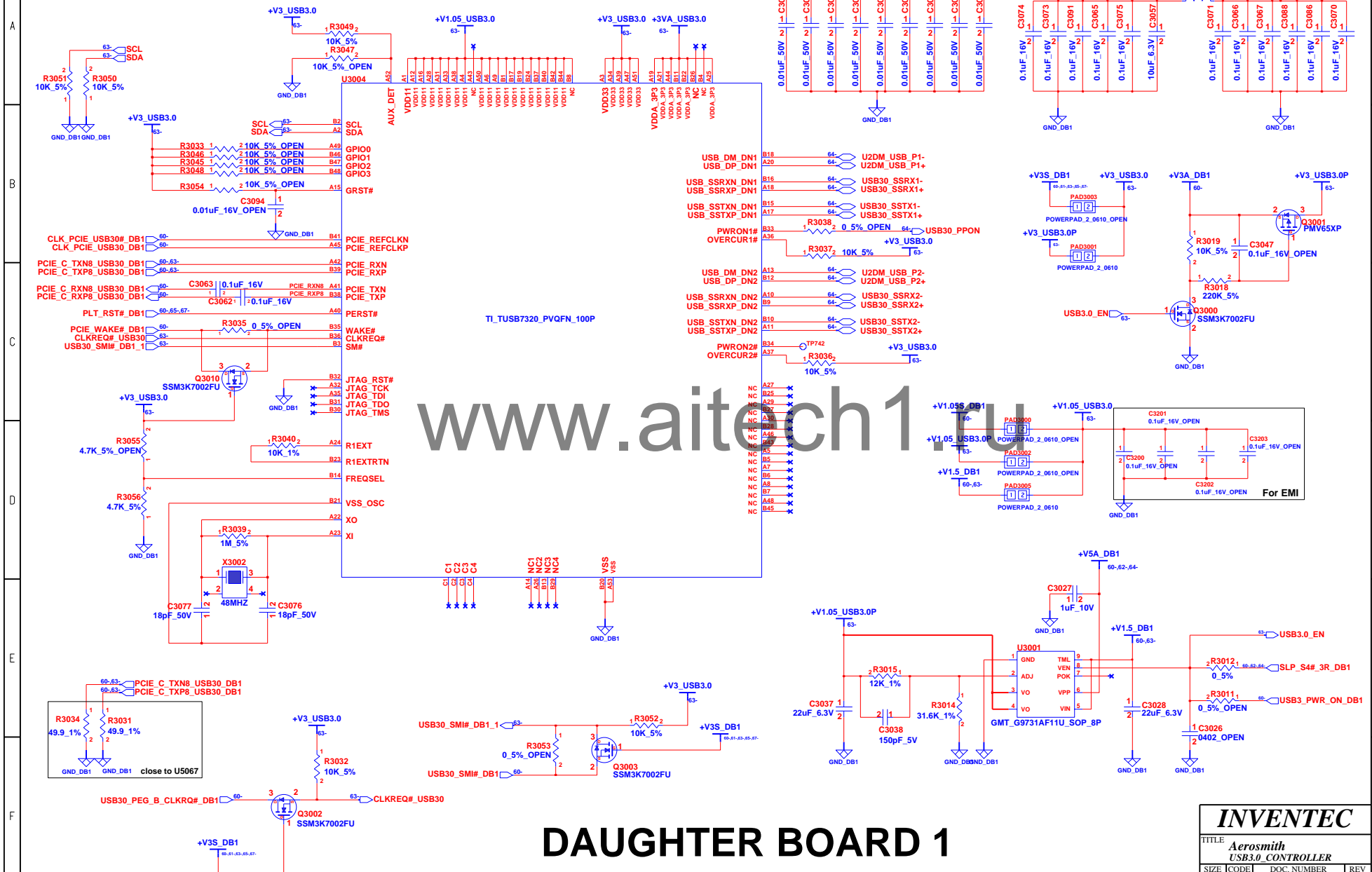
DAUGHTER BOARD 1

INVENTEC

TITLE Aerosmith USB & eSATA			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 62		OF 70	

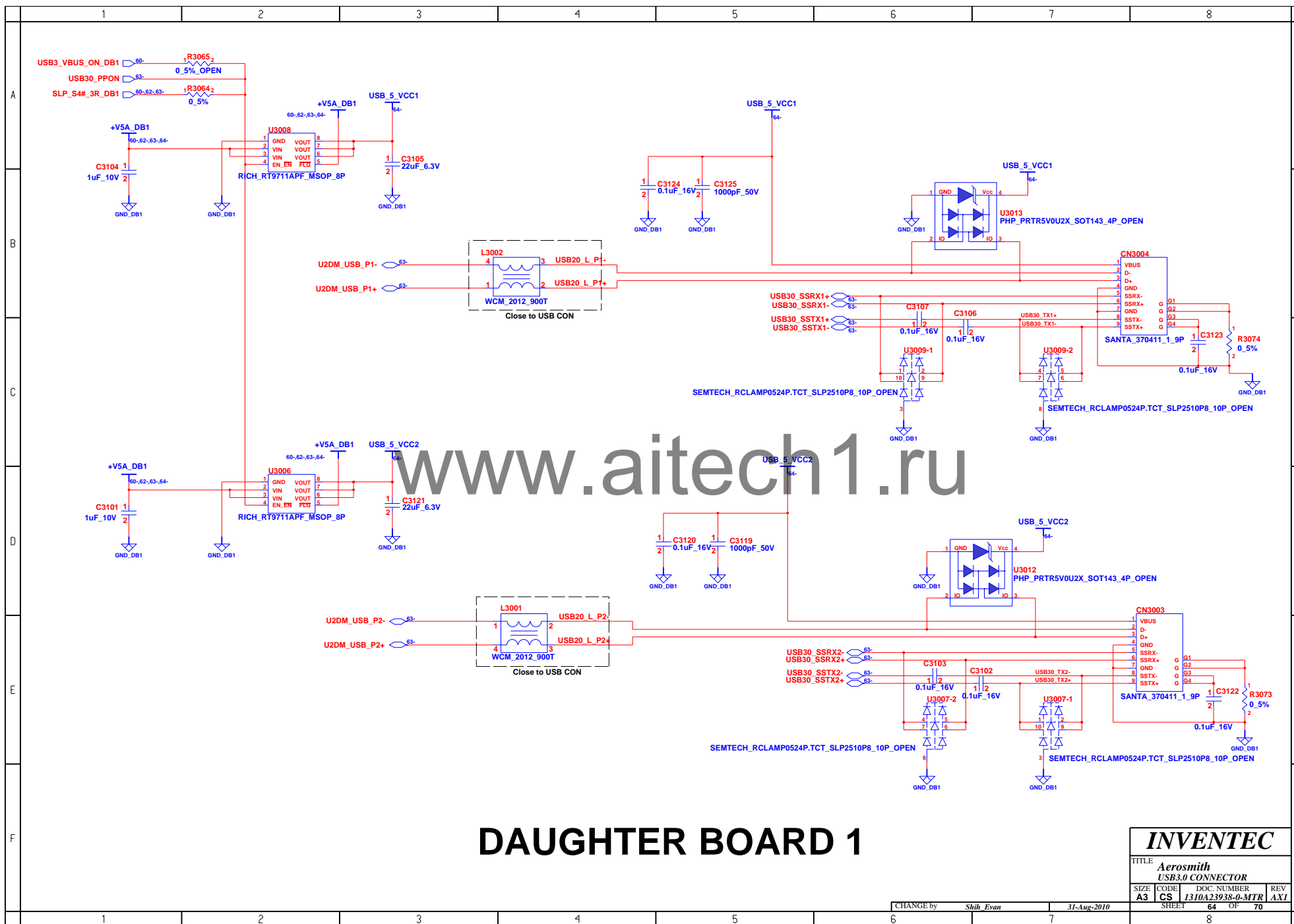
CHANGE by *Shih_Evan* 31-Aug-2010

USB3.0 CONTROLLER



DAUGHTER BOARD 1

INVENTEC			
TITLE <i>Aerosmith USB3.0 CONTROLLER</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>1310A23938-0-MTR</i>	REV <i>AX1</i>
SHEET 63		OF 70	



CARD READER

DAUGHTER BOARD 1

INVENTEC			
TITLE: Aerosmith CARD READER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23938-0-MTR	AX1
SHEET		65	OF 70

CHANGE by: Shih Evan 31-Aug-2010

CARD READER

DAUGHTER BOARD 1

INVENTEC

TITLE: **Aerosmith CARD READER**

SIZE: **A3** CODE: **CS** DOC. NUMBER: **I310A23938-0-MTR** REV: **AX1**

SHEET: **65** OF: **70**

CHANGE by: **Shih_Evan** 31-Aug-2010

CARD READER

DAUGHTER BOARD 1

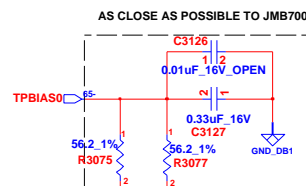
INVENTEC

TITLE: **Aerosmith CARD READER**

SIZE: **A3** CODE: **CS** DOC. NUMBER: **I310A23938-0-MTR** REV: **AX1**

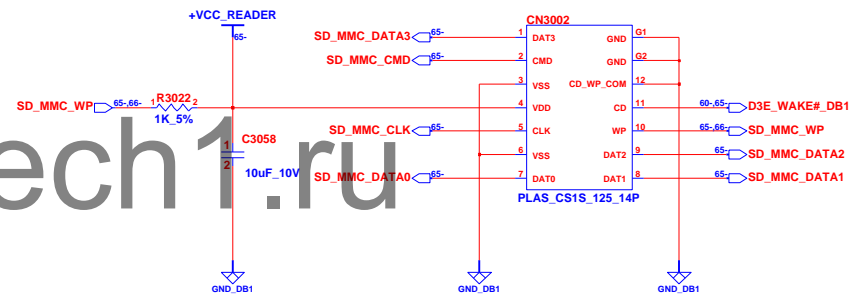
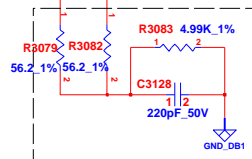
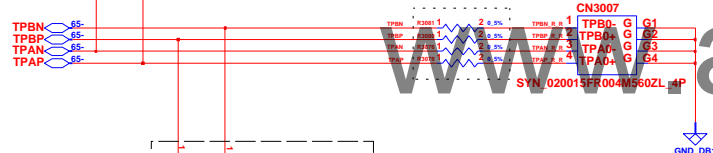
SHEET: **65** OF: **70**

CHANGE by: **Shih_Evan** 31-Aug-2010



1394 CNTR

AS CLOSE AS POSSIBLE TO CONN



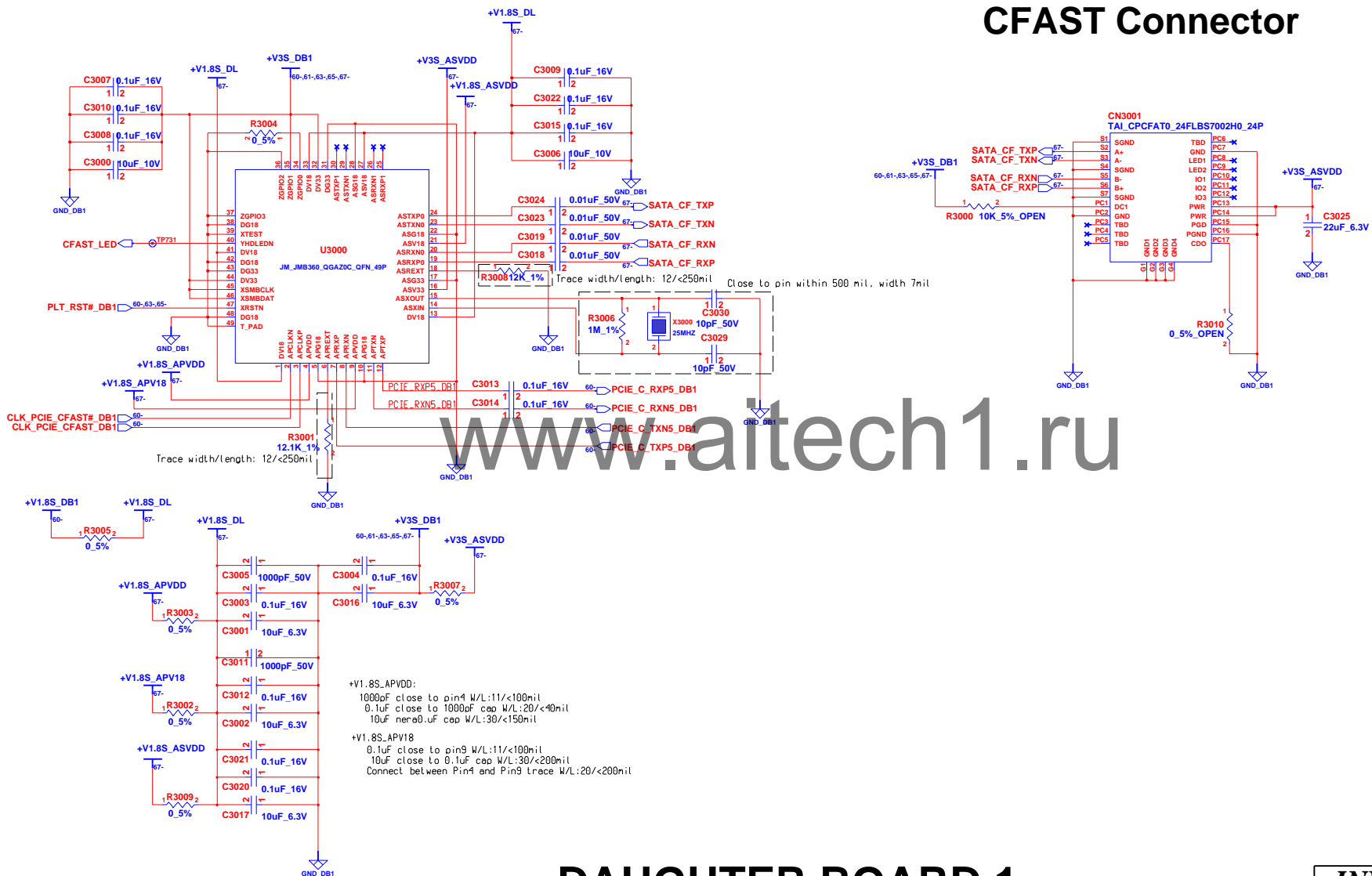
DAUGHTER BOARD 1

INVENTEC			
TITLE Aerosmith SD/MMC & 1394A			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
SHEET 66		OF 70	

CHANGE by Shih_Evan 31-Aug-2010

PCIE to SATA Controller

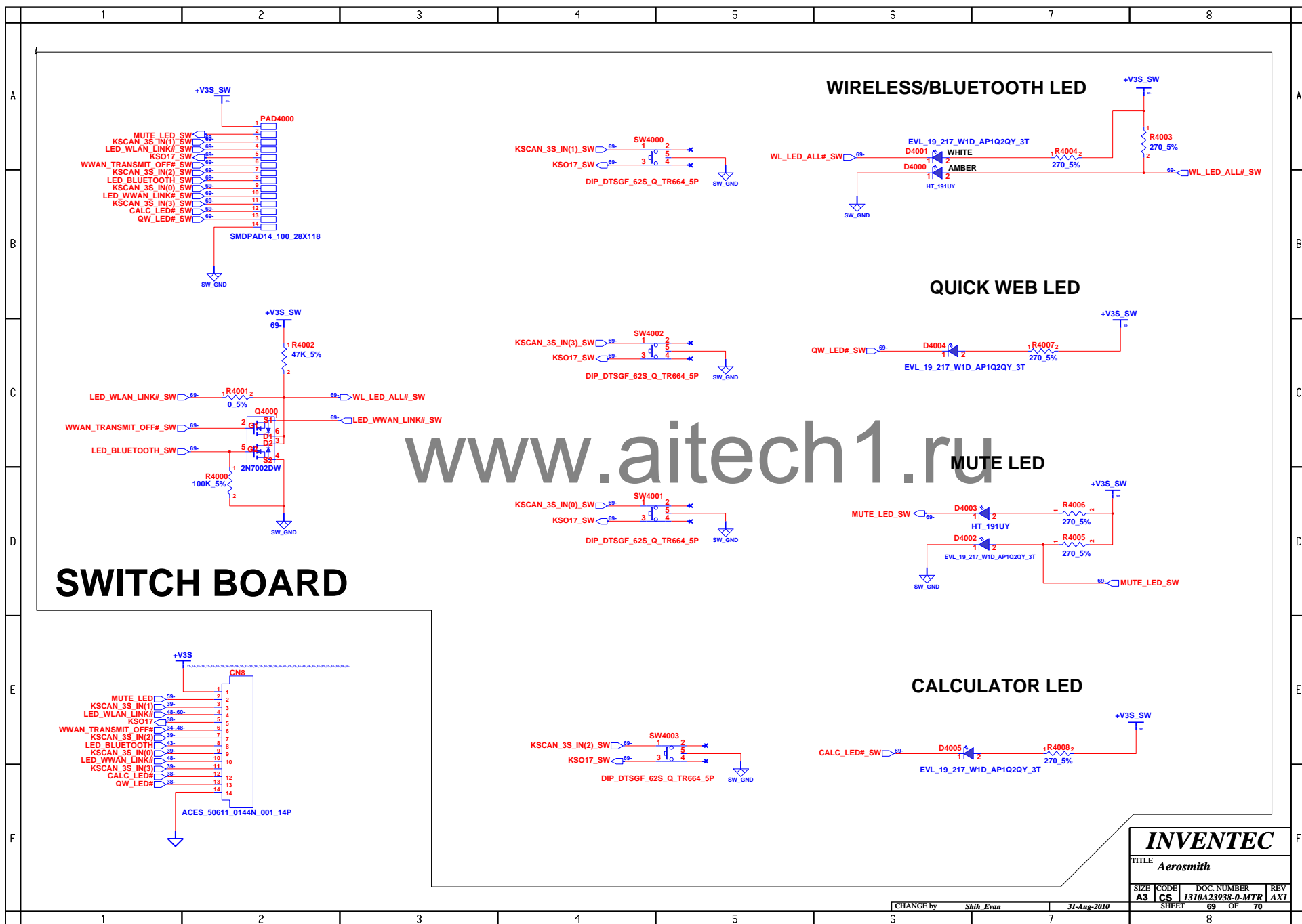
CFAST Connector



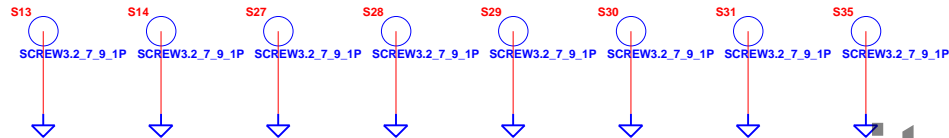
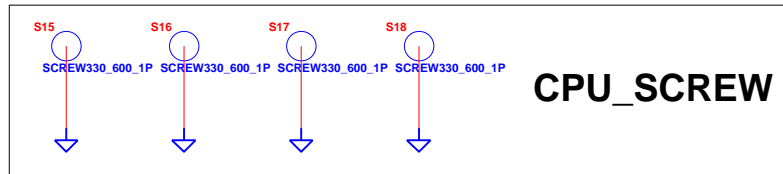
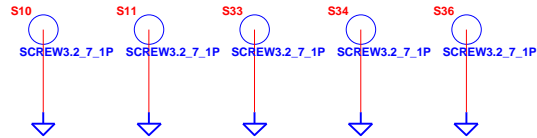
DAUGHTER BOARD 1

INVENTEC

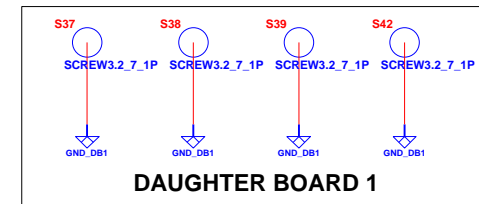
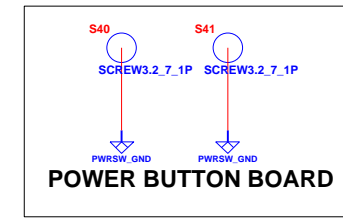
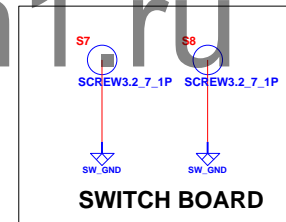
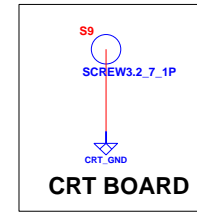
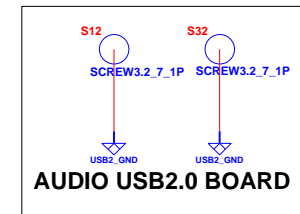
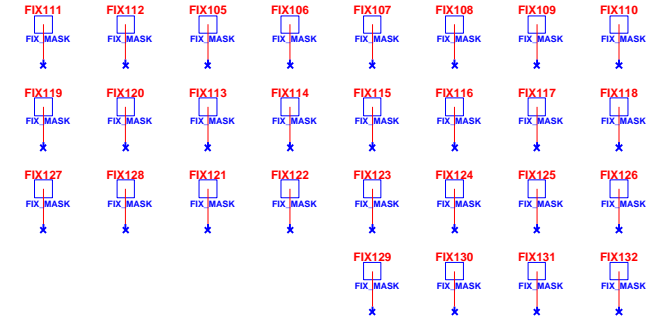
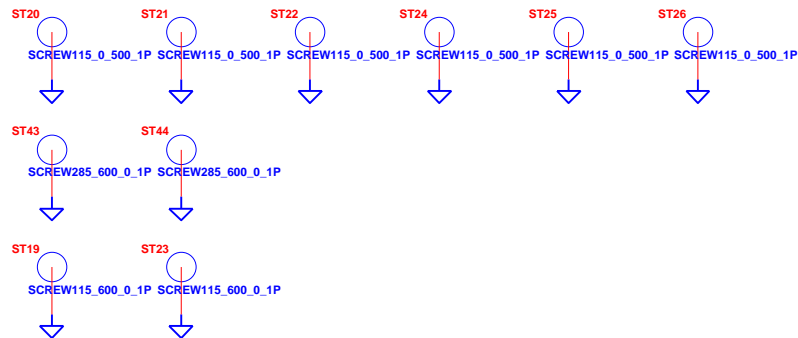
TITLE			
<i>Aerosmith</i> <i>CFAST</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>1310A23938-0-MTR</i>	<i>AX1</i>
SHEET		67	OF 70



SCREW



STANDOFF



INVENTEC			
TITLE Aerosmith SCREW			
SIZE A3	CODE CS	DOC. NUMBER 1310A23938-0-MTR	REV AXI
CHANGE by Shih_Evan		31-Aug-2010	
SHEET 70		OF 70	